

MAINTENANCE TESTING ERECTION

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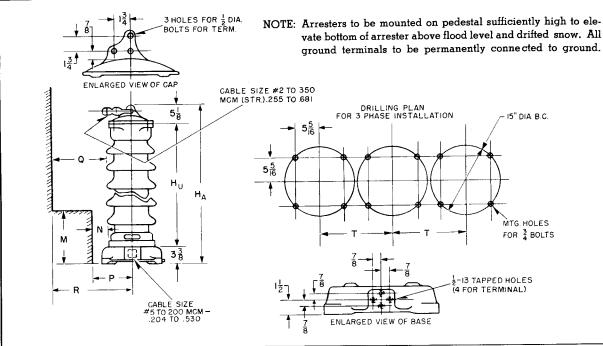
Type SV Autovalve Lightning Arresters FOR USE AT HIGH ALTITUDES

6,001 to 12,000 Feet Above Sea Level 3,000 Through 121,000 Volts Maximum

Indoor or Outdoor Service For Alternating Current Circuits Only

For general instructions on construction, erection, testing, maintenance, etc., see I.L. 38-120-1 covering standard SV Autovalve lightning arresters for use at altitudes up to 6,000 feet.

The arresters covered in this leaflet (I.L. 38-120-3) have the same electrical characteristics at altitudes between 6,001 and 12,000 feet as do the standard arresters (described in I.L. 38-120-1) at altitudes between sea level and 6,000 feet. dimensions and clearances are different, however, and are given in this leaflet for arresters to be used at altitudes between 6,001 and 12,000 feet.

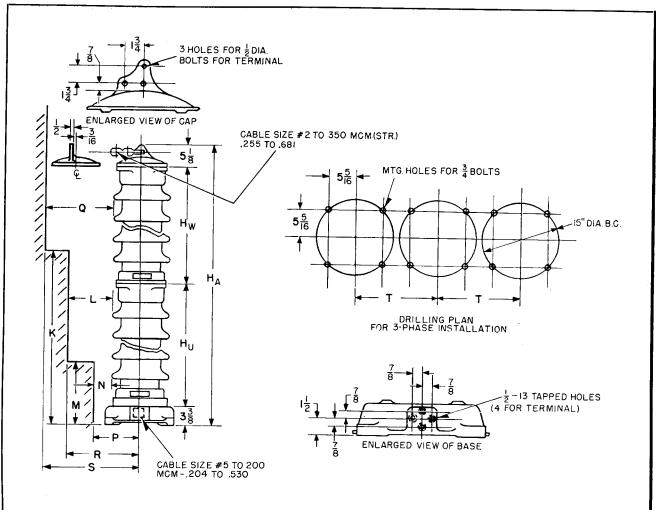


VOLTAGE	STYLE	NO.			I	DIMENSION	S IN INCHES	;		
RATING KV RMS	NUMBER*	SHEDS	На	Hu	MA	N	Q	Р	R	Τø
3 6 9	1533 210 1533 211 1533 212	1 1 2	20½ 20½ 24½	12 12 16	7 7 7	2½ 3 4	3½ 4½ 6	77/8 83/8 93/8	87/8 97/8 113/8	18 18 18
12 15 20	1533 213 1533 214 1533 215	4 7 7	28½ 38½ 38½ 38½	20 30 30	8 91/4 111/2	4½ 5½ 6½	7½ 9 11	97/8 107/8 117/8	$12\frac{7}{8}$ $14\frac{3}{8}$ $16\frac{3}{8}$	24 26 29
25 30	1533 216 1533 217	9	44½ 44½	36 36	13½ 15	7½ 8½	13½ 16	127/8 137/8	187 ₈ 213 ₈	32 36

^{*} Style number covers one complete single pole arrester. For three-phase installation, three poles are required.

[△] If a near-by grounded object does not exceed "M" in height, then the minimum clearance dimensions N & P may be used as shown in the figure.

 $[\]varnothing$ Minimum distance center line to center line between arrester phase legs.



NOTE: Arresters to be mounted on pedestal sufficiently high to elevate bottom of arrester above flood level and drifted snow. All ground terminals to be permanently connected to ground.

VOLTAGE RATING	ARRESTER STYLE			_		DI	MENSIONS	IN INC	HES				
KV RMS	NUMBER*	MA	N	Р	K⊛	L	R	Qı	s	Ηυ	Hw	На	Т
37	1533 218	8	41/2	10	36	13	181/2	23	281/2	20	36	641/2	403
40	1533 219	111/2	7	121/2	44	16	21½	29	341/2	30	30	681/2	481
50	1533 220	131/2	7	121/2	46	19	241/2	35	401/2	36	36	801/2	561
60	1533 221	15	7	121/2	46	23	281/2	42	471/2	36	36	801/2	65!

^{*} Style number covers one complete single pole arrester. For three-phase installation, three poles are required.

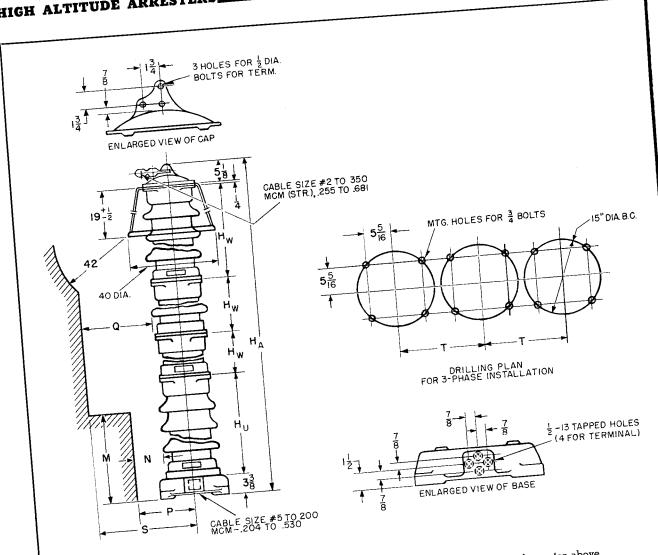
FIG. 2. Outline Dimensions for 37 to 60 kv Type SV High Altitude Lightning Arresters

 $[\]triangle$ II a near-by grounded object does not exceed "M" in height, then the minimum clearance dimensions N & P may be used as shown in the figure.

[●] If a near-by grounded object does not exceed "K" in height, then the minimum clearance dimensions L & R may be used as shown in the figure.

 $[\]square$ If a near-by grounded object exceeds "K" in height then minimum clearance dimensions Q & S must be used.

 $[\]varnothing$ Minimum distance center line to center line between arrester phase legs.



NOTE: Arresters to be mounted on pedestal sufficiently high to elevate bottom of arrester above flood level and drifted snow. All ground terminals to be permanently connected to ground.

VOLTAGE STYLE STYLE NUMBER* NUMBER 98			1			DIMEN	SIONS IN IN	ICHES		
KV RMS MA 2038 24 2938 20 55	VOLTAGE RATING KV RMS	ARRESTER STYLE NUMBER*	M△ 27	N	P 203/8		\$ 293/8	Hu 20	Hw 36	 ¶ 7∅ 98

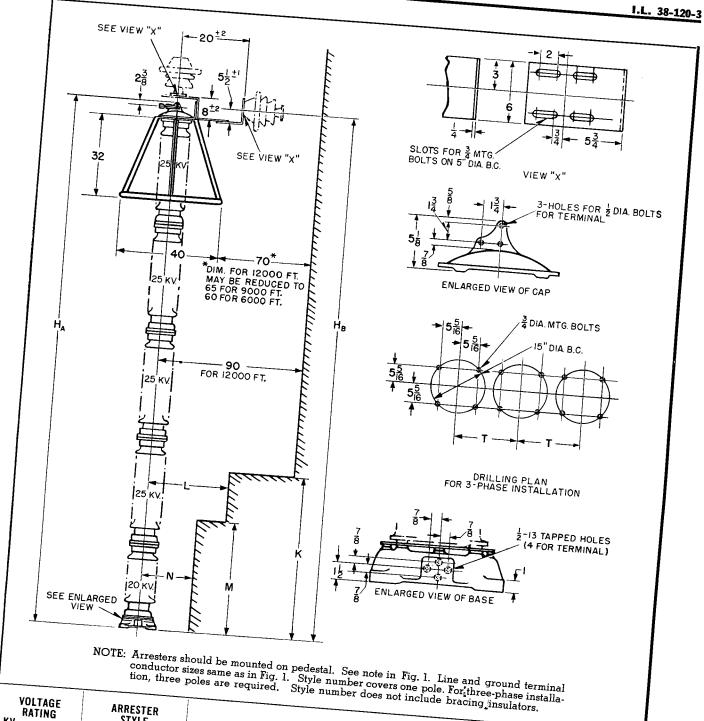
^{*} Style number covers one complete single pole arrester. For three phase installation three poles are required.

FIG. 4. Outline Dimensions for 97 kv Type SV High Altitude Lightning Arrester

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[□] If a near-by grounded object exceeds "M" in height then the minimum clearance dimensions Q and S must be used.

 $^{ot \emptyset}$ Minimum distance center line to center line between phase legs.



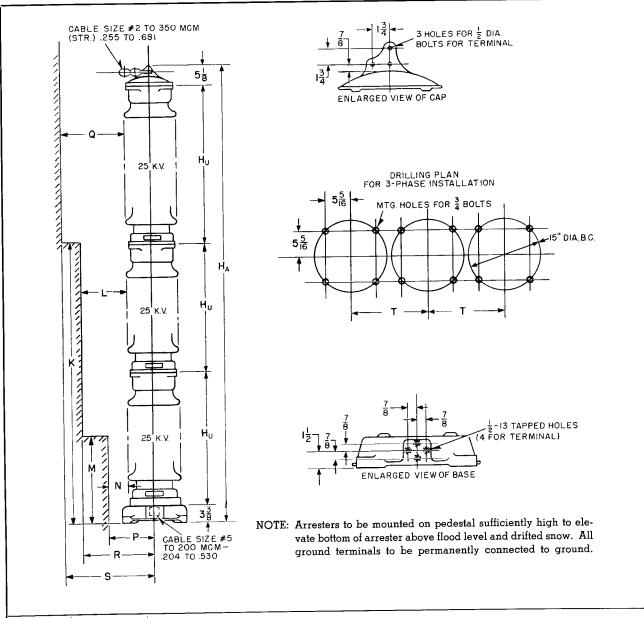
VOLTAGE RATING RMS	ARRESTER STYLE NUMBER*				MENSIONS IN	e. For three-ph bracing insu NCHES	llators.	
121	1616 804	MA	N	K⊕	L		1	Ţ
		41	32	62	45	HA	Нв	Tg
△ If a n	ear-by grounded objections.			<u> </u>	+5	1835/8	1831/8	11

FIG. 5. Outline Dimensions for 121 kv Type SV High Altitude Lightning Arrester

[△] If a near-by grounded object does not exceed "M" in height then the minimum clearance dimension N may be used.

⑤ If a near-by grounded object does not exceed "K" in height, then the minimum clearance dimension L may be used.

⑥ Minimum distance center line to center line between exceed a vector phase legs.



VOLTAGE RATING	ARRESTER Style					DIM	ENSIONS II	N INCHES			 	
KV RMS	NUMBER*	M△	N	Р	K⊛	L	R	Q□	S	Hu	На	ΤØ
73	1533 222	19	7	123/8	64	35	403⁄8	64	693/8	36	116½	94

- * Style number covers one complete single pole arrester. For three phase installation three poles are required.
- △ If a near-by grounded object does not exceed "M" in height, then the minimum clearance dimensions N & P may be used as shown in the figure.
- If a near-by grounded object does not exceed "K" in height, then the minimum clearance dimensions L & R may be used
 as shown in the figure.
- ☐ If a near-by grounded object exceeds "K" in height, then the minimum clearance dimensions Q & S must be used.
- \varnothing Minimum distance center line to center line between arrester phase legs.

FIG. 3. Outline Dimensions for 73 kv Type SV High Altitude Lightning Arrester

