

Westinghouse



Spiraline<sup>®</sup> Right Angle  
Gearmotors Type A

Single and Helical Worm  
Solid and Hollow Shaft

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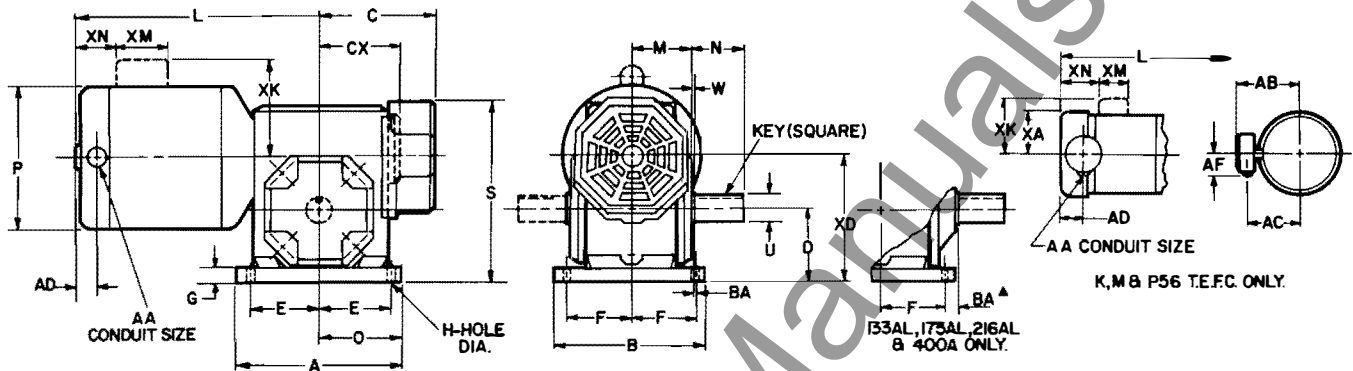
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November, 1970  
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Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Single Worm, Solid Shaft  
 Adaptable Base, Types A and AL

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A                | B               | C               | D*              | E               | F               | G             | H             | M               | N               | D               | S                | U**   | W             | BA                | CX†             | XD              | Key           |
|------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|-----------------|-----------------|------------------|-------|---------------|-------------------|-----------------|-----------------|---------------|
| 133AL      | 5 $\frac{3}{4}$  | 4 $\frac{3}{4}$ | —               | 2 $\frac{1}{2}$ | 2 $\frac{3}{8}$ | 1 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 1 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 5 $\frac{3}{8}$  | .750  | $\frac{1}{8}$ | 3 $\frac{1}{2}$ Δ | 2 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | $\frac{3}{8}$ |
| 175AL      | 6 $\frac{1}{4}$  | 5 $\frac{3}{4}$ | —               | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | 6 $\frac{1}{8}$  | .750  | $\frac{1}{8}$ | 3 $\frac{1}{2}$ Δ | 2 $\frac{3}{8}$ | 4 $\frac{3}{8}$ | $\frac{3}{8}$ |
| 216AL      | 7 $\frac{1}{4}$  | 6 $\frac{3}{8}$ | —               | 3 $\frac{1}{4}$ | 3               | 2 $\frac{1}{8}$ | $\frac{5}{8}$ | $\frac{1}{2}$ | 3 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 3 $\frac{3}{8}$ | 7 $\frac{1}{8}$  | 1.000 | $\frac{1}{8}$ | 3 $\frac{1}{2}$ Δ | 3 $\frac{3}{8}$ | 5 $\frac{1}{8}$ | $\frac{1}{4}$ |
| 268A       | 8 $\frac{1}{8}$  | 6 $\frac{3}{8}$ | 5 $\frac{1}{4}$ | 3 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 2 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 9 $\frac{1}{8}$  | 1.250 | $\frac{1}{8}$ | 0                 | —               | 6 $\frac{3}{8}$ | $\frac{1}{4}$ |
| 300A       | 9 $\frac{7}{8}$  | 9               | 6 $\frac{3}{8}$ | 4 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 3 $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 10 $\frac{7}{8}$ | 1.500 | $\frac{1}{8}$ | $\frac{1}{8}$     | —               | 7 $\frac{1}{4}$ | $\frac{3}{8}$ |
| 350A       | 10 $\frac{7}{8}$ | 9 $\frac{1}{8}$ | 7               | 4 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{3}{8}$ | 5 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 1.625 | $\frac{1}{8}$ | $\frac{3}{8}$     | —               | 8 $\frac{1}{4}$ | $\frac{3}{8}$ |

TOLERANCES FOR ABOVE TABLE:

 \*+0, — $\frac{1}{32}$   
 \*\*+.0000, —.0005

NOTES FOR ABOVE TABLE:

†Gearhead not fan cooled

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | DRIPPROOF AND TENV |                 |                 |               |                 |                 | TEFC          |                 |                 |                 |                 |                 |                 |
|-------------|--------------------|-----------------|-----------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|             | P                  | XK†             | XM†             | AA            | AD              | XN†             | AA            | AB              | AC              | AD              | AF              | XA              | XN†             |
| H48         | 5 $\frac{3}{4}$    | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 1 $\frac{7}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| B48         | 5 $\frac{1}{4}$    | 4 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| D48         | 5 $\frac{1}{8}$    | 4 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| B56         | 6 $\frac{1}{2}$    | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| 56          | 6 $\frac{1}{2}$    | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| K56         | 6 $\frac{1}{8}$    | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |
| M56         | 6 $\frac{1}{8}$    | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |
| P56         | 6 $\frac{1}{8}$    | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIPPROOF AND TENV |                  |                  |                  |                  | TEFC             |                  |                  |                  |                  |
|-------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|       | H48                | B48              | D48              | B56              | 56               | K56              | M56              | K56              | M56              | P56              |
| 133   | 10 $\frac{1}{8}$   | —                | —                | —                | —                | —                | —                | —                | —                | —                |
| 175   | 10 $\frac{1}{4}$   | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 216   | —                  | —                | —                | —                | —                | 12 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 14 $\frac{1}{4}$ |
| 268   | —                  | —                | —                | —                | —                | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14               | 15               | 15 $\frac{1}{2}$ |
| 300   | —                  | —                | —                | —                | —                | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$ | 16 $\frac{1}{4}$ |
| 350   | —                  | —                | —                | —                | —                | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ |

**PRELIMINARY** ☐ **CERTIFIED** ☐ **PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            | Signed      |           | Date           |    |       |  |

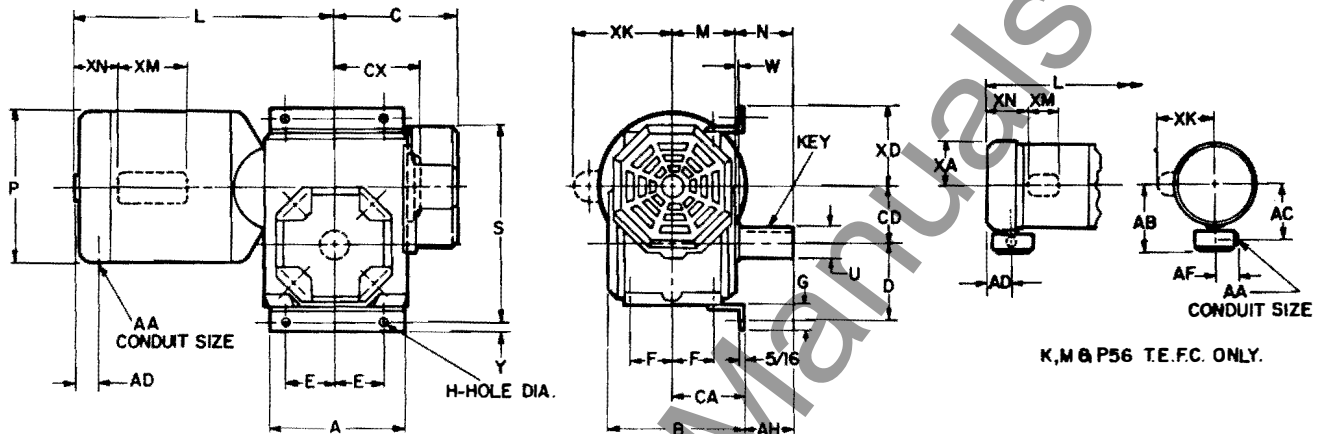
 November, 1970  
 New Information  
 E. D/1781, 1782/DS; D/2431



Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Single Worm, Solid Shaft  
 Angle Brackets, Type B

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A               | B               | C               | D               | E               | F               | G               | H             | M               | N               | S                | U*    | W             | Y             | AH              | CA              | CD              | CX†             | Key           |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-----------------|-----------------|------------------|-------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|---------------|
| 133B       | 3 $\frac{1}{4}$ | 3 $\frac{3}{8}$ | —               | 2 $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{4}$ | $\frac{3}{8}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 5 $\frac{1}{8}$  | .750  | $\frac{1}{8}$ | $\frac{3}{8}$ | 1 $\frac{3}{8}$ | 1 $\frac{7}{8}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | $\frac{3}{8}$ |
| 175B       | 4 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | —               | 3 $\frac{3}{8}$ | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 6 $\frac{7}{8}$  | .750  | $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 2 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | $\frac{3}{8}$ |
| 216B       | 4 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | —               | 3 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | 1 $\frac{3}{8}$ | 1 $\frac{1}{2}$ | $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 8 $\frac{3}{8}$  | 1.000 | $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{3}{8}$ | $\frac{1}{4}$ |
| 268B       | 5 $\frac{3}{8}$ | 5 $\frac{1}{8}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2               | $\frac{1}{2}$ | 2 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 9 $\frac{3}{8}$  | 1.250 | $\frac{1}{8}$ | $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | —               | $\frac{1}{4}$ |
| 300B       | 6 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 2               | $\frac{3}{4}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 1.500 | $\frac{1}{8}$ | $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 3 $\frac{1}{4}$ | 3               | —               | $\frac{3}{8}$ |
| 350B       | 7 $\frac{3}{8}$ | 7 $\frac{1}{4}$ | 7               | 5 $\frac{1}{4}$ | 3 $\frac{3}{8}$ | 2 $\frac{1}{2}$ | 2               | $\frac{3}{8}$ | 3 $\frac{1}{2}$ | 3 $\frac{3}{8}$ | 11 $\frac{1}{8}$ | 1.625 | $\frac{1}{8}$ | $\frac{3}{4}$ | 3 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | —               | $\frac{3}{8}$ |

 TOLERANCES FOR ABOVE TABLE:  
 \*+.0000, —.0005

 NOTES FOR ABOVE TABLE:  
 †Gearhead not fan cooled

**MOTOR DIMENSIONS IN INCHES**

| MOTOR<br>FRAME |    |     |     | DRIPPROOF AND TENV |    |     | TEFC |    |    |    |    |    |     |
|----------------|----|-----|-----|--------------------|----|-----|------|----|----|----|----|----|-----|
|                | P  | XK† | XM† | AA                 | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48            | 5¼ | 5⅝  | 4⅞  | ½                  | 1⅜ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| B48            | 5⅛ | 4⅜  | 3⅝  | ½                  | 1⅞ | 1⅜  | —    | —  | —  | —  | —  | —  | —   |
| D48            | 5⅛ | 4⅜  | 3⅝  | ½                  | 1⅞ | 1⅜  | —    | —  | —  | —  | —  | —  | —   |
| B56            | 6½ | 5⅝  | 3⅞  | ½                  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| 56             | 6½ | 5⅝  | 3⅞  | ½                  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56            | 6⅝ | 5¾  | 3⅞  | ½                  | ¾  | 1⅜  | ¾    | 5⅝ | 4⅝ | 2⅝ | 1⅞ | 3¾ | 3⅝  |
| M56            | 6⅝ | 5¾  | 3⅞  | ½                  | ¾  | 1⅜  | ¾    | 5⅝ | 4⅝ | 2⅝ | 1⅞ | 3¾ | 3⅝  |
| P56            | 6⅝ | 5¾  | 3⅞  | ½                  | ¾  | 1⅜  | ¾    | 5⅝ | 4⅝ | 2⅝ | 1⅞ | 3¾ | 3⅝  |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIPPROOF AND TENV |                  |                  |                  |                  |                  | TEFC             |                  |                  |                  |
|-------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|       | H48                | B48              | D48              | B56              | 56               | K56              | M56              | K56              | M56              | P56              |
| 133   | 10 $\frac{1}{8}$   | —                | —                | —                | —                | —                | —                | —                | —                | —                |
| 175   | 10 $\frac{3}{8}$   | 11 $\frac{1}{8}$ | 11 $\frac{3}{8}$ | 12 $\frac{1}{8}$ | 11 $\frac{3}{8}$ | 12 $\frac{3}{8}$ | 12 $\frac{3}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 216   | —                  | —                | —                | —                | —                | 12 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 14 $\frac{3}{8}$ | 14 $\frac{3}{8}$ |
| 268   | —                  | —                | —                | —                | —                | 12 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 14               | 15               | 15 $\frac{1}{2}$ |
| 300   | —                  | —                | —                | —                | —                | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 14 $\frac{3}{4}$ | 15 $\frac{3}{4}$ | 16 $\frac{1}{4}$ |
| 350   | —                  | —                | —                | —                | —                | 13 $\frac{3}{8}$ | 14 $\frac{3}{8}$ | 15 $\frac{3}{8}$ | 16 $\frac{3}{8}$ | 16 $\frac{3}{8}$ |

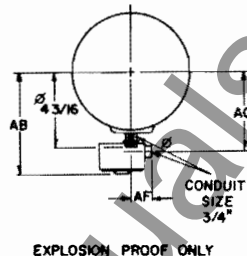
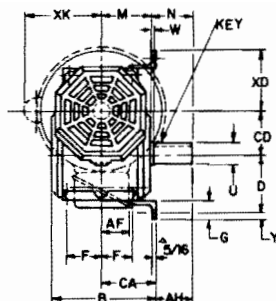
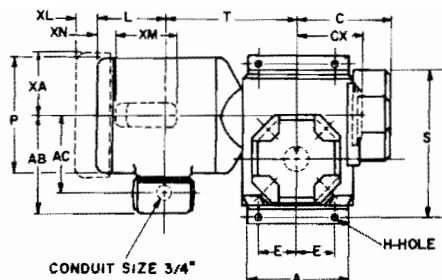
**PRELIMINARY ■ CERTIFIED ■ PRINT FOR:**

|          |            |             |           |       |                |          |  |
|----------|------------|-------------|-----------|-------|----------------|----------|--|
| Customer |            |             |           |       | Customer Order |          |  |
| G.O.     |            |             | Item No.  |       |                | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq. | Hz             | Volts    |  |
| Assembly |            |             | Signed    |       |                | Date     |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

**Spiraline® Right Angle  
Gearmotors Type A**

 Single Worm, Solid Shaft  
Angle Brackets, Type B

**Motor Frames 143T-215T**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A               | B               | C               | D               | E                | F               | G               | H               | M               | N               | S                | U*    | W               | Y               | AN              | CA              | CD              | CX†             | Key             |
|------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 175B       | 4 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | —               | 3 $\frac{1}{8}$ | 1 $\frac{3}{16}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 6 $\frac{1}{8}$  | .750  | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{8}$ |
| 216B       | 4 $\frac{1}{4}$ | 4 $\frac{1}{8}$ | —               | 3 $\frac{1}{8}$ | 2 $\frac{1}{8}$  | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 8 $\frac{1}{8}$  | 1.000 | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 1 $\frac{1}{4}$ |
| 268B       | 5 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$  | 1 $\frac{1}{8}$ | 2               | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 9 $\frac{1}{8}$  | 1.250 | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | —               | 1 $\frac{1}{4}$ |
| 300B       | 6 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$  | 2 $\frac{1}{8}$ | 2               | 1 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 1.500 | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3               | —               | 1 $\frac{1}{4}$ |
| 350B       | 7 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 7               | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$  | 2 $\frac{1}{8}$ | 2               | 1 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 1.625 | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | —               | 1 $\frac{1}{4}$ |
| 400B       | 8 $\frac{1}{4}$ | 8 $\frac{1}{8}$ | 7 $\frac{1}{8}$ | 6               | 3 $\frac{1}{2}$  | 1 $\frac{1}{8}$ | 3               | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 1.750 | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | 4               | —               | 1 $\frac{1}{4}$ |

TOLERANCES FOR ABOVE TABLE: \*+.0000, —.0005

NOTES FOR ABOVE TABLE: †Gearhead not fan cooled  $\Delta\frac{1}{2}$ " 400B only
**MOTOR DIMENSIONS IN INCHES**

| MOTOR DIMENSIONS IN INCHES |    |     |     |     |                        |     |    |    |    |    |    |                   |    |     |              |    |    |    |    |  |
|----------------------------|----|-----|-----|-----|------------------------|-----|----|----|----|----|----|-------------------|----|-----|--------------|----|----|----|----|--|
| MOTOR FRAME                | XA | XK‡ | XM‡ | XN‡ | DRIPPROOF, TENV & TEFC |     |    |    |    |    |    | EXPLOSION PROOF ⌀ |    |     |              |    |    |    |    |  |
|                            |    |     |     |     | Single & Three Phase   |     |    |    |    |    |    | Three Phase       |    |     | Single Phase |    |    |    |    |  |
|                            |    |     |     |     | L                      | P   | XL | AB | AC | AF | L  | P                 | XL | AB  | AC           | AF | AB | AC | AF |  |
| K143T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅜                     | 6⅞  | 1¼ | 6⅞ | 4⅜ | 1⅞ | 5⅜ | 6⅞                | 1¼ | 7⅞  | 5½           | 2  | 8  | 5⅞ | 3¾ |  |
| M145T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅜                     | 6⅞  | 1¼ | 6⅞ | 4⅜ | 1⅞ | 5½ | 6⅞                | 1¼ | 7⅞  | 5½           | 2  | 8  | 5⅞ | 3¾ |  |
| P143T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅜                     | 6⅞  | 1¼ | 6⅞ | 4⅜ | 1⅞ | 6⅞ | 6⅞                | 1¼ | 7⅞  | 5½           | 2  | 8  | 5⅞ | 3¾ |  |
| R145T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 5⅜                     | 6⅞  | 1¼ | 6⅞ | 4⅜ | 1⅞ | 6⅞ | 6⅞                | 1¼ | 7⅞  | 5½           | 2  | 8  | 5⅞ | 3¾ |  |
| K182T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 4⅜                     | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 6½ | 8¼                | 1⅞ | 8¾  | 6⅞           | 2  | 8⅜ | 5⅞ | 3¾ |  |
| M184T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 5⅞                     | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 7¼ | 8¼                | 1⅞ | 8¾  | 6⅞           | 2  | 8⅜ | 5⅞ | 3¾ |  |
| P182T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 6                      | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 7¾ | 8¼                | 1⅞ | 8¾  | 6⅞           | 2  | 8⅜ | 5⅞ | 3¾ |  |
| R184T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 6⅞                     | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | —  | —                 | —  | —   | —            | —  | —  | —  | —  |  |
| K213T                      | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞● | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 5⅞ | 10⅞               | 1⅞ | 10⅞ | 7⅞           | 2  | —  | —  | —  |  |
| M215T                      | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞  | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 6⅞ | 10⅞               | 1⅞ | 10⅞ | 7⅞           | 2  | —  | —  | —  |  |

NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENV &amp; TEFC (not explosion proof) single phase only.

ØConduit box is optional on fractional HP explosion proof motors. (140T frame only)

●TEFC only = 10%

**GEARHEAD & MOTOR "T" DIMENSIONS IN INCHES**

| DRIPPROOF, TENV & TEFC |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| FRAME                  | K143T            | M145T            | P143T            | R145T            | K182T            | M184T            | P182T            | R184T            | K213T            | M215T            |
| 175                    | 7 $\frac{1}{8}$  | 7 $\frac{1}{8}$  | 8 $\frac{1}{8}$  | 8 $\frac{1}{8}$  | —                | —                | —                | —                | —                | —                |
| 216                    | 7 $\frac{1}{8}$  | 8 $\frac{1}{8}$  | 8 $\frac{1}{8}$  | 8 $\frac{1}{8}$  | 8 $\frac{1}{2}$  | 9                | 9 $\frac{1}{8}$  | 10 $\frac{1}{8}$ | —                | —                |
| 268                    | 8 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | —                | —                |
| 300                    | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ |
| 350                    | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ |
| 400                    | 10               | 10 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11               | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ |
| ■ EXPLOSION PROOF      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 175                    | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | —                | —                | —                | —                | —                | —                |
| 216                    | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 13               | 13 $\frac{1}{8}$ | 14 $\frac{1}{2}$ | 15               | —                | —                | —                |
| 268                    | 12 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | —                | —                | —                |
| 300                    | 13 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15 $\frac{1}{4}$ | 16               | 16 $\frac{1}{2}$ | —                | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ |
| 350                    | 13 $\frac{1}{8}$ | 14               | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | —                | 17 $\frac{1}{2}$ | 18 $\frac{1}{4}$ |
| 400                    | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15               | 15 $\frac{1}{4}$ | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | —                | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ |

NOTES:

▲ Motor &amp; Gearhead are "C" flange construction with flexible coupling. Add "C" to motor &amp; gear frame. Example — K143TC-175-C.

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

**Westinghouse Electric Corporation**

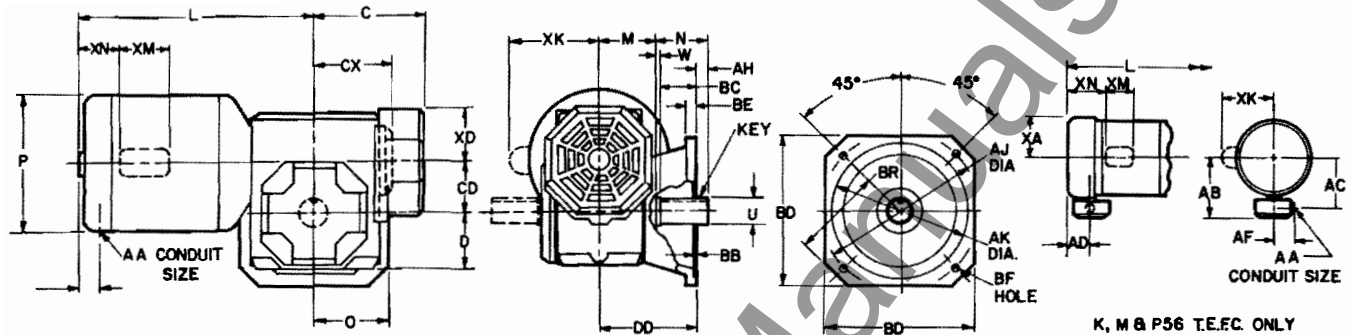
Medium Ac Motor and Gearing Division, Buffalo, N. Y. 14240

Printed in USA

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Single Worm, Solid Shaft  
Ring Base, Type R

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | C               | D               | M               | N               | O               | U*    | W             | AH              | AJ               | AK**  | BB            | BC              | BD               | BE            | BF              | BR              | CD              | CX†             | DO              | XD              | Key            |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|---------------|-----------------|------------------|-------|---------------|-----------------|------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| 175R       | —               | 2 $\frac{3}{8}$ | 2 $\frac{3}{4}$ | 1 $\frac{1}{8}$ | 2               | .750  | $\frac{1}{8}$ | $\frac{1}{8}$   | 3 $\frac{1}{8}$  | ●     | ●             | 1 $\frac{1}{8}$ | 4                | $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{4}$ | 1 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | $\frac{3}{16}$ |
| 216R       | —               | 2 $\frac{3}{8}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 1.000 | $\frac{1}{8}$ | $\frac{1}{8}$   | 6 $\frac{1}{8}$  | 6.000 | $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | $\frac{1}{8}$   | 3 $\frac{1}{8}$ | 2 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | $\frac{1}{4}$  |
| 268R       | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | 1.250 | $\frac{1}{8}$ | $\frac{3}{8}$   | 7 $\frac{1}{8}$  | 6.500 | $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 7                | $\frac{3}{8}$ | $\frac{1}{2}$   | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | —               | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | $\frac{1}{4}$  |
| 300R       | 6 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 1.500 | $\frac{1}{8}$ | $\frac{7}{8}$   | 9 $\frac{1}{8}$  | 8.250 | $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 8 $\frac{3}{4}$  | $\frac{1}{2}$ | $\frac{1}{8}$   | 5 $\frac{1}{8}$ | 3               | —               | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{3}{8}$  |
| 350R       | 7               | 4               | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1.625 | $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 9.750 | $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{1}{8}$   | 6               | 3 $\frac{1}{2}$ | —               | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{3}{8}$  |

TOLERANCES FOR TABLE ABOVE:

\*+.0000, —.0005

\*\*+.003, —.000

NOTES FOR TABLE ABOVE:

● Flat faced ring with slots open to edge of ring.

† Gearhead not fan cooled.

**MOTOR DIMENSIONS IN INCHES**

| MOTOR<br>FRAME |    |     |     | DRIPPROOF AND TENV |    |     | TEFC |    |    |    |    |    |     |
|----------------|----|-----|-----|--------------------|----|-----|------|----|----|----|----|----|-----|
|                | P  | XK† | XM† | AA                 | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48            | 5¼ | 5⅝  | 4⅞  | ½                  | 1⅜ | 1½  | —    | —  | —  | —  | —  | —  | —   |
| B48            | 5⅛ | 4⅜  | 3⅞  | ½                  | 1⅜ | 1⅝  | —    | —  | —  | —  | —  | —  | —   |
| D48            | 5⅛ | 4⅜  | 3⅞  | ½                  | 1⅜ | 1⅝  | —    | —  | —  | —  | —  | —  | —   |
| B56            | 6½ | 5⅝  | 3⅞  | ½                  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| 56             | 6½ | 5⅝  | 3⅞  | ½                  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56            | 6⅝ | 5¾  | 3⅞  | ½                  | ¾  | 1⅝  | ¾    | 5⅝ | 4⅞ | 2⅞ | 1⅝ | 3¾ | 3⅝  |
| M56            | 6⅝ | 5¾  | 3⅞  | ½                  | ¾  | 1⅝  | ¾    | 5⅝ | 4⅞ | 2⅞ | 1⅝ | 3¾ | 3⅝  |
| P56            | 6⅝ | 5¾  | 3⅞  | ½                  | ¾  | 1⅝  | ¾    | 5⅝ | 4⅞ | 2⅞ | 1⅝ | 3¾ | 3⅝  |

NOTES FOR ABOVE TABLE:

† Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIppROOF AND TENV |                  |                  |                  |                  |                  |                  | TEFC             |                  |                  |
|-------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|       | H48                | B48              | D48              | B56              | 56               | K56              | M56              | K56              | M56              | P56              |
| 175   | 10 $\frac{1}{8}$   | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 216   | —                  | —                | —                | —                | —                | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 268   | —                  | —                | —                | —                | —                | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14               | 15               | 15 $\frac{1}{2}$ |
| 300   | —                  | —                | —                | —                | —                | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 14 $\frac{3}{4}$ | 15 $\frac{1}{4}$ | 16 $\frac{1}{4}$ |
| 350   | —                  | —                | —                | —                | —                | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ |

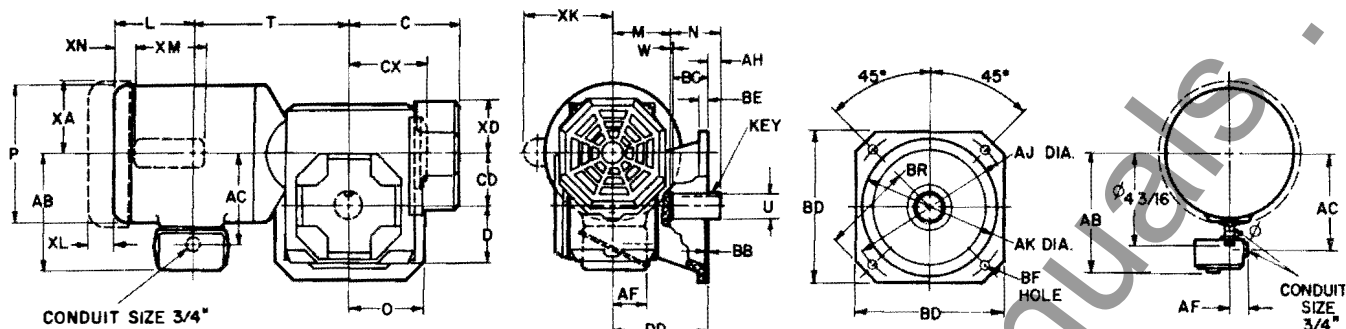
**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

**Spiraline® Right Angle  
Geermotors Type A**

 Single Worm, Solid Shaft  
Ring Base, Type R

**Motor Frames 143T-215T**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | C               | D               | M               | N               | O               | U*    | W             | AH            | AJ               | AK**  | BB            | BC              | BD               | BE              | BF              | BR              | CD              | CX†             | DD              | XD              | Key           |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|---------------|---------------|------------------|-------|---------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
| 175R       | —               | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2               | .750  | $\frac{1}{4}$ | $\frac{1}{4}$ | 3 $\frac{1}{2}$  | ●     | ●             | 1 $\frac{1}{4}$ | 4                | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1 $\frac{1}{4}$ | $\frac{3}{8}$ |
| 218R       | —               | 2 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1.000 | $\frac{1}{4}$ | $\frac{3}{8}$ | 6 $\frac{1}{2}$  | 6.000 | $\frac{3}{4}$ | 1 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$   | $\frac{3}{4}$   | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | 4 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | $\frac{1}{4}$ |
| 268R       | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 1.250 | $\frac{1}{4}$ | $\frac{5}{8}$ | 7 $\frac{1}{4}$  | 6.500 | $\frac{3}{4}$ | 1 $\frac{3}{4}$ | 7                | $\frac{5}{8}$   | $\frac{1}{2}$   | 4 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | —               | 4 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | $\frac{1}{4}$ |
| 300R       | 6 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 1.500 | $\frac{1}{4}$ | $\frac{3}{4}$ | 9 $\frac{1}{4}$  | 8.250 | $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 8 $\frac{3}{4}$  | $\frac{3}{4}$   | $\frac{1}{2}$   | 5 $\frac{1}{4}$ | 3               | —               | 5 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | $\frac{3}{8}$ |
| 350R       | 7               | 4               | 3 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 1.625 | $\frac{1}{4}$ | $\frac{1}{2}$ | 10 $\frac{1}{4}$ | 9.750 | $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 10 $\frac{1}{4}$ | $\frac{1}{2}$   | $\frac{3}{4}$   | 6               | 3 $\frac{1}{2}$ | —               | 5 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | $\frac{3}{8}$ |

 TOLERANCES FOR TABLE ABOVE: \*+.0000, —.0005  
 \*\*.003, —.000

 NOTES FOR TABLE ABOVE: ● Flat faced ring with slots open to edge of ring.  
 † Gearhead not fan cooled.

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XA | XK‡ | XM‡ | XN‡ | DRIPPROOF, TENV & TEFC |      |    |    |    |    |    | EXPLOSION PROOF ⚠ |    |     |             |    |    |              |    |  |
|-------------|----|-----|-----|-----|------------------------|------|----|----|----|----|----|-------------------|----|-----|-------------|----|----|--------------|----|--|
|             |    |     |     |     | Single & Three Phase   |      |    |    |    |    |    |                   |    |     | Three Phase |    |    | Single Phase |    |  |
|             |    |     |     |     | L                      | P    | XL | AB | AC | AF | L  | P                 | XL | AB  | AC          | AF | AB | AC           | AF |  |
| K143T       | 3¼ | 5¼  | 3¾  | 1¾  | 4¾                     | 6¾   | 1½ | 6¾ | 4¾ | 1½ | 5¾ | 6¾                | 1½ | 7¾  | 5½          | 2  | 8  | 5½           | 3¾ |  |
| M145T       | 3¾ | 5¼  | 3¾  | 1¾  | 4¾                     | 6¾   | 1½ | 6¾ | 4¾ | 1½ | 5½ | 6¾                | 1½ | 7¾  | 5½          | 2  | 8  | 5½           | 3¾ |  |
| P143T       | 3¾ | 5¼  | 3¾  | 1¾  | 4¾                     | 6¾   | 1½ | 6¾ | 4¾ | 1½ | 6¾ | 6¾                | 1½ | 7¾  | 5½          | 2  | 8  | 5½           | 3¾ |  |
| R145T       | 3¾ | 5¼  | 3¾  | 1¾  | 5¾                     | 6¾   | 1½ | 6¾ | 4¾ | 1½ | 6¾ | 6¾                | 1½ | 7¾  | 5½          | 2  | 8  | 5½           | 3¾ |  |
| K182T       | 4¾ | 6¾  | 4¾  | 1¾  | 4¾                     | 8½   | 1¾ | 6¾ | 5½ | 1½ | 6½ | 8½                | 1¾ | 8½  | 6¾          | 2  | 8¾ | 5¾           | 3¾ |  |
| M184T       | 4¾ | 6¾  | 4¾  | 1¾  | 5¾                     | 8½   | 1¾ | 6¾ | 5½ | 1½ | 7½ | 8½                | 1¾ | 8½  | 6¾          | 2  | 8¾ | 5¾           | 3¾ |  |
| P182T       | 4¾ | 6¾  | 4¾  | 1¾  | 6                      | 8½   | 1¾ | 6¾ | 5½ | 1½ | 7½ | 8½                | 1¾ | 8½  | 6¾          | 2  | 8¾ | 5¾           | 3¾ |  |
| R184T       | 4¾ | 6¾  | 4¾  | 1¾  | 6¾                     | 8½   | 1¾ | 6¾ | 5½ | 1½ | —  | —                 | —  | —   | —           | —  | —  | —            | —  |  |
| K213T       | 5¾ | —   | —   | —   | 6¾                     | 9¾ ● | 1¾ | 7¾ | 5¾ | 1½ | 5¾ | 10¾               | 1¾ | 10¾ | 7¾          | 2  | —  | —            | —  |  |
| M215T       | 5¾ | —   | —   | —   | 6¾                     | 9¾ ● | 1¾ | 7¾ | 5¾ | 1½ | 6¾ | 10¾               | 1¾ | 10¾ | 7¾          | 2  | —  | —            | —  |  |

 NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENV & TEFC (not explosion proof) single phase only.  
 ● Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

 ●TEFC only = 10 $\frac{3}{4}$ 
**GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES**

| DRIPPROOF, TENV & TEFC |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| FRAME                  | K143T            | M145T            | P143T            | R145T            | K182T            | M184T            | P182T            | R184T            | K213T            | M215T            |
| 175                    | 7 $\frac{1}{4}$  | 7 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | —                | —                | —                | —                | —                | —                |
| 216                    | 7 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | 8 $\frac{1}{2}$  | 9                | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | —                | —                |
| 268                    | 8 $\frac{1}{4}$  | 8 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | —                | —                |
| 300                    | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ |
| 350                    | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$ |
| EXPLOSION PROOF        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 175                    | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | —                | —                | —                | —                | —                | —                |
| 216                    | 11 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 13               | 13 $\frac{1}{4}$ | 14 $\frac{1}{2}$ | 15               | —                | —                | —                |
| 268                    | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$ | 15 $\frac{1}{4}$ | —                | —                | —                |
| 300                    | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$ | 16               | 16 $\frac{1}{2}$ | —                | 17 $\frac{1}{4}$ | 17 $\frac{1}{4}$ |
| 350                    | 13 $\frac{1}{4}$ | 14               | 14 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | —                | 17 $\frac{1}{2}$ | 18 $\frac{1}{4}$ |

NOTES:

- Motor & Gearhead are "C" flange construction with flexible coupling.
- 
- Add "C" to motor & gear frame. Example — K143TC-175-C.

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

**Westinghouse Electric Corporation**

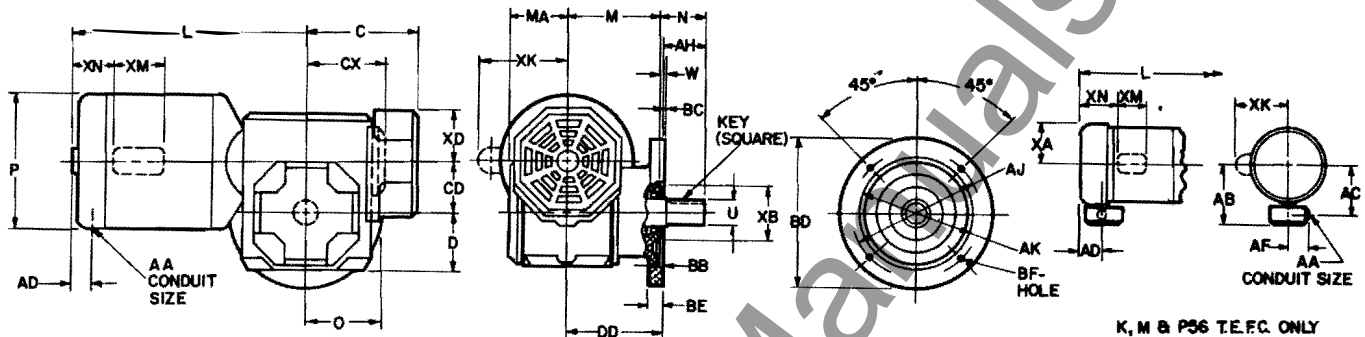
Medium Ac Motor and Gearing Division, Buffalo, N. Y. 14240

Printed in USA

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Single Worm, Solid Shaft  
 Ring Base, Long Shaft, Type RL

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | C                             | D                             | M                             | N                             | O                             | U*    | W                           | AH                            | AJ                            | AK**  | BB                          | BC                          | BD                             | BE                          | BF                          | CD                            | CX†                           | DO                            | MA                            | XB                            | XD                            | Key                         |
|------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------|-----------------------------|-------------------------------|-------------------------------|-------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 133RL      | —                             | 1 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | .750  | <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>4</sub> | 4.000 | <sup>1</sup> / <sub>4</sub> | 0                           | 5 <sup>1</sup> / <sub>2</sub>  | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>7</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>4</sub> |
| 175RL      | —                             | 2 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 1.000 | <sup>1</sup> / <sub>4</sub> | 2                             | 4 <sup>1</sup> / <sub>4</sub> | 4.000 | <sup>1</sup> / <sub>4</sub> | 0                           | 5 <sup>1</sup> / <sub>2</sub>  | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 4                             | 2 <sup>1</sup> / <sub>4</sub> | 2                             | 1 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> |
| 216RL      | —                             | 2 <sup>3</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 1.000 | <sup>1</sup> / <sub>4</sub> | 2                             | 4 <sup>1</sup> / <sub>4</sub> | 4.000 | <sup>1</sup> / <sub>4</sub> | 0                           | 5 <sup>1</sup> / <sub>2</sub>  | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> |
| 268RL      | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>4</sub> | 4 <sup>3</sup> / <sub>4</sub> | 1.250 | <sup>1</sup> / <sub>4</sub> | 2                             | 7 <sup>3</sup> / <sub>4</sub> | 6.500 | <sup>1</sup> / <sub>4</sub> | 0                           | 8 <sup>3</sup> / <sub>4</sub>  | <sup>3</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>4</sub> | —                             | 4 <sup>3</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> |
| 300RL      | 6 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 1.625 | <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 9 <sup>1</sup> / <sub>2</sub> | 8.250 | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> | 10 <sup>3</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> | 3                             | —                             | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | <sup>3</sup> / <sub>4</sub> |
| 350RL      | 7                             | 4                             | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 1.625 | <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 9 <sup>1</sup> / <sub>2</sub> | 8.250 | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> | 10 <sup>3</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | —                             | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | <sup>3</sup> / <sub>4</sub> |

TOLERANCES FOR TABLE ABOVE:

\*+.0000, —.0005

\*\*+.003, —.000

NOTES FOR TABLE ABOVE:

†Gearhead not fan cooled

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | DRIppROOF AND TENV            |                               |                               |                             |                               |                               | TEFC                        |                               |                               |                               |                               |                               |                               |
|-------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|             | P                             | XK†                           | XM†                           | AA                          | AD                            | XN†                           | AA                          | AB                            | AC                            | AD                            | AF                            | XA                            | XN†                           |
| H48         | 5 <sup>3</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub> | —                           | —                             | —                             | —                             | —                             | —                             | —                             |
| B48         | 5 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub> | —                           | —                             | —                             | —                             | —                             | —                             | —                             |
| D48         | 5 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub> | —                           | —                             | —                             | —                             | —                             | —                             | —                             |
| B56         | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 2                             | —                           | —                             | —                             | —                             | —                             | —                             | —                             |
| 56          | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 2                             | —                           | —                             | —                             | —                             | —                             | —                             | —                             |
| K56         | 6 <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>4</sub>   | 1 <sup>1</sup> / <sub>4</sub> | <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 4 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 1 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> |
| M56         | 6 <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>4</sub>   | 1 <sup>1</sup> / <sub>4</sub> | <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 4 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 1 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> |
| P56         | 6 <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>4</sub>   | 1 <sup>1</sup> / <sub>4</sub> | <sup>3</sup> / <sub>4</sub> | 5 <sup>3</sup> / <sub>4</sub> | 4 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | 1 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIppROOF AND TENV             |                                |                                |                                |                                |                                | TEFC                           |                                |                                |                                |   |
|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---|
|       | H48                            | B48                            | D48                            | B56                            | 56                             | K56                            | M56                            | K56                            | M56                            | P56                            |   |
| 133   | 10 <sup>3</sup> / <sub>4</sub> | —                              | —                              | —                              | —                              | —                              | —                              | —                              | —                              | —                              | — |
| 175   | 10 <sup>3</sup> / <sub>4</sub> | 11 <sup>1</sup> / <sub>4</sub> | 11 <sup>1</sup> / <sub>4</sub> | 12 <sup>3</sup> / <sub>4</sub> | 11 <sup>3</sup> / <sub>4</sub> | 11 <sup>3</sup> / <sub>4</sub> | 12 <sup>3</sup> / <sub>4</sub> | 12 <sup>3</sup> / <sub>4</sub> | 13 <sup>3</sup> / <sub>4</sub> | 14 <sup>3</sup> / <sub>4</sub> | — |
| 216   | —                              | —                              | —                              | —                              | —                              | 12 <sup>1</sup> / <sub>4</sub> | 13 <sup>1</sup> / <sub>4</sub> | 13 <sup>1</sup> / <sub>4</sub> | 14 <sup>1</sup> / <sub>4</sub> | 14 <sup>1</sup> / <sub>4</sub> | — |
| 268   | —                              | —                              | —                              | —                              | —                              | 12 <sup>1</sup> / <sub>4</sub> | 13 <sup>1</sup> / <sub>4</sub> | 14                             | 15                             | 15 <sup>1</sup> / <sub>2</sub> | — |
| 300   | —                              | —                              | —                              | —                              | —                              | 13 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | — |
| 350   | —                              | —                              | —                              | —                              | —                              | 13 <sup>1</sup> / <sub>4</sub> | 14 <sup>1</sup> / <sub>4</sub> | 15 <sup>1</sup> / <sub>4</sub> | 16 <sup>1</sup> / <sub>4</sub> | 16 <sup>1</sup> / <sub>4</sub> | — |

**PRELIMINARY** ☐ **CERTIFIED** ☐ **PRINT FOR:**

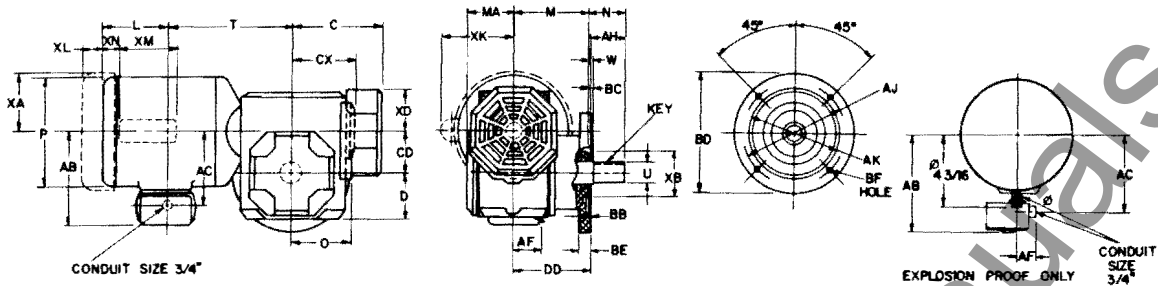
|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             |           | Signed         |    | Date     |  |



Spiraline® Right Angle Gearmotors Type A

Single Worm, Solid Shaft  
Ring Base, Long Shaft, Type RL

Motor Frames 143T-215T



GEARHEAD DIMENSIONS IN INCHES

| GEAR FRAME | C     | D     | M       | N     | O     | U*    | W    | AH    | AJ     | AK**  | BB   | BC   | BO     | BE    | BF    | CD      | CX†   | DD    | MA    | XB    | XD    | Key |
|------------|-------|-------|---------|-------|-------|-------|------|-------|--------|-------|------|------|--------|-------|-------|---------|-------|-------|-------|-------|-------|-----|
| 175RL      | —     | 2 1/4 | 3 1/8   | 2 1/8 | 2 3/4 | 1.000 | 3/16 | 2     | 4 3/4  | 4.000 | 3/16 | 0    | 5 1/2  | 3/16  | 13/32 | 1 1/4   | 2 7/8 | 4     | 2 3/4 | 2     | 1 3/8 | 1/4 |
| 216RL      | —     | 2 1/2 | 4 3/8   | 2 1/8 | 2 3/4 | 1.000 | 1/16 | 2     | 4 3/4  | 4.000 | 3/16 | 0    | 5 1/2  | 3/16  | 13/32 | 2 3/4   | 3 1/8 | 4 1/8 | 2 3/8 | 2 1/8 | 2 3/8 | 1/4 |
| 268RL      | 5 1/4 | 3 1/4 | 4 1/2   | 2 1/8 | 4 3/8 | 1.250 | 3/16 | 2     | 7 3/4  | 6.500 | 3/16 | 0    | 8 3/4  | 3/8   | 1/2   | 2 11/16 | —     | 4 1/8 | 2 3/8 | 2 1/2 | 2 3/8 | 1/4 |
| 300RL      | 6 3/8 | 3 1/2 | 5 11/16 | 3 1/8 | 5 3/8 | 1.625 | 3/8  | 3 3/8 | 9 1/2  | 8.250 | 3/16 | 1/16 | 10 3/4 | 1 1/8 | 5/16  | 3       | —     | 5 1/4 | 3 1/2 | 3 1/4 | 3 3/8 | 3/8 |
| 350RL      | 7     | 4     | 5 11/16 | 3 1/8 | 5 3/8 | 1.625 | 1/8  | 3 3/8 | 9 1/2  | 8.250 | 3/16 | 1/16 | 10 3/4 | 1 1/8 | 5/16  | 3 1/2   | —     | 5 1/4 | 3 1/2 | 3 1/4 | 3 3/8 | 3/8 |
| 400RL      | 7 3/8 | 4 1/2 | 6       | 3 3/8 | 6     | 1.750 | 1/8  | 3 3/8 | 10 3/4 | 9.750 | 3/16 | 1/16 | 12     | 1 1/8 | 11/16 | 4       | —     | 6 1/8 | 4 3/8 | 3 3/4 | 3 3/8 | 3/8 |

TOLERANCES FOR TABLE ABOVE: \*+.0000, -.0005 \*\*+.003, -.000 NOTES FOR TABLE ABOVE †Gearhead not fan cooled.

MOTOR DIMENSIONS IN INCHES

| MOTOR<br>FRAME | XA | XK‡ | XM‡ | XN‡ | ORIPPROOF, TENY & TEFC |    |    |    |    |    |    | EXPLOSION PROOF Ø |     |             |     |    |              |    |    |
|----------------|----|-----|-----|-----|------------------------|----|----|----|----|----|----|-------------------|-----|-------------|-----|----|--------------|----|----|
|                |    |     |     |     | Single & Three Phase   |    |    |    |    |    |    |                   |     | Three Phase |     |    | Single Phase |    |    |
|                |    |     |     |     | L                      | P  | XL | AB | AC | AF |    |                   |     | L           | P   | XL | AB           | AC | AF |
| K143T          | 3¾ | 5¼  | 3⅜  | 1⅞  | 4⅜                     | 6⅜ | 1¼ | 6⅜ | 4⅜ | 1⅞ | 5⅜ | 6⅜                | 1¼  | 7⅞          | 5½  | 2  | 8            | 5⅞ | 3⅝ |
| M145T          | 3¾ | 5¼  | 3⅜  | 1⅞  | 4⅞                     | 6⅜ | 1¼ | 6⅜ | 4⅜ | 1⅞ | 5½ | 6⅜                | 1¼  | 7⅞          | 5½  | 2  | 8            | 5⅞ | 3⅝ |
| P143T          | 3¾ | 5¼  | 3⅜  | 1⅞  | 4⅞                     | 6⅜ | 1¼ | 6⅜ | 4⅜ | 1⅞ | 6⅜ | 6⅜                | 1¼  | 7⅞          | 5½  | 2  | 8            | 5⅞ | 3⅝ |
| R145T          | 3¾ | 5¼  | 3⅜  | 1⅞  | 5⅜                     | 6⅜ | 1¼ | 6⅜ | 4⅜ | 1⅞ | 6⅜ | 6⅜                | 1¼  | 7⅞          | 5½  | 2  | 8            | 5⅞ | 3⅝ |
| K182T          | 4⅞ | 6⅜  | 4⅞  | 1⅞  | 4⅞                     | 8¼ | 1⅞ | 6⅜ | 5⅞ | 1⅞ | 6½ | 8¼                | 1⅞  | 8¼          | 6⅜  | 2  | 8⅞           | 5⅞ | 3⅝ |
| M184T          | 4⅞ | 6⅜  | 4⅞  | 1⅞  | 5⅜                     | 8¼ | 1⅞ | 6⅜ | 5⅞ | 1⅞ | 7¼ | 8¼                | 1⅞  | 8¼          | 6⅜  | 2  | 8⅞           | 5⅞ | 3⅝ |
| P182T          | 4⅞ | 6⅜  | 4⅞  | 1⅞  | 6                      | 8¼ | 1⅞ | 6⅜ | 5⅞ | 1⅞ | 7¾ | 8¼                | 1⅞  | 8¼          | 6⅜  | 2  | 8⅞           | 5⅞ | 3⅝ |
| R184T          | 4⅞ | 6⅜  | 4⅞  | 1⅞  | 6⅜                     | 8¼ | 1⅞ | 6⅜ | 5⅞ | 1⅞ | —  | —                 | —   | —           | —   | —  | —            | —  | —  |
| K213T          | 5⅞ | —   | —   | —   | 6⅜                     | 9⅞ | ●  | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 5⅞                | 10⅞ | 1⅞          | 10⅞ | 7⅞ | 2            | —  | —  |
| M215T          | 5⅞ | —   | —   | —   | 6⅜                     | 9⅞ | ●  | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 6⅜                | 10⅞ | 1⅞          | 10⅞ | 7⅞ | 2            | —  | —  |

NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENY & TEFC (not explosion proof) single phase only. ØConduit box is optional on fractional HP explosion proof motors. (140T frame only)

• TEFC only — 10 3/8

GEARHEAD & MOTOR "T" DIMENSIONS IN INCHES

| FRAME           | ORIPPROOF, TENY & TEFC |          |        |         |          |          |          |        |        |        |
|-----------------|------------------------|----------|--------|---------|----------|----------|----------|--------|--------|--------|
|                 | K143T                  | M145T    | P143T  | R145T   | K182T    | M184T    | P182T    | R184T  | K213T  | M215T  |
| 175             | 7 3/8                  | 7 3/8    | 8 1/8  | 8 3/8   | —        | —        | —        | —      | —      | —      |
| 216             | 7 11/16                | 8 3/8    | 8 1/8  | 8 11/16 | 8 1/2    | 9        | 9 1/8    | 10 3/8 | —      | —      |
| 268             | 8 3/8                  | 8 3/8    | 9 1/8  | 9 3/8   | 9 1/8    | 9 5/8    | 10 3/8   | 10 3/4 | —      | —      |
| 300             | 9 3/8                  | 9 11/16  | 9 3/8  | 10 3/8  | 9 3/8    | 10 1/4   | 10 11/16 | 11 3/8 | 10 1/8 | 10 3/8 |
| 350             | 9 3/8                  | 10 1/8   | 10 3/8 | 10 3/4  | 10 3/4   | 10 3/4   | 11 3/8   | 11 3/4 | 10 3/8 | 11 3/8 |
| 400             | 10                     | 10 1/2   | 10 3/4 | 11      | 10 3/4   | 10 3/4   | 11 1/2   | 12 3/4 | 10 3/8 | 11 1/8 |
| EXPLOSION PROOF |                        |          |        |         |          |          |          |        |        |        |
| 175             | 11 3/8                 | 11 3/8   | 12 1/4 | 12 1/2  | —        | —        | —        | —      | —      | —      |
| 216             | 11 11/16               | 12 3/8   | 12 3/4 | 13      | 13 3/4   | 14 1/2   | 15       | —      | —      | —      |
| 268             | 12 3/8                 | 12 11/16 | 13 3/8 | 13 3/8  | 14 3/8   | 15 1/8   | 15 5/8   | —      | —      | —      |
| 300             | 13 1/4                 | 13 3/8   | 14 3/8 | 14 3/4  | 15 1/4   | 16       | 16 1/2   | —      | 17 1/8 | 17 3/8 |
| 350             | 13 11/16               | 14       | 14 3/8 | 14 3/4  | 15 11/16 | 16 3/8   | 16 11/16 | —      | 17 1/2 | 18 1/4 |
| 400             | 14 3/8                 | 14 3/8   | 15     | 15 1/4  | 16 1/8   | 16 11/16 | 17 3/8   | —      | 17 7/8 | 18 5/8 |

NOTES: • Motor & Gearhead are "C" flange construction with flexible coupling. Add "C" to motor & gear frame. Example — K143TC-175-C.

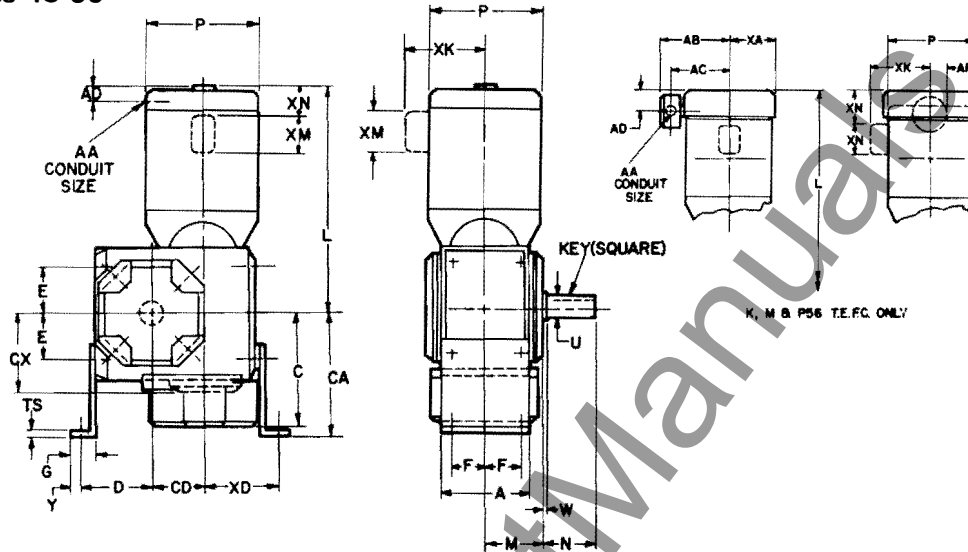
PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Single Worm, Solid Shaft  
Bracket Mount, Types JB and JBL

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A                             | C                             | D                             | E                             | F                             | G                             | H                             | M                             | N                             | U*    | W                             | Y                             | CA                            | CD                            | CX†                           | TS                            | XD                            | Key                           |
|------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 133JBL     | 2 <sup>7</sup> / <sub>8</sub> | —                             | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>7</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | .750  | 1 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| 175JBL     | 3 <sup>1</sup> / <sub>8</sub> | —                             | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>7</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | .750  | 1 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| 216JBL     | 4                             | —                             | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1.000 | 1 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| 268JB      | 4 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>7</sup> / <sub>8</sub> | 1 <sup>5</sup> / <sub>8</sub> | 2                             | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1.250 | 1 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | —                             | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| 300JB      | 5 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 2 <sup>7</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3                             | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1.500 | 1 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>8</sub> | 3                             | —                             | 3 <sup>1</sup> / <sub>8</sub> | 5                             | 3 <sup>1</sup> / <sub>8</sub> |
| 350JB      | 5 <sup>1</sup> / <sub>8</sub> | 7                             | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3                             | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1.625 | 1 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub> | —                             | 3 <sup>1</sup> / <sub>8</sub> | 5                             | 3 <sup>1</sup> / <sub>8</sub> |

TOLERANCES FOR TABLE ABOVE: \* -.0000, -.0005

NOTES FOR TABLE ABOVE: †Gearhead not fan cooled

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | DRIIPROOF AND TENV            |                               |                               |                               |                               |                               | TEFC                          |                               |                               |                               |                               |                               |                               |
|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|             | P                             | XK†                           | XM†                           | AA                            | AD                            | XN†                           | AA                            | AB                            | AC                            | AD                            | AF                            | XA                            | XN†                           |
| H48         | 5 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| Ø48         | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| D48         | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| B56         | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2                             | 1 <sup>1</sup> / <sub>8</sub> | 2                             | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| 56          | 5 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 2                             | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| K56         | 6 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| M56         | 6 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| P56         | 6 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIIPROOF AND TENV             |                                |                                |                                |                                |                                | TEFC                           |                                |                                |                                |   |
|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---|
|       | H48                            | B48                            | D48                            | B56                            | 56                             | K56                            | M56                            | K56                            | M56                            | P56                            |   |
| 133   | 10 <sup>1</sup> / <sub>8</sub> | —                              | —                              | —                              | —                              | —                              | —                              | —                              | —                              | —                              | — |
| 175   | 10 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | — |
| 216   | —                              | —                              | —                              | —                              | —                              | 12 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>8</sub> | — |
| 268   | —                              | —                              | —                              | —                              | —                              | 12 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 14                             | 15                             | 15 <sup>1</sup> / <sub>2</sub> | — |
| 300   | —                              | —                              | —                              | —                              | —                              | 13 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | — |
| 350   | —                              | —                              | —                              | —                              | —                              | 13 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | — |

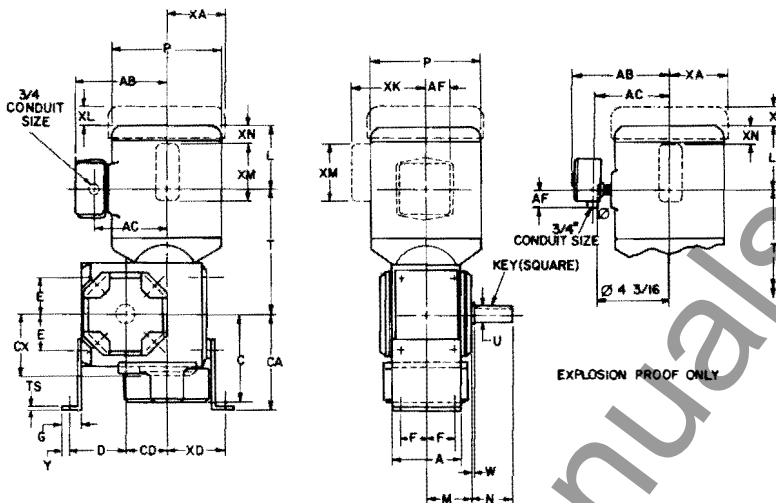
**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             |           | Signed         |    | Date     |  |

# Spiraline® Right Angle Gearmotors Type A

Single Worm, Solid Shaft  
Bracket Mount, Types JB and JBL

## Motor Frames 143T-215T



| GEAR<br>FRAME | GEARHEAD DIMENSIONS IN INCHES  |                               |                                |                                 |                                 |                               |                               |                               |                                 |       |                               |                               |                                |                                |                               |                               |                                |                               |
|---------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|
|               | A                              | C                             | D                              | E                               | F                               | G                             | H                             | M                             | N                               | U*    | W                             | Y                             | CA                             | CD                             | CX†                           | TS                            | XD                             | Key                           |
| 175JBL        | 3 <sup>3</sup> / <sub>16</sub> | —                             | 3 <sup>3</sup> / <sub>16</sub> | 1 <sup>12</sup> / <sub>32</sub> | 1 <sup>11</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>8</sub> | 2 <sup>5</sup> / <sub>8</sub> | 1 <sup>11</sup> / <sub>16</sub> | .750  | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>8</sub>  | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| 216JBL        | 4                              | —                             | 3 <sup>3</sup> / <sub>8</sub>  | 2 <sup>1</sup> / <sub>16</sub>  | 1 <sup>5</sup> / <sub>16</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>16</sub>  | 1.000 | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>32</sub> | 2 <sup>3</sup> / <sub>8</sub>  | 3 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub> |
| 268JB         | 4 <sup>3</sup> / <sub>8</sub>  | 5 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>2</sub>   | 1 <sup>11</sup> / <sub>16</sub> | 3                             | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>5</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub>   | 1.250 | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>32</sub> | 2 <sup>1</sup> / <sub>16</sub> | —                             | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub> |
| 300JB         | 5 <sup>1</sup> / <sub>8</sub>  | 6 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>16</sub> | 2 <sup>3</sup> / <sub>8</sub>   | 2 <sup>1</sup> / <sub>16</sub>  | 3                             | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub>   | 1.500 | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>8</sub>  | 3                              | —                             | 3 <sup>1</sup> / <sub>8</sub> | 5                              | 3 <sup>1</sup> / <sub>8</sub> |
| 350JB         | 5 <sup>1</sup> / <sub>8</sub>  | 7                             | 5 <sup>1</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>8</sub>   | 2 <sup>1</sup> / <sub>16</sub>  | 3                             | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>8</sub>   | 1.625 | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>2</sub>  | —                             | 3 <sup>1</sup> / <sub>8</sub> | 5                              | 3 <sup>1</sup> / <sub>8</sub> |
| 400JB         | 5 <sup>1</sup> / <sub>8</sub>  | 7 <sup>3</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>8</sub>   | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub>   | 1.750 | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>8</sub>  | 4                              | —                             | 1 <sup>1</sup> / <sub>2</sub> | 5                              | 3 <sup>1</sup> / <sub>8</sub> |

TOLERANCES FOR TABLE ABOVE: \* ±.0000, —.0005

NOTES FOR TABLE ABOVE: † Gearhead not fan cooled.

| MOTOR DIMENSIONS IN INCHES |                                |                               |                                |                                |                               |                                |                                |                                |                                |                               |                               |                                |                                |                                |                                |    |                               |                               |                               |              |  |  |
|----------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----|-------------------------------|-------------------------------|-------------------------------|--------------|--|--|
| MOTOR<br>FRAME             | XA                             | XK‡                           | XM‡                            | XN‡                            | DRIPPROOF, TENV & TEFC        |                                |                                |                                |                                |                               |                               |                                |                                |                                | EXPLOSION PROOF ⚡              |    |                               |                               |                               |              |  |  |
|                            |                                |                               |                                |                                | Single & Three Phase          |                                |                                |                                |                                |                               |                               |                                |                                |                                | Three Phase                    |    |                               |                               |                               | Single Phase |  |  |
|                            |                                |                               |                                |                                | L                             | P                              | XL                             | AB                             | AC                             | AF                            | L                             | P                              | XL                             | AB                             | AC                             | AF | AB                            | AC                            | AF                            |              |  |  |
| K143T                      | 3 <sup>3</sup> / <sub>4</sub>  | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 6 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>2</sub>  | 2  | 8                             | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| M145T                      | 3 <sup>3</sup> / <sub>4</sub>  | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 6 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>2</sub>  | 2  | 8                             | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| P143T                      | 3 <sup>3</sup> / <sub>4</sub>  | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 6 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>2</sub>  | 2  | 8                             | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| R145T                      | 3 <sup>3</sup> / <sub>4</sub>  | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 6 <sup>1</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>8</sub> | 6 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>2</sub>  | 2  | 8                             | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| K182T                      | 4 <sup>9</sup> / <sub>16</sub> | 6 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>8</sub> | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 6 <sup>7</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 8 <sup>3</sup> / <sub>4</sub>  | 6 <sup>5</sup> / <sub>8</sub>  | 2  | 8 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| M184T                      | 4 <sup>9</sup> / <sub>16</sub> | 6 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>8</sub> | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 6 <sup>7</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>4</sub> | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 8 <sup>3</sup> / <sub>4</sub>  | 6 <sup>5</sup> / <sub>8</sub>  | 2  | 8 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| P182T                      | 4 <sup>9</sup> / <sub>16</sub> | 6 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 6                             | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 6 <sup>7</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>4</sub> | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 8 <sup>3</sup> / <sub>4</sub>  | 6 <sup>5</sup> / <sub>8</sub>  | 2  | 8 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> |              |  |  |
| R184T                      | 4 <sup>9</sup> / <sub>16</sub> | 6 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>16</sub> | 6 <sup>5</sup> / <sub>8</sub> | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>16</sub> | 6 <sup>7</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>7</sup> / <sub>8</sub> | —                             | —                              | —                              | —                              | —                              | —  | —                             | —                             | —                             |              |  |  |
| K213T                      | 5 <sup>1</sup> / <sub>8</sub>  | —                             | —                              | —                              | 6 <sup>1</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>16</sub> | —                              | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub>  | —                              | 7 <sup>1</sup> / <sub>16</sub> | 2  | —                             | —                             | —                             |              |  |  |
| M215T                      | 5 <sup>1</sup> / <sub>8</sub>  | —                             | —                              | —                              | 6 <sup>7</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>16</sub> | —                              | 7 <sup>1</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub>  | —                              | 7 <sup>1</sup> / <sub>16</sub> | 2  | —                             | —                             | —                             |              |  |  |

NOTES FOR ABOVE TABLE: † Gearmotor for Dripproof, TENV & TEFC (not explosion proof, single phase only)  
‡ Conduit box is optional on fractional HP explosion proof motors (140T frame only)

• TEFC only — 10<sup>1</sup>/<sub>8</sub>

| GEARHEAD & MOTOR "T" DIMENSIONS IN INCHES |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |
|-------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FRAME                                     | DRIPPROOF, TENV & TEFC         |                                |                                |                                |                                |                                |                                |                                |                                |                                |
|                                           | K143T                          | M145T                          | P143T                          | R145T                          | K182T                          | M184T                          | P182T                          | R184T                          | K213T                          | M215T                          |
| 175                                       | 7 <sup>1</sup> / <sub>8</sub>  | 7 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>8</sub>  | —                              | —                              | —                              | —                              | —                              | —                              |
| 216                                       | 7 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>2</sub>  | 9                              | 9 <sup>1</sup> / <sub>8</sub>  | 10 <sup>1</sup> / <sub>8</sub> | —                              | —                              |
| 268                                       | 8 <sup>1</sup> / <sub>8</sub>  | 8 <sup>1</sup> / <sub>8</sub>  | 9 <sup>1</sup> / <sub>8</sub>  | 9 <sup>1</sup> / <sub>8</sub>  | 9 <sup>1</sup> / <sub>8</sub>  | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | —                              | —                              |
| 300                                       | 9 <sup>1</sup> / <sub>8</sub>  | 9 <sup>1</sup> / <sub>8</sub>  | 9 <sup>1</sup> / <sub>8</sub>  | 10 <sup>1</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>8</sub>  | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>7</sup> / <sub>8</sub> |
| 350                                       | 9 <sup>5</sup> / <sub>8</sub>  | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> |
| 400                                       | 10                             | 10 <sup>1</sup> / <sub>2</sub> | 10 <sup>3</sup> / <sub>4</sub> | 11                             | 10 <sup>1</sup> / <sub>2</sub> | 10 <sup>1</sup> / <sub>2</sub> | 11 <sup>1</sup> / <sub>2</sub> | 12 <sup>1</sup> / <sub>8</sub> | 10 <sup>1</sup> / <sub>2</sub> | 11 <sup>1</sup> / <sub>2</sub> |
| ■ EXPLOSION PROOF                         |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |
| 175                                       | 11 <sup>1</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| 216                                       | 11 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 13                             | 13 <sup>1</sup> / <sub>4</sub> | 14 <sup>1</sup> / <sub>2</sub> | 15                             | —                              | —                              | —                              |
| 268                                       | 12 <sup>1</sup> / <sub>8</sub> | 12 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>8</sub> | —                              | —                              | —                              |
| 300                                       | 13 <sup>1</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>8</sub> | 16                             | 16 <sup>1</sup> / <sub>2</sub> | —                              | 17 <sup>1</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> |
| 350                                       | 13 <sup>1</sup> / <sub>8</sub> | 14                             | 14 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>8</sub> | —                              | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>4</sub> |
| 400                                       | 14 <sup>1</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>8</sub> | 15                             | 15 <sup>1</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> | —                              | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>4</sub> |

### NOTES

■ Motor & Gearhead are "C" frame construction with flexible coupling.  
Add "C" to motor & gear frame. Example — K143TC-175-C.

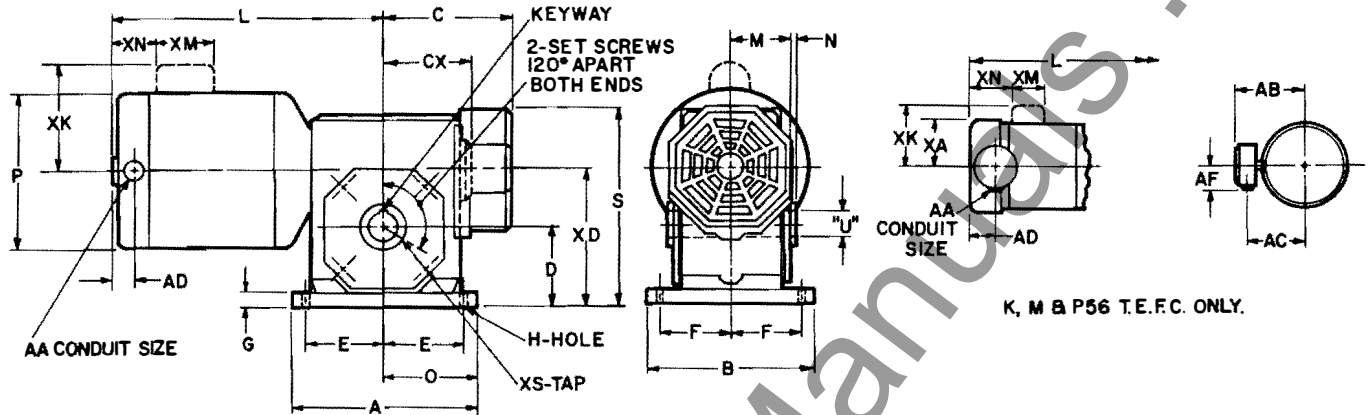
PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Single Worm, Hollow Shaft  
 Adaptable Base, Type AH

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A                | B                | C                | D*              | E               | F               | G              | H              | M               | N             | O               | S                 | U         | CX†             | XD              | XS                |
|------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|---------------|-----------------|-------------------|-----------|-----------------|-----------------|-------------------|
| 175AH      | 6 $\frac{1}{16}$ | 5 $\frac{1}{16}$ | —                | 2 $\frac{7}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | $\frac{3}{8}$  | $\frac{3}{8}$  | 2 $\frac{1}{2}$ | $\frac{3}{8}$ | 3 $\frac{1}{2}$ | 6 $\frac{1}{16}$  | See Table | 2 $\frac{7}{8}$ | 4 $\frac{5}{8}$ | 10-32             |
| 216AH      | 7 $\frac{1}{4}$  | 6 $\frac{3}{8}$  | —                | 3 $\frac{1}{4}$ | 3               | 2 $\frac{1}{2}$ | $\frac{3}{8}$  | $\frac{7}{16}$ | 2 $\frac{1}{4}$ | $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 7 $\frac{1}{16}$  | See Table | 3 $\frac{3}{8}$ | 5 $\frac{1}{8}$ | $\frac{1}{4}$ -20 |
| 268AH      | 8 $\frac{1}{8}$  | 6 $\frac{3}{8}$  | 5 $\frac{1}{4}$  | 3 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | $\frac{1}{16}$ | $\frac{1}{2}$  | 2 $\frac{1}{2}$ | $\frac{3}{8}$ | 4 $\frac{1}{8}$ | 9 $\frac{1}{16}$  | See Table | —               | 6 $\frac{3}{8}$ | $\frac{1}{4}$ -20 |
| 300AH      | 9 $\frac{7}{8}$  | 9                | 6 $\frac{1}{16}$ | 4 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 3 $\frac{3}{4}$ | $\frac{3}{4}$  | $\frac{3}{8}$  | 3 $\frac{3}{8}$ | $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 10 $\frac{1}{16}$ | See Table | —               | 7 $\frac{1}{4}$ | $\frac{3}{8}$ -18 |
| 350AH      | 10 $\frac{1}{4}$ | 9 $\frac{1}{8}$  | 7                | 4 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | $\frac{3}{4}$  | $\frac{3}{8}$  | 3 $\frac{3}{8}$ | $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 11 $\frac{1}{16}$ | See Table | —               | 8 $\frac{1}{4}$ | $\frac{3}{8}$ -18 |

TOLERANCES FOR ABOVE TABLE: \*+0, — $\frac{1}{16}$ 

NOTES FOR ABOVE TABLE: †Gearhead not fan cooled.

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | DRIIPROOF AND TENY |     |     |    |    |     | TEFC |    |    |    |    |    |     |
|-------------|--------------------|-----|-----|----|----|-----|------|----|----|----|----|----|-----|
|             | P                  | XX† | XM† | AA | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48         | 5¼                 | 5⅛  | 4⅞  | ½  | 1⅜ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| B48         | 5⅜                 | 4⅜  | 3⅜  | ½  | 1⅞ | 1⅜  | —    | —  | —  | —  | —  | —  | —   |
| O48         | 5⅜                 | 4⅜  | 3⅜  | ½  | 1⅞ | 1⅜  | —    | —  | —  | —  | —  | —  | —   |
| B56         | 6½                 | 5⅞  | 3⅞  | ½  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| 56          | 6½                 | 5⅞  | 3⅞  | ½  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56         | 6⅞                 | 5¼  | 3⅞  | ½  | ¾  | 1⅞  | ¾    | 5⅞ | 4⅞ | 2⅞ | 1⅞ | 3¾ | 3⅞  |
| M56         | 6⅞                 | 5¼  | 3⅞  | ½  | ¾  | 1⅞  | ¾    | 5⅞ | 4⅞ | 2⅞ | 1⅞ | 3¾ | 3⅞  |
| P56         | 6⅞                 | 5¼  | 3⅞  | ½  | ¾  | 1⅞  | ¾    | 5⅞ | 4⅞ | 2⅞ | 1⅞ | 3¾ | 3⅞  |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only

**GEARHEAD AND MOTOR "U" DIMENSIONS IN INCHES**

| FRAME | DRIIPROOF AND TENY |                  |                  |                  |                  |                  | TEFC             |                  |                  |                  |
|-------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|       | H48                | B48              | O48              | B56              | 56               | K56              | M56              | P56              | K56              | M56              |
| 175   | 10 $\frac{1}{8}$   | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 216   | —                  | —                | —                | —                | —                | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 268   | —                  | —                | —                | —                | —                | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14               | 15               | 15 $\frac{1}{2}$ |
| 300   | —                  | —                | —                | —                | —                | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 14 $\frac{3}{4}$ | 15 $\frac{3}{4}$ | 16 $\frac{1}{4}$ |
| 350   | —                  | —                | —                | —                | —                | 13 $\frac{3}{8}$ | 14 $\frac{3}{8}$ | 15 $\frac{3}{8}$ | 16 $\frac{3}{8}$ | 16 $\frac{1}{2}$ |

| GEAR FRAME | "U" AND KEYWAY DIMENSIONS IN INCHES        |                                            |                                            |                                            |                                           |                                                  |                                                   |
|------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| 175        | .750<br>$\frac{3}{16} \times \frac{3}{32}$ | 1.000<br>$\frac{1}{4} \times \frac{1}{8}$  | —                                          | —                                          | —                                         | —                                                | —                                                 |
| 216        | —                                          | 1.000<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.125<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.188<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.250<br>$\frac{1}{4} \times \frac{1}{8}$ | 1.438<br>$\frac{3}{8} \times \frac{1}{4} \Delta$ | —                                                 |
| 268        | —                                          | 1.000<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.125<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.188<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.250<br>$\frac{1}{4} \times \frac{1}{8}$ | 1.438<br>$\frac{3}{8} \times \frac{1}{4} \Delta$ | —                                                 |
| 300        | 1.250<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.438<br>$\frac{3}{8} \times \frac{3}{16}$ | 1.500<br>$\frac{3}{8} \times \frac{3}{16}$ | 1.688<br>$\frac{3}{8} \times \frac{3}{16}$ | 1.938<br>$\frac{1}{2} \times \frac{1}{4}$ | 2.000<br>$\frac{1}{2} \times \frac{1}{4}$        | 2.188<br>$\frac{1}{2} \times \frac{1}{4} \bullet$ |
| 350        | 1.250<br>$\frac{1}{4} \times \frac{1}{8}$  | 1.438<br>$\frac{3}{8} \times \frac{3}{16}$ | 1.500<br>$\frac{3}{8} \times \frac{3}{16}$ | 1.688<br>$\frac{3}{8} \times \frac{3}{16}$ | 1.938<br>$\frac{1}{2} \times \frac{1}{4}$ | 2.000<br>$\frac{1}{2} \times \frac{1}{4}$        | 2.188<br>$\frac{1}{2} \times \frac{1}{4} \bullet$ |

TOLERANCES FOR TABLE ABOVE: \*+.002, —.000

NOTES FOR TABLE ABOVE:  
 $\Delta$  Key Size  $\frac{3}{8} \times \frac{3}{16}$      $\bullet$  Key Size  $\frac{1}{2} \times \frac{3}{8}$ 
**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

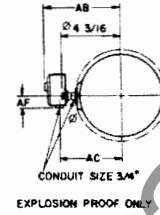
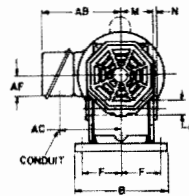
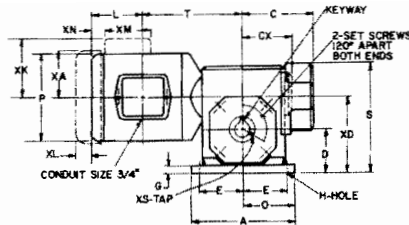
|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             |           | Signed         |    | Date     |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

# Spiraline® Right Angle Gearmotors Type A

Single Worm, Hollow Shaft  
Adaptable Base, Type AH

## Motor Frames 143T-215T



| GEARHEAD DIMENSIONS IN INCHES |        |       |       |       |       |       |       |       |       |     |       |        |           |       |       |        |
|-------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|--------|-----------|-------|-------|--------|
| GEAR FRAME                    | A      | B     | C     | D*    | E     | F     | G     | H     | M     | N   | D     | S      | U         | CX†   | XD    | XS     |
| 175AH                         | 6 1/8  | 5 1/8 | —     | 2 1/8 | 2 1/8 | 2 1/8 | 3/8   | 3/8   | 2 1/2 | 3/8 | 3 1/2 | 6 1/8  | See Table | 2 1/8 | 4 3/8 | 10-32  |
| 216AH                         | 7 1/4  | 6 3/8 | —     | 3 1/4 | 3     | 2 1/8 | 3/8   | 3/8   | 2 1/4 | 3/8 | 3 3/8 | 7 1/8  |           | 3 3/8 | 5 3/8 | 1/4-20 |
| 268AH                         | 8 1/4  | 6 3/8 | 5 1/4 | 3 3/8 | 3 1/8 | 2 1/8 | 1 1/8 | 1 1/2 | 2 1/4 | 3/8 | 4 1/8 | 9 1/8  |           | —     | 6 3/8 | 1/4-20 |
| 300AH                         | 9 1/4  | 9     | 6 3/8 | 4 1/4 | 4 1/8 | 3 3/8 | 3/8   | 3/8   | 3 1/4 | 1/2 | 4 1/8 | 10 1/8 |           | —     | 7 1/4 | 1/4-18 |
| 350AH                         | 10 1/4 | 9 1/4 | 7     | 4 3/4 | 4 1/8 | 3 1/8 | 3/8   | 3/8   | 3 3/8 | 1/2 | 5 1/8 | 11 1/8 |           | —     | 8 1/4 | 1/4-18 |
| 400AH                         | 10 1/4 | 10    | 7 3/8 | 5 1/4 | 4 1/4 | 4     | 1 1/4 | 1 1/8 | 3 3/8 | 3/8 | 5 1/8 | 12 1/8 |           | —     | 9 1/4 | 3/4-16 |

TOLERANCES FOR TABLE ABOVE: \*+0, -1/2

NOTES FOR ABOVE TABLE: †Gearhead not fan cooled.

| MOTOR DIMENSIONS IN INCHES |    |     |     |     |                        |     |    |    |    |    |                   |     |    |             |    |    |              |    |    |
|----------------------------|----|-----|-----|-----|------------------------|-----|----|----|----|----|-------------------|-----|----|-------------|----|----|--------------|----|----|
| MOTOR FRAME                | XA | XK‡ | XM‡ | XN‡ | ORIPPROOF, TENV & TEFC |     |    |    |    |    | EXPLOSION PROOF Ø |     |    |             |    |    |              |    |    |
|                            |    |     |     |     | Single & Three Phase   |     |    |    |    |    |                   |     |    | Three Phase |    |    | Single Phase |    |    |
|                            |    |     |     |     | L                      | P   | XL | AB | AC | AF | L                 | P   | XL | AB          | AC | AF | AB           | AC | AF |
| K143T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6⅞  | 1¼ | 6⅞ | 4⅞ | 1⅞ | 5⅞                | 6⅞  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3¾ |
| M145T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6⅞  | 1¼ | 6⅞ | 4⅞ | 1⅞ | 5⅞                | 6⅞  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3¾ |
| P143T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6⅞  | 1¼ | 6⅞ | 4⅞ | 1⅞ | 6⅞                | 6⅞  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3¾ |
| R145T                      | 3¾ | 5¼  | 3⅜  | 1⅝  | 5⅞                     | 6⅞  | 1¼ | 6⅞ | 4⅞ | 1⅞ | 6⅞                | 6⅞  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3¾ |
| K182T                      | 4⅞ | 6⅞  | 4⅞  | 1⅞  | 4⅞                     | 8⅞  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 6⅞                | 8⅞  | 1⅞ | 8⅞          | 6⅞ | 2  | 8⅞           | 5⅞ | 3¾ |
| M184T                      | 4⅞ | 6⅞  | 4⅞  | 1⅞  | 5⅞                     | 8⅞  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 7⅞                | 8⅞  | 1⅞ | 8⅞          | 6⅞ | 2  | 8⅞           | 5⅞ | 3¾ |
| P182T                      | 4⅞ | 6⅞  | 4⅞  | 1⅞  | 6                      | 8⅞  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 7⅞                | 8⅞  | 1⅞ | 8⅞          | 6⅞ | 2  | 8⅞           | 5⅞ | 3¾ |
| R184T                      | 4⅞ | 6⅞  | 4⅞  | 1⅞  | 6⅞                     | 8⅞  | 1⅞ | 6⅞ | 5⅞ | 1⅞ | —                 | —   | —  | —           | —  | —  | —            | —  | —  |
| K213T                      | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞● | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 5⅞                | 10⅞ | 1⅞ | 10⅞         | 7⅞ | 2  | —            | —  | —  |
| M215T                      | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞● | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 6⅞                | 10⅞ | 1⅞ | 10⅞         | 7⅞ | 2  | —            | —  | —  |

NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENV & TEFC (not explosion proof) single phase only.

●TEFC only — 103%

○Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

| GEARHEAD & MOTOR "T" DIMENSIONS IN INCHES |        |        |        |        |        |        |        |        |        |        | "U" & KEYWAY DIMENSIONS IN INCHES |             |             |             |             |             |   |   |
|-------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|---|---|
| DRIPPROOF, TENV & TEFC                    |        |        |        |        |        |        |        |        |        |        |                                   |             |             |             |             |             |   |   |
| FRAME                                     | K143T  | M145T  | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  | M215T  | 175                               | 216         | 268         | 300         | 350         | 400         |   |   |
| 175                                       | 7 3/8  | 7 3/8  | 8 1/8  | 8 3/8  | —      | —      | —      | —      | —      | —      | 7/8 x 3/32                        | 1.000       | —           | —           | —           | —           | — | — |
| 216                                       | 7 1/4  | 8 3/8  | 8 3/8  | 8 3/8  | 8 1/2  | 9      | 9 3/8  | 10 3/8 | —      | —      | —                                 | 1.000       | 1.125       | 1.188       | 1.250       | 1.438       | — | — |
| 268                                       | 8 3/8  | 8 3/8  | 9 1/8  | 9 3/8  | 9 3/8  | 9 3/8  | 10 1/8 | 10 3/8 | —      | —      | —                                 | 1.000       | 1.125       | 1.188       | 1.250       | 1.438       | — | — |
| 300                                       | 9 3/8  | 9 3/8  | 9 3/8  | 10 3/8 | 9 3/8  | 10 1/8 | 10 3/8 | 11 3/8 | 10 1/8 | 10 3/8 | 1 1/4 x 1/8                       | 1 1/4 x 1/8 | 1 1/4 x 1/8 | 1 1/4 x 1/8 | 1 1/4 x 1/8 | 1 1/4 x 1/8 | — | — |
| 350                                       | 9 3/8  | 10 1/4 | 10 3/8 | 10 3/8 | 10 3/8 | 10 3/8 | 11 1/4 | 11 3/4 | 10 3/8 | 11 3/8 | —                                 | —           | —           | —           | —           | —           | — | — |
| 400                                       | 10     | 10 1/2 | 10 3/8 | 11     | 10 3/8 | 10 3/8 | 11 1/2 | 12 1/8 | 10 3/8 | 11 3/8 | —                                 | —           | —           | —           | —           | —           | — | — |
| EXPLOSION PROOF                           |        |        |        |        |        |        |        |        |        |        |                                   |             |             |             |             |             |   |   |
| 175                                       | 11 3/8 | 11 3/8 | 12 1/4 | 12 1/2 | —      | —      | —      | —      | —      | —      | —                                 | —           | —           | —           | —           | —           | — | — |
| 216                                       | 11 3/8 | 12 1/4 | 12 3/8 | 13     | 13 3/8 | 14 1/2 | 15     | —      | —      | —      | —                                 | —           | —           | —           | —           | —           | — | — |
| 268                                       | 12 3/8 | 12 3/8 | 13 3/8 | 13 3/8 | 14 3/8 | 15 3/8 | 15 3/8 | —      | —      | —      | —                                 | —           | —           | —           | —           | —           | — | — |
| 300                                       | 13 3/8 | 13 3/8 | 14 3/8 | 14 3/8 | 15 3/8 | 16     | 16 1/2 | —      | 17 3/8 | 17 3/8 | —                                 | —           | —           | —           | —           | —           | — | — |
| 350                                       | 13 3/8 | 14     | 14 3/8 | 14 3/8 | 15 3/8 | 16 3/8 | 16 3/8 | —      | 17 3/8 | 18 1/4 | —                                 | —           | —           | —           | —           | —           | — | — |
| 400                                       | 14 3/8 | 14 3/8 | 15     | 15 1/4 | 16 3/8 | 16 3/8 | 17 3/8 | —      | 17 3/8 | 18 3/4 | —                                 | —           | —           | —           | —           | —           | — | — |

NOTES FOR ABOVE TABLE:  
■ Motor & Gearhead are "C" flange construction with flexible coupling.  
Add "C" to motor & gear frame. Example — K143TC-175-C.

NOTES FOR TABLE ABOVE:

△Key Size 3/8 x 3/8

●Key Size 1/2 x 3/8

①Key Size 3/4 x 3/4

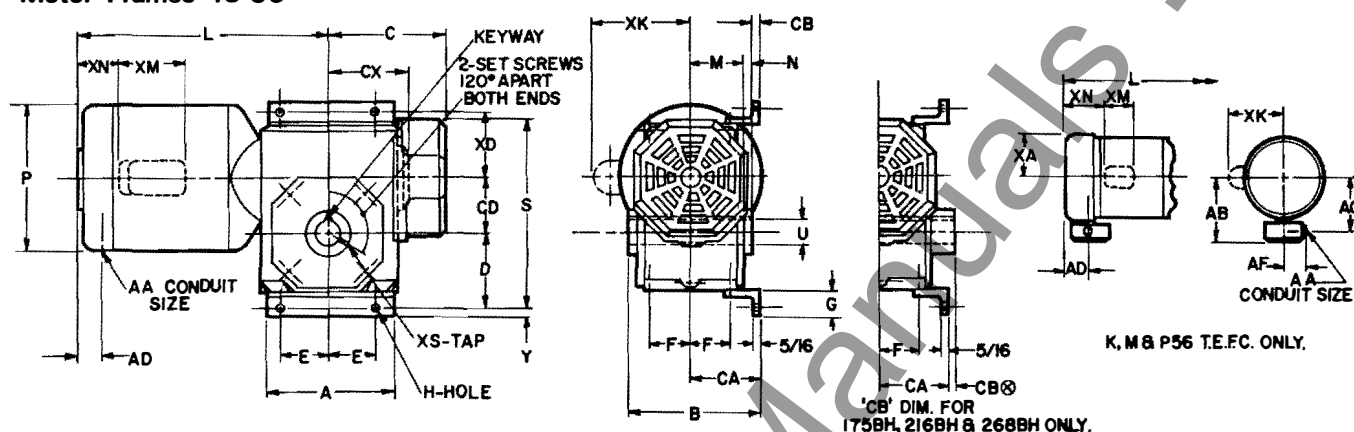
PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            | Signed      |           |                |    | Date  |  |

Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Single Worm, Hollow Shaft  
 Angle Brackets, Type BH

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A               | B               | C               | D               | E               | F               | G               | H               | M               | N               | S                | U         | Y               | CA              | CB              | CD              | CX†             | XD              | XS                  |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|
| 175BH      | 4 $\frac{1}{4}$ | 4 $\frac{5}{8}$ | —               | 3 $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$  | See Table | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 10-32               |
| 216BH      | 4 $\frac{1}{4}$ | 5 $\frac{1}{8}$ | —               | 3 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 8 $\frac{1}{8}$  |           | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{4}$ -20 |
| 268BH      | 5 $\frac{1}{4}$ | 5 $\frac{1}{8}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2               | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 9 $\frac{1}{8}$  |           | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | —               | 3 $\frac{1}{4}$ | 1 $\frac{1}{4}$ -20 |
| 300BH      | 6 $\frac{1}{4}$ | 7 $\frac{1}{8}$ | 6 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{2}$ | 2               | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 10 $\frac{1}{8}$ |           | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | 3               | —               | 4 $\frac{1}{4}$ | 3 $\frac{1}{4}$ -18 |
| 350BH      | 7 $\frac{1}{4}$ | 7 $\frac{1}{8}$ | 7               | 5 $\frac{1}{4}$ | 3 $\frac{3}{8}$ | 2 $\frac{1}{2}$ | 2               | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 11 $\frac{1}{8}$ |           | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | —               | 4 $\frac{1}{4}$ | 3 $\frac{1}{4}$ -18 |

NOTES FOR ABOVE TABLE: †Gearhead not fan cooled. ●See drawing.

**MOTOR DIMENSIONS IN INCHES**

| MOTOR<br>FRAME |    |     |     | DRIppROOF AND TENV |    |     | TEFC |    |    |    |    |    |     |
|----------------|----|-----|-----|--------------------|----|-----|------|----|----|----|----|----|-----|
|                | P  | XK† | XM† | AA                 | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48            | 5¼ | 5⅛  | 4⅞  | ½                  | 1⅞ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| B48            | 5⅛ | 4⅞  | 3⅞  | ½                  | 1⅞ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| D48            | 5⅛ | 4⅞  | 3⅞  | ½                  | 1⅞ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| B56            | 6½ | 5⅝  | 3⅞  | ½                  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| 56             | 6½ | 5⅝  | 3⅞  | ½                  | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56            | 6⅝ | 5¼  | 3⅞  | ½                  | ¾  | 1⅞  | ¾    | 5⅞ | 4⅞ | 2⅞ | 1⅞ | 3¼ | 3⅞  |
| M56            | 6⅝ | 5¼  | 3⅞  | ½                  | ¾  | 1⅞  | ¾    | 5⅞ | 4⅞ | 2⅞ | 1⅞ | 3¼ | 3⅞  |
| P56            | 6⅝ | 5¼  | 3⅞  | ½                  | ¾  | 1⅞  | ¾    | 5⅞ | 4⅞ | 2⅞ | 1⅞ | 3¼ | 3⅞  |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIPPROOF AND TENV |                  |                  |                  |                  | TEFC              |                   |                  |                  |                  |
|-------|--------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|
|       | H48                | B48              | D48              | B56              | 56               | K56               | M56               | K56              | M56              | P56              |
| 175   | 10 $\frac{1}{8}$   | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$  | 12 $\frac{1}{8}$  | 12 $\frac{1}{8}$ | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 216   | —                  | —                | —                | —                | —                | 12 $\frac{1}{8}$  | 13 $\frac{1}{8}$  | 13 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ |
| 268   | —                  | —                | —                | —                | —                | 12 $\frac{1}{16}$ | 13 $\frac{1}{16}$ | 14               | 15               | 15 $\frac{1}{2}$ |
| 300   | —                  | —                | —                | —                | —                | 13 $\frac{1}{2}$  | 14 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ |
| 350   | —                  | —                | —                | —                | —                | 13 $\frac{3}{8}$  | 14 $\frac{3}{8}$  | 15 $\frac{3}{8}$ | 16 $\frac{3}{8}$ | 16 $\frac{3}{8}$ |

| GEAR FRAME | **"U" AND KEYWAY DIMENSIONS IN INCHES |                  |                  |                  |                  |                  |                  |   |
|------------|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|
| 175        | .750<br>3/8x3/32                      | 1.000<br>1/4x1/8 | —                | —                | —                | —                | —                | — |
| 216        | —                                     | 1.000<br>1/4x1/8 | 1.125<br>1/4x1/8 | 1.188<br>1/4x1/8 | 1.250<br>1/4x1/8 | 1.438<br>3/8x1/4 | —                | — |
| 268        | —                                     | 1.000<br>1/4x1/8 | 1.125<br>1/4x1/8 | 1.188<br>1/4x1/8 | 1.250<br>1/4x1/8 | 1.438<br>3/8x1/4 | —                | — |
| 300        | 1.250<br>1/4x1/8                      | 1.438<br>3/8x3/8 | 1.500<br>3/8x3/8 | 1.688<br>3/8x3/8 | 1.938<br>1/2x1/4 | 2.000<br>1/2x1/4 | 2.188<br>1/2x1/4 | — |
| 350        | 1.250<br>1/4x1/8                      | 1.438<br>3/8x3/8 | 1.500<br>3/8x3/8 | 1.688<br>3/8x3/8 | 1.938<br>1/2x1/4 | 2.000<br>1/2x1/4 | 2.188<br>1/2x1/4 | — |

 TOLERANCES FOR TABLE ABOVE:  
 \*+.002, —.000

 NOTES FOR TABLE ABOVE:  
 ΔKey Size 3/8x3/8 ●Key Size 1/4x3/8

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

 November, 1970  
 New Information  
 E. D/1781, 1782/DS; D/24 31

**Westinghouse Electric Corporation**  
Medium Ac Motor and Gearing Division, Buffalo, N. Y. 14240  
Printed in USA

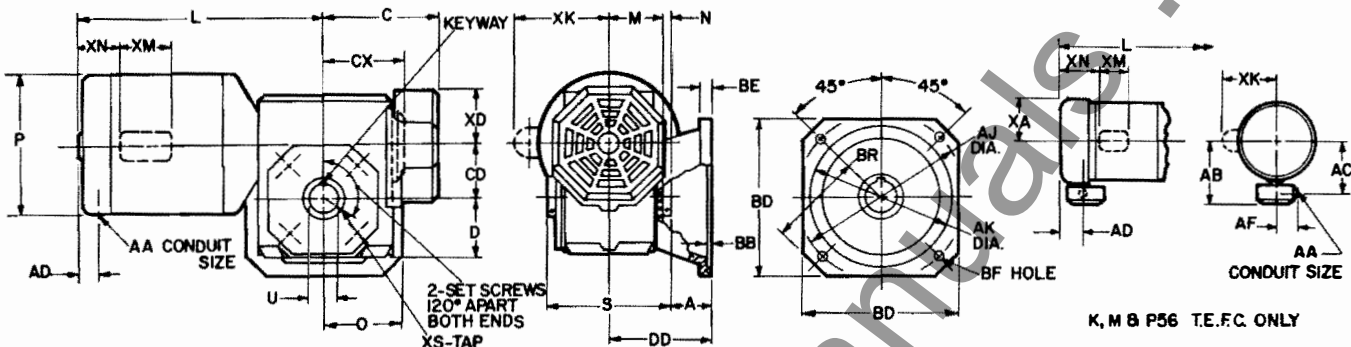
Westinghouse



## Spiraline® Right Angle Gearmotors Type A

Single Worm, Hollow Shaft  
Ring Base, Type RH

## Motor Frames 48-56



GEARHEAD DIMENSIONS IN INCHES

| GEAR FRAME | C     | O     | M     | N   | D     | S     | U         | AH    | AJ     | AK*   | BB  | BD     | BE    | BF  | BR    | CD    | CX†   | OD    | XD    | XS     |
|------------|-------|-------|-------|-----|-------|-------|-----------|-------|--------|-------|-----|--------|-------|-----|-------|-------|-------|-------|-------|--------|
| 175RH      | —     | 2 3/8 | 2 1/2 | 3/8 | 2     | 4 1/8 | See Chart | 1 3/8 | 3 3/8  | —     | —   | 4      | 3/8   | 3/8 | 2 1/4 | 1 1/4 | 2 7/8 | 3 1/2 | 1 1/8 | 10-32  |
| 216RH      | —     | 2 3/8 | 2 1/2 | 3/8 | 3 1/4 | 5 1/4 |           | 1 3/8 | 6 7/8  | 6.000 | 3/8 | 6 1/2  | 1/2   | 3/8 | 3 3/8 | 2 3/2 | 3 3/8 | 4 1/4 | 2 3/8 | 1/4-20 |
| 268RH      | 5 1/4 | 3 3/4 | 2 1/2 | 3/8 | 3 1/2 | 5 3/4 |           | 1 1/8 | 7 3/8  | 6.500 | 3/8 | 7      | 3/8   | 1/2 | 4 3/8 | 2 1/4 | —     | 4 3/8 | 2 3/8 | 1/4-20 |
| 300RH      | 6 3/8 | 3 1/2 | 3 3/4 | 1/2 | 4 3/8 | 7 1/8 |           | 2 3/8 | 9 1/8  | 8.250 | 3/8 | 8 3/4  | 3/8   | 3/8 | 5 1/4 | 3     | —     | 5 1/4 | 3 3/8 | 3/8-18 |
| 350RH      | 7     | 4     | 3 3/8 | 1/2 | 5 1/8 | 7 1/8 |           | 2 3/8 | 10 3/8 | 9.750 | 3/8 | 10 1/4 | 1 1/8 | 3/8 | 6     | 3 1/2 | —     | 5 1/8 | 3 3/8 | 3/8-18 |

TOLERANCES FOR TABLE ABOVE:  
\*+.003, —.000NOTES FOR ABOVE TABLE:  
†Gearhead not fan cooled.  
● Flat face ring with slots open to edge of ring.

MOTOR DIMENSIONS IN INCHES

| MOTOR<br>FRAME |    |     |     | ORIPROOF AND TENV |    |     | TEFC |    |    |    |    |    |     |
|----------------|----|-----|-----|-------------------|----|-----|------|----|----|----|----|----|-----|
|                | P  | XK† | XM† | AA                | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48            | 5¼ | 5⅝  | 4⅞  | ½                 | 1⅞ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| B48            | 5⅞ | 4⅞  | 3⅞  | ½                 | 1⅞ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| D48            | 5⅞ | 4⅞  | 3⅞  | ½                 | 1⅞ | 1⅞  | —    | —  | —  | —  | —  | —  | —   |
| B56            | 6½ | 5⅝  | 3⅞  | ½                 | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| 56             | 6½ | 5⅝  | 3⅞  | ½                 | 1⅞ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56            | 6⅝ | 5¼  | 3⅞  | ½                 | ¾  | 1⅞  | ¾    | 5⅝ | 4⅞ | 2⅞ | 1⅞ | 3¾ | 3⅞  |
| M56            | 6⅝ | 5¼  | 3⅞  | ½                 | ¾  | 1⅞  | ¾    | 5⅝ | 4⅞ | 2⅞ | 1⅞ | 3¾ | 3⅞  |
| P56            | 6⅝ | 5¼  | 3⅞  | ½                 | ¾  | 1⅞  | ¾    | 5⅝ | 4⅞ | 2⅞ | 1⅞ | 3¾ | 3⅞  |

NOTES FOR ABOVE TABLE:  
†Capacitor for single phase only

GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES

| FRAME | DRIIPROOF AND TENV |        |        |        |        |        | TEFC   |        |        |        |
|-------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       | H48                | B48    | D48    | B56    | 56     | K56    | M56    | P56    | K56    | M56    |
| 175   | 10 3/8             | 11 1/8 | 11 3/8 | 12 1/8 | 11 3/8 | 12 3/8 | 12 3/8 | 13 3/8 | 14 3/8 | 14 3/8 |
| 216   | —                  | —      | —      | —      | —      | 12 3/8 | 13 3/8 | 13 3/8 | 14 3/8 | 14 3/8 |
| 268   | —                  | —      | —      | —      | —      | 12 3/8 | 13 3/8 | 14     | 15     | 15 1/2 |
| 300   | —                  | —      | —      | —      | —      | 13 1/2 | 14 1/2 | 14 3/4 | 15 1/2 | 16 1/4 |
| 350   | —                  | —      | —      | —      | —      | 13 3/8 | 14 3/8 | 15 3/8 | 16 3/8 | 16 1/2 |

GEAR FRAME "U" AND KEYWAY DIMENSIONS IN INCHES

| GEAR FRAME | .750       | 1.000     | —         | —         | —         | —           | —     |
|------------|------------|-----------|-----------|-----------|-----------|-------------|-------|
| 175        | 3/8 x 3/32 | 1/4 x 1/8 | —         | —         | —         | —           | —     |
| 216        | —          | 1.000     | 1.125     | 1.188     | 1.250     | 1.438       | —     |
| 268        | —          | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/8 | 3/8 x 1/8 Δ | —     |
| 300        | 1.250      | 1.438     | 1.500     | 1.688     | 1.938     | 2.000       | 2.188 |
| 350        | 1.250      | 1.438     | 1.500     | 1.688     | 1.938     | 2.000       | 2.188 |

TOLERANCES FOR TABLE ABOVE:  
\*+.002, —.000NOTES FOR TABLE ABOVE:  
Δ Key Size 3/8 x 3/8  
● Key Size 1/2 x 3/8PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |              |           |                |    |       |  |
|----------|------------|--------------|-----------|----------------|----|-------|--|
| Customer |            |              |           | Customer Order |    |       |  |
| G.O.     |            | Item No.     |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class / S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |              | Signed    |                |    | Date  |  |

November, 1970  
New Information  
E. D/1781, 1782/DS; D/2431

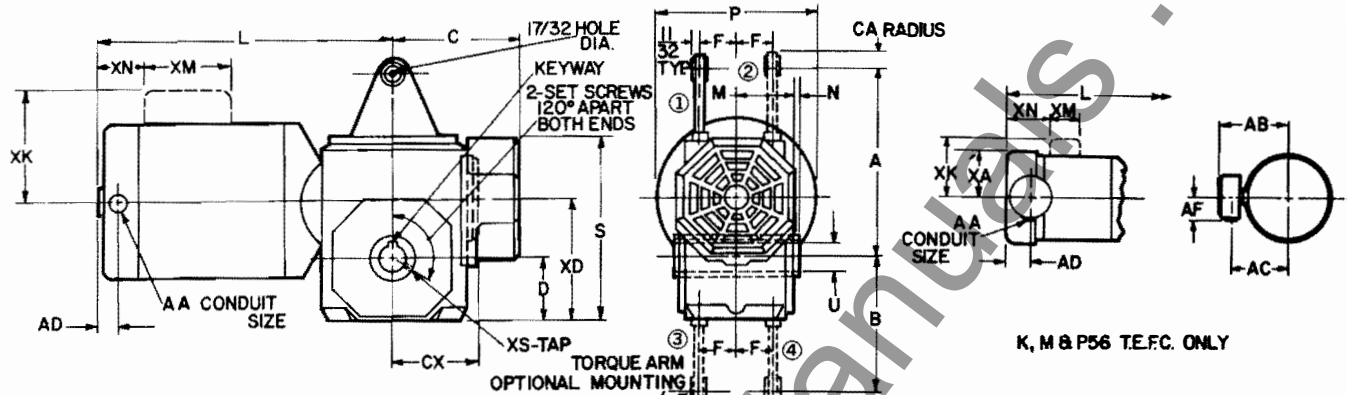




Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Single Worm, Hollow Shaft  
Shaft Mount, Type H

**Motor Frames 48-56**


Optional torque arm mountings shown in phantom lines.

NOTES: 1. Torque arm dimensions are typical for top and bottom mounting. 2. Torque arm will be located in position 1 unless otherwise specified.

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A      | B  | C     | D     | F     | M     | N   | S      | U         | CA    | CX†   | XD    | XS     |
|------------|--------|----|-------|-------|-------|-------|-----|--------|-----------|-------|-------|-------|--------|
| 175H       | 6 1/4  | 5  | —     | 2 3/8 | 1 1/2 | 2 1/2 | 3/8 | 5 7/8  | See Table | 1 1/8 | 2 7/8 | 4 1/8 | 10-32  |
| 216H       | 7 1/2  | 6  | —     | 2 3/8 | 1 3/4 | 2 1/4 | 3/8 | 7 1/2  |           | 3/4   | 3 3/8 | 4 3/8 | 1/4-20 |
| 268H       | 8 7/8  | 7  | 5 1/4 | 3 1/4 | 1 1/8 | 2 1/2 | 3/8 | 8 3/4  |           | 3/4   | —     | 5 1/8 | 1/4-20 |
| 300H       | 10 1/2 | 8  | 6 3/8 | 3 1/2 | 2 1/8 | 3 1/8 | 1/2 | 9 1/8  |           | 1 1/8 | —     | 6 1/2 | 3/8-18 |
| 350H       | 12 1/2 | 10 | 7     | 4     | 2 1/8 | 3 3/8 | 1/2 | 10 1/8 |           | 7/8   | —     | 7 1/2 | 3/8-18 |

NOTES FOR TABLE ABOVE: †Gearhead not fan cooled.

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | DRIppROOF AND TENV |       |       |     |       |       | TEFC |       |       |       |       |       |       |
|-------------|--------------------|-------|-------|-----|-------|-------|------|-------|-------|-------|-------|-------|-------|
|             | P                  | XK†   | XM†   | AA  | AD    | XN†   | AA   | AB    | AC    | AD    | AF    | XA    | XN†   |
| H48         | 5 1/4              | 5 1/8 | 4 1/8 | 1/2 | 1 1/8 | 1 1/8 | —    | —     | —     | —     | —     | —     | —     |
| B48         | 5 1/8              | 4 3/8 | 3 3/8 | 1/2 | 1 1/8 | 1 3/8 | —    | —     | —     | —     | —     | —     | —     |
| D48         | 5 1/8              | 4 3/8 | 3 3/8 | 1/2 | 1 1/8 | 1 3/8 | —    | —     | —     | —     | —     | —     | —     |
| B56         | 6 1/2              | 5 3/8 | 3 3/8 | 1/2 | 1 1/8 | 2     | —    | —     | —     | —     | —     | —     | —     |
| 56          | 6 1/2              | 5 3/8 | 3 3/8 | 1/2 | 1 1/8 | 2     | —    | —     | —     | —     | —     | —     | —     |
| K56         | 6 3/8              | 5 1/4 | 3 3/8 | 1/2 | 3/4   | 1 1/8 | 3/4  | 5 3/8 | 4 3/8 | 2 1/8 | 1 3/8 | 3 3/4 | 3 3/8 |
| M56         | 6 3/8              | 5 1/4 | 3 3/8 | 1/2 | 3/4   | 1 1/8 | 3/4  | 5 3/8 | 4 3/8 | 2 1/8 | 1 3/8 | 3 3/4 | 3 3/8 |
| P56         | 6 3/8              | 5 1/4 | 3 3/8 | 1/2 | 3/4   | 1 1/8 | 3/4  | 5 3/8 | 4 3/8 | 2 1/8 | 1 3/8 | 3 3/4 | 3 3/8 |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME | DRIppROOF AND TENV |        |        |        |        |        |        | TEFC   |        |        |  |
|-------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|       | H48                | B48    | D48    | B56    | 56     | K56    | M56    | K56    | M56    | P56    |  |
| 175   | 10 7/8             | 11 1/8 | 11 1/8 | 12 1/4 | 11 3/8 | 11 3/8 | 12 3/8 | 12 3/8 | 13 1/8 | 14 1/8 |  |
| 216   | —                  | —      | —      | —      | —      | 12 3/8 | 13 3/8 | 13 3/8 | 14 3/8 | 14 3/8 |  |
| 268   | —                  | —      | —      | —      | —      | 12 3/8 | 13 3/8 | 14     | 15     | 15 1/2 |  |
| 300   | —                  | —      | —      | —      | —      | 13 1/2 | 14 1/2 | 14 3/4 | 15 3/4 | 16 1/4 |  |
| 350   | —                  | —      | —      | —      | —      | 13 3/8 | 14 3/8 | 15 3/8 | 16 3/8 | 16 1/8 |  |

**"U" AND KEYWAY DIMENSIONS IN INCHES**

| GEAR FRAME | .750      | 1.000     | —         | —         | —         | —           | —           |
|------------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|
| 175        | 3/8 x 3/8 | 1/4 x 1/4 | —         | —         | —         | —           | —           |
| 216        | —         | 1.000     | 1.125     | 1.188     | 1.250     | 1.438       | —           |
|            | —         | 1/4 x 1/4 | 1/4 x 1/4 | 1/4 x 1/4 | 1/4 x 1/4 | 3/8 x 1/2 Δ | —           |
| 268        | —         | 1.000     | 1.125     | 1.188     | 1.250     | 1.438       | —           |
|            | —         | 1/4 x 1/4 | 1/4 x 1/4 | 1/4 x 1/4 | 1/4 x 1/4 | 3/8 x 1/2 Δ | —           |
| 300        | 1.250     | 1.438     | 1.500     | 1.688     | 1.938     | 2.000       | 2.188       |
|            | 1/4 x 1/4 | 3/8 x 3/8 | 3/8 x 3/8 | 3/8 x 3/8 | 1/2 x 1/2 | 1/2 x 1/2   | 1/2 x 1/2 ● |
| 350        | 1.250     | 1.438     | 1.500     | 1.688     | 1.938     | 2.000       | 2.188       |
|            | 1/4 x 1/4 | 3/8 x 3/8 | 3/8 x 3/8 | 3/8 x 3/8 | 1/2 x 1/4 | 1/2 x 1/4   | 1/2 x 1/4 ● |

 TOLERANCES FOR TABLE ABOVE:  
 \*.002, —.000

 NOTES FOR TABLE ABOVE:  
 ΔKey Size 3/8 x 1/2 ●Key Size 1/2 x 3/4

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

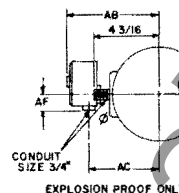
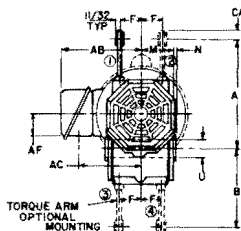
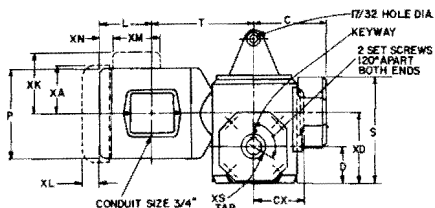
|          |            |              |           |                |    |          |  |
|----------|------------|--------------|-----------|----------------|----|----------|--|
| Customer |            |              |           | Customer Order |    |          |  |
| G.O.     |            |              |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class / S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |              |           | Signed         |    | Date     |  |

 November, 1970  
 New Information  
 E. D/1781, 1782/DS; D/2431

# Spiraline® Right Angle Gearmotors Type A

Single Worm, Hollow Shaft  
Shaft Mount, Type H

## Motor Frames 143T-215T



GEARHEAD DIMENSIONS IN INCHES

| GEAR FRAME | A      | B  | C     | D     | F       | M     | N   | S      | U         | CA    | CK†   | XD    | XS     |
|------------|--------|----|-------|-------|---------|-------|-----|--------|-----------|-------|-------|-------|--------|
| 175H       | 6 1/4  | 5  | —     | 2 5/8 | 1 15/32 | 2 1/2 | 5/8 | 5 1/8  | See Table | 1 1/8 | 2 7/8 | 4 1/8 | 10-32  |
| 216H       | 7 1/2  | 6  | —     | 2 5/8 | 1 3/8   | 2 1/4 | 3/4 | 7 1/2  |           | 3/4   | 3 3/8 | 4 3/8 | 1/4-20 |
| 268H       | 8 1/2  | 7  | 5 1/4 | 3 1/4 | 1 11/16 | 2 1/2 | 3/4 | 8 3/4  |           | 3/4   | —     | 5 1/8 | 1/4-20 |
| 300H       | 10 1/2 | 8  | 6 1/8 | 3 1/2 | 2 1/8   | 3 1/8 | 1/2 | 9 1/8  |           | 1 1/8 | —     | 6 1/2 | 5/8-18 |
| 350H       | 12 1/2 | 10 | 7     | 4     | 2 1/4   | 3 1/8 | 1/2 | 10 1/8 |           | 7/8   | —     | 7 1/2 | 5/8-18 |
| 400H       | 14 1/2 | 12 | 7 3/8 | 4 1/2 | 1 3/8   | 3 3/8 | 3/8 | 11 1/8 |           | 7/8   | —     | 8 1/2 | 3/4-16 |

NOTES FOR TABLE ABOVE: †Gearhead not fan cooled.

MOTOR DIMENSIONS IN INCHES

| MOTOR FRAME | XA | XK‡ | XM‡ | XN‡ | DRIPPROOF, TENV & TEFC |    |    |    |    |    | EXPLOSION PROOF Ø |     |    |             |    |    |              |    |    |
|-------------|----|-----|-----|-----|------------------------|----|----|----|----|----|-------------------|-----|----|-------------|----|----|--------------|----|----|
|             |    |     |     |     | Single & Three Phase   |    |    |    |    |    |                   |     |    | Three Phase |    |    | Single Phase |    |    |
|             |    |     |     |     | L                      | P  | XL | AB | AC | AF |                   |     |    | L           | P  | XL | AB           | AC | AF |
| K143T       | 3¼ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6⅝ | 1¼ | 6⅞ | 4⅞ | 1⅞ | 5⅞                | 6⅝  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3⅜ |
| M145T       | 3¼ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6⅝ | 1¼ | 6⅞ | 4⅞ | 1⅞ | 5⅞                | 6⅝  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3⅜ |
| P143T       | 3¼ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6⅝ | 1¼ | 6⅞ | 4⅞ | 1⅞ | 6⅞                | 6⅝  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3⅜ |
| R145T       | 3¼ | 5¼  | 3⅜  | 1⅝  | 5⅞                     | 6⅝ | 1¼ | 6⅞ | 4⅞ | 1⅞ | 6⅞                | 6⅝  | 1¼ | 7⅞          | 5½ | 2  | 8            | 5⅞ | 3⅜ |
| K182T       | 4⅞ | 6⅝  | 4⅞  | 1⅞  | 4⅞                     | 8¼ | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 6½                | 8¼  | 1⅞ | 8¼          | 6⅞ | 2  | 8⅞           | 5⅞ | 3⅜ |
| M184T       | 4⅞ | 6⅝  | 4⅞  | 1⅞  | 5⅞                     | 8¼ | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 7¼                | 8¼  | 1⅞ | 8¼          | 6⅞ | 2  | 8⅞           | 5⅞ | 3⅜ |
| P182T       | 4⅞ | 6⅝  | 4⅞  | 1⅞  | 6                      | 8¼ | 1⅞ | 6⅞ | 5⅞ | 1⅞ | 7¾                | 8¼  | 1⅞ | 8¼          | 6⅞ | 2  | 8⅞           | 5⅞ | 3⅜ |
| R184T       | 4⅞ | 6⅝  | 4⅞  | 1⅞  | 6⅝                     | 8¼ | 1⅞ | 6⅞ | 5⅞ | 1⅞ | —                 | 8¼  | 1⅞ | 8¼          | 6⅞ | 2  | 8⅞           | 5⅞ | 3⅜ |
| K213T       | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞ | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 5⅞                | 10⅞ | 1⅞ | 10⅞         | 7⅞ | 2  | —            | —  | —  |
| M215T       | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞ | 1⅞ | 7⅞ | 5⅞ | 1⅞ | 6⅞                | 10⅞ | 1⅞ | 10⅞         | 7⅞ | 2  | —            | —  | —  |

NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENV & TEFC (not explosion proof) single phase only.

ØConduit box is optional on fractional HP explosion proof motors. (140T frame only)

●TEFC only = 10%

GEARHEAD & MOTOR "T" DIMENSIONS IN INCHES

| FRAME | DRIPPROOF, TENV & TEFC |        |        |        |        |        |        |        |        |        |
|-------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       | K143T                  | M145T  | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  | M215T  |
| 175   | 7 3/8                  | 7 3/8  | 8 1/8  | 8 3/8  | —      | —      | —      | —      | —      | —      |
| 216   | 7 3/8                  | 8 1/8  | 8 3/8  | 8 3/8  | 8 1/2  | 9      | 9 3/8  | 10 1/8 | —      | —      |
| 268   | 8 3/8                  | 8 3/8  | 9 1/8  | 9 3/8  | 9 1/8  | 9 1/8  | 10 1/8 | 10 1/4 | —      | —      |
| 300   | 9 3/8                  | 9 1/8  | 9 3/8  | 10 3/8 | 9 3/8  | 10 3/8 | 10 1/8 | 11 3/8 | 10 1/8 | 10 3/8 |
| 350   | 9 3/8                  | 10 1/8 | 10 3/8 | 10 3/8 | 10 3/8 | 10 3/8 | 11 1/8 | 11 3/4 | 10 3/8 | 11 3/8 |
| 400   | 10                     | 10 1/2 | 10 3/4 | 11     | 10 3/8 | 10 3/8 | 11 1/2 | 12 1/8 | 10 3/8 | 12 3/8 |
|       | EXPLOSION PROOF        |        |        |        |        |        |        |        |        |        |
|       | K143T                  | M145T  | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  | M215T  |
| 175   | 11 1/8                 | 11 3/8 | 12 1/4 | 12 1/2 | —      | —      | —      | —      | —      | —      |
| 216   | 11 1/8                 | 12 1/8 | 12 3/4 | 13     | 13 3/4 | 14 1/2 | 15     | —      | —      | —      |
| 268   | 12 3/8                 | 12 1/8 | 13 3/8 | 13 3/8 | 14 3/8 | 15 1/8 | 15 1/8 | —      | —      | —      |
| 300   | 13 3/4                 | 13 3/8 | 14 3/8 | 14 3/8 | 15 1/2 | 16     | 16 1/2 | —      | 17 1/8 | 17 3/8 |
| 350   | 13 3/8                 | 14     | 14 3/8 | 14 3/8 | 15 1/8 | 16 1/8 | 16 1/8 | —      | 17 1/2 | 18 1/4 |
| 400   | 14 3/8                 | 14 3/8 | 15     | 15 1/4 | 16 1/8 | 16 1/8 | 17 3/8 | —      | 17 3/8 | 18 3/8 |

NOTES FOR ABOVE TABLE:

■ Motor & Gearhead are "C" flange construction with flexible coupling.

Add "C" to motor & gear frame. Example — K143TC-175-C.

PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             |           | Signed         |    | Date     |  |

Westinghouse Electric Corporation

Medium Ac Motor and Gearing Division, Buffalo, N. Y. 14240

Printed in USA

| GEAR FRAME | "U" & KEYWAY DIMENSIONS IN INCHES |                    |                    |                    |                    |                      |                      |                      |
|------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|
| 175        | .750<br>3/8 x 3/2                 | 1.000<br>1/4 x 1/8 | —                  | —                  | —                  | —                    | —                    | —                    |
| 216        | —                                 | 1.000<br>1/4 x 1/8 | 1.125<br>1/4 x 1/8 | 1.188<br>1/4 x 1/8 | 1.250<br>1/4 x 1/8 | 1.438<br>3/8 x 1/8 Δ | —                    | —                    |
| 268        | —                                 | 1.000<br>1/4 x 1/8 | 1.125<br>1/4 x 1/8 | 1.188<br>1/4 x 1/8 | 1.250<br>1/4 x 1/8 | 1.438<br>3/8 x 1/8 Δ | —                    | —                    |
| 300        | 1.250<br>1/4 x 1/8                | 1.438<br>3/8 x 3/8 | 1.500<br>3/8 x 3/8 | 1.688<br>3/8 x 3/8 | 1.938<br>1/2 x 1/4 | 2.000<br>1/2 x 1/4   | 2.188<br>1/2 x 1/4 ● | —                    |
| 350        | 1.250<br>1/4 x 1/8                | 1.438<br>3/8 x 3/8 | 1.500<br>3/8 x 3/8 | 1.688<br>3/8 x 3/8 | 1.938<br>1/2 x 1/4 | 2.000<br>1/2 x 1/4   | 2.188<br>1/2 x 1/4 ● | —                    |
| 400        | 1.250<br>1/4 x 1/8                | 1.438<br>3/8 x 3/8 | 1.500<br>3/8 x 3/8 | 1.688<br>3/8 x 3/8 | 1.938<br>1/2 x 1/4 | 2.000<br>1/2 x 1/4   | 2.188<br>1/2 x 1/4   | 2.500<br>3/4 x 1/2 ① |

TOLERANCES FOR TABLE ABOVE:

\*+.002, —.000

NOTES FOR TABLE ABOVE:

ΔKey Size 3/8 x 3/8

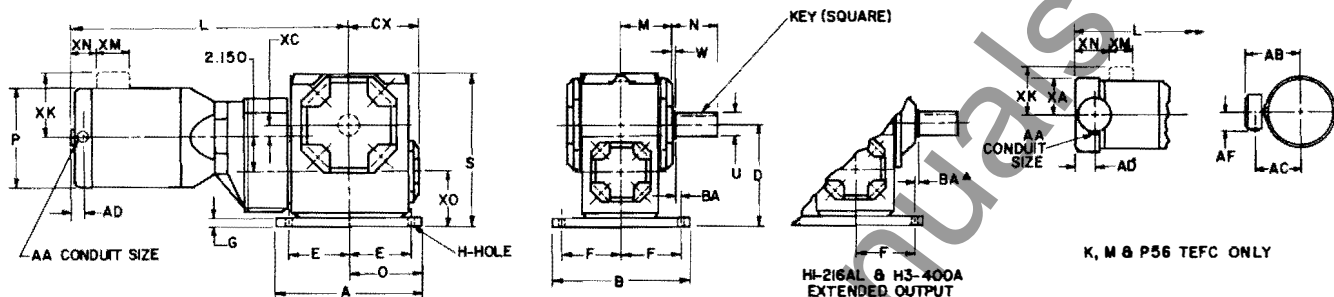
●Key Size 1/2 x 3/8

①Key Size 3/4 x 1/2

Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Helical Worm, Solid Shaft  
 Adaptable Base, Types H-A and H-AL

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A                | B               | D*              | E               | F                | G               | H             | M               | N               | O               | S                | U**   | W             | BA               | CX              | XC               | XO              | Key           |
|------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|---------------|-----------------|-----------------|-----------------|------------------|-------|---------------|------------------|-----------------|------------------|-----------------|---------------|
| H1-216AL   | 7 $\frac{1}{4}$  | 6 $\frac{1}{8}$ | 5 $\frac{1}{2}$ | 3               | 2 $\frac{1}{16}$ | $\frac{3}{4}$   | $\frac{3}{8}$ | 3 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | 7 $\frac{1}{16}$ | 1.000 | $\frac{1}{8}$ | $\frac{1}{16}$ Δ | 3 $\frac{3}{4}$ | 0                | 3               | $\frac{1}{4}$ |
| H1-268A    | 8 $\frac{1}{8}$  | 6 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ | 2 $\frac{1}{16}$ | $\frac{1}{16}$  | $\frac{1}{2}$ | 2 $\frac{5}{8}$ | 2 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | 9 $\frac{1}{8}$  | 1.250 | $\frac{1}{8}$ | 0                | 3 $\frac{3}{4}$ | $\frac{1}{32}$   | 3 $\frac{1}{8}$ | $\frac{1}{4}$ |
| H2-300A    | 9 $\frac{1}{4}$  | 9               | 6 $\frac{3}{4}$ | 4 $\frac{3}{8}$ | 3 $\frac{3}{4}$  | $\frac{3}{4}$   | $\frac{5}{8}$ | 3 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.500 | $\frac{1}{8}$ | $\frac{1}{8}$    | 4 $\frac{3}{8}$ | $\frac{1}{32}$   | 3 $\frac{3}{4}$ | $\frac{3}{8}$ |
| H2-350A    | 10 $\frac{3}{4}$ | 9 $\frac{1}{2}$ | 7 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 3 $\frac{3}{4}$  | $\frac{3}{4}$   | $\frac{5}{8}$ | 3 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 11 $\frac{1}{4}$ | 1.625 | $\frac{1}{8}$ | $\frac{3}{8}$    | 5 $\frac{1}{8}$ | $\frac{1}{32}$   | 3 $\frac{3}{4}$ | $\frac{3}{8}$ |
| H3-400A    | 10 $\frac{3}{4}$ | 10              | 8 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 4                | 1 $\frac{1}{4}$ | $\frac{5}{8}$ | 4 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 12 $\frac{3}{4}$ | 1.750 | $\frac{1}{8}$ | $\frac{1}{32}$ Δ | 5 $\frac{1}{8}$ | 1 $\frac{1}{32}$ | 4 $\frac{1}{4}$ | $\frac{3}{8}$ |

TOLERANCES FOR ABOVE TABLE:

\*+0, - $\frac{1}{32}$ 

\*\*+.0000, -.0005

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XK†             | XM†             | DRIPPROOF & TENV |               |                 |                 | TEFC          |                 |                 |                 |                 |                 |                 |
|-------------|-----------------|-----------------|------------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|             |                 |                 | P                | AA            | AD              | XN†             | AA            | AB              | AC              | AD              | AF              | XA              | XN†             |
| H48         | 5 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 5 $\frac{3}{4}$  | $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| 56          | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| B56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| K56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |
| M56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |
| P56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | —                | —             | —               | —               | $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only.

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME  | DRIPPROOF & TENV |                  |                  |                  |                  | TEFC             |                  |                  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        | H48              | 56               | B56              | K56              | M56              | K56              | M56              | P56              |
| H1-216 | 16 $\frac{3}{8}$ | 16 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | 16 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{4}$ |
| H1-268 | 16 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 18 $\frac{1}{2}$ | 18 $\frac{3}{8}$ | 19 $\frac{1}{8}$ | 20 $\frac{3}{8}$ |
| H2-300 | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 19 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 20 $\frac{3}{8}$ |
| H2-350 | 17 $\frac{3}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 21 $\frac{1}{8}$ |
| H3-400 | 18 $\frac{1}{8}$ | 18 $\frac{3}{8}$ | 19 $\frac{1}{4}$ | 18 $\frac{3}{8}$ | 19 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 21 $\frac{1}{8}$ | 21 $\frac{1}{8}$ |

**PRELIMINARY** ☐ **CERTIFIED** ☐ **PRINT FOR:**

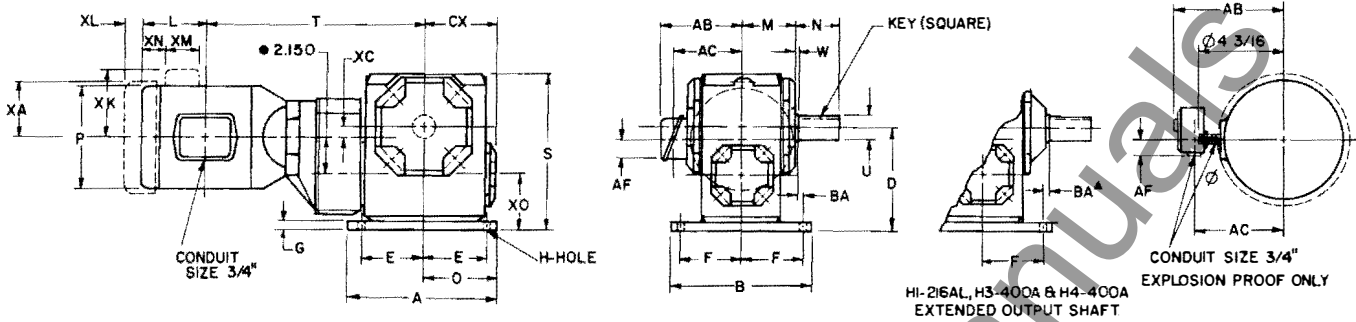
|          |            |             |           |                |          |       |  |
|----------|------------|-------------|-----------|----------------|----------|-------|--|
| Customer |            |             |           | Customer Order |          |       |  |
| G.O.     |            | Item No.    |           |                | Cat. No. |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz       | Volts |  |
| Assembly |            |             | Signed    |                |          | Date  |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/OS; D/2431

**Spiraline® Right Angle Gearmotors Type A**

Helical Worm, Solid Shaft  
Adaptable Base, Types H-A and H-AL

**Motor Frames 143T-215T**



| GEARHEAD DIMENSIONS IN INCHES |        |       |       |        |        |       |      |       |       |       |        |       |      |       |       |         |       |     |
|-------------------------------|--------|-------|-------|--------|--------|-------|------|-------|-------|-------|--------|-------|------|-------|-------|---------|-------|-----|
| GEAR FRAME                    | A      | B     | D*    | E      | F      | G     | H    | M     | N     | O     | S      | U**   | W    | BA    | CX    | XC      | XO    | Key |
| H1-216AL                      | 7 1/4  | 6 3/8 | 5 1/2 | 3      | 2 1/16 | 5/8   | 3/16 | 3 3/8 | 2 1/8 | 3 3/8 | 7 1/8  | 1.000 | 1/16 | 1 1/4 | 3 3/8 | 0       | 3     | 1/4 |
| H1-268A                       | 8 1/8  | 6 3/8 | 5 1/8 | 3 1/8  | 2 1/16 | 1 1/4 | 1/2  | 2 5/8 | 2 1/8 | 4 1/8 | 9 1/8  | 1.250 | 1/16 | 0     | 3 1/8 | 1 1/32  | 3 1/8 | 1/4 |
| H2-300A                       | 9 3/8  | 9     | 6 3/4 | 4 3/8  | 3 3/4  | 3/4   | 5/16 | 3 1/2 | 3 3/8 | 4 1/8 | 10 1/4 | 1.500 | 1/8  | 1/8   | 4 5/8 | 2 7/32  | 3 3/4 | 3/8 |
| H2-350A                       | 10 7/8 | 9 1/8 | 7 1/4 | 4 1/16 | 3 1/8  | 3/4   | 5/16 | 3 1/2 | 3 3/8 | 5 1/8 | 11 1/2 | 1.625 | 1/8  | 3/8   | 5 1/8 | 1 11/32 | 3 3/4 | 3/8 |
| H3-400A                       | 10 7/8 | 10    | 8 1/4 | 4 1/4  | 4      | 1 1/4 | 1/8  | 4 3/8 | 3 3/8 | 5 1/8 | 12 3/4 | 1.750 | 1/8  | 1/2   | 5 1/8 | 1 27/32 | 4 1/4 | 3/8 |
| H4-400A                       | 10 7/8 | 10    | 8 1/4 | 4 1/4  | 4      | 1 1/4 | 1/8  | 4 3/8 | 3 3/8 | 5 1/8 | 12 3/4 | 1.750 | 1/8  | 1/2   | 5 1/8 | 1 1/2   | 4 1/4 | 3/8 |

TOLERANCES FOR ABOVE TABLE: \*+0, -1/32 \*\*+.0000, -.0005

NOTES FOR ABOVE TABLE: • H4-400A only — 2.500

| MOTOR DIMENSIONS IN INCHES |    |     |                  |                  |                        |    |                  |    |    |    |    |                   |                  |                  |             |    |                  |                  |    |  |
|----------------------------|----|-----|------------------|------------------|------------------------|----|------------------|----|----|----|----|-------------------|------------------|------------------|-------------|----|------------------|------------------|----|--|
| MOTOR FRAME                | XA | XK† | XM†              | XN†              | DRIPPROOF, TENV & TEFC |    |                  |    |    |    |    | EXPLOSION PROOF Ø |                  |                  |             |    |                  |                  |    |  |
|                            |    |     |                  |                  | Single & Three Phase   |    |                  |    |    |    |    |                   |                  |                  | Three Phase |    |                  | Single Phase     |    |  |
|                            |    |     |                  |                  | L                      | P  | XL               | AB | AC | AF | L  | P                 | XL               | AB               | AC          | AF | AB               | AC               | AF |  |
| K143T                      | 3¾ | 5¼  | 3⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 4⅜                     | 6⅜ | 1¼               | 6⅛ | 4⅛ | 1⅞ | 5⅜ | 6⅜                | 1¼               | 7⅛ <sub>16</sub> | 5½          | 2  | 8                | 5⅛               | 3⅜ |  |
| M145T                      | 3¾ | 5¼  | 3⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 4⅛ <sub>16</sub>       | 6⅜ | 1¼               | 6⅛ | 4⅛ | 1⅞ | 5⅜ | 6⅜                | 1¼               | 7⅛ <sub>16</sub> | 5½          | 2  | 8                | 5⅛               | 3⅜ |  |
| P143T                      | 3¾ | 5¼  | 3⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 4⅛ <sub>16</sub>       | 6⅜ | 1¼               | 6⅛ | 4⅛ | 1⅞ | 6⅛ | 6⅜                | 1¼               | 7⅛ <sub>16</sub> | 5½          | 2  | 8                | 5⅛               | 3⅜ |  |
| R145T                      | 3¾ | 5¼  | 3⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 5⅛                     | 6⅜ | 1¼               | 6⅛ | 4⅛ | 1⅞ | 6⅛ | 6⅜                | 1¼               | 7⅛ <sub>16</sub> | 5½          | 2  | 8                | 5⅛               | 3⅜ |  |
| K182T                      | 4⅞ | 6⅜  | 4⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 4⅛ <sub>16</sub>       | 8¼ | 1⅛ <sub>16</sub> | 6⅞ | 5⅞ | 1⅞ | 6½ | 8¼                | 1⅛ <sub>16</sub> | 8¾               | 6⅜          | 2  | 8⅛ <sub>16</sub> | 5⅛ <sub>16</sub> | 3¾ |  |
| M184T                      | 4⅞ | 6⅜  | 4⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 5⅛                     | 8¼ | 1⅛ <sub>16</sub> | 6⅞ | 5⅞ | 1⅞ | 7¼ | 8¼                | 1⅛ <sub>16</sub> | 8¾               | 6⅜          | 2  | 8⅛ <sub>16</sub> | 5⅛ <sub>16</sub> | 3¾ |  |
| P182T                      | 4⅞ | 6⅜  | 4⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 6                      | 8¼ | 1⅛ <sub>16</sub> | 6⅞ | 5⅞ | 1⅞ | 7¾ | 8¼                | 1⅛ <sub>16</sub> | 8¾               | 6⅜          | 2  | 8⅛ <sub>16</sub> | 5⅛ <sub>16</sub> | 3¾ |  |
| R184T                      | 4⅞ | 6⅜  | 4⅛ <sub>16</sub> | 1⅛ <sub>16</sub> | 6⅞                     | 8¼ | 1⅛ <sub>16</sub> | 6⅞ | 5⅞ | 1⅞ | —  | —                 | —                | —                | —           | —  | —                | —                | —  |  |
| K213T                      | 5⅞ | —   | —                | —                | 6⅞                     | 9⅞ | 1⅞               | 7⅞ | 5⅞ | 1⅞ | 5⅞ | 10⅞               | 1⅞               | 10⅞              | 7⅞          | 2  | —                | —                | —  |  |
| M215T                      | 5⅞ | —   | —                | —                | 6⅞                     | 9⅞ | 1⅞               | 7⅞ | 5⅞ | 1⅞ | 6⅞ | 10⅞               | 1⅞               | 10⅞              | 7⅞          | 2  | —                | —                | —  |  |

NOTES FOR ABOVE TABLE: †Capacitor for Drupproof, TENV & TEFC (not explosion proof) single phase only.

Ø Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

• TEFC only — 10 3/8

| GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES |        |        |        |        |        |        |        |        |        |        |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DRIPPROOF, TENV AND TEFC                    |        |        |        |        |        |        |        |        |        |        |
| FRAME                                       | K143T  | M145T  | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  | M215T  |
| H1-216                                      | 12 3/8 | 13 1/8 | 13 3/8 | 13 3/8 | —      | —      | —      | —      | —      | —      |
| H1-268                                      | 13 3/8 | 13 1/8 | 13 3/8 | 14 3/8 | —      | —      | —      | —      | —      | —      |
| H2-300                                      | 13 3/4 | 14 1/4 | 14 1/4 | 14 3/4 | —      | —      | —      | —      | —      | —      |
| H2-350                                      | 14 3/8 | 14 1/8 | 14 3/8 | 15 3/8 | —      | —      | —      | —      | —      | —      |
| H3-400                                      | 14 3/8 | 15 1/8 | 15 3/8 | 15 3/8 | —      | —      | —      | —      | —      | —      |
| H4-400                                      | 16 1/4 | 16 3/4 | 17     | 17 1/4 | 16 1/8 | 17 3/8 | 17 3/4 | 18 3/8 | 17 3/8 | 17 3/8 |
| ■ EXPLOSION PROOF                           |        |        |        |        |        |        |        |        |        |        |
| H1-216                                      | 16 3/8 | 16 1/8 | 17 3/8 | 17 3/8 | —      | —      | —      | —      | —      | —      |
| H1-268                                      | 17 3/8 | 17 1/2 | 18 3/8 | 18 3/8 | —      | —      | —      | —      | —      | —      |
| H2-300                                      | 17 3/4 | 18 3/8 | 18 3/8 | 18 3/8 | —      | —      | —      | —      | —      | —      |
| H2-350                                      | 18 3/8 | 18 3/2 | 19 3/8 | 19 3/8 | —      | —      | —      | —      | —      | —      |
| H3-400                                      | 18 3/8 | 18 3/2 | 19 3/8 | 19 3/8 | —      | —      | —      | —      | —      | —      |
| H4-400                                      | 20 3/8 | 20 3/8 | 21 1/4 | 21 1/2 | 22 3/8 | 23 3/8 | 23 3/8 | —      | 24 3/8 | 24 3/8 |

NOTES :

■ Motor and Gearhead are "C" flange construction with flexible coupling.  
Add "C" to motor and gear frame. Example — K143TC-H1C-216.

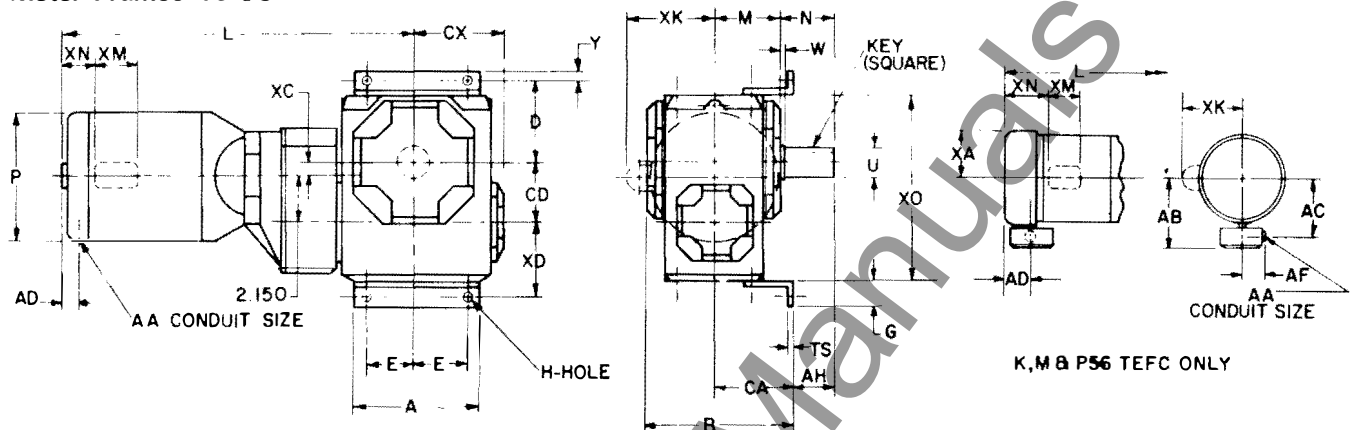
**PRELIMINARY** ☐ **CERTIFIED** ☐ **PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Helical Worm, Solid Shaft  
Angle Brackets, Type H-B

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A               | B               | D               | E               | G               | H              | M               | N               | U*    | W              | Y               | AA              | CA              | CD              | CX              | TS             | XC            | XD              | XO               | Key           |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|---------------|-----------------|------------------|---------------|
| H1-2168    | 4 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{7}{16}$ | 2 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 1.000 | $\frac{1}{16}$ | $\frac{1}{2}$   | 1 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{5}{16}$ | 0             | 3 $\frac{1}{8}$ | 7 $\frac{1}{2}$  | $\frac{1}{4}$ |
| H1-2688    | 5 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2               | $\frac{1}{2}$  | 2 $\frac{3}{8}$ | 2 $\frac{1}{8}$ | 1.250 | $\frac{1}{16}$ | $\frac{3}{4}$   | 2 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{5}{16}$ | $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 8 $\frac{1}{2}$  | $\frac{1}{4}$ |
| H2-300B    | 6 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 2               | $\frac{3}{8}$  | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 1.500 | $\frac{1}{16}$ | $\frac{3}{4}$   | 2 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3               | 4 $\frac{1}{8}$ | $\frac{5}{16}$ | $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 9 $\frac{1}{2}$  | $\frac{3}{8}$ |
| H2-350B    | 7 $\frac{3}{8}$ | 7 $\frac{3}{8}$ | 5 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 2               | $\frac{3}{8}$  | 3 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 1.625 | $\frac{1}{16}$ | $\frac{3}{4}$   | 3 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | $\frac{5}{16}$ | $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 10 $\frac{1}{2}$ | $\frac{3}{8}$ |
| H3-400B    | 8 $\frac{1}{8}$ | 8 $\frac{1}{8}$ | 6               | 3 $\frac{1}{2}$ | 3               | $\frac{1}{2}$  | 4 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 1.750 | $\frac{1}{16}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | 4               | 5 $\frac{1}{8}$ | $\frac{1}{2}$  | $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | $\frac{3}{8}$ |

TOLERANCES FOR TABLE ABOVE:

\* ± .0000, ---.0005

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XK†             | XM†             | DRIIPROOF & TENV |               |                 |                 | TEFC          |                 |                 |                 |                 |                 |                 |
|-------------|-----------------|-----------------|------------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|             |                 |                 | P                | AA            | AD              | XN†             | AA            | AB              | AC              | AD              | AF              | XA              | XN†             |
| H48         | 5 $\frac{1}{8}$ | 4 $\frac{7}{8}$ | 5 $\frac{3}{4}$  | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 1 $\frac{7}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| S6          | 5 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| B56         | 5 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| K56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |
| M56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |
| P56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | —                | —             | —               | —               | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{8}$ |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only.

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME  | DRIIPROOF & TENV |                  |                  |                  |                  | TEFC             |                  |                  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        | H48              | S6               | B56              | K56              | M56              | K56              | M56              | P56              |
| H1-216 | 16 $\frac{3}{4}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{3}{4}$ |
| H1-268 | 16 $\frac{3}{4}$ | 17 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 20 $\frac{1}{4}$ |
| H2-300 | 17 $\frac{3}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{4}$ | 20 $\frac{3}{4}$ | 20 $\frac{3}{4}$ |
| H2-350 | 17 $\frac{3}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{4}$ | 20 $\frac{3}{4}$ | 21 $\frac{1}{4}$ |
| H3-400 | 18 $\frac{1}{8}$ | 18 $\frac{3}{4}$ | 19 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{4}$ | 21 $\frac{1}{4}$ | 21 $\frac{1}{4}$ |

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

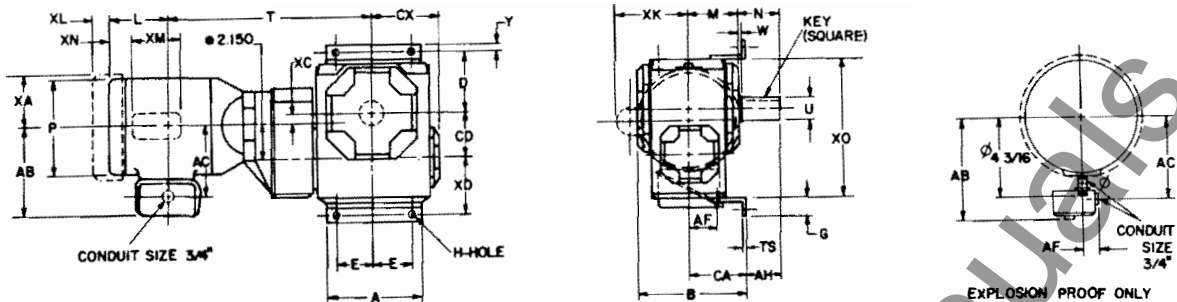
|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

Spiraline® Right Angle Gearmotors Type A

Helical Worm, Solid Shaft  
Angle Brackets, Type H-B

Motor Frames 143T-215T



| GEARHEAD DIMENSIONS IN INCHES |                               |                               |                               |                               |                               |                             |                               |                               |       |                             |                             |                               |                               |                               |                               |                             |                               |                               |                                |                             |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------|-------------------------------|-------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------|
| GEAR FRAME                    | A                             | B                             | O                             | E                             | G                             | H                           | M                             | N                             | U*    | W                           | Y                           | AH                            | CA                            | CD                            | CX                            | TS                          | XC                            | XO                            | XD                             | Key                         |
| H1-216B                       | 4 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | <sup>7</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1.000 | <sup>1</sup> / <sub>8</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> | <sup>3</sup> / <sub>8</sub> | 0                             | 3 <sup>3</sup> / <sub>8</sub> | 7 <sup>3</sup> / <sub>8</sub>  | <sup>1</sup> / <sub>4</sub> |
| H1-268B                       | 5 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub> | 2                             | <sup>1</sup> / <sub>2</sub> | 2 <sup>3</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1.250 | <sup>1</sup> / <sub>8</sub> | <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | <sup>3</sup> / <sub>8</sub> | <sup>1</sup> / <sub>32</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 8 <sup>1</sup> / <sub>4</sub>  | <sup>1</sup> / <sub>4</sub> |
| H2-300B                       | 6 <sup>3</sup> / <sub>4</sub> | 7 <sup>1</sup> / <sub>4</sub> | 4 <sup>3</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>4</sub> | 2                             | <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1.500 | <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>4</sub> | 2 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3                             | 4 <sup>1</sup> / <sub>8</sub> | <sup>3</sup> / <sub>8</sub> | <sup>27</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>4</sub> | 9 <sup>1</sup> / <sub>2</sub>  | <sup>3</sup> / <sub>8</sub> |
| H2-350B                       | 7 <sup>3</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>8</sub> | 2                             | <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1.625 | <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | <sup>3</sup> / <sub>8</sub> | <sup>11</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>4</sub> | 10 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> |
| H3-400B                       | 8 <sup>3</sup> / <sub>8</sub> | 8 <sup>1</sup> / <sub>8</sub> | 6                             | 3 <sup>1</sup> / <sub>2</sub> | 3                             | <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> | 1.750 | <sup>1</sup> / <sub>2</sub> | <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>2</sub> | 4                             | 5 <sup>3</sup> / <sub>8</sub> | <sup>1</sup> / <sub>2</sub> | <sup>17</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>2</sub> | 11 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> |
| H4-400B                       | 8 <sup>3</sup> / <sub>8</sub> | 8 <sup>1</sup> / <sub>8</sub> | 6                             | 3 <sup>1</sup> / <sub>2</sub> | 3                             | <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> | 1.750 | <sup>1</sup> / <sub>2</sub> | <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>2</sub> | 4                             | 5 <sup>3</sup> / <sub>8</sub> | <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 11 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> |

NOTES FOR ABOVE TABLE: \*+.0000, —.0005      ● H4-400B only — 2.500

| MOTOR DIMENSIONS IN INCHES |    |     |     |     |                       |     |    |    |    |    |                   |     |    |              |    |    |    |    |    |
|----------------------------|----|-----|-----|-----|-----------------------|-----|----|----|----|----|-------------------|-----|----|--------------|----|----|----|----|----|
| MOTOR FRAME                | XA | XK‡ | XM‡ | XN‡ | ORIPROOF, TENY & TEFC |     |    |    |    |    | EXPLOSION PROOF Ø |     |    |              |    |    |    |    |    |
|                            |    |     |     |     | Single & Three Phase  |     |    |    |    |    | Three Phase       |     |    | Single Phase |    |    |    |    |    |
|                            |    |     |     |     | L                     | P   | XL | AB | AC | AF | L                 | P   | XL | AB           | AC | AF | AB | AC | AF |
| K143T                      | 3¼ | 5¼  | 3⅜  | 1⅜  | 4¾                    | 6¾  | 1¼ | 6¾ | 4¾ | 1⅞ | 5¾                | 6¾  | 1¼ | 7⅜           | 5½ | 2  | 8  | 5½ | 3¾ |
| M145T                      | 3¼ | 5¼  | 3⅜  | 1⅜  | 4⅞                    | 6¾  | 1¼ | 6⅞ | 4¾ | 1⅞ | 5½                | 6¾  | 1¼ | 7⅜           | 5½ | 2  | 8  | 5½ | 3¾ |
| P143T                      | 3¼ | 5¼  | 3⅜  | 1⅜  | 4⅞                    | 6¾  | 1¼ | 6¾ | 4¾ | 1⅞ | 6¾                | 6¾  | 1¼ | 7⅜           | 5½ | 2  | 8  | 5½ | 3¾ |
| R145T                      | 3¼ | 5¼  | 3⅜  | 1⅜  | 5¾                    | 6¾  | 1¼ | 6¾ | 4¾ | 1⅞ | 6¾                | 6¾  | 1¼ | 7⅜           | 5½ | 2  | 8  | 5½ | 3¾ |
| K182T                      | 4⅞ | 6¾  | 4⅜  | 1¾  | 4⅜                    | 8½  | 1⅞ | 6¾ | 5¾ | 1⅞ | 6¾                | 8½  | 1⅞ | 8¾           | 6¾ | 2  | 8⅜ | 5⅜ | 3¾ |
| M184T                      | 4⅞ | 6¾  | 4⅜  | 1¾  | 5¾                    | 8½  | 1⅞ | 6¾ | 5¾ | 1⅞ | 7¼                | 8½  | 1⅞ | 8¾           | 6¾ | 2  | 8⅜ | 5⅜ | 3¾ |
| P182T                      | 4⅞ | 6¾  | 4⅜  | 1¾  | 6                     | 8½  | 1⅞ | 6¾ | 5¾ | 1⅞ | 7¾                | 8½  | 1⅞ | 8¾           | 6¾ | 2  | 8⅜ | 5⅜ | 3¾ |
| R184T                      | 4⅞ | 6¾  | 4⅜  | 1¾  | 6¾                    | 8½  | 1⅞ | 6¾ | 5¾ | 1⅞ | —                 | —   | —  | —            | —  | —  | —  | —  | —  |
| K213T                      | 5¾ | —   | —   | —   | 6¾                    | 9¾● | 1⅞ | 7¾ | 5¾ | 1⅞ | 5¾                | 10¾ | 1¾ | 10⅞          | 7⅞ | 2  | —  | —  | —  |
| M215T                      | 5¾ | —   | —   | —   | 6¾                    | 9¾● | 1⅞ | 7¾ | 5¾ | 1⅞ | 6¾                | 10¾ | 1¾ | 10⅞          | 7⅞ | 2  | —  | —  | —  |

NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENV & TEFC (not explosion proof) single phase only.  
ØConduit box is optional on fractional HP explosion proof motors. (140T frame only)

●TEFC only = 10%

| GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES |        |        |        |        |        |        |        |        |        |        |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DRIPPROOF, TENV AND TEFC                    |        |        |        |        |        |        |        |        |        |        |
| FRAME                                       | K143T  | M145T  | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  | M215T  |
| H1-216                                      | 12 3/4 | 13 1/8 | 13 3/8 | 13 3/8 | —      | —      | —      | —      | —      | —      |
| H1-268                                      | 13 3/8 | 13 1/8 | 13 3/8 | 14 3/8 | —      | —      | —      | —      | —      | —      |
| H2-300                                      | 13 3/4 | 14 1/4 | 14 1/2 | 14 3/4 | —      | —      | —      | —      | —      | —      |
| H2-350                                      | 14 3/8 | 14 1/8 | 14 3/8 | 15 3/8 | —      | —      | —      | —      | —      | —      |
| H3-400                                      | 14 3/8 | 15 3/8 | 15 3/8 | 15 3/8 | —      | —      | —      | —      | —      | —      |
| H4-400                                      | 16 3/4 | 16 3/4 | 17     | 17 1/2 | 16 1/8 | 17 3/8 | 17 3/4 | 18 3/8 | 17 3/8 | 17 3/8 |
| EXPLOSION PROOF                             |        |        |        |        |        |        |        |        |        |        |
| H1-216                                      | 16 3/8 | 16 1/8 | 17 3/8 | 17 3/8 | —      | —      | —      | —      | —      | —      |
| H1-268                                      | 17 3/8 | 17 3/8 | 18 3/8 | 18 3/8 | —      | —      | —      | —      | —      | —      |
| H2-300                                      | 17 3/4 | 18 3/8 | 18 3/8 | 18 3/8 | —      | —      | —      | —      | —      | —      |
| H2-350                                      | 18 3/8 | 18 1/2 | 19 3/8 | 19 3/8 | —      | —      | —      | —      | —      | —      |
| H3-400                                      | 18 3/8 | 18 3/8 | 19 3/8 | 19 3/8 | —      | —      | —      | —      | —      | —      |
| H4-400                                      | 20 3/8 | 20 3/8 | 21 3/4 | 21 1/2 | 22 3/8 | 23 3/8 | 23 3/8 | —      | 24 3/8 | 24 3/8 |

NOTES:  
■ Motor and Gearhead are "C" flange construction with flexible coupling.  
Add "C" to motor and gear frame. Example — K143TC-H1C-216.

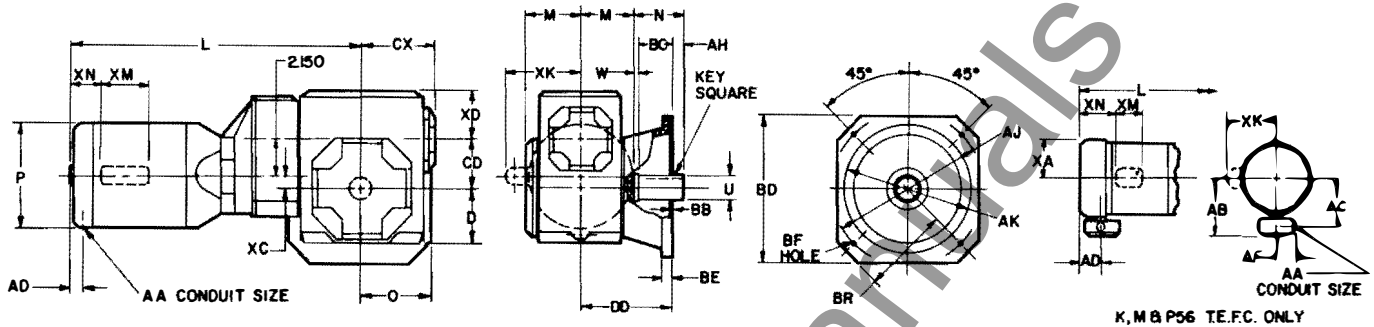
PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |      |       |  |
|----------|------------|-------------|-----------|----------------|------|-------|--|
| Customer |            |             |           | Customer Order |      |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |      |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz   | Volts |  |
| Assembly |            |             | Signed    |                | Date |       |  |

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Helical Worm, Solid Shaft  
Ring Base, Type H-R

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | D               | M               | N               | O               | U*    | W             | AH            | AJ               | AK**  | BB            | BC              | BD               | BE            | BF            | BR              | CD              | CX              | DD              | XC             | XD              | Key           |
|------------|-----------------|-----------------|-----------------|-----------------|-------|---------------|---------------|------------------|-------|---------------|-----------------|------------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|---------------|
| H1-216R    | 2 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 1.000 | $\frac{1}{4}$ | $\frac{3}{8}$ | 6 $\frac{1}{2}$  | 6.000 | $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | $\frac{3}{8}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | 0              | 2 $\frac{3}{4}$ | $\frac{1}{4}$ |
| H1-268R    | 3 $\frac{1}{2}$ | 2 $\frac{3}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1.250 | $\frac{1}{4}$ | $\frac{3}{8}$ | 7 $\frac{3}{4}$  | 6.500 | $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 7                | $\frac{3}{4}$ | $\frac{1}{2}$ | 4 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | $\frac{1}{32}$ | 2 $\frac{1}{4}$ | $\frac{1}{4}$ |
| H2-300R    | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | 1.500 | $\frac{1}{4}$ | $\frac{3}{8}$ | 9 $\frac{1}{2}$  | 8.250 | $\frac{3}{8}$ | 2 $\frac{1}{2}$ | 8 $\frac{3}{4}$  | $\frac{1}{2}$ | $\frac{3}{8}$ | 5 $\frac{1}{4}$ | 3               | 4 $\frac{3}{4}$ | 5 $\frac{1}{4}$ | $\frac{1}{32}$ | 3               | $\frac{3}{8}$ |
| H2-350R    | 4               | 3 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 1.625 | $\frac{1}{4}$ | $\frac{3}{8}$ | 10 $\frac{3}{4}$ | 9.750 | $\frac{3}{8}$ | 2 $\frac{3}{4}$ | 10 $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | 6               | 3 $\frac{1}{2}$ | 5 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | $\frac{1}{32}$ | 3               | $\frac{3}{8}$ |

TOLERANCES FOR TABLE ABOVE:

\*+.0000, —.0005

\*\*+.003, —.000

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XK†             | XM†             | DRIPPROOF & TENV |               |                 |                 | TEFC          |                 |                 |                 |                 |                 |                 |
|-------------|-----------------|-----------------|------------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|             |                 |                 | P                | AA            | AD              | XN†             | AA            | AB              | AC              | AD              | AF              | XA              | XN†             |
| H48         | 5 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | 5 $\frac{1}{4}$  | $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | —             | —               | —               | —               | —               | —               | —               |
| 56          | 5 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| B56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| K56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{4}$ |
| M56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{4}$ |
| P56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | —                | —             | —               | —               | $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{4}$ |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only.

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME  | DRIPPROOF & TENV |                  |                  |                  |                  | TEFC             |                  |                  |  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
|        | H48              | 56               | B56              | K56              | M56              | K56              | M56              | P56              |  |
| H1-216 | 16 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{4}$ |  |
| H1-268 | 16 $\frac{3}{4}$ | 17 $\frac{3}{4}$ | 17 $\frac{3}{4}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ |  |
| H2-300 | 17 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{3}{4}$ | 20 $\frac{3}{4}$ | 20 $\frac{3}{4}$ |  |
| H2-350 | 17 $\frac{3}{4}$ | 18 $\frac{3}{4}$ | 18 $\frac{3}{4}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ |  |

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

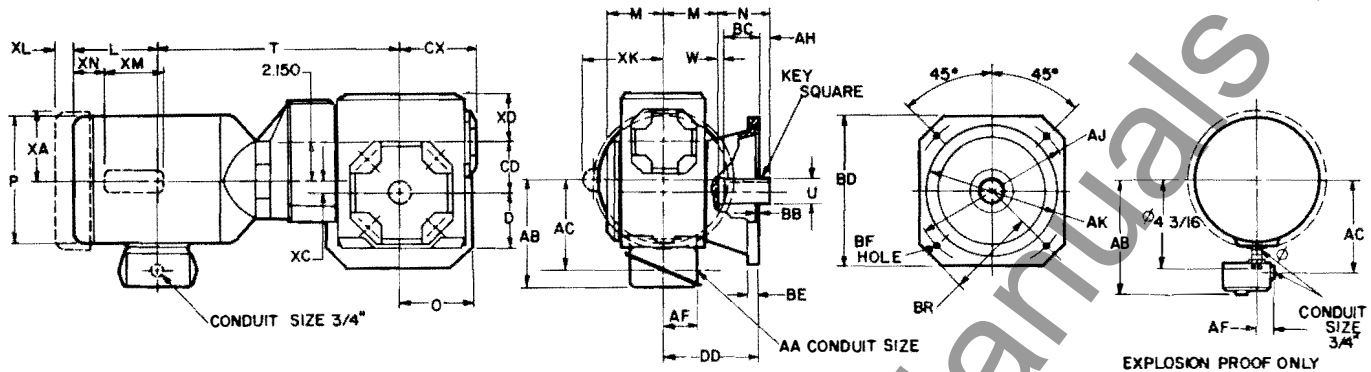
|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |



# Spiraline® Right Angle Gearmotors Type A

Helical Worm, Solid Shaft  
Ring Base, Type H-R

## Motor Frames 143T-215T



### GEARHEAD DIMENSIONS IN INCHES

| GEAR FRAME | D     | M     | N     | O     | U*    | W   | AH  | AJ     | AK**  | BB  | BC    | BD     | BE    | BF  | BR    | CD    | CX    | DO    | XC    | XO    | Key |
|------------|-------|-------|-------|-------|-------|-----|-----|--------|-------|-----|-------|--------|-------|-----|-------|-------|-------|-------|-------|-------|-----|
| H1-216R    | 2 3/4 | 2 3/4 | 2 1/4 | 3 1/4 | 1.000 | 1/4 | 3/8 | 6 1/2  | 6.000 | 3/8 | 1 1/4 | 6 1/2  | 1/2   | 3/4 | 3 3/4 | 2 1/2 | 3 3/4 | 4 1/4 | 0     | 2 3/8 | 1/4 |
| H1-268R    | 3 1/4 | 2 3/4 | 2 1/4 | 3 1/2 | 1.250 | 1/4 | 3/8 | 7 3/4  | 6.500 | 3/8 | 1 3/4 | 7      | 5/8   | 1/2 | 4 1/4 | 2 1/2 | 3 3/4 | 4 3/4 | 1 1/2 | 2 1/2 | 1/4 |
| H2-300R    | 3 1/2 | 3 1/2 | 3 3/4 | 4 3/4 | 1.500 | 1/4 | 3/8 | 9 1/4  | 8.250 | 3/8 | 2 1/4 | 8 1/4  | 1 3/8 | 3/4 | 5 1/4 | 3     | 4 3/4 | 5 3/4 | 2 3/4 | 3     | 3/4 |
| H2-350R    | 4     | 3 1/2 | 3 3/4 | 5 1/4 | 1.625 | 1/4 | 3/8 | 10 3/4 | 9.750 | 3/8 | 2 3/4 | 10 1/4 | 1 3/8 | 3/4 | 6     | 3 1/2 | 5 1/4 | 5 3/4 | 1 1/2 | 3     | 3/4 |

TOLERANCES FOR TABLE ABOVE:

\*+.0000, —.0005

\*\*+.003, —.000

### MOTOR DIMENSIONS IN INCHES

| MOTOR<br>FRAME | XA | XK† | XM† | XN† | DRIPPROOF, TENV & TEFC |    |    |    |    |    | EXPLOSION PROOF Ø |    |    |             |    |    |              |    |    |
|----------------|----|-----|-----|-----|------------------------|----|----|----|----|----|-------------------|----|----|-------------|----|----|--------------|----|----|
|                |    |     |     |     | Single & Three Phase   |    |    |    |    |    |                   |    |    | Three Phase |    |    | Single Phase |    |    |
|                |    |     |     |     | L                      | P  | XL | AB | AC | AF | L                 | P  | XL | AB          | AC | AF | AB           | AC | AF |
| K143T          | 3¼ | 5¼  | 3⅜  | 1⅝  | 4¾                     | 6¾ | 1¼ | 6¼ | 4¾ | 1⅞ | 5¾                | 6¾ | 1¼ | 7⅜          | 5½ | 2  | 8            | 5⅞ | 3⅝ |
| M145T          | 3¼ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6¾ | 1¼ | 6¼ | 4¾ | 1⅞ | 5½                | 6¾ | 1¼ | 7⅜          | 5½ | 2  | 8            | 5⅞ | 3⅝ |
| P143T          | 3¾ | 5¼  | 3⅜  | 1⅝  | 4⅞                     | 6¾ | 1¼ | 6¼ | 4¾ | 1⅞ | 6¾                | 6¾ | 1¼ | 7⅜          | 5½ | 2  | 8            | 5⅞ | 3⅝ |
| R145T          | 3¾ | 5¼  | 3⅜  | 1⅝  | 5¾                     | 6¾ | 1¼ | 6¼ | 4¾ | 1⅞ | 6¾                | 6¾ | 1¼ | 7⅜          | 5½ | 2  | 8            | 5⅞ | 3⅝ |

NOTES FOR ABOVE TABLE:

†Capacitor for Dripproof, TENV & TEFC (not explosion proof) single phase only.

ØConduit box is optional on fractional HP explosion proof motors. (140T frame only)

### GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES

| FRAME  | DRIPPROOF, TENV & TEFC |        |        |        | EXPLOSION PROOF |        |        |        |
|--------|------------------------|--------|--------|--------|-----------------|--------|--------|--------|
|        | K143T                  | M145T  | P143T  | R145T  | K143T           | M145T  | P143T  | R145T  |
| H1-216 | 12 3/4                 | 13 1/4 | 13 1/4 | 13 3/4 | 16 3/4          | 16 3/4 | 17 3/4 | 17 3/4 |
| H1-268 | 13 3/4                 | 13 3/4 | 13 3/4 | 14 3/4 | 17 3/4          | 17 1/2 | 18 3/4 | 18 3/4 |
| H2-300 | 13 3/4                 | 14 1/4 | 14 1/4 | 14 3/4 | 17 3/4          | 18 3/4 | 18 3/4 | 18 3/4 |
| H2-350 | 14 3/4                 | 14 1/4 | 14 1/4 | 15 3/4 | 18 3/4          | 18 1/2 | 19 3/4 | 19 3/4 |

NOTES FOR ABOVE TABLE:

■ Motor & Gearhead are "C" flange construction with flexible coupling.

Add "C" to motor & gear frame. Example — K143TC - H1C - 216.

## PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse Electric Corporation

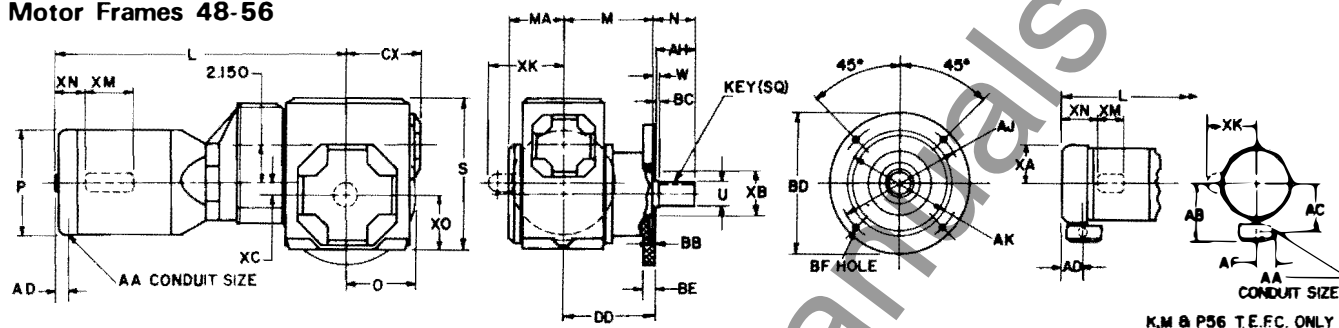
Medium Ac Motor and Gearing Division, Buffalo, N. Y. 14240

Printed in USA

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Helical Worm, Solid Shaft  
 Ring Base, Long Shaft, Type H-RL

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | M                | N               | O               | S                | U*    | W             | AH              | AJ               | AK**  | BB            | BC            | BD               | BE            | BF              | CX              | DD              | MA              | XB              | XC              | XO              | Key           |
|------------|------------------|-----------------|-----------------|------------------|-------|---------------|-----------------|------------------|-------|---------------|---------------|------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
| H1-216RL   | 4 $\frac{1}{4}$  | 2 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | 7 $\frac{1}{2}$  | 1.000 | $\frac{1}{8}$ | 2               | 4 $\frac{3}{4}$  | 4.000 | $\frac{3}{8}$ | 0             | 5 $\frac{1}{2}$  | $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 3 $\frac{3}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 0               | 2 $\frac{3}{8}$ | $\frac{1}{4}$ |
| H1-268RL   | 4 $\frac{1}{2}$  | 2 $\frac{1}{8}$ | 4 $\frac{3}{8}$ | 8 $\frac{3}{4}$  | 1.250 | $\frac{1}{8}$ | 2               | 7 $\frac{3}{4}$  | 6.500 | $\frac{3}{8}$ | 0             | 8 $\frac{3}{4}$  | $\frac{1}{8}$ | $\frac{1}{2}$   | 3 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{5}{8}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | $\frac{1}{4}$ |
| H2-300RL   | 5 $\frac{1}{16}$ | 3 $\frac{1}{8}$ | 5 $\frac{3}{8}$ | 9 $\frac{1}{2}$  | 1.625 | $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 9 $\frac{1}{2}$  | 8.250 | $\frac{3}{8}$ | $\frac{1}{8}$ | 10 $\frac{3}{4}$ | $\frac{1}{8}$ | $\frac{1}{8}$   | 4 $\frac{3}{8}$ | 5 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | $\frac{3}{8}$ |
| H2-350RL   | 5 $\frac{1}{16}$ | 3 $\frac{1}{8}$ | 5 $\frac{3}{8}$ | 10 $\frac{1}{2}$ | 1.625 | $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 9 $\frac{1}{2}$  | 8.250 | $\frac{3}{8}$ | $\frac{1}{8}$ | 10 $\frac{3}{4}$ | $\frac{1}{8}$ | $\frac{1}{8}$   | 5 $\frac{1}{8}$ | 5 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 4               | $\frac{3}{8}$ |
| H3-400RL   | 6                | 3 $\frac{1}{8}$ | 6               | 11 $\frac{1}{2}$ | 1.750 | $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 10 $\frac{1}{2}$ | 9.750 | $\frac{3}{8}$ | $\frac{1}{8}$ | 12               | $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | 4 $\frac{3}{8}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{3}{8}$ |

TOLERANCES FOR ABOVE TABLE:

\*  $\pm .0000$ ,  $-.0005$ \*\*  $\pm .003$ ,  $-.000$ 
**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XK†             | XM†             | DRIPPROOF & TENV |               |                 |                 |               | TEFC            |                 |                 |                 |                 |                 |
|-------------|-----------------|-----------------|------------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|             |                 |                 | P                | AA            | AD              | XN†             | AA            | AB              | AC              | AD              | AF              | XA              | XN†             |
| H48         | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 5 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 1 $\frac{7}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| 56          | 5 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| B56         | 5 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{2}$  | $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| K56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{8}$ |
| M56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$  | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{8}$ |
| P56         | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | —                | —             | —               | —               | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{8}$ |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only.

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME  | DRIPPROOF & TENV |                  |                  |                  |                  | TEFC             |                  |                  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        | H48              | 56               | B56              | K56              | M56              | K56              | M56              | P56              |
| H1-216 | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 19 $\frac{3}{8}$ |
| H1-268 | 16 $\frac{3}{4}$ | 17 $\frac{3}{4}$ | 17 $\frac{3}{4}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 18 $\frac{3}{4}$ | 19 $\frac{3}{4}$ | 20 $\frac{1}{4}$ |
| H2-300 | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 20 $\frac{1}{8}$ | 20 $\frac{3}{8}$ |
| H2-350 | 17 $\frac{3}{4}$ | 18 $\frac{3}{4}$ | 18 $\frac{3}{4}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{3}{4}$ | 20 $\frac{3}{4}$ | 21 $\frac{1}{8}$ |
| H3-400 | 18 $\frac{1}{8}$ | 18 $\frac{3}{4}$ | 19 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 20 $\frac{1}{4}$ | 21 $\frac{1}{4}$ | 21 $\frac{1}{8}$ |

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

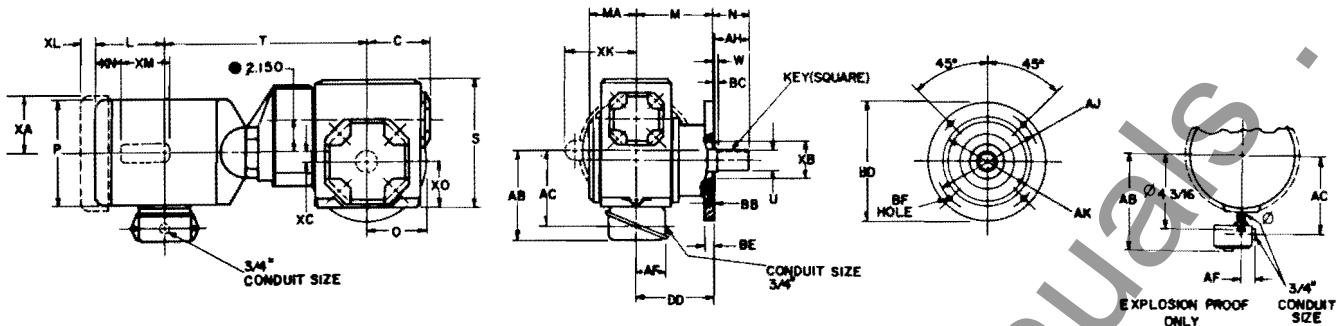
|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             | Item No.  |                |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             | Signed    |                |    | Date     |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

# **Spiraline® Right Angle Gearmotors Type A**

Helical Worm, Solid Shaft  
Ring Base, Long Shaft, Type H-RL

## **Motor Frames 143T-215T**



**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | M     | N     | O     | S      | U*    | W   | AH    | AJ     | AK**  | BB  | BC  | BD     | BE  | BF    | CX    | DO    | MA    | XB    | XC    | XO    | Key |
|------------|-------|-------|-------|--------|-------|-----|-------|--------|-------|-----|-----|--------|-----|-------|-------|-------|-------|-------|-------|-------|-----|
| H1-216RL   | 4 1/4 | 2 1/4 | 2 1/4 | 7 1/2  | 1.000 | 1/4 | 2     | 4 3/4  | 4.000 | 1/4 | 0   | 5 1/2  | 1/4 | 1 1/2 | 3 1/4 | 4 1/4 | 2 1/4 | 2 1/4 | 0     | 2 1/4 | 1/4 |
| H1-268RL   | 4 1/2 | 2 1/4 | 4 3/4 | 8 1/4  | 1.250 | 1/4 | 2     | 7 3/4  | 6.500 | 1/4 | 0   | 8 3/4  | 1/4 | 1 1/2 | 3 1/4 | 4 1/4 | 2 1/4 | 2 1/4 | 1 1/2 | 3 1/4 | 1/4 |
| H2-300RL   | 5 1/4 | 3 1/4 | 5 1/4 | 9 1/2  | 1.625 | 1/4 | 3 3/4 | 9 1/2  | 8.250 | 1/4 | 1/4 | 10 1/4 | 1/4 | 1 1/2 | 4 1/4 | 5 1/4 | 3 1/2 | 3 1/4 | 2 1/2 | 3 1/2 | 3/4 |
| H2-350RL   | 5 1/4 | 3 1/4 | 5 3/4 | 10 1/2 | 1.625 | 1/4 | 3 3/4 | 9 1/2  | 8.250 | 1/4 | 1/4 | 10 1/4 | 1/4 | 1 1/2 | 5 1/4 | 5 1/4 | 3 1/2 | 3 1/4 | 1 1/2 | 4     | 3/4 |
| H3-400RL   | 6     | 3 3/4 | 6     | 11 1/2 | 1.750 | 1/4 | 3 3/4 | 10 3/4 | 9.750 | 1/4 | 1/4 | 12     | 1/4 | 1 1/2 | 5 1/4 | 6 1/4 | 4 3/4 | 3 1/4 | 1 1/2 | 4 1/2 | 3/4 |
| H4-400RL   | 6     | 3 3/4 | 6     | 11 1/2 | 1.750 | 1/4 | 3 3/4 | 10 3/4 | 9.750 | 1/4 | 1/4 | 12     | 1/4 | 1 1/2 | 5 1/4 | 6 1/4 | 4 3/4 | 3 1/4 | 1 1/2 | 4 1/2 | 3/4 |

TOLERANCES FOR ABOVE TABLE: \*+.0000, -.0005 \*\*+.003, -.000 ● H4-400RL only — 2.500

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XA    | XK‡   | XM‡   | XN‡   | DRIPPROOF, TENV & TEFC |         |       |       |       |       |       | EXPLOSION PROOF Ø |       |        |              |    |       |       |       |  |
|-------------|-------|-------|-------|-------|------------------------|---------|-------|-------|-------|-------|-------|-------------------|-------|--------|--------------|----|-------|-------|-------|--|
|             |       |       |       |       | Single & Three Phase   |         |       |       |       |       |       | Three Phase       |       |        | Single Phase |    |       |       |       |  |
|             |       |       |       |       | L                      | P       | XL    | AB    | AC    | AF    | L     | P                 | XL    | AB     | AC           | AF | AB    | AC    | AF    |  |
| K143T       | 3 3/4 | 5 1/4 | 3 1/4 | 1 1/4 | 4 3/4                  | 6 3/4   | 1 1/4 | 6 1/4 | 4 1/4 | 1 1/4 | 5 1/4 | 6 3/4             | 1 1/4 | 7 1/4  | 5 1/2        | 2  | 8     | 5 1/4 | 3 3/4 |  |
| M145T       | 3 3/4 | 5 1/4 | 3 1/4 | 1 1/4 | 4 1/4                  | 6 3/4   | 1 1/4 | 6 1/4 | 4 1/4 | 1 1/4 | 5 1/4 | 6 3/4             | 1 1/4 | 7 1/4  | 5 1/2        | 2  | 8     | 5 1/4 | 3 3/4 |  |
| P143T       | 3 3/4 | 5 1/4 | 3 1/4 | 1 1/4 | 4 1/4                  | 6 3/4   | 1 1/4 | 6 1/4 | 4 1/4 | 1 1/4 | 5 1/4 | 6 3/4             | 1 1/4 | 7 1/4  | 5 1/2        | 2  | 8     | 5 1/4 | 3 3/4 |  |
| R145T       | 3 3/4 | 5 1/4 | 3 1/4 | 1 1/4 | 5 1/4                  | 6 3/4   | 1 1/4 | 6 1/4 | 4 1/4 | 1 1/4 | 5 1/4 | 6 3/4             | 1 1/4 | 7 1/4  | 5 1/2        | 2  | 8     | 5 1/4 | 3 3/4 |  |
| K182T       | 4 1/4 | 6 3/4 | 4 1/4 | 1 1/4 | 4 1/4                  | 8 1/4   | 1 1/4 | 6 1/4 | 5 1/4 | 1 1/4 | 6 1/4 | 8 1/4             | 1 1/4 | 8 3/4  | 6 3/4        | 2  | 8 1/4 | 5 1/4 | 3 3/4 |  |
| M184T       | 4 1/4 | 6 3/4 | 4 1/4 | 1 1/4 | 5 1/4                  | 8 1/4   | 1 1/4 | 6 1/4 | 5 1/4 | 1 1/4 | 7 1/4 | 8 1/4             | 1 1/4 | 8 3/4  | 6 3/4        | 2  | 8 1/4 | 5 1/4 | 3 3/4 |  |
| P182T       | 4 1/4 | 6 3/4 | 4 1/4 | 1 1/4 | 6                      | 8 1/4   | 1 1/4 | 6 1/4 | 5 1/4 | 1 1/4 | 7 3/4 | 8 1/4             | 1 1/4 | 8 3/4  | 6 3/4        | 2  | 8 1/4 | 5 1/4 | 3 3/4 |  |
| R184T       | 4 1/4 | 6 3/4 | 4 1/4 | 1 1/4 | 6 3/4                  | 8 1/4   | 1 1/4 | 6 1/4 | 5 1/4 | 1 1/4 | 7 3/4 | 8 1/4             | 1 1/4 | 8 3/4  | 6 3/4        | 2  | 8 1/4 | 5 1/4 | 3 3/4 |  |
| K213T       | 5 1/4 | —     | —     | —     | 6 1/4                  | 9 1/4 ● | 1 1/4 | 7 1/4 | 5 1/4 | 1 1/4 | 5 1/4 | 10 1/4            | 1 1/4 | 10 1/4 | 7 1/4        | 2  | —     | —     | —     |  |
| M215T       | 5 1/4 | —     | —     | —     | 6 1/4                  | 9 1/4 ● | 1 1/4 | 7 1/4 | 5 1/4 | 1 1/4 | 6 1/4 | 10 1/4            | 1 1/4 | 10 1/4 | 7 1/4        | 2  | —     | —     | —     |  |

NOTES FOR ABOVE TABLE: ‡Capacitor for Drip-proof, TENV & TEFC (not explosion proof) single phase only.  
●Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

●TEFC only = 10 3/4

**GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES**

| DRIPPROOF, TENV AND TEFC |        |        |        |        |        |        |        |        |        |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FRAME                    | K143T  | M145T  | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  |
| H1-216                   | 12 3/4 | 13 1/4 | 13 3/4 | 13 3/4 | —      | —      | —      | —      | —      |
| H1-268                   | 13 3/4 | 13 3/4 | 13 3/4 | 14 1/4 | —      | —      | —      | —      | —      |
| H2-300                   | 13 3/4 | 14 1/4 | 14 1/2 | 14 3/4 | —      | —      | —      | —      | —      |
| H2-350                   | 14 1/4 | 14 1/4 | 14 1/4 | 15 1/4 | —      | —      | —      | —      | —      |
| H3-400                   | 14 1/4 | 15 1/4 | 15 1/4 | 16 1/4 | —      | —      | —      | —      | —      |
| H4-400                   | 16 1/4 | 16 3/4 | 17     | 17 1/4 | 16 1/4 | 17 1/4 | 17 3/4 | 18 3/4 | 17 3/4 |
| ■ EXPLOSION PROOF        |        |        |        |        |        |        |        |        |        |
| H1-216                   | 16 1/4 | 16 1/4 | 17 1/4 | 17 1/4 | —      | —      | —      | —      | —      |
| H1-268                   | 17 1/4 | 17 1/4 | 18 1/4 | 18 1/4 | —      | —      | —      | —      | —      |
| H2-300                   | 17 3/4 | 18 1/4 | 18 1/4 | 18 1/4 | —      | —      | —      | —      | —      |
| H2-350                   | 18 1/4 | 18 1/2 | 19 1/4 | 19 1/4 | —      | —      | —      | —      | —      |
| H3-400                   | 18 1/4 | 18 3/4 | 19 1/4 | 19 1/4 | —      | —      | —      | —      | —      |
| H4-400                   | 20 1/4 | 20 1/4 | 21 1/4 | 21 1/2 | 22 1/4 | 23 1/4 | 23 1/4 | —      | 24 1/4 |

NOTES :

■ Motor and Gearhead are "C" flange construction with flexible coupling.  
Add "C" to motor and gear frame. Example — K143TC-H1C-216.

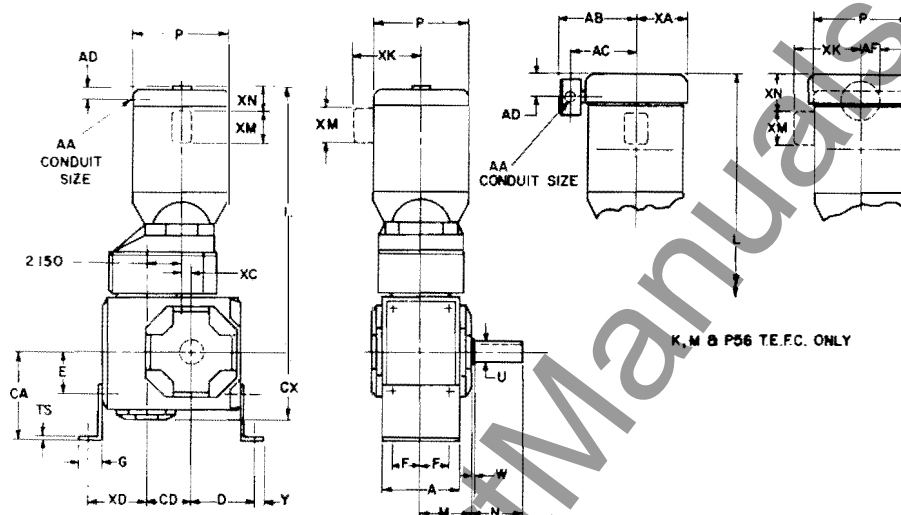
PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Helical Worm, Solid Shaft  
 Angle Brackets, Types H-JB and H-JBL

**Motor Frames 48-56**


| GEAR FRAME | GEARHEAD DIMENSIONS IN INCHES |                               |                               |                               |                               |                               |                               |                               |       |                               |                               |                               |                               |                               |                               |                               |                               |                               |
|------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|            | A                             | D                             | E                             | F                             | G                             | H                             | M                             | N                             | U*    | W                             | Y                             | CA                            | CD                            | CX                            | TS                            | XC                            | XD                            | Key                           |
| H1-216JBL  | 4                             | 3 <sup>5</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1.000 | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 2 <sup>5</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0                             | 3 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> |
| H1-268JB   | 4 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>8</sub> | 2                             | 3 <sup>1</sup> / <sub>2</sub> | 2 <sup>5</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1.250 | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> |
| H2-300JB   | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>8</sub> | 2                             | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1.500 | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 4 <sup>1</sup> / <sub>8</sub> | 3                             | 4 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| H2-350JB   | 5 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 2                             | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1.625 | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| H3-400JB   | 5 <sup>1</sup> / <sub>8</sub> | 6                             | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>7</sup> / <sub>8</sub> | 3                             | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1.750 | 1 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>3</sup> / <sub>8</sub> | 4                             | 5 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>7</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> |

TOLERANCES FOR TABLE ABOVE

\* ±.0000, --.0005

| MOTOR DIMENSIONS IN INCHES |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
|----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| MOTOR FRAME                | XK†                           | XM†                           | DRIPPROOF & TENV              |                               |                               |                               | TEFC                          |                               |                               |                               |                               |                               |                               |
|                            |                               |                               | P                             | AA                            | AD                            | XN†                           | AA                            | AB                            | AC                            | AD                            | AF                            | XA                            | XN†                           |
| H48                        | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>7</sup> / <sub>8</sub> | 5 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 1 <sup>7</sup> / <sub>8</sub> | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| 56                         | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 2                             | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| B56                        | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 2                             | —                             | —                             | —                             | —                             | —                             | —                             | —                             |
| K56                        | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| M56                        | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |
| P56                        | 5 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub> | —                             | —                             | —                             | —                             | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only.

| FRAME  | DRIPPROOF & TENV               |                                |                                |                                |                                | TEFC                           |                                |                                |
|--------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
|        | H48                            | 56                             | B56                            | K56                            | M56                            | K56                            | M56                            | P56                            |
| H1-216 | 16 <sup>3</sup> / <sub>4</sub> | 16 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>4</sub> | 19 <sup>1</sup> / <sub>4</sub> | 19 <sup>3</sup> / <sub>4</sub> |
| H1-268 | 16 <sup>3</sup> / <sub>4</sub> | 17 <sup>1</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>8</sub> | 19 <sup>1</sup> / <sub>8</sub> | 20 <sup>1</sup> / <sub>8</sub> |
| H2-300 | 17 <sup>1</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>8</sub> | 19 <sup>1</sup> / <sub>8</sub> | 19 <sup>1</sup> / <sub>8</sub> | 20 <sup>1</sup> / <sub>8</sub> | 20 <sup>1</sup> / <sub>8</sub> |
| H2-350 | 17 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>2</sub> | 19 <sup>1</sup> / <sub>2</sub> | 19 <sup>1</sup> / <sub>8</sub> | 20 <sup>1</sup> / <sub>8</sub> | 21 <sup>1</sup> / <sub>8</sub> |
| H3-400 | 18 <sup>1</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>4</sub> | 19 <sup>1</sup> / <sub>4</sub> | 18 <sup>7</sup> / <sub>8</sub> | 19 <sup>3</sup> / <sub>8</sub> | 20 <sup>1</sup> / <sub>8</sub> | 21 <sup>1</sup> / <sub>8</sub> | 21 <sup>1</sup> / <sub>8</sub> |

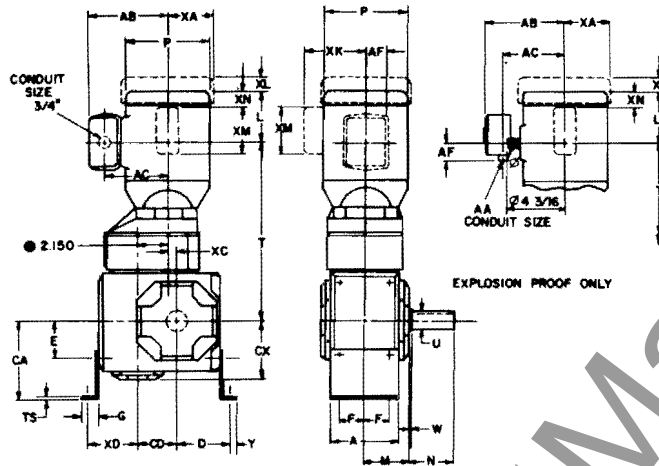
**PRELIMINARY** ☐ **CERTIFIED** ☐ **PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

**Spiraline® Right Angle  
Gearmotors Type A**

Helical Worm, Solid Shaft  
Angle Brackets, Types H-JB and H-JBL

**Motor Frames 143T-215T**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A     | D     | E     | F     | G     | H   | M     | N     | U*    | W   | Y     | CA    | CD    | CX    | TS  | XC    | XD    | Key |
|------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-------|-----|-------|-------|-----|
| H1-216JBL  | 4     | 3 3/8 | 2 1/8 | 1 3/8 | 1 1/2 | 3/8 | 3 3/8 | 2 3/8 | 1.000 | 1/8 | 1/2   | 3 1/2 | 2 3/8 | 3 3/8 | 1/4 | 0     | 3 3/8 | 1/4 |
| H1-268JB   | 4 3/8 | 4 1/2 | 2 1/2 | 1 1/8 | 2     | 1/2 | 2 3/8 | 2 3/8 | 1.250 | 3/8 | 3/4   | 4 1/2 | 2 1/4 | 3 3/8 | 3/8 | 1/2   | 3 1/8 | 1/4 |
| H2-300JB   | 5 1/8 | 4 3/4 | 2 3/8 | 2 1/8 | 2     | 3/8 | 3 1/2 | 3 1/8 | 1.500 | 1/2 | 3/4   | 4 3/8 | 3     | 4 3/8 | 3/8 | 2/2   | 4 1/4 | 3/8 |
| H2-350JB   | 5 1/8 | 5 1/4 | 3 3/8 | 2 3/8 | 2     | 3/8 | 3 1/2 | 3 3/8 | 1.625 | 3/8 | 3/4   | 5 1/4 | 3 1/2 | 5 1/8 | 3/8 | 1 1/2 | 4 1/4 | 3/8 |
| H3-400JB   | 5 3/8 | 6     | 3 1/2 | 1 3/8 | 3     | 3/8 | 4 3/8 | 3 3/8 | 1.750 | 1/2 | 1 1/2 | 5 3/8 | 4     | 5 3/8 | 1/2 | 1 1/2 | 4 1/2 | 3/8 |
| H4-400JB   | 5 3/8 | 6     | 3 1/2 | 1 3/8 | 3     | 3/8 | 4 3/8 | 3 3/8 | 1.750 | 1/2 | 1 1/2 | 5 3/8 | 4     | 5 3/8 | 1/2 | 1 1/2 | 4 1/2 | 3/8 |

TOLERANCES FOR TABLE ABOVE: \*+.0000, —.0005

NOTES FOR TABLE ABOVE: • H4-400JB only — 2.500

**MOTOR DIMENSIONS IN INCHES**

| MOTOR<br>FRAME | XA | XK‡ | XM‡ | XN‡ | DRIPPROOF, TENV & TEFC |    |    |    |    |    | EXPLOSION PROOF Ø |     |    |              |    |    |    |    |    |
|----------------|----|-----|-----|-----|------------------------|----|----|----|----|----|-------------------|-----|----|--------------|----|----|----|----|----|
|                |    |     |     |     | Single & Three Phase   |    |    |    |    |    | Three Phase       |     |    | Single Phase |    |    |    |    |    |
|                |    |     |     |     | L                      | P  | XL | AB | AC | AF | L                 | P   | XL | AB           | AC | AF | AB | AC | AF |
| K143T          | 3¼ | 5¼  | 3⅞  | 1⅞  | 4¾                     | 6¾ | 1½ | 6¾ | 4¾ | 1¼ | 5½                | 6¾  | 1¼ | 7⅞           | 5½ | 2  | 8  | 5¼ | 3¾ |
| M145T          | 3¾ | 5¼  | 3⅞  | 1⅞  | 4⅞                     | 6¾ | 1½ | 6¾ | 4¾ | 1½ | 5½                | 6¾  | 1¼ | 7⅞           | 5½ | 2  | 8  | 5¼ | 3¾ |
| P143T          | 3¾ | 5¼  | 3⅞  | 1⅞  | 4⅞                     | 6¾ | 1½ | 6¾ | 4¾ | 1½ | 6½                | 6¾  | 1¼ | 7⅞           | 5½ | 2  | 8  | 5¼ | 3¾ |
| R145T          | 3¾ | 5¼  | 3⅞  | 1⅞  | 5¾                     | 6¾ | 1½ | 6¾ | 4¾ | 1½ | 6½                | 6¾  | 1¼ | 7⅞           | 5½ | 2  | 8  | 5¼ | 3¾ |
| K182T          | 4¾ | 6¾  | 4⅞  | 1¾  | 4¾                     | 8½ | 1⅞ | 6¾ | 5¾ | 1½ | 6½                | 8½  | 1⅞ | 8¾           | 6¾ | 2  | 8½ | 5½ | 3¾ |
| M184T          | 4¾ | 6¾  | 4⅞  | 1¾  | 5¾                     | 8½ | 1⅞ | 6¾ | 5¾ | 1½ | 7¼                | 8½  | 1⅞ | 8¾           | 6¾ | 2  | 8½ | 5½ | 3¾ |
| P182T          | 4¾ | 6¾  | 4⅞  | 1¾  | 6                      | 8½ | 1⅞ | 6¾ | 5¾ | 1½ | 7¼                | 8½  | 1⅞ | 8¾           | 6¾ | 2  | 8½ | 5½ | 3¾ |
| R184T          | 4¾ | 6¾  | 4⅞  | 1¾  | 6¾                     | 8½ | 1⅞ | 6¾ | 5¾ | 1½ | —                 | —   | —  | —            | —  | —  | —  | —  | —  |
| K213T          | 5¾ | —   | —   | —   | 6½                     | 9½ | 1¾ | 7¾ | 5½ | 1¾ | 5½                | 10½ | 1¾ | 10½          | 7½ | 2  | —  | —  | —  |
| M215T          | 5¾ | —   | —   | —   | 6½                     | 9½ | 1¾ | 7¾ | 5½ | 1¾ | 6½                | 10½ | 1¾ | 10½          | 7½ | 2  | —  | —  | —  |

NOTES FOR ABOVE TABLE: †Capacitor for Drip-proof, TENV &amp; TEFC (not explosion proof) single phase only.

• TEFC only = 10 3/8

Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

**GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES**

| DRIPPROOF, TENV AND TEFC |                  |                  |                  |                  |                    |                  |                  |                  |                  |                  | ■ EXPLOSION PROOF |                  |                  |                  |                  |                  |                  |                  |       |                  |                  |
|--------------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|------------------|------------------|
| FRAME                    | K143T            | M145T            | P143T            | R145T            | K182T              | M184T            | P182T            | R184T            | K213T            | M215T            | FRAME             | K143T            | M145T            | P143T            | R145T            | K182T            | M184T            | P182T            | R184T | K213T            | M215T            |
| H1-216                   | 12 $\frac{3}{8}$ | 13 $\frac{1}{4}$ | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ |                    |                  |                  |                  |                  |                  | H1-216            | 16 $\frac{3}{8}$ | 16 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ |                  |                  |                  |       |                  |                  |
| H1-268                   | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 14 $\frac{3}{8}$ |                    |                  |                  |                  |                  |                  | H1-268            | 17 $\frac{3}{8}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{8}$ | 18 $\frac{3}{8}$ |                  |                  |                  |       |                  |                  |
| H2-300                   | 13 $\frac{3}{8}$ | 14 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 14 $\frac{1}{4}$ |                    |                  |                  |                  |                  |                  | H2-300            | 17 $\frac{3}{8}$ | 18 $\frac{3}{8}$ | 18 $\frac{3}{8}$ | 18 $\frac{3}{8}$ |                  |                  |                  |       |                  |                  |
| H2-350                   | 14 $\frac{3}{8}$ | 14 $\frac{3}{8}$ | 14 $\frac{3}{8}$ | 15 $\frac{3}{8}$ |                    |                  |                  |                  |                  |                  | H2-350            | 18 $\frac{3}{8}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{8}$ | 19 $\frac{3}{8}$ |                  |                  |                  |       |                  |                  |
| H3-400                   | 14 $\frac{3}{8}$ | 15 $\frac{3}{8}$ | 15 $\frac{3}{8}$ | 15 $\frac{3}{8}$ |                    |                  |                  |                  |                  |                  | H3-400            | 18 $\frac{3}{8}$ | 18 $\frac{3}{8}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{2}$ |                  |                  |                  |       |                  |                  |
| H4-400                   | 16 $\frac{1}{4}$ | 16 $\frac{3}{4}$ | 17               | 17 $\frac{1}{4}$ | 16 $\frac{11}{16}$ | 17 $\frac{3}{8}$ | 17 $\frac{3}{8}$ | 18 $\frac{3}{8}$ | 17 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | H4-400            | 20 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 21 $\frac{1}{4}$ | 21 $\frac{1}{2}$ | 22 $\frac{3}{8}$ | 23 $\frac{3}{8}$ | 23 $\frac{3}{8}$ |       | 24 $\frac{3}{8}$ | 24 $\frac{3}{8}$ |

NOTES FOR ABOVE TABLE: ■ Motor and Gearhead are "C" flange construction with flexible coupling. Add "C" to motor and gear frame. Example — K143TC-H1C-216.

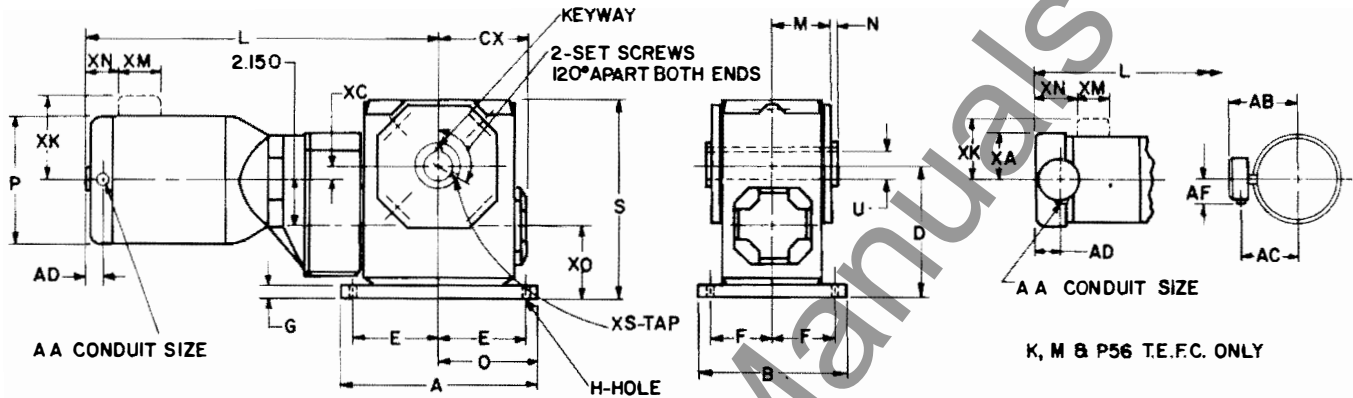
**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse


**Spiraline® Right Angle Gearmotors Type A**

 Helical Worm, Hollow Shaft  
 Adaptable Base, Type H-AH

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A                | B               | O*              | E               | F               | G               | H             | M               | N             | O               | S                | U         | CX              | XC              | XS                |
|------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|------------------|-----------|-----------------|-----------------|-------------------|
| H1-216AH   | 7 $\frac{1}{4}$  | 6 $\frac{3}{8}$ | 5 $\frac{1}{2}$ | 3               | 2 $\frac{1}{8}$ | $\frac{3}{8}$   | $\frac{3}{8}$ | 2 $\frac{1}{4}$ | $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 7 $\frac{1}{8}$  | See Table | 3 $\frac{3}{8}$ | 0               | $\frac{1}{4}$ -20 |
| H1-268AH   | 8 $\frac{1}{2}$  | 6 $\frac{3}{8}$ | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | $\frac{1}{2}$   | $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{3}{8}$ | 4 $\frac{1}{8}$ | 9 $\frac{1}{8}$  |           | 3 $\frac{1}{8}$ | $\frac{1}{2}$   | $\frac{1}{4}$ -20 |
| H2-300AH   | 9 $\frac{1}{2}$  | 9               | 6 $\frac{3}{4}$ | 4 $\frac{3}{8}$ | 3 $\frac{1}{4}$ | $\frac{3}{4}$   | $\frac{3}{4}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 10 $\frac{1}{4}$ |           | 4 $\frac{1}{8}$ | $\frac{3}{4}$   | $\frac{3}{8}$ -18 |
| H2-350AH   | 10 $\frac{1}{2}$ | 9 $\frac{1}{8}$ | 7 $\frac{1}{4}$ | 4 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | $\frac{3}{4}$   | $\frac{3}{4}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 11 $\frac{1}{4}$ |           | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{3}{8}$ -18 |
| H3-400AH   | 10 $\frac{3}{4}$ | 10              | 8 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 4               | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | 3 $\frac{3}{8}$ | $\frac{3}{8}$ | 5 $\frac{1}{8}$ | 12 $\frac{1}{4}$ |           | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{3}{8}$ -16 |

 TOLERANCES FOR ABOVE TABLE: \*+0, - $\frac{1}{32}$ 
**MOTOR DIMENSIONS IN INCHES**

| MOTOR<br>FRAME | XK†             | XM†             | ORIPROOF & TENV |               |                 |                 | TEFC          |                 |                 |                 |                 |                 |                 |
|----------------|-----------------|-----------------|-----------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                |                 |                 | P               | AA            | AD              | XN†             | AA            | AB              | AC              | AD              | AF              | XA              | XN†             |
| H48            | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 5 $\frac{1}{4}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | —             | —               | —               | —               | —               | —               | —               |
| 56             | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| B56            | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 2               | —             | —               | —               | —               | —               | —               | —               |
| K56            | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{3}{8}$ |
| M56            | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{3}{8}$ |
| P56            | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | —               | —             | —               | —               | $\frac{3}{4}$ | 5 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{3}{8}$ |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only.

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME  | ORIPROOF & TENV  |                  |                  |                  |                  | TEFC             |                  |                  |  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
|        | H48              | 56               | B56              | K56              | M56              | K56              | M56              | P56              |  |
| H1-216 | 16 $\frac{1}{8}$ | 16 $\frac{3}{8}$ | 17 $\frac{1}{8}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{3}{4}$ |  |
| H1-268 | 16 $\frac{3}{4}$ | 17 $\frac{3}{4}$ | 17 $\frac{3}{4}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 18 $\frac{3}{8}$ | 19 $\frac{3}{8}$ | 20 $\frac{3}{8}$ |  |
| H2-300 | 17 $\frac{3}{8}$ | 17 $\frac{3}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 19 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 20 $\frac{7}{8}$ |  |
| H2-350 | 17 $\frac{3}{4}$ | 18 $\frac{3}{4}$ | 18 $\frac{3}{4}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{3}{4}$ | 20 $\frac{3}{4}$ | 21 $\frac{3}{4}$ |  |
| H3-400 | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 18 $\frac{3}{8}$ | 19 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 21 $\frac{3}{8}$ | 21 $\frac{1}{2}$ |  |

| GEAR FRAME | **"U" AND KEYWAY DIMENSIONS IN INCHES |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| H1-216     | 1.000                                 | 1.125                            | 1.188                            | 1.250                            | 1.438                            | —                                | —                                | —                                |
|            | $\frac{1}{4} \times \frac{1}{8}$      | $\frac{1}{4} \times \frac{1}{8}$ | $\frac{1}{4} \times \frac{1}{8}$ | $\frac{1}{4} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{4}$ | —                                | —                                | —                                |
| H1-268     | 1.000                                 | 1.125                            | 1.188                            | 1.250                            | 1.438                            | —                                | —                                | —                                |
|            | $\frac{1}{4} \times \frac{1}{8}$      | $\frac{1}{4} \times \frac{1}{8}$ | $\frac{1}{4} \times \frac{1}{8}$ | $\frac{1}{4} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{4}$ | —                                | —                                | —                                |
| H2-300     | 1.250                                 | 1.438                            | 1.500                            | 1.688                            | 1.938                            | 2.000                            | 2.188                            | —                                |
|            | $\frac{1}{4} \times \frac{1}{8}$      | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{1}{2} \times \frac{1}{4}$ | —                                |
| H2-350     | 1.250                                 | 1.438                            | 1.500                            | 1.688                            | 1.938                            | 2.000                            | 2.188                            | —                                |
|            | $\frac{1}{4} \times \frac{1}{8}$      | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{1}{2} \times \frac{1}{4}$ | —                                |
| H3-400     | 1.250                                 | 1.438                            | 1.500                            | 1.688                            | 1.938                            | 2.000                            | 2.188                            | 2.500                            |
|            | $\frac{1}{4} \times \frac{1}{8}$      | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{3}{8} \times \frac{1}{8}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{1}{2} \times \frac{1}{4}$ | $\frac{3}{8} \times \frac{1}{4}$ |

 TOLERANCES FOR TABLE ABOVE:  
 \*+.002, —.000

 NOTES FOR TABLE ABOVE:  
 ΔKey Size  $\frac{3}{8} \times \frac{1}{8}$   
 ●Key Size  $\frac{1}{2} \times \frac{1}{4}$   
 ⊙Key Size  $\frac{3}{8} \times \frac{1}{2}$ 
**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

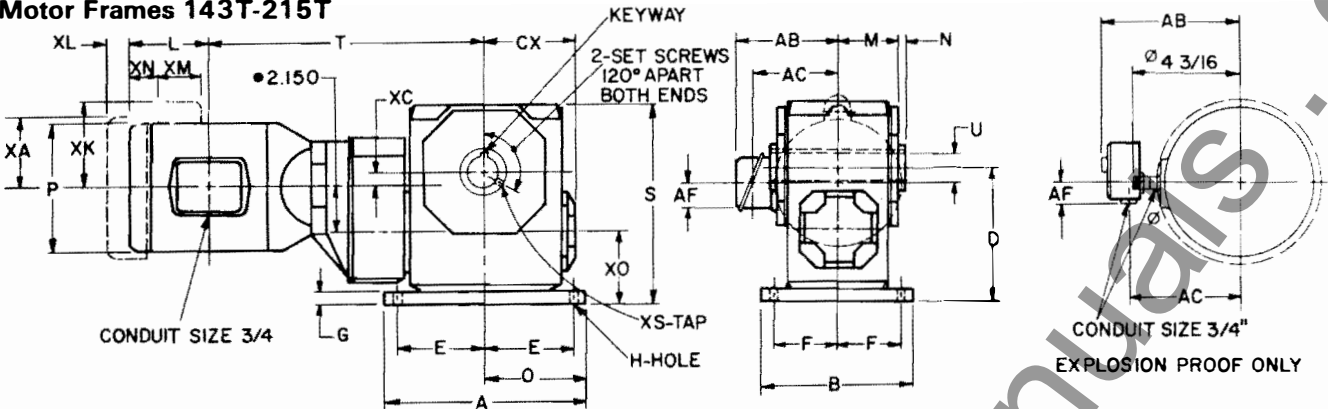
|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            |             |           | Item No.       |    |       |  |
| Cat. No. |            |             |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             |           | Signed         |    |       |  |
|          |            |             |           | Date           |    |       |  |

 November, 1970  
 New Information  
 E. D/1781, 1782/DS; D/2431

Spiraline® Right Angle Gearmotors Type A

Helical Worm, Hollow Shaft  
Adaptable Base, Type H-AH

Motor Frames 143T-215T



| GEARHEAD DIMENSIONS IN INCHES |                                |                               |                                |                                |                                |                                |                               |                                |                               |                                |                                 |              |                                |                                |                                    |
|-------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|--------------|--------------------------------|--------------------------------|------------------------------------|
| GEAR FRAME                    | A                              | B                             | D*                             | E                              | F                              | G                              | H                             | M                              | N                             | O                              | S                               | U            | CX                             | XC                             | XS                                 |
| H1-216AH                      | 7 <sup>1</sup> / <sub>4</sub>  | 6 <sup>5</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>32</sub> | 3                              | 2 <sup>1</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>5</sup> / <sub>8</sub>  | 7 <sup>1</sup> / <sub>16</sub>  | See<br>Table | 3 <sup>3</sup> / <sub>8</sub>  | 0                              | 1 <sup>1</sup> / <sub>4</sub> -20  |
| H1-268AH                      | 8 <sup>1</sup> / <sub>8</sub>  | 6 <sup>5</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>16</sub> | 2 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>16</sub> | 9 <sup>1</sup> / <sub>16</sub>  |              | 3 <sup>3</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>4</sub> -20  |
| H2-300AH                      | 9 <sup>1</sup> / <sub>8</sub>  | 9                             | 6 <sup>3</sup> / <sub>4</sub>  | 4 <sup>1</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>16</sub> | 10 <sup>1</sup> / <sub>16</sub> |              | 4 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>16</sub> -18 |
| H2-350AH                      | 10 <sup>7</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>4</sub>  | 4 <sup>1</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>16</sub> | 11 <sup>1</sup> / <sub>16</sub> |              | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>16</sub> -18 |
| H3-400AH                      | 10 <sup>7</sup> / <sub>8</sub> | 10                            | 8 <sup>1</sup> / <sub>4</sub>  | 4 <sup>1</sup> / <sub>4</sub>  | 4                              | 1 <sup>1</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>16</sub> | 12 <sup>1</sup> / <sub>16</sub> |              | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>16</sub> -16 |
| H4-400AH                      | 10 <sup>7</sup> / <sub>8</sub> | 10                            | 8 <sup>1</sup> / <sub>4</sub>  | 4 <sup>1</sup> / <sub>4</sub>  | 4                              | 1 <sup>1</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub>  | 5 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>16</sub> | 12 <sup>3</sup> / <sub>4</sub>  |              | 5 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>16</sub> -16 |

TOLERANCES FOR ABOVE TABLE: \*+0, -1/32 NOTES FOR ABOVE TABLE: ●H4-400AH only — 2.500

| MOTOR DIMENSIONS IN INCHES |    |     |     |     |                        |     |    |    |    |    |                   |     |    |              |    |    |    |    |    |
|----------------------------|----|-----|-----|-----|------------------------|-----|----|----|----|----|-------------------|-----|----|--------------|----|----|----|----|----|
| MOTOR FRAME                | XA | XK± | XM± | XN± | DRIPPROOF, TENV & TEFC |     |    |    |    |    | EXPLOSION PROOF ☉ |     |    |              |    |    |    |    |    |
|                            |    |     |     |     | Single & Three Phase   |     |    |    |    |    | Three Phase       |     |    | Single Phase |    |    |    |    |    |
|                            |    |     |     |     | L                      | P   | XL | AB | AC | AF | L                 | P   | XL | AB           | AC | AF | AB | AC | AF |
| K143T                      | 3¾ | 5¼  | 3⅛  | 1⅛  | 4¾                     | 6⅝  | 1¼ | 6⅛ | 4⅛ | 1½ | 5⅞                | 6⅝  | 1¼ | 7⅛           | 5½ | 2  | 8  | 5⅞ | 3⅝ |
| M145T                      | 3¾ | 5¼  | 3⅛  | 1⅛  | 4⅞                     | 6⅝  | 1¼ | 6⅛ | 4⅛ | 1½ | 5⅞                | 6⅝  | 1¼ | 7⅛           | 5½ | 2  | 8  | 5⅞ | 3⅝ |
| P143T                      | 3¾ | 5¼  | 3⅛  | 1⅛  | 4⅞                     | 6⅝  | 1¼ | 6⅛ | 4⅛ | 1½ | 6⅞                | 6⅝  | 1¼ | 7⅛           | 5½ | 2  | 8  | 5⅞ | 3⅝ |
| R145T                      | 3¾ | 5¼  | 3⅛  | 1⅛  | 5⅜                     | 6⅝  | 1¼ | 6⅛ | 4⅛ | 1½ | 6⅞                | 6⅝  | 1¼ | 7⅛           | 5½ | 2  | 8  | 5⅞ | 3⅝ |
| K182T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 4⅞                     | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1½ | 6½                | 8¼  | 1⅞ | 8¼           | 6⅞ | 2  | 8⅞ | 5⅞ | 3⅞ |
| M184T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 5⅞                     | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1½ | 7¼                | 8¼  | 1⅞ | 8¼           | 6⅞ | 2  | 8⅞ | 5⅞ | 3⅞ |
| P182T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 6                      | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1½ | 7¼                | 8¼  | 1⅞ | 8¼           | 6⅞ | 2  | 8⅞ | 5⅞ | 3⅞ |
| R184T                      | 4⅞ | 6⅞  | 4⅜  | 1⅞  | 6⅞                     | 8¼  | 1⅞ | 6⅞ | 5⅞ | 1½ | —                 | —   | —  | —            | —  | —  | —  | —  | —  |
| K213T                      | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞● | 1⅞ | 7⅞ | 5⅞ | 1½ | 5⅞                | 10⅞ | 1⅞ | 10⅞          | 7⅞ | 2  | —  | —  | —  |
| M215T                      | 5⅞ | —   | —   | —   | 6⅞                     | 9⅞● | 1⅞ | 7⅞ | 5⅞ | 1½ | 6⅞                | 10⅞ | 1⅞ | 10⅞          | 7⅞ | 2  | —  | —  | —  |

NOTES FOR ABOVE TABLE: †Capacitor for Driproof, TENV & TEFC (not explosion proof) single phase only. ●TEFC only — 10<sup>3</sup>/<sub>8</sub> Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

| GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES |                                |                                 |                                 |                                 |                                 |                                |                                |                                |                                |                                |
|---------------------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| DRIPPROOF, TENV AND TEFC                    |                                |                                 |                                 |                                 |                                 |                                |                                |                                |                                |                                |
| FRAME                                       | K143T                          | M145T                           | P143T                           | R145T                           | K182T                           | M184T                          | P182T                          | R184T                          | K213T                          | M215T                          |
| H1-216                                      | 12 <sup>3</sup> / <sub>8</sub> | 13 <sup>3</sup> / <sub>8</sub>  | 13 <sup>3</sup> / <sub>8</sub>  | 13 <sup>3</sup> / <sub>8</sub>  | —                               | —                              | —                              | —                              | —                              | —                              |
| H1-268                                      | 13 <sup>3</sup> / <sub>8</sub> | 13 <sup>1</sup> / <sub>16</sub> | 13 <sup>1</sup> / <sub>16</sub> | 14 <sup>1</sup> / <sub>16</sub> | —                               | —                              | —                              | —                              | —                              | —                              |
| H2-300                                      | 13 <sup>3</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>16</sub> | 14 <sup>1</sup> / <sub>16</sub> | 14 <sup>1</sup> / <sub>16</sub> | —                               | —                              | —                              | —                              | —                              | —                              |
| H2-350                                      | 14 <sup>3</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>16</sub> | 14 <sup>1</sup> / <sub>16</sub> | 15 <sup>3</sup> / <sub>8</sub>  | —                               | —                              | —                              | —                              | —                              | —                              |
| H3-400                                      | 14 <sup>3</sup> / <sub>8</sub> | 15 <sup>1</sup> / <sub>16</sub> | 15 <sup>1</sup> / <sub>16</sub> | 15 <sup>3</sup> / <sub>8</sub>  | —                               | —                              | —                              | —                              | —                              | —                              |
| H4-400                                      | 16 <sup>1</sup> / <sub>4</sub> | 16 <sup>1</sup> / <sub>4</sub>  | 17                              | 17 <sup>1</sup> / <sub>4</sub>  | 16 <sup>1</sup> / <sub>16</sub> | 17 <sup>3</sup> / <sub>8</sub> | 17 <sup>3</sup> / <sub>4</sub> | 18 <sup>3</sup> / <sub>8</sub> | 17 <sup>3</sup> / <sub>8</sub> | 17 <sup>3</sup> / <sub>8</sub> |
| EXPLOSION PROOF                             |                                |                                 |                                 |                                 |                                 |                                |                                |                                |                                |                                |
| H1-216                                      | 16 <sup>3</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>16</sub> | 17 <sup>3</sup> / <sub>8</sub>  | 17 <sup>1</sup> / <sub>16</sub> | —                               | —                              | —                              | —                              | —                              | —                              |
| H1-268                                      | 17 <sup>3</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>2</sub>  | 18 <sup>3</sup> / <sub>8</sub>  | 18 <sup>3</sup> / <sub>8</sub>  | —                               | —                              | —                              | —                              | —                              | —                              |
| H2-300                                      | 17 <sup>3</sup> / <sub>4</sub> | 18 <sup>1</sup> / <sub>16</sub> | 18 <sup>1</sup> / <sub>16</sub> | 18 <sup>1</sup> / <sub>16</sub> | —                               | —                              | —                              | —                              | —                              | —                              |
| H2-350                                      | 18 <sup>3</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>2</sub>  | 19 <sup>3</sup> / <sub>8</sub>  | 19 <sup>3</sup> / <sub>8</sub>  | —                               | —                              | —                              | —                              | —                              | —                              |
| H3-400                                      | 18 <sup>3</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>8</sub>  | 19 <sup>3</sup> / <sub>8</sub>  | 19 <sup>3</sup> / <sub>8</sub>  | —                               | —                              | —                              | —                              | —                              | —                              |
| H4-400                                      | 20 <sup>3</sup> / <sub>8</sub> | 20 <sup>3</sup> / <sub>8</sub>  | 21 <sup>1</sup> / <sub>4</sub>  | 21 <sup>1</sup> / <sub>2</sub>  | 22 <sup>3</sup> / <sub>8</sub>  | 23 <sup>3</sup> / <sub>8</sub> | 23 <sup>3</sup> / <sub>8</sub> | —                              | 24 <sup>3</sup> / <sub>8</sub> | 24 <sup>3</sup> / <sub>8</sub> |

NOTES FOR ABOVE TABLE: ■ Motor and Gearhead are "C" flange construction with flexible coupling. Add "C" to motor and gear frame. Example — K143TC-H1C-216.

| GEAR FRAME      | "U" AND KEYWAY DIMENSIONS IN INCHES |                    |                    |                    |                    |                    |                      |                     |
|-----------------|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|
| H1-216          | 1.000<br>1/2 x 1/8                  | 1.125<br>1/2 x 1/8 | 1.188<br>1/2 x 1/8 | 1.250<br>1/2 x 1/8 | 1.438<br>3/8 x 1/8 | —                  | —                    | —                   |
| H1-268          | 1.000<br>1/2 x 1/8                  | 1.125<br>1/2 x 1/8 | 1.188<br>1/2 x 1/8 | 1.250<br>1/2 x 1/8 | 1.438<br>3/8 x 1/8 | —                  | —                    | —                   |
| H2-300          | 1.250<br>1/2 x 1/8                  | 1.438<br>3/8 x 1/8 | 1.500<br>3/8 x 1/8 | 1.688<br>3/8 x 1/8 | 1.938<br>1/2 x 1/4 | 2.000<br>1/2 x 1/4 | 2.188<br>1/2 x 1/4 ● | —                   |
| H2-350          | 1.250<br>1/2 x 1/8                  | 1.438<br>3/8 x 1/8 | 1.500<br>3/8 x 1/8 | 1.688<br>3/8 x 1/8 | 1.938<br>1/2 x 1/4 | 2.000<br>1/2 x 1/4 | 2.188<br>1/2 x 1/4 ● | —                   |
| H3-400 & H4-400 | 1.250<br>1/2 x 1/8                  | 1.438<br>3/8 x 1/8 | 1.500<br>3/8 x 1/8 | 1.688<br>3/8 x 1/8 | 1.938<br>1/2 x 1/4 | 2.000<br>1/2 x 1/4 | 2.188<br>1/2 x 1/4   | 2.500<br>5/8 x 3/16 |

TOLERANCES FOR TABLE ABOVE: \*+.002, -.000

NOTES FOR TABLE ABOVE: ΔKey Size 3/8 x 1/8 ●Key Size 1/2 x 3/8 †Key Size 5/8 x 1/2

PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

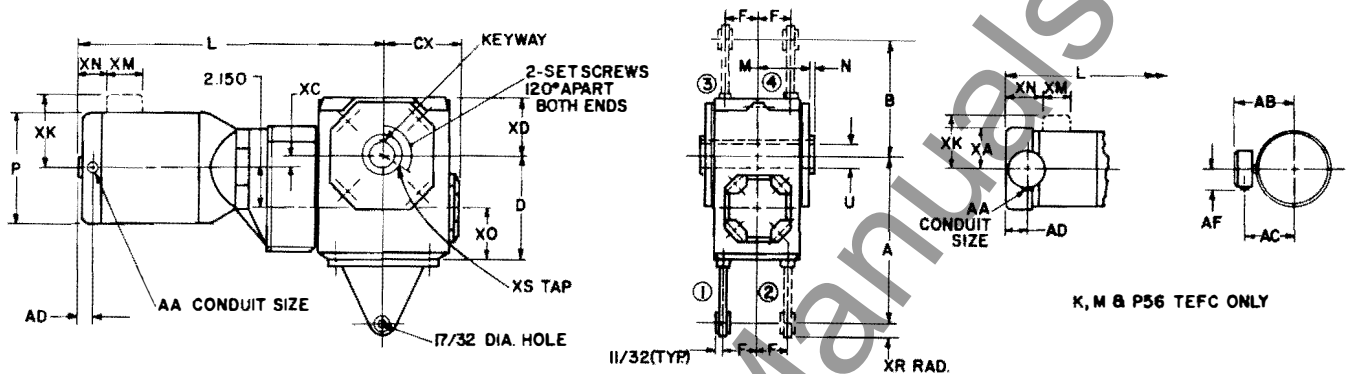
# Westinghouse



## Spiraline® Right Angle Gearmotors Type A

**Helical Worm, Hollow Shaft  
Without Base, Type H-H**

## Motor Frames 48-56



Optional torque arm mountings shown in phantom lines.

- NOTES:**
1. Torque arm dimensions are typical for top and bottom mounting.
  2. Torque arm will be located in position 1 unless otherwise specified.

| GEARHEAD DIMENSIONS IN INCHES |                  |    |                  |                   |                 |               |              |                 |                  |                 |                  |                    |               |
|-------------------------------|------------------|----|------------------|-------------------|-----------------|---------------|--------------|-----------------|------------------|-----------------|------------------|--------------------|---------------|
| GEAR<br>FRAME                 | A                | B  | D                | F                 | M               | N             | U            | CX              | XC               | XD              | XO               | XS                 | XR            |
| H1-216H                       | 7 $\frac{3}{32}$ | 6  | 4 $\frac{1}{32}$ | 1 $\frac{3}{8}$   | 2 $\frac{1}{4}$ | $\frac{3}{8}$ | See<br>Chart | 3 $\frac{3}{8}$ | 0                | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$  | $\frac{1}{4}$ -20  | $\frac{3}{4}$ |
| H1-260H                       | 8 $\frac{1}{8}$  | 7  | 5 $\frac{1}{8}$  | 1 $\frac{11}{16}$ | 2 $\frac{1}{2}$ | $\frac{3}{8}$ |              | 3 $\frac{1}{4}$ | $\frac{1}{32}$   | 3 $\frac{1}{4}$ | 2 $\frac{7}{16}$ | $\frac{1}{4}$ -20  | $\frac{3}{4}$ |
| H2-300H                       | 10 $\frac{1}{2}$ | 8  | 6                | 2 $\frac{1}{4}$   | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |              | 4 $\frac{1}{2}$ | 2 $\frac{1}{32}$ | 3 $\frac{1}{2}$ | 3                | $\frac{5}{16}$ -18 | $\frac{1}{2}$ |
| H2-350H                       | 12 $\frac{1}{2}$ | 10 | 6 $\frac{1}{2}$  | 2 $\frac{3}{8}$   | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |              | 5 $\frac{1}{8}$ | 1 $\frac{1}{32}$ | 4               | 3                | $\frac{5}{16}$ -18 | $\frac{3}{4}$ |
| H3-400H                       | 14 $\frac{1}{2}$ | 12 | 7                | 1 $\frac{1}{8}$   | 3 $\frac{3}{4}$ | $\frac{3}{4}$ |              | 5 $\frac{1}{4}$ | 1 $\frac{3}{32}$ | 4 $\frac{1}{2}$ | 3                | $\frac{3}{8}$ -16  | $\frac{1}{2}$ |

| MOTOR DIMENSIONS IN INCHES |     |     |                  |    |    |     |      |    |    |    |    |    |     |
|----------------------------|-----|-----|------------------|----|----|-----|------|----|----|----|----|----|-----|
| MOTOR FRAME                | XK† | XM† | DRIPPROOF & TENV |    |    |     | TEFC |    |    |    |    |    |     |
|                            |     |     | P                | AA | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48                        | 5½  | 4¾  | 5¾               | ½  | 1¾ | 1½  | —    | —  | —  | —  | —  | —  | —   |
| 56                         | 5¾  | 3¾  | 6½               | ½  | 1¾ | 2   | —    | —  | —  | —  | —  | —  | —   |
| B56                        | 5¾  | 3¾  | 6½               | ½  | 1¾ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56                        | 5¾  | 3¾  | 6¾               | ½  | ¾  | 1¾  | ¾    | 5¾ | 4¾ | 2½ | 1¾ | 3¾ | 3¾  |
| M56                        | 5½  | 3¾  | 6¾               | ½  | ¾  | 1¾  | ¾    | 5¾ | 4¾ | 2½ | 1¾ | 3¾ | 3¾  |
| P56                        | 5¾  | 3¾  | —                | —  | —  | —   | ¾    | 5¾ | 4¾ | 2½ | 1¾ | 3¾ | 3¾  |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only.

| FRAME  | DRIPPROOF & TENV |                  |                  |                  |                  | TEFC             |                  |                  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        | H48              | 56               | B56              | K56              | M56              | K56              | M56              | P56              |
| H1-216 | 16 $\frac{3}{4}$ | 16 $\frac{3}{4}$ | 17 $\frac{1}{2}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{4}$ |
| H1-268 | 16 $\frac{3}{4}$ | 17 $\frac{1}{4}$ | 17 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 18 $\frac{3}{4}$ | 19 $\frac{3}{4}$ | 20 $\frac{3}{4}$ |
| H2-300 | 17 $\frac{1}{2}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 20 $\frac{1}{2}$ |
| H2-350 | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ |
| H3-400 | 18 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 21 $\frac{1}{4}$ |

| GEAR FRAME | ***U** AND KEYWAY DIMENSIONS IN INCHES |                    |                    |                    |                      |                    |                      |                      |
|------------|----------------------------------------|--------------------|--------------------|--------------------|----------------------|--------------------|----------------------|----------------------|
| H1-216     | 1.000<br>1/4 x 3/8                     | 1.125<br>1/4 x 1/2 | 1.188<br>1/4 x 1/2 | 1.250<br>1/4 x 1/2 | 1.438<br>3/8 x 1/2 Δ | —                  | —                    | —                    |
| H1-268     | 1.000<br>1/4 x 3/8                     | 1.125<br>1/4 x 1/2 | 1.188<br>1/4 x 1/2 | 1.250<br>1/4 x 1/2 | 1.438<br>3/8 x 1/2 Δ | —                  | —                    | —                    |
| H2-300     | 1.250<br>1/4 x 3/4                     | 1.438<br>3/8 x 3/4 | 1.500<br>3/8 x 3/4 | 1.688<br>3/8 x 3/4 | 1.938<br>1/2 x 1/2   | 2.000<br>1/2 x 1/2 | 2.188<br>1/2 x 1/2 ● | —                    |
| H2-350     | 1.250<br>1/4 x 3/4                     | 1.438<br>3/8 x 3/4 | 1.500<br>3/8 x 3/4 | 1.688<br>3/8 x 3/4 | 1.938<br>1/2 x 1/2   | 2.000<br>1/2 x 1/2 | 2.188<br>1/2 x 1/2 ● | —                    |
| H3-400     | 1.250<br>1/4 x 3/4                     | 1.438<br>3/8 x 3/4 | 1.500<br>3/8 x 3/4 | 1.688<br>3/8 x 3/4 | 1.938<br>1/2 x 1/2   | 2.000<br>1/2 x 1/2 | 2.188<br>1/2 x 1/2   | 2.500<br>3/4 x 3/4 ① |

TOLERANCES FOR TABLE ABOVE:  
\*  $\pm .002$ ,  $-.000$

NOTES FOR TABLE ABOVE:  
 ▲ Key Size  $\frac{3}{8} \times \frac{5}{16}$   
 ● Key Size  $\frac{1}{2} \times \frac{3}{8}$       ① Key Size  $\frac{5}{8} \times \frac{1}{2}$

**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

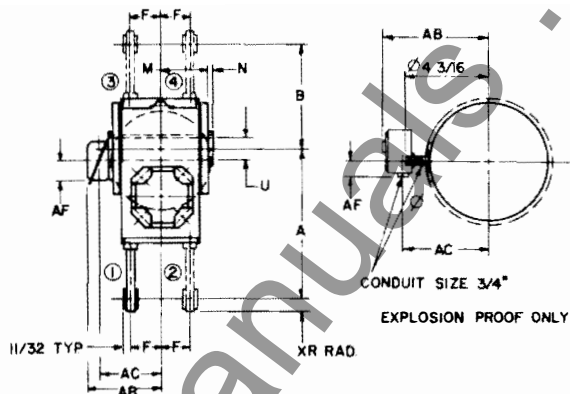
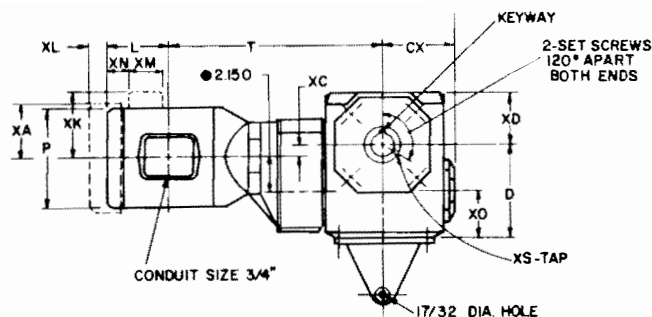
|          |            |             |           |                |       |          |       |
|----------|------------|-------------|-----------|----------------|-------|----------|-------|
| Customer |            |             |           | Customer Order |       |          |       |
| G.O.     |            |             | Item No.  |                |       | Cat. No. |       |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm |                | Freq. | Hz       | Volts |
| Assembly |            |             | Signed    |                |       |          | Date  |



# Spiraline® Right Angle Gearmotors Type A

Helical Worm, Hollow Shaft  
Without Base, Type H-H

## Motor Frames 143T-215T



Optional torque arm mountings shown in phantom lines.

NOTES: 1. Torque arm dimensions are typical for top and bottom mounting.  
2. Torque arm will be located in position 1 unless otherwise specified.

| GEARHEAD DIMENSIONS IN INCHES |                                |    |                               |                               |                               |                               |           |                               |                               |                               |                               |                                   |                               |
|-------------------------------|--------------------------------|----|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|-------------------------------|
| GEAR FRAME                    | A                              | B  | D                             | F                             | M                             | N                             | U         | CX                            | XC                            | XD                            | XO                            | XS                                | XR                            |
| H1-216H                       | 7 <sup>1</sup> / <sub>2</sub>  | 6  | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | See Chart | 3 <sup>3</sup> / <sub>8</sub> | 0                             | 2 <sup>1</sup> / <sub>2</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> -20 | 3 <sup>1</sup> / <sub>2</sub> |
| H1-268H                       | 8 <sup>1</sup> / <sub>2</sub>  | 7  | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> |           | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 2 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> -20 | 3 <sup>1</sup> / <sub>2</sub> |
| H2-300H                       | 10 <sup>1</sup> / <sub>2</sub> | 8  | 6                             | 2 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> |           | 4 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3                             | 1 <sup>1</sup> / <sub>2</sub> -18 | 3 <sup>1</sup> / <sub>2</sub> |
| H2-350H                       | 12 <sup>1</sup> / <sub>2</sub> | 10 | 6 <sup>1</sup> / <sub>2</sub> | 2 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> |           | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4                             | 3                             | 1 <sup>1</sup> / <sub>2</sub> -18 | 3 <sup>1</sup> / <sub>2</sub> |
| H3-400H                       | 14 <sup>1</sup> / <sub>2</sub> | 12 | 7                             | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> |           | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 3                             | 1 <sup>1</sup> / <sub>2</sub> -16 | 3 <sup>1</sup> / <sub>2</sub> |
| H4-400H                       | 14 <sup>1</sup> / <sub>2</sub> | 12 | 7                             | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> |           | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 3                             | 1 <sup>1</sup> / <sub>2</sub> -16 | 3 <sup>1</sup> / <sub>2</sub> |

NOTES FOR ABOVE TABLE: • H4-400H only — 2,500.

| MOTOR DIMENSIONS IN INCHES |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                                |                               |                                |                               |    |                               |                               |
|----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|----|-------------------------------|-------------------------------|
| MOTOR FRAME                | XA                            | XK†                           | XM†                           | XN†                           | DRIPPROOF, TENV & TEFC        |                               |                               |                               |                               |                               |                               |                                | EXPLOSION PROOF               |                                |                               |    |                               |                               |
|                            |                               |                               |                               |                               | Single & Three Phase          |                               |                               |                               |                               |                               |                               |                                | Three Phase                   |                                |                               |    |                               |                               |
|                            |                               |                               |                               |                               | L                             | P                             | XL                            | AB                            | AC                            | AF                            | L                             | P                              | XL                            | AB                             | AC                            | AF | AB                            | AC                            |
| K143T                      | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub>  | 5 <sup>1</sup> / <sub>2</sub> | 2  | 8                             | 5 <sup>1</sup> / <sub>2</sub> |
| M145T                      | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub>  | 5 <sup>1</sup> / <sub>2</sub> | 2  | 8                             | 5 <sup>1</sup> / <sub>2</sub> |
| P143T                      | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub>  | 5 <sup>1</sup> / <sub>2</sub> | 2  | 8                             | 5 <sup>1</sup> / <sub>2</sub> |
| R145T                      | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub>  | 5 <sup>1</sup> / <sub>2</sub> | 2  | 8                             | 5 <sup>1</sup> / <sub>2</sub> |
| K182T                      | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 6 <sup>1</sup> / <sub>2</sub> | 2  | 8 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> |
| M184T                      | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 6 <sup>1</sup> / <sub>2</sub> | 2  | 8 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> |
| P182T                      | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6                             | 8 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 6 <sup>1</sup> / <sub>2</sub> | 2  | 8 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> |
| R184T                      | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  | 6 <sup>1</sup> / <sub>2</sub> | 2  | 8 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> |
| K213T                      | 5 <sup>1</sup> / <sub>2</sub> | —                             | —                             | —                             | 6 <sup>1</sup> / <sub>2</sub> | 9 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 10 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 10 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 2  | —                             | —                             |
| M215T                      | 5 <sup>1</sup> / <sub>2</sub> | —                             | —                             | —                             | 6 <sup>1</sup> / <sub>2</sub> | 9 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 10 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 10 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub> | 2  | —                             | —                             |

NOTES FOR ABOVE TABLE: †Capacitor for Drip-proof, TENV & TEFC (not explosion proof) single phase only.  
• Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

• TEFC only = 10<sup>1</sup>/<sub>2</sub>

| GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |
|---------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| DRIPPROOF, TENV AND TEFC                    |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |
| FRAME                                       | K143T                          | M145T                          | P143T                          | R145T                          | K182T                          | M184T                          | P182T                          | R184T                          | K213T                          | M215T                          |
| H1-216                                      | 12 <sup>3</sup> / <sub>4</sub> | 13 <sup>1</sup> / <sub>2</sub> | 13 <sup>1</sup> / <sub>2</sub> | 13 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H1-268                                      | 13 <sup>3</sup> / <sub>4</sub> | 13 <sup>3</sup> / <sub>4</sub> | 13 <sup>3</sup> / <sub>4</sub> | 14 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H2-300                                      | 13 <sup>3</sup> / <sub>4</sub> | 14 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H2-350                                      | 14 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H3-400                                      | 14 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | 15 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H4-400                                      | 16 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | 17                             | 17 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> |
| EXPLOSION PROOF                             |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |
| H1-216                                      | 16 <sup>1</sup> / <sub>2</sub> | 16 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H1-268                                      | 17 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H2-300                                      | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H2-350                                      | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 19 <sup>1</sup> / <sub>2</sub> | 19 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H3-400                                      | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 19 <sup>1</sup> / <sub>2</sub> | 19 <sup>1</sup> / <sub>2</sub> | —                              | —                              | —                              | —                              | —                              | —                              |
| H4-400                                      | 20 <sup>1</sup> / <sub>2</sub> | 20 <sup>1</sup> / <sub>2</sub> | 21 <sup>1</sup> / <sub>2</sub> | 21 <sup>1</sup> / <sub>2</sub> | 22 <sup>1</sup> / <sub>2</sub> | 23 <sup>1</sup> / <sub>2</sub> | 23 <sup>1</sup> / <sub>2</sub> | —                              | 24 <sup>1</sup> / <sub>2</sub> | 24 <sup>1</sup> / <sub>2</sub> |

NOTES FOR ABOVE TABLE:

• Motor and Gearhead are "C" flange construction with flexible coupling.  
Add "C" to motor and gear frame. Example — K143TC-H1C-216.

| GEAR FRAME      | "U" AND KEYWAY DIMENSIONS IN INCHES |       |       |       |       |       |       |       |
|-----------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| H1-216          | 1.000                               | 1.125 | 1.188 | 1.250 | 1.438 | —     | —     | —     |
| H1-268          | 1.000                               | 1.125 | 1.188 | 1.250 | 1.438 | —     | —     | —     |
| H2-300          | 1.250                               | 1.438 | 1.500 | 1.688 | 1.938 | 2.000 | 2.188 | —     |
| H2-350          | 1.250                               | 1.438 | 1.500 | 1.688 | 1.938 | 2.000 | 2.188 | —     |
| H3-400 & H4-400 | 1.250                               | 1.438 | 1.500 | 1.688 | 1.938 | 2.000 | 2.188 | 2.500 |

TOLERANCES FOR TABLE ABOVE:  
\*+.002, —.000

NOTES FOR TABLE ABOVE:  
• Key Size 3/8 x 5/8  
• Key Size 1/2 x 3/4  
• Key Size 5/8 x 1/2

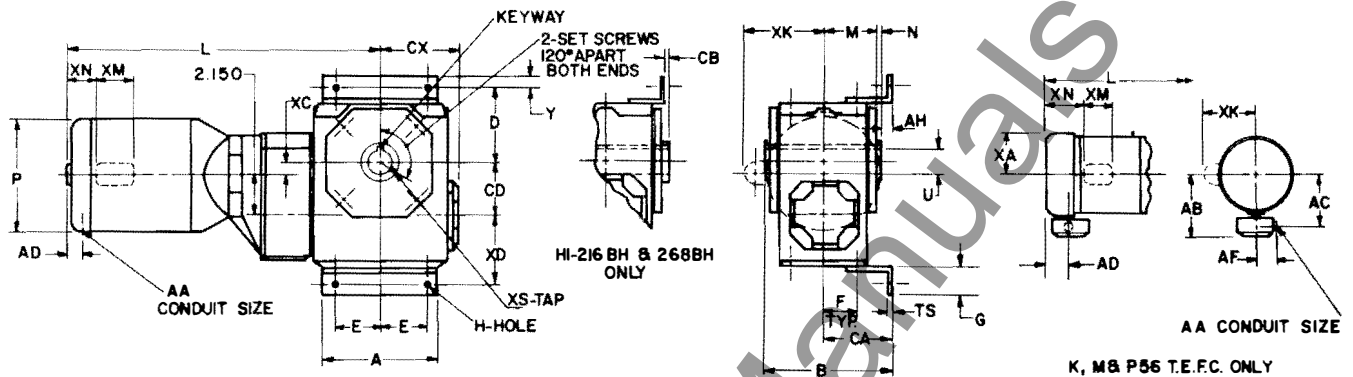
PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |          |       |  |
|----------|------------|-------------|-----------|----------------|----------|-------|--|
| Customer |            |             |           | Customer Order |          |       |  |
| G.O.     |            |             | Item No.  |                | Cat. No. |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz       | Volts |  |
| Assembly |            |             | Signed    |                |          | Date  |  |

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A**

 Helical Worm, Hollow Shaft  
Angle Brackets, Type H-BH

**Motor Frames 48-56**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A               | B               | D               | E               | F               | G               | H               | M               | N               | U*        | Y               | CA              | CB              | CD              | CX              | TS              | XC              | XD              | XS                  |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|
| H1-216BH   | 4 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | See Table | 1 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 0               | 3 $\frac{1}{2}$ | 1 $\frac{1}{4}$ -20 |
| H1-268BH   | 5 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2               | 3 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ |           | 3 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1 $\frac{1}{4}$ -20 |
| H2-300BH   | 6 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2               | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |           | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 3               | 4 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | 3 $\frac{1}{4}$ -18 |
| H2-350BH   | 7 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 2               | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |           | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{2}$ | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | 3 $\frac{1}{4}$ -18 |
| H3-400BH   | 8 $\frac{1}{4}$ | 8 $\frac{1}{4}$ | 6               | 3 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 3               | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ |           | 1 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 4               | 5 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 3 $\frac{1}{4}$ -16 |

TOLERANCES FOR ABOVE TABLE: \* +.002, -.000

NOTES FOR ABOVE TABLE: ● See drawing.

**MOTOR DIMENSIONS IN INCHES**

| MOTOR DIMENSIONS IN INCHES |     |     |                  |    |    |     |      |    |    |    |    |    |     |
|----------------------------|-----|-----|------------------|----|----|-----|------|----|----|----|----|----|-----|
| MOTOR<br>FRAME             | XK† | XM† | DRIPPROOF & TENV |    |    |     | TEFC |    |    |    |    |    |     |
|                            |     |     | P                | AA | AD | XN† | AA   | AB | AC | AD | AF | XA | XN† |
| H48                        | 5¼  | 4¾  | 5¼               | ½  | 1¾ | 1¾  | —    | —  | —  | —  | —  | —  | —   |
| 56                         | 5¼  | 3¾  | 6½               | ½  | 1¾ | 2   | —    | —  | —  | —  | —  | —  | —   |
| B56                        | 5¼  | 3¾  | 6½               | ½  | 1¾ | 2   | —    | —  | —  | —  | —  | —  | —   |
| K56                        | 5¼  | 3¾  | 6¾               | ½  | ¾  | 1¾  | ¾    | 5¾ | 4¾ | 2¾ | 1¾ | 3¾ | 3¾  |
| M56                        | 5¼  | 3¾  | 6¾               | ½  | ¾  | 1¾  | ¾    | 5¾ | 4¾ | 2¾ | 1¾ | 3¾ | 3¾  |
| P56                        | 5¼  | 3¾  | —                | —  | —  | —   | ¾    | 5¾ | 4¾ | 2¾ | 1¾ | 3¾ | 3¾  |

NOTES FOR ABOVE TABLE: †Capacitor for single phase only.

**GEARHEAD AND MOTOR "L" DIMENSIONS IN INCHES**

| FRAME  | DRIPPROOF & TENV |                  |                  |                  |                  | TEFC             |                  |                  |  |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
|        | H48              | 56               | B56              | K56              | M56              | K56              | M56              | P56              |  |
| H1-216 | 16 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{4}$ |  |
| H1-268 | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 20 $\frac{1}{4}$ |  |
| H2-300 | 17 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 20 $\frac{1}{4}$ | 20 $\frac{1}{4}$ |  |
| H2-350 | 17 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 20 $\frac{1}{4}$ | 21 $\frac{1}{4}$ |  |
| H3-400 | 18 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 18 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 20 $\frac{1}{4}$ | 21 $\frac{1}{4}$ | 21 $\frac{1}{4}$ |  |

**GEAR FRAME "U" AND KEYWAY DIMENSIONS IN INCHES**

| GEAR FRAME | 1.000 | 1.125 | 1.188 | 1.250 | 1.438 | —     | —     | —     |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| H1-216     | 1.000 | 1.125 | 1.188 | 1.250 | 1.438 | —     | —     | —     |
| H1-268     | 1.000 | 1.125 | 1.188 | 1.250 | 1.438 | —     | —     | —     |
| H2-300     | 1.250 | 1.438 | 1.500 | 1.688 | 1.938 | 2.000 | 2.188 | —     |
| H2-350     | 1.250 | 1.438 | 1.500 | 1.688 | 1.938 | 2.000 | 2.188 | —     |
| H3-400     | 1.250 | 1.438 | 1.500 | 1.688 | 1.938 | 2.000 | 2.188 | 2.500 |

TOLERANCES FOR TABLE ABOVE:

\* +.002, -.000

NOTES FOR TABLE ABOVE:

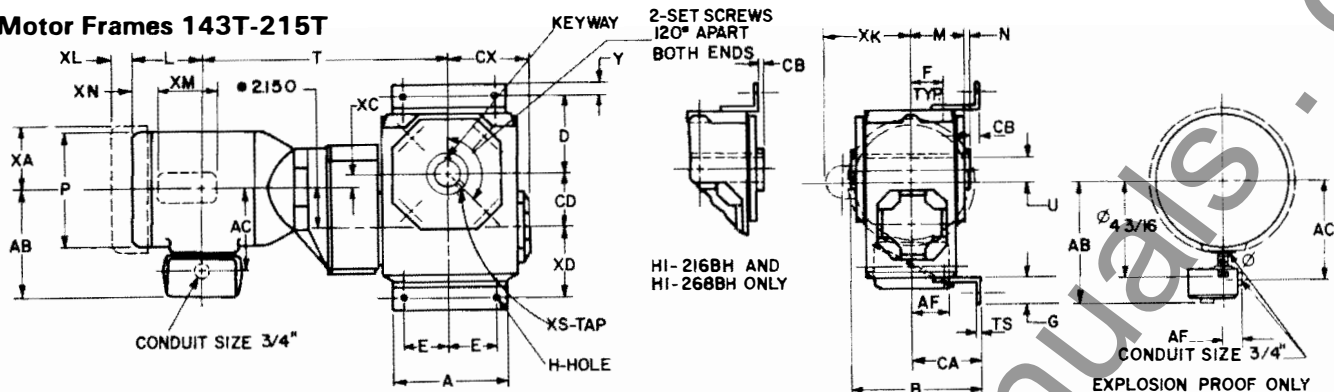
△ Key Size 3 $\frac{1}{4}$ x3 $\frac{1}{4}$ ● Key Size 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ ① Key Size 3 $\frac{1}{4}$ x1 $\frac{1}{2}$ 
**PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:**

|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             |           | Signed         |    | Date     |  |

 November, 1970  
 New Information  
 E, D/1781, 1782/DS; D/2431

**Spiraline® Right Angle  
Gearmotors Type A**

 Helical Worm, Hollow Shaft  
Angle Brackets, Type H-BH

**Motor Frames 143T-215T**

**GEARHEAD DIMENSIONS IN INCHES**

| GEAR FRAME | A                | B                | D               | E                | F               | G               | H              | M               | N             | U*        | Y               | CA              | CB             | CD              | CX              | TS             | XC              | XD              | XS                 |
|------------|------------------|------------------|-----------------|------------------|-----------------|-----------------|----------------|-----------------|---------------|-----------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|
| H1-216BH   | 4 $\frac{1}{16}$ | 5 $\frac{1}{16}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{16}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{1}{16}$ | 2 $\frac{1}{4}$ | $\frac{3}{8}$ | See Table | $\frac{1}{2}$   | 2 $\frac{1}{8}$ | $\frac{1}{16}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | $\frac{5}{16}$ | 0               | 3 $\frac{1}{2}$ | $\frac{1}{4}$ -20  |
| H1-268BH   | 5 $\frac{1}{8}$  | 5 $\frac{1}{8}$  | 4 $\frac{1}{2}$ | 2 $\frac{1}{2}$  | 1 $\frac{1}{2}$ | 2               | $\frac{1}{8}$  | 2 $\frac{1}{2}$ | $\frac{3}{8}$ |           | $\frac{3}{4}$   | 2 $\frac{1}{4}$ | $\frac{1}{8}$  | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | $\frac{5}{16}$ | $\frac{1}{2}$   | 3 $\frac{1}{2}$ | $\frac{1}{4}$ -20  |
| H2-300BH   | 6 $\frac{3}{4}$  | 7 $\frac{1}{8}$  | 4 $\frac{3}{4}$ | 2 $\frac{7}{8}$  | 2 $\frac{1}{4}$ | 2               | $\frac{9}{16}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |           | $\frac{3}{4}$   | 3 $\frac{1}{4}$ | $\frac{3}{16}$ | 3               | 4 $\frac{5}{8}$ | $\frac{5}{16}$ | 2 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | $\frac{5}{16}$ -18 |
| H2-350BH   | 7 $\frac{3}{8}$  | 7 $\frac{3}{8}$  | 5 $\frac{1}{4}$ | 3 $\frac{1}{8}$  | 2 $\frac{1}{2}$ | 2               | $\frac{1}{16}$ | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |           | $\frac{3}{4}$   | 3 $\frac{1}{4}$ | $\frac{3}{16}$ | 3 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | $\frac{5}{16}$ | 1 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | $\frac{5}{16}$ -18 |
| H3-400BH   | 8 $\frac{3}{8}$  | 8 $\frac{3}{8}$  | 6               | 3 $\frac{1}{2}$  | 1 $\frac{7}{8}$ | 3               | $\frac{1}{8}$  | 3 $\frac{3}{8}$ | $\frac{5}{8}$ |           | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{5}{8}$  | 4               | 5 $\frac{1}{8}$ | $\frac{1}{2}$  | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{5}{8}$ -16  |
| H4-400BH   | 8 $\frac{3}{8}$  | 8 $\frac{3}{8}$  | 6               | 3 $\frac{1}{2}$  | 1 $\frac{7}{8}$ | 3               | $\frac{1}{8}$  | 3 $\frac{3}{8}$ | $\frac{5}{8}$ |           | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{5}{8}$  | 4               | 5 $\frac{1}{8}$ | $\frac{1}{2}$  | 1 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{5}{8}$ -16  |

TOLERANCES FOR ABOVE TABLE: \*+.002, —.000

NOTES FOR ABOVE TABLE: ● See drawing. H4-400BH only — 2.500

**MOTOR DIMENSIONS IN INCHES**

| MOTOR FRAME | XA              | XK $\frac{1}{2}$ | XM $\frac{1}{2}$ | XN $\frac{1}{2}$ | DRIPPROOF, TENV & TEFC |                 |                 |                 |                 |                 | EXPLOSION PROOF |                  |                 |                  |                 |    |                 |                 |                 |
|-------------|-----------------|------------------|------------------|------------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|----|-----------------|-----------------|-----------------|
|             |                 |                  |                  |                  | Single & Three Phase   |                 |                 |                 |                 |                 | Three Phase     |                  |                 | Single Phase     |                 |    |                 |                 |                 |
|             |                 |                  |                  |                  | L                      | P               | XL              | AB              | AC              | AF              | L               | P                | XL              | AB               | AC              | AF | AB              | AC              | AF              |
| K143T       | 3 $\frac{3}{4}$ | 5 $\frac{1}{4}$  | 3 $\frac{3}{8}$  | 1 $\frac{1}{8}$  | 4 $\frac{1}{8}$        | 6 $\frac{5}{8}$ | 1 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 6 $\frac{3}{8}$  | 1 $\frac{1}{4}$ | 7 $\frac{1}{8}$  | 5 $\frac{1}{2}$ | 2  | 8               | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| M145T       | 3 $\frac{3}{4}$ | 5 $\frac{1}{4}$  | 3 $\frac{3}{8}$  | 1 $\frac{1}{8}$  | 4 $\frac{1}{8}$        | 6 $\frac{5}{8}$ | 1 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 6 $\frac{3}{8}$  | 1 $\frac{1}{4}$ | 7 $\frac{1}{8}$  | 5 $\frac{1}{2}$ | 2  | 8               | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| P143T       | 3 $\frac{3}{4}$ | 5 $\frac{1}{4}$  | 3 $\frac{3}{8}$  | 1 $\frac{1}{8}$  | 4 $\frac{1}{8}$        | 6 $\frac{5}{8}$ | 1 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | 6 $\frac{3}{8}$  | 1 $\frac{1}{4}$ | 7 $\frac{1}{8}$  | 5 $\frac{1}{2}$ | 2  | 8               | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| P145T       | 3 $\frac{3}{4}$ | 5 $\frac{1}{4}$  | 3 $\frac{3}{8}$  | 1 $\frac{1}{8}$  | 4 $\frac{1}{8}$        | 6 $\frac{5}{8}$ | 1 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 4 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | 6 $\frac{3}{8}$  | 1 $\frac{1}{4}$ | 7 $\frac{1}{8}$  | 5 $\frac{1}{2}$ | 2  | 8               | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| K182T       | 4 $\frac{1}{8}$ | 6 $\frac{3}{8}$  | 4 $\frac{1}{8}$  | 1 $\frac{1}{8}$  | 4 $\frac{1}{8}$        | 8 $\frac{1}{4}$ | 1 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 8 $\frac{1}{4}$  | 1 $\frac{1}{8}$ | 8 $\frac{1}{4}$  | 6 $\frac{3}{8}$ | 2  | 8 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| M184T       | 4 $\frac{1}{8}$ | 6 $\frac{3}{8}$  | 4 $\frac{1}{8}$  | 1 $\frac{1}{8}$  | 5 $\frac{1}{8}$        | 8 $\frac{1}{4}$ | 1 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 7 $\frac{1}{4}$ | 8 $\frac{1}{4}$  | 1 $\frac{1}{8}$ | 8 $\frac{1}{4}$  | 6 $\frac{3}{8}$ | 2  | 8 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| P182T       | 4 $\frac{1}{8}$ | 6 $\frac{3}{8}$  | 4 $\frac{1}{8}$  | 1 $\frac{1}{8}$  | 6                      | 8 $\frac{1}{4}$ | 1 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 7 $\frac{1}{4}$ | 8 $\frac{1}{4}$  | 1 $\frac{1}{8}$ | 8 $\frac{1}{4}$  | 6 $\frac{3}{8}$ | 2  | 8 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ |
| R184T       | 4 $\frac{1}{8}$ | 6 $\frac{3}{8}$  | 4 $\frac{1}{8}$  | 1 $\frac{1}{8}$  | 6 $\frac{3}{8}$        | 8 $\frac{1}{4}$ | 1 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | —               | —                | —               | —                | —               | —  | —               | —               | —               |
| K213T       | 5 $\frac{1}{8}$ | —                | —                | —                | 6 $\frac{1}{8}$        | 9 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 7 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 10 $\frac{3}{8}$ | 1 $\frac{1}{8}$ | 10 $\frac{3}{8}$ | 7 $\frac{1}{8}$ | 2  | —               | —               | —               |
| M215T       | 5 $\frac{1}{8}$ | —                | —                | —                | 6 $\frac{1}{8}$        | 9 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 7 $\frac{1}{8}$ | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | 10 $\frac{3}{8}$ | 1 $\frac{1}{8}$ | 10 $\frac{3}{8}$ | 7 $\frac{1}{8}$ | 2  | —               | —               | —               |

NOTES FOR ABOVE TABLE: ‡Capacitor for Drip-proof, TENV &amp; TEFC (not explosion proof) single phase only.

● TEFC only = 10%

○ Conduit box is optional on fractional HP explosion proof motors. (140T frame only)

**GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES**

| DRIPPROOF, TENV AND TEFC |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| FRAME                    | K143T            | M145T            | P143T            | P145T            | K182T            | M184T            | P182T            | R184T            | K213T            |
| H1-216                   | 12 $\frac{3}{8}$ | 13 $\frac{1}{8}$ | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | —                | —                | —                | —                | —                |
| H1-268                   | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | —                | —                | —                | —                | —                |
| H2-300                   | 13 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{3}{8}$ | —                | —                | —                | —                | —                |
| H2-350                   | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | —                | —                | —                | —                | —                |
| H3-400                   | 14 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | 15 $\frac{1}{8}$ | 15 $\frac{3}{8}$ | —                | —                | —                | —                | —                |
| H4-400                   | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 17               | 17 $\frac{1}{4}$ | 16 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 17 $\frac{3}{8}$ | 18 $\frac{3}{8}$ | 17 $\frac{3}{8}$ |
| EXPLOSION PROOF          |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| H1-216                   | 16 $\frac{1}{8}$ | 16 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | —                | —                | —                | —                | —                |
| H1-268                   | 17 $\frac{1}{8}$ | 17 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | —                | —                | —                | —                | —                |
| H2-300                   | 17 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 18 $\frac{3}{8}$ | —                | —                | —                | —                | —                |
| H2-350                   | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | 19 $\frac{1}{8}$ | —                | —                | —                | —                | —                |
| H3-400                   | 18 $\frac{1}{8}$ | 18 $\frac{1}{8}$ | 19 $\frac{1}{2}$ | 19 $\frac{3}{4}$ | —                | —                | —                | —                | —                |
| H4-400                   | 20 $\frac{1}{8}$ | 20 $\frac{1}{8}$ | 21 $\frac{1}{4}$ | 21 $\frac{1}{2}$ | 22 $\frac{3}{8}$ | 23 $\frac{1}{8}$ | 23 $\frac{1}{8}$ | —                | 24 $\frac{1}{8}$ |

NOTES FOR ABOVE TABLE: ■ Motor and Gearhead are "C" flange construction with flexible coupling.

Add "C" to motor and gear frame. Example — K143TC-H1C-216.

**PRELIMINARY** ☐ **CERTIFIED** ☐ **PRINT FOR:**

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

**Westinghouse Electric Corporation**

Medium Ac Motor and Gearing Division, Buffalo, N. Y. 14240

Printed in USA

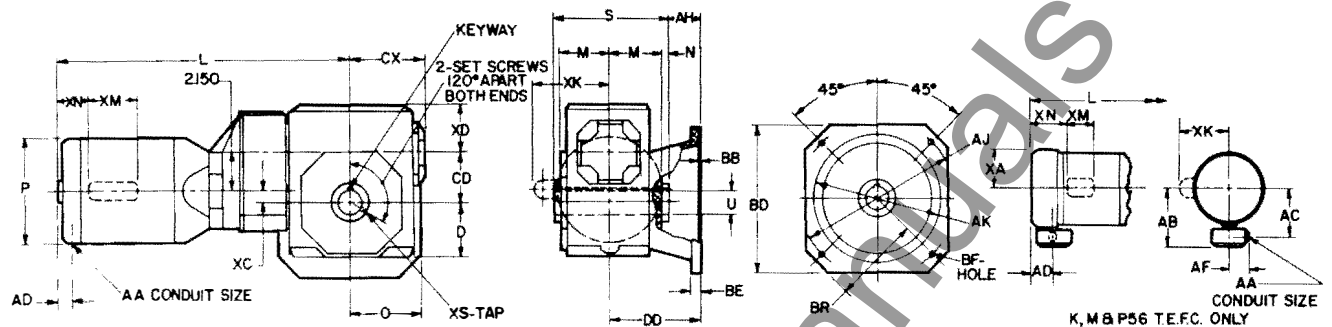
Westinghouse



## Spiraline® Right Angle Gearmotors Type A

Helical Worm, Hollow Shaft  
Ring Base, Type H-RH

## Motor Frames 48-56



GEARHEAD DIMENSIONS IN INCHES

| GEAR FRAME | O                             | M                             | N                             | O                             | S                             | U         | AH                            | AJ                             | AK*    | BB                            | BD                             | BE                            | BF                            | BR                            | CD                             | CX                            | DD                            | XC                                | XD                                | XS                                |
|------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------|-------------------------------|--------------------------------|--------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| H1-216RH   | 2 <sup>1</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>4</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>4</sub> | See Table | 1 <sup>1</sup> / <sub>8</sub> | 6 <sup>7</sup> / <sub>8</sub>  | 6.000  | 3 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>8</sub> | 2 <sup>3</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>4</sub> | 0                                 | 2 <sup>3</sup> / <sub>8</sub>     | 1 <sup>1</sup> / <sub>4</sub> -20 |
| H1-268RH   | 3 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>2</sub> | 5 <sup>3</sup> / <sub>4</sub> |           | 1 <sup>1</sup> / <sub>2</sub> | 7 <sup>3</sup> / <sub>8</sub>  | 6.500  | 3 <sup>1</sup> / <sub>2</sub> | 7                              | 3 <sup>1</sup> / <sub>2</sub> | 4 <sup>3</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>2</sub> | 4 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> -20 | 2 <sup>3</sup> / <sub>8</sub>     | 1 <sup>1</sup> / <sub>4</sub> -20 |
| H2-300RH   | 3 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>3</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>8</sub> |           | 2 <sup>3</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>8</sub>  | 8.250  | 3 <sup>1</sup> / <sub>2</sub> | 8 <sup>3</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3                              | 4 <sup>3</sup> / <sub>8</sub> | 5 <sup>3</sup> / <sub>4</sub> | 3                                 | 3 <sup>1</sup> / <sub>8</sub> -18 | 3 <sup>1</sup> / <sub>8</sub> -18 |
| H2-350RH   | 4                             | 3 <sup>1</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>8</sub> | 7 <sup>1</sup> / <sub>8</sub> |           | 2 <sup>3</sup> / <sub>8</sub> | 10 <sup>3</sup> / <sub>4</sub> | 9.750  | 3 <sup>1</sup> / <sub>2</sub> | 10 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> | 6                             | 6                             | 3 <sup>1</sup> / <sub>2</sub>  | 5 <sup>1</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>8</sub> | 3                                 | 3 <sup>1</sup> / <sub>8</sub> -18 | 3 <sup>1</sup> / <sub>8</sub> -18 |
| H3-400RH   | 4 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>8</sub> | 5 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub> | 8                             |           | 2 <sup>3</sup> / <sub>8</sub> | 11 <sup>1</sup> / <sub>2</sub> | 10.250 | 3 <sup>1</sup> / <sub>2</sub> | 11                             | 2                             | 6 <sup>1</sup> / <sub>2</sub> | 6 <sup>1</sup> / <sub>2</sub> | 4                              | 5 <sup>1</sup> / <sub>8</sub> | 6 <sup>1</sup> / <sub>8</sub> | 3                                 | 3 <sup>1</sup> / <sub>8</sub> -16 | 3 <sup>1</sup> / <sub>8</sub> -16 |

TOLERANCES FOR TABLE ABOVE:

\* .003, — .000

MOTOR DIMENSIONS IN INCHES

| MOTOR FRAME | XK†                           | XM†                           | DRIIPROOF & TENV              |                               |                               |                               | TEFC                          |                               |                               |                                |                               |                               |                               |
|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|
|             |                               |                               | P                             | AA                            | AD                            | XN†                           | AA                            | AB                            | AC                            | AD                             | AF                            | XA                            | XN†                           |
| H48         | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 5 <sup>3</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | —                             | —                             | —                             | —                              | —                             | —                             | —                             |
| 56          | 5 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>4</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2                             | —                             | —                             | —                             | —                              | —                             | —                             | —                             |
| B56         | 5 <sup>3</sup> / <sub>8</sub> | 3 <sup>3</sup> / <sub>4</sub> | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 2                             | —                             | —                             | —                             | —                              | —                             | —                             | —                             |
| K56         | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>4</sub> | 6 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>8</sub> |
| M56         | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>4</sub> | 6 <sup>3</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>8</sub> |
| P56         | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>3</sup> / <sub>4</sub> | —                             | —                             | —                             | —                             | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>8</sub> | 2 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>8</sub> | 3 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>8</sub> |

NOTES FOR ABOVE TABLE:

†Capacitor for single phase only.

GEARHEAD AND MOTOR "U" DIMENSIONS IN INCHES

| FRAME  | DRIIPROOF & TENV               |                                |                                |                                |                                | TEFC                           |                                |                                |  |
|--------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|
|        | H48                            | 56                             | B56                            | K56                            | M56                            | K56                            | M56                            | P56                            |  |
| H1-216 | 16 <sup>3</sup> / <sub>8</sub> | 16 <sup>3</sup> / <sub>8</sub> | 17 <sup>3</sup> / <sub>8</sub> | 16 <sup>3</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>4</sub> | 19 <sup>1</sup> / <sub>4</sub> | 19 <sup>1</sup> / <sub>4</sub> |  |
| H1-268 | 16 <sup>3</sup> / <sub>4</sub> | 17 <sup>3</sup> / <sub>8</sub> | 17 <sup>3</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>2</sub> | 18 <sup>1</sup> / <sub>2</sub> | 18 <sup>3</sup> / <sub>8</sub> | 19 <sup>3</sup> / <sub>8</sub> | 20 <sup>3</sup> / <sub>8</sub> |  |
| H2-300 | 17 <sup>3</sup> / <sub>8</sub> | 17 <sup>3</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>8</sub> | 19 <sup>3</sup> / <sub>8</sub> | 19 <sup>3</sup> / <sub>8</sub> | 20 <sup>3</sup> / <sub>8</sub> | 20 <sup>3</sup> / <sub>8</sub> |  |
| H2-350 | 17 <sup>3</sup> / <sub>4</sub> | 18 <sup>3</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>8</sub> | 19 <sup>3</sup> / <sub>8</sub> | 19 <sup>3</sup> / <sub>8</sub> | 20 <sup>3</sup> / <sub>8</sub> | 21 <sup>3</sup> / <sub>8</sub> |  |
| H3-400 | 18 <sup>1</sup> / <sub>4</sub> | 18 <sup>3</sup> / <sub>4</sub> | 19 <sup>1</sup> / <sub>4</sub> | 18 <sup>3</sup> / <sub>4</sub> | 19 <sup>3</sup> / <sub>4</sub> | 20 <sup>3</sup> / <sub>4</sub> | 21 <sup>3</sup> / <sub>4</sub> | 21 <sup>3</sup> / <sub>4</sub> |  |

GEAR FRAME "U" AND KEYWAY DIMENSIONS IN INCHES

| GEAR FRAME | 1.000                                                         | 1.125                                                         | 1.188                                                         | 1.250                                                         | 1.438                                                         | —                                                             | —                                                             | —                                                             |
|------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| H1-216     | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | —                                                             | —                                                             | —                                                             |
| H1-268     | 1.000                                                         | 1.125                                                         | 1.188                                                         | 1.250                                                         | 1.438                                                         | —                                                             | —                                                             | —                                                             |
|            | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | —                                                             | —                                                             | —                                                             |
| H2-300     | 1.250                                                         | 1.438                                                         | 1.500                                                         | 1.688                                                         | 1.938                                                         | 2.000                                                         | 2.188                                                         | —                                                             |
|            | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | —                                                             |
| H2-350     | 1.250                                                         | 1.438                                                         | 1.500                                                         | 1.688                                                         | 1.938                                                         | 2.000                                                         | 2.188                                                         | —                                                             |
|            | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | —                                                             |
| H3-400     | 1.250                                                         | 1.438                                                         | 1.500                                                         | 1.688                                                         | 1.938                                                         | 2.000                                                         | 2.188                                                         | 2.500                                                         |
|            | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> |

TOLERANCES FOR TABLE ABOVE:

\* +.002, — .000

NOTES FOR TABLE ABOVE:

ΔKey Size 3<sup>1</sup>/<sub>8</sub> x 3<sup>1</sup>/<sub>8</sub>●Key Size 1<sup>1</sup>/<sub>2</sub> x 1<sup>1</sup>/<sub>2</sub>⊙Key Size 3<sup>1</sup>/<sub>8</sub> x 1<sup>1</sup>/<sub>2</sub>PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

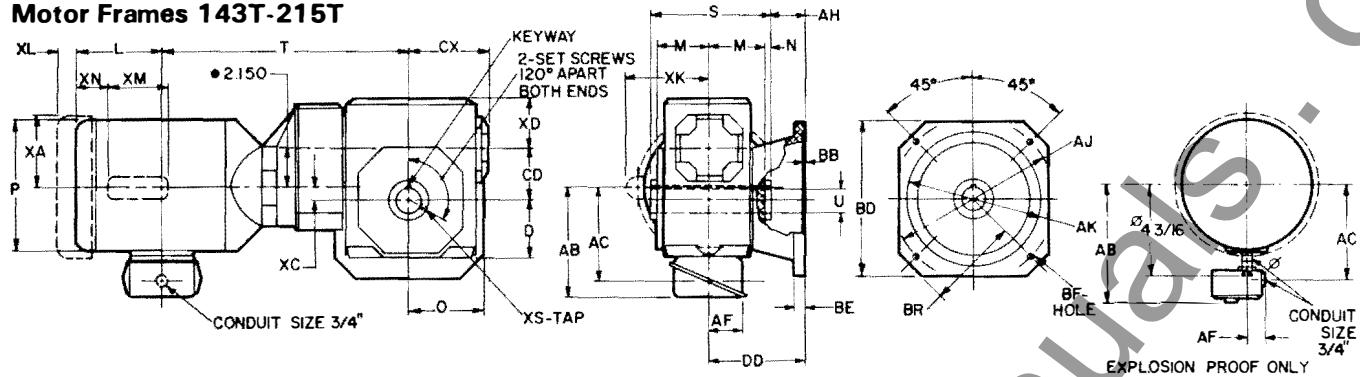
|          |            |             |           |                |    |          |  |
|----------|------------|-------------|-----------|----------------|----|----------|--|
| Customer |            |             |           | Customer Order |    |          |  |
| G.O.     |            |             |           | Item No.       |    | Cat. No. |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts    |  |
| Assembly |            |             |           | Signed         |    | Date     |  |

November, 1970  
New Information  
E, D/1781, 1782/DS; D/2431

# Spiraline® Right Angle Gearmotors Type A

Helical Worm, Hollow Shaft  
Ring Base, Type H-RH

## Motor Frames 143T-215T



GEARHEAD DIMENSIONS IN INCHES

| GEAR FRAME | D     | M     | N   | O     | S     | U         | AH      | AJ     | AK*    | BB  | BO     | BE     | BF   | BR     | CD      | CX      | OO     | XC    | XD     | XS       |
|------------|-------|-------|-----|-------|-------|-----------|---------|--------|--------|-----|--------|--------|------|--------|---------|---------|--------|-------|--------|----------|
| H1-216RN   | 2 5/8 | 2 1/4 | 3/8 | 3 1/4 | 5 1/4 | See Table | 1 5/8   | 6 7/8  | 6.000  | 3/8 | 6 1/2  | 1/2    | 3/8  | 3 3/4  | 2 3/4   | 3 3/4   | 4 1/4  | 0     | 2 3/8  | 1 1/4-20 |
| H1-268RH   | 3 1/4 | 2 1/2 | 3/8 | 3 1/2 | 5 3/4 |           | 1 11/16 | 7 3/8  | 6.500  | 3/8 | 7      | 3/8    | 1/2  | 4 3/16 | 2 11/16 | 3 11/16 | 4 3/16 | 7/32  | 2 1/16 | 1/4-20   |
| H2-300RH   | 3 1/2 | 3 3/8 | 1/2 | 4 3/8 | 7 1/8 |           | 2 3/16  | 9 3/8  | 8.250  | 3/8 | 8 3/4  | 1 1/16 | 5/16 | 5 1/4  | 3       | 4 3/8   | 5 3/4  | 2 1/2 | 3      | 5/8-18   |
| H2-350RH   | 4     | 3 3/8 | 1/2 | 5 1/8 | 7 1/8 |           | 2 3/8   | 10 3/4 | 9.750  | 3/8 | 10 1/4 | 1 1/8  | 5/16 | 6      | 3 1/2   | 5 1/8   | 5 3/8  | 1 1/2 | 3      | 5/8-18   |
| H3-400RH   | 4 1/2 | 3 3/4 | 5/8 | 5 1/2 | 8     |           | 2 3/8   | 11 1/2 | 10.250 | 3/8 | 11     | 3/8    | 5/16 | 6 1/2  | 4       | 5 3/8   | 6 1/8  | 1 1/2 | 3      | 5/8-16   |
| H4-400RH   | 4 1/2 | 3 3/8 | 5/8 | 5 1/2 | 8     |           | 2 3/8   | 11 1/2 | 10.250 | 3/8 | 11     | 3/8    | 5/16 | 6 1/2  | 4       | 5 3/8   | 6 1/8  | 1 1/2 | 3      | 5/8-16   |

TOLERANCES FOR TABLE ABOVE: \*+0.003, —0.000

NOTES FOR TABLE ABOVE: ● H4-400RH only — 2.500

MOTOR DIMENSIONS IN INCHES

| MOTOR FRAME | XA    | XK‡   | XM‡   | XN‡   | ORIPROOF, TENV & TEFC |         |       |       |       |       | EXPLOSION PROOF Ø |        |       |              |       |    |       |       |       |
|-------------|-------|-------|-------|-------|-----------------------|---------|-------|-------|-------|-------|-------------------|--------|-------|--------------|-------|----|-------|-------|-------|
|             |       |       |       |       | Single & Three Phase  |         |       |       |       |       | Three Phase       |        |       | Single Phase |       |    |       |       |       |
|             |       |       |       |       | L                     | P       | XL    | AB    | AC    | AF    | L                 | P      | XL    | AB           | AC    | AF | AB    | AC    | AF    |
| K143T       | 3 3/4 | 5 1/4 | 3 3/8 | 1 3/8 | 4 3/8                 | 6 3/8   | 1 1/4 | 6 1/8 | 4 3/8 | 1 3/8 | 5 3/8             | 6 3/8  | 1 1/4 | 7 1/8        | 5 1/2 | 2  | 8     | 5 1/8 | 3 3/8 |
| M145T       | 3 3/4 | 5 1/4 | 3 3/8 | 1 3/8 | 4 11/16               | 6 5/8   | 1 1/4 | 6 1/8 | 4 3/8 | 1 3/8 | 5 3/8             | 6 3/8  | 1 1/4 | 7 1/8        | 5 1/2 | 2  | 8     | 5 1/8 | 3 3/8 |
| P143T       | 3 3/4 | 5 1/4 | 3 3/8 | 1 3/8 | 4 11/16               | 6 5/8   | 1 1/4 | 6 1/8 | 4 3/8 | 1 3/8 | 6 3/8             | 6 3/8  | 1 1/4 | 7 1/8        | 5 1/2 | 2  | 8     | 5 1/8 | 3 3/8 |
| R145T       | 3 3/4 | 5 1/4 | 3 3/8 | 1 3/8 | 5 3/8                 | 6 3/8   | 1 1/4 | 6 1/8 | 4 3/8 | 1 3/8 | 6 3/8             | 6 3/8  | 1 1/4 | 7 1/8        | 5 1/2 | 2  | 8     | 5 1/8 | 3 3/8 |
| K182T       | 4 3/8 | 6 3/8 | 4 1/8 | 1 3/8 | 4 11/16               | 8 3/4   | 1 1/8 | 6 3/8 | 5 3/8 | 1 3/8 | 6 3/8             | 8 3/4  | 1 1/8 | 8 3/4        | 6 3/8 | 2  | 8 3/8 | 5 3/8 | 3 3/8 |
| M184T       | 4 3/8 | 6 3/8 | 4 1/8 | 1 3/8 | 5 3/8                 | 8 3/4   | 1 1/8 | 6 3/8 | 5 3/8 | 1 3/8 | 7 1/4             | 8 3/4  | 1 1/8 | 8 3/4        | 6 3/8 | 2  | 8 3/8 | 5 3/8 | 3 3/8 |
| P182T       | 4 3/8 | 6 3/8 | 4 1/8 | 1 3/8 | 6                     | 8 3/4   | 1 1/8 | 6 3/8 | 5 3/8 | 1 3/8 | 7 1/4             | 8 3/4  | 1 1/8 | 8 3/4        | 6 3/8 | 2  | 8 3/8 | 5 3/8 | 3 3/8 |
| R184T       | 4 3/8 | 6 3/8 | 4 1/8 | 1 3/8 | 6 3/8                 | 8 3/4   | 1 1/8 | 6 3/8 | 5 3/8 | 1 3/8 | —                 | —      | —     | —            | —     | —  | —     | —     | —     |
| K213T       | 5 3/8 | —     | —     | —     | 6 3/8                 | 9 1/8 ● | 1 3/8 | 7 3/8 | 5 3/8 | 1 3/8 | 5 3/8             | 10 3/8 | 1 3/8 | 10 3/8       | 7 3/8 | 2  | —     | —     | —     |
| M215T       | 5 3/8 | —     | —     | —     | 6 3/8                 | 9 1/8 ● | 1 3/8 | 7 3/8 | 5 3/8 | 1 3/8 | 6 3/8             | 10 3/8 | 1 3/8 | 10 3/8       | 7 3/8 | 2  | —     | —     | —     |

NOTES FOR ABOVE TABLE: ‡Capacitor for Dripproof, TENV & TEFC (not explosion proof) single phase only.

ØConduit box is optional on fractional HP explosion proof motors. (140T frame only)

● TEFC only — 10%

GEARHEAD AND MOTOR "T" DIMENSIONS IN INCHES

| DRIPPROOF, TENV AND TEFC |        |          |        |        |        |        |        |        |        |        |
|--------------------------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| FRAME                    | K143T  | M145T    | P143T  | R145T  | K182T  | M184T  | P182T  | R184T  | K213T  | M215T  |
| H1-216                   | 12 5/8 | 13 3/8   | 13 3/8 | 13 3/8 | —      | —      | —      | —      | —      | —      |
| H1-268                   | 13 3/8 | 13 3/8   | 13 3/8 | 14 3/8 | —      | —      | —      | —      | —      | —      |
| H2-300                   | 13 3/4 | 14 1/4   | 14 1/2 | 14 3/4 | —      | —      | —      | —      | —      | —      |
| H2-350                   | 14 3/8 | 14 11/16 | 14 3/8 | 15 3/8 | —      | —      | —      | —      | —      | —      |
| H3-400                   | 14 3/8 | 15 3/8   | 15 3/8 | 15 3/8 | —      | —      | —      | —      | —      | —      |
| H4-400                   | 16 3/4 | 16 3/4   | 17     | 17 1/4 | 16 3/8 | 17 3/8 | 17 3/4 | 18 3/8 | 17 3/8 | 17 3/8 |
| EXPLOSION PROOF          |        |          |        |        |        |        |        |        |        |        |
| H1-216                   | 16 3/8 | 16 3/8   | 17 3/8 | 17 3/8 | —      | —      | —      | —      | —      | —      |
| H1-268                   | 17 3/8 | 17 1/2   | 18 3/8 | 18 3/8 | —      | —      | —      | —      | —      | —      |
| H2-300                   | 17 3/4 | 18 3/8   | 18 3/8 | 18 3/8 | —      | —      | —      | —      | —      | —      |
| H2-350                   | 18 3/8 | 18 1/2   | 19 3/8 | 19 3/8 | —      | —      | —      | —      | —      | —      |
| H3-400                   | 18 3/8 | 18 3/8   | 19 3/8 | 19 3/8 | —      | —      | —      | —      | —      | —      |
| H4-400                   | 20 3/8 | 20 3/8   | 21 1/4 | 21 1/2 | 22 3/8 | 23 3/8 | 23 3/8 | —      | 24 3/8 | 24 3/8 |

NOTES FOR ABOVE TABLE: ■ Motor and Gearhead are "C" flange construction with flexible coupling. Add "C" to motor and gear frame. Example — K143TC-H1C-216.

GEAR FRAME "U" AND KEYWAY DIMENSIONS IN INCHES

| GEAR FRAME      | 1.000     | 1.125     | 1.188     | 1.250     | 1.438     | —         | —           | —             |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|---------------|
| H1-216          | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/8 | 3/8 x 1/8 | —         | —           | —             |
| H1-268          | 1.000     | 1.125     | 1.188     | 1.250     | 1.438     | —         | —           | —             |
|                 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/8 | 3/8 x 1/8 | —         | —           | —             |
| H2-300          | 1.250     | 1.438     | 1.500     | 1.688     | 1.938     | 2.000     | 2.188       | —             |
|                 | 1/4 x 1/8 | 3/8 x 3/8 | 3/8 x 3/8 | 3/8 x 3/8 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/4 ● | —             |
| H2-350          | 1.250     | 1.438     | 1.500     | 1.688     | 1.938     | 2.000     | 2.188       | —             |
|                 | 1/4 x 1/8 | 3/8 x 3/8 | 3/8 x 3/8 | 3/8 x 3/8 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/4 ● | —             |
| H3-400 & H4-400 | 1.250     | 1.438     | 1.500     | 1.688     | 1.938     | 2.000     | 2.188       | 2.500         |
|                 | 1/4 x 1/8 | 3/8 x 3/8 | 3/8 x 3/8 | 3/8 x 3/8 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/4   | 5/8 x 3/8 (†) |

TOLERANCES FOR TABLE ABOVE: \*+0.002, —0.000

NOTES FOR TABLE ABOVE:

Δ Key Size 3/8 x 3/8

● Key Size 1/2 x 3/8

† Key Size 5/8 x 1/2

PRELIMINARY ☐ CERTIFIED ☐ PRINT FOR:

|          |            |             |           |                |    |       |  |
|----------|------------|-------------|-----------|----------------|----|-------|--|
| Customer |            |             |           | Customer Order |    |       |  |
| G.O.     |            | Item No.    |           | Cat. No.       |    |       |  |
| Hp.      | Output Rpm | Class /S.F. | Motor Rpm | Freq.          | Hz | Volts |  |
| Assembly |            |             | Signed    |                |    | Date  |  |

Westinghouse Electric Corporation

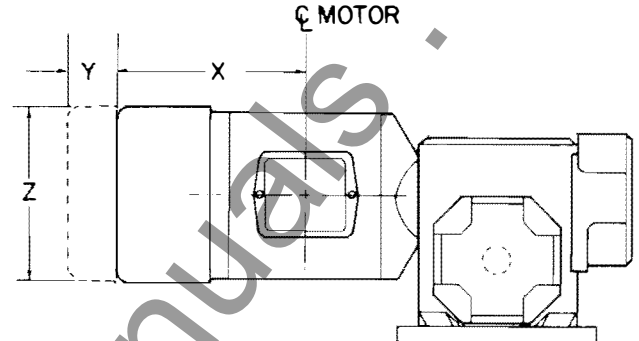
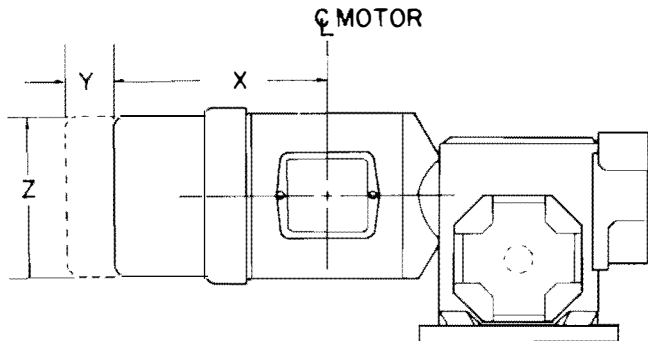
Medium AC Motor and Gearing Division, Buffalo, N. Y. 14240

Printed in USA

Westinghouse


**Spiraline® Right Angle  
Gearmotors Type A with  
Motor Mounted Disc Brakes**

 Single and Helical Worm  
Solid and Hollow Shaft

**Motor Frames 143T-215T**


| MOTOR<br>FRAME<br>SIZE | DRIPPROOF, TENV OR TEFC MOTORS                                              |                 |                                            |                         |                  |                           |                  |                      |                  |                           |                  |                                            | EXPLOSION PROOF MOTORS     |                  |                 |                 |                  |                  |                        |                  |                  |
|------------------------|-----------------------------------------------------------------------------|-----------------|--------------------------------------------|-------------------------|------------------|---------------------------|------------------|----------------------|------------------|---------------------------|------------------|--------------------------------------------|----------------------------|------------------|-----------------|-----------------|------------------|------------------|------------------------|------------------|------------------|
|                        | BRAKE<br>TORQUE<br>FT.-LB.                                                  | "Z"<br>DIM.     | "Y" DIMENSION                              |                         | "X" DIMENSION    |                           |                  |                      |                  |                           |                  |                                            | BRAKE<br>TORQUE<br>FT.-LB. | "Z"<br>DIM.      | "Y" DIMENSION   |                 | "X" DIMENSION    |                  |                        |                  |                  |
|                        |                                                                             |                 | (Clearance<br>required to<br>remove cover) | DRIPPROOF OR TENV MOTOR |                  |                           |                  | TEFC MOTOR           |                  |                           |                  | (Clearance<br>required to<br>remove cover) |                            |                  | TENV            |                 | TEFC             |                  |                        |                  |                  |
|                        |                                                                             |                 |                                            | WITH NEMA 1<br>BRAKE    |                  | WITH NEMA 4<br>OR 5 BRAKE |                  | WITH NEMA 1<br>BRAKE |                  | WITH NEMA 4<br>OR 5 BRAKE |                  |                                            |                            |                  |                 |                 |                  |                  | WITH NEMA 7 OR 9 BRAKE |                  |                  |
|                        |                                                                             |                 |                                            | Dings                   | Stearns          | Dings                     | Stearns          | Dings                | Stearns          | Dings                     | Stearns          |                                            |                            |                  | Dings           | Stearns         | Dings            | Stearns          |                        |                  | Dings            |
| 56                     | 140T Series frame will be substituted when motor mounted brake is required. |                 |                                            |                         |                  |                           |                  |                      |                  |                           |                  |                                            |                            |                  |                 |                 |                  |                  |                        |                  |                  |
| K143T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 9 $\frac{1}{2}$  | 8 $\frac{1}{2}$           | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$      | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 10 $\frac{3}{8}$                           | 1.5, 3                     | 8                | 3 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 13               | 11 $\frac{1}{8}$ | 15                     | 13 $\frac{1}{4}$ |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 9 $\frac{1}{2}$  | 9 $\frac{1}{4}$           | 10 $\frac{1}{4}$ | 9 $\frac{1}{4}$      | 10 $\frac{1}{4}$ | 10 $\frac{3}{8}$          | 11               | 11 $\frac{1}{8}$                           | 11 $\frac{1}{8}$           | 6                | 8               | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$  | 13 $\frac{1}{2}$ | 12                     | 15 $\frac{1}{2}$ | 14               |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 9 $\frac{1}{2}$  | 10                        | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 10 $\frac{1}{4}$ | 10 $\frac{3}{8}$          | 11 $\frac{1}{8}$ | 11 $\frac{1}{8}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 13 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 15 $\frac{1}{2}$       | 14 $\frac{1}{2}$ | 14 $\frac{1}{2}$ |
| M145T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$           | 10 $\frac{1}{4}$ | 10                   | 10 $\frac{1}{4}$ | 10 $\frac{3}{8}$          | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$                           | 1.5, 3                     | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 12               | 15 $\frac{3}{8}$       | 14               |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10               | 10 $\frac{1}{4}$          | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 11 $\frac{1}{4}$ | 11 $\frac{1}{2}$          | 12 $\frac{1}{4}$ | 11 $\frac{1}{4}$                           | 6                          | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 12 $\frac{1}{2}$ | 15 $\frac{3}{8}$       | 14 $\frac{1}{2}$ |                  |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10               | 10 $\frac{1}{2}$          | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 11 $\frac{1}{2}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 12 $\frac{1}{2}$ | 16 $\frac{1}{8}$       | 14 $\frac{1}{2}$ | 14 $\frac{1}{2}$ |
| P143T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$           | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 10 $\frac{3}{8}$ | 11 $\frac{1}{4}$                           | 1.5, 3                     | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 13 $\frac{3}{8}$ | 12 $\frac{1}{2}$ | 15 $\frac{3}{8}$       | 14 $\frac{1}{2}$ |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 11               | 10 $\frac{1}{2}$     | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$                           | 6                          | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 12 $\frac{1}{2}$ | 16 $\frac{1}{8}$       | 14 $\frac{1}{2}$ | 14 $\frac{1}{2}$ |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 11               | 10 $\frac{1}{4}$     | 11 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 13 $\frac{1}{4}$ | 16 $\frac{1}{8}$       | 15 $\frac{1}{4}$ | 14 $\frac{1}{2}$ |
| R145T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 9 $\frac{1}{2}$           | 10 $\frac{1}{4}$ | 10 $\frac{1}{2}$     | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 11 $\frac{3}{8}$                           | 1.5, 3                     | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 12 $\frac{1}{2}$ | 16 $\frac{1}{8}$       | 14 $\frac{1}{2}$ |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{2}$ | 10 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 11 $\frac{1}{4}$ | 12                        | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$                           | 6                          | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 13 $\frac{1}{4}$ | 16 $\frac{1}{8}$       | 15 $\frac{1}{4}$ | 14 $\frac{1}{2}$ |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{2}$ | 11                        | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$     | 11 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 14 $\frac{1}{8}$ | 13 $\frac{1}{2}$ | 16 $\frac{1}{8}$       | 15 $\frac{1}{2}$ | 14 $\frac{1}{2}$ |
| K182T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$           | 10 $\frac{1}{4}$ | 9 $\frac{1}{4}$      | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 12 $\frac{1}{4}$                           | 1.5, 3                     | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 16 $\frac{1}{8}$       | 15 $\frac{1}{4}$ |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$           | 10 $\frac{1}{4}$ | 9 $\frac{1}{4}$      | 10 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$                           | 6                          | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 17 $\frac{1}{8}$       | 15 $\frac{1}{2}$ |                  |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 9 $\frac{1}{4}$  | 10 $\frac{1}{4}$          | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 10 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 17 $\frac{1}{8}$       | 16 $\frac{1}{8}$ |                  |
| M184T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 9 $\frac{1}{4}$  | 9 $\frac{1}{4}$           | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 10 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 11 $\frac{3}{8}$ | 12 $\frac{3}{8}$                           | 1.5, 3                     | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 17 $\frac{1}{8}$       | 16 $\frac{1}{8}$ |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 10 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 13 $\frac{1}{4}$                           | 6                          | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 18                     | 16 $\frac{1}{8}$ |                  |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$     | 10 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 18 $\frac{1}{8}$       | 16 $\frac{1}{8}$ |                  |
| P182T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 10 $\frac{3}{8}$     | 12 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$                           | 1.5, 3                     | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 18 $\frac{1}{8}$       | 16 $\frac{1}{8}$ |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{3}{8}$          | 11 $\frac{1}{4}$ | 10 $\frac{3}{8}$     | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$          | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$                           | 6                          | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 18 $\frac{1}{2}$       | 17 $\frac{1}{8}$ |                  |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$     | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$          | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$                           | 9, 10, 15                  | 8                | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | —                | —                | 18 $\frac{1}{2}$       | 17 $\frac{1}{8}$ |                  |
| R184T                  | 1.5, 3, 6                                                                   | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ Ⓢ                          | 3 $\frac{1}{4}$         | 10 $\frac{1}{4}$ | 10 $\frac{1}{4}$          | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$     | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$          | 14 $\frac{1}{4}$ | 13 $\frac{1}{4}$                           | 1.5, 3                     | 8                | —               | —               | —                | —                | —                      | —                |                  |
|                        | 9, 10                                                                       | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 11 $\frac{1}{4}$ | 11 $\frac{1}{2}$          | 12 $\frac{1}{4}$ | 11 $\frac{1}{4}$     | 13 $\frac{1}{4}$ | 13 $\frac{1}{4}$          | 14 $\frac{1}{2}$ | 14                                         | 6                          | 8                | —               | —               | —                | —                | —                      | —                |                  |
|                        | 15                                                                          | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$                            | 3 $\frac{1}{4}$         | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 12 $\frac{1}{4}$ | 11 $\frac{1}{4}$     | 13 $\frac{1}{4}$ | 14 $\frac{1}{4}$          | 14 $\frac{1}{2}$ | 14 $\frac{1}{4}$                           | 9, 10, 15                  | 8                | —               | —               | —                | —                | —                      | —                |                  |
| 213T                   | 15                                                                          | 9 $\frac{3}{8}$ | 4 $\frac{1}{4}$                            | 4 $\frac{1}{4}$         | 12 $\frac{1}{4}$ | 11 $\frac{1}{4}$          | 13               | 14 $\frac{3}{4}$     | 14 $\frac{1}{4}$ | 13 $\frac{1}{4}$          | 14 $\frac{3}{8}$ | 16 $\frac{1}{8}$                           | 15                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 18 $\frac{1}{2}$       | 17 $\frac{1}{8}$ |                  |
|                        | 25, 35                                                                      | 9 $\frac{3}{8}$ | 4 $\frac{1}{4}$                            | 4 $\frac{1}{4}$         | 13 $\frac{1}{4}$ | 14 $\frac{1}{4}$          | 13 $\frac{1}{4}$ | 14 $\frac{3}{4}$     | 15 $\frac{1}{4}$ | 16 $\frac{1}{4}$          | 15 $\frac{1}{2}$ | 16 $\frac{1}{4}$                           | 25                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 19 $\frac{1}{2}$       | 17 $\frac{1}{8}$ |                  |
|                        | 50                                                                          | 9 $\frac{3}{8}$ | 4 $\frac{1}{4}$                            | 4 $\frac{1}{4}$         | 13 $\frac{1}{4}$ | 14 $\frac{1}{4}$          | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$     | 15 $\frac{3}{8}$ | 16 $\frac{1}{4}$          | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$                           | 35                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 20                     | 17 $\frac{1}{8}$ |                  |
| 215T                   | 15                                                                          | 9 $\frac{3}{8}$ | 4 $\frac{1}{4}$                            | 4 $\frac{1}{4}$         | 13 $\frac{1}{4}$ | 12 $\frac{1}{4}$          | 13 $\frac{3}{4}$ | 15 $\frac{1}{2}$     | 15 $\frac{1}{4}$ | 14 $\frac{1}{4}$          | 15 $\frac{5}{8}$ | 17 $\frac{3}{8}$                           | 15                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 19 $\frac{1}{2}$       | 17 $\frac{1}{8}$ |                  |
|                        | 25, 35                                                                      | 9 $\frac{3}{8}$ | 4 $\frac{1}{4}$                            | 4 $\frac{1}{4}$         | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$          | 14 $\frac{3}{4}$ | 15 $\frac{1}{2}$     | 15 $\frac{3}{8}$ | 16 $\frac{1}{4}$          | 16 $\frac{1}{4}$ | 17 $\frac{3}{8}$                           | 25                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 20 $\frac{1}{2}$       | 17 $\frac{1}{8}$ |                  |
|                        | 50                                                                          | 9 $\frac{3}{8}$ | 4 $\frac{1}{4}$                            | 4 $\frac{1}{4}$         | 14 $\frac{1}{4}$ | 15 $\frac{1}{4}$          | 15               | 16                   | 16 $\frac{1}{4}$ | 17 $\frac{1}{4}$          | 16 $\frac{1}{4}$ | 17 $\frac{3}{8}$                           | 35                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 20 $\frac{3}{4}$       | 18 $\frac{1}{8}$ |                  |
|                        |                                                                             |                 |                                            |                         |                  |                           |                  |                      |                  |                           |                  |                                            | 50                         | 10 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | —                | —                | 21 $\frac{1}{4}$       | 18 $\frac{1}{8}$ |                  |