



October 1, 1988
Supersedes Catalog 42-100, Pages 40-52,
dated May, 1979
Mailed to: E, D C/42-004

D5 Switchboard Watthour and Mechanical Demand Meters

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Non-Demand Registers

Switchboard Watthour Meters

Clock-Dial and Drum-Cyclometer Registers

1-Phase 3-Wire	(D5B-F)	8
1-Phase 2-Wire	(D5B-F)	10
3-Phase 3-Wire or Network	(D5B-2F)	12
3-Phase 4-Wire Delta	(D5B-7F)	14
3-Phase 4-Wire Wye (2-Stator)	(D5B-8F)	16
3-Phase 4-Wire Wye (3-Stator)	(D5B-3F)	18

Mechanical Demand Registers

Switchboard Demand Meters

Mark Ia Register

1-Phase 3-Wire	(D5B-FM)	21
1-Phase 2-Wire	(D5B-FM)	22
3-Phase 3-Wire or Network	(D5B-2FM)	23
3-Phase 4-Wire Delta	(D5B-7FM)	24
3-Phase 4-Wire Wye (2-Stator)	(D5B-8FM)	25
3-Phase 4-Wire Wye (3-Stator)	(D5B-3FM)	26

Mark IIIa Register

1-Phase 3-Wire	(D5B-FM)	27
1-Phase 2-Wire	(D5B-FM)	28
3-Phase 3-Wire or Network	(D5B-2FM)	29
3-Phase 4-Wire Delta	(D5B-7FM)	30
3-Phase 4-Wire Wye (2-Stator)	(D5B-8FM)	31
3-Phase 4-Wire Wye (3-Stator)	(D5B-3FM)	32

Reactive Metering

Totalizing Switchboard Watthour Meters

Clock-Dial and Drum-Cyclometer Registers

3-Circuits 1-Phase 2-Wire	(D5B-31F)	34
2-Circuits 3-Phase 3-Wire	(D5B-32F)	36
4-Circuits 1-Phase 2-Wire	(D5B-32F)	36
2-Circuits 3-Phase 4-Wire Wye	(D5B-38F)	38
2-Circuits 3-Phase 4-Wire Wye	(D5B-33F)	40
3-Circuits 3-Phase 3-Wire Delta	(D5B-34F)	42
6-Circuits 1-Phase 2-Wire	(D5B-34F)	42

Mechanical Demand Registers

Mark Ia Registers on Totalizing Meters	44 to 48
Mark IIIa Registers on Totalizing Meters	49 to 53

Service Connection Diagrams	9,11,13,15,17,19 33,35,37,39,41,43
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Style Number Definitions:

- A. **Catalog** – No **Special** Accessories, Options, or Features and “**Listed**” in a published catalog.
- B. **Standard** – No **Special** Accessories, Options, or Features but “**Not Listed**” in a published catalog.
- C. **Engineered** – With one or more **Special** Accessories, Options, or Features.

How to Use This Catalog.

- A. Obtain answers to **Six Basic Questions** listed on page 2.
- B. Use **Application Guide and Catalog Index** on page 3 to determine required meter type and its location in catalog.

How to Enter Order

- A. For **Catalog Style** –
 - 1. Determine List Price from **Price List 42-020**.
 - 2. Select proper customer discount from discount schedule and calculate net price.
 - 3. Enter order per instructions on page 6.
- B. For **Standard Style**
 - 1. Construct Style Number from Style Number Format and Coding on pages 4 and 5.
 - 2. Determine List Price from **Price List 42-020**.
 - 3. Select proper customer discount from discount schedule and calculate net price.
 - 4. Enter order per instructions on page 6.
- C. For **Engineered Style**
 - 1. Use 10 digit catalogued style number for the meter desired and construct a “**Similar to**” statement from instructions on page 6.
 - 2. Determine List Price from **Price List 42-020**.
 - 3. Select proper customer discount from discount schedule and calculate net price.
 - 4. Order on “**NC**” per instructions on page 6.

Prices for all products in this publication are listed in **Price List 42-020**.

Accessories are listed in **Catalog 42-100E**.

For further **Technical Data** on D5 Meters and applicable registers refer to **Technical Manual 42-1050A**.

For **Instruction Literature** refer to:

- IL 42-1009A Switchboard Watthour Meter
- IL 42-1010A Switchboard Totalizing Watthour Meter.

For **Renewal Parts Data** refer to:

- RPD 42-1001A Switchboard Watthour Meter
- RPD 42-1002A Switchboard Totalizing Watthour Meter.



Meter Selection Guide

Six Basic Questions

Available Selections

1. Type Mounting desired.	a. Switchboard	
2. Type Service to be metered.	a. 1-phase, 3-wire b. 1-phase, 2-wire c. 3-phase, 3-wire Delta d. 3-phase, 3-wire Network e. 3-phase, 4-wire Delta f. 3-phase, 4-wire Wye (2-stator meter) g. 3-phase, 4-wire Wye (3-stator meter) h. Totalizing (1) 3-Circuits of 1-Phase 2-Wire (2) 4-Circuits of 1-Phase 2-Wire (3) 6-Circuits of 1-Phase 2-Wire (4) 2-Circuits of 3-Phase 3-Wire Delta (5) 3-Circuits of 3-Phase 3-Wire Delta (6) 2-Circuits of 3-Phase 4-Wire Wye	
3. Type Flexitest Case required.	a. FT-21 (10-terminal) b. FT-31 (10-terminal) c. FT-32 (20-terminal) d. FT-32 (26-terminal)	
4. Meter Test Amps or Class required.	Meter Test Amps 2.5 2.5	Meter Class 20 (polyphase) 10 (single-phase)
5. Frequency and Voltage	60 Hertz a. 72 volts b. 120 volts c. 240 volts d. 480 volts	50 Hertz a. 110 volts b. 220 volts c. 380 volts
6. Type Register desired.	a. Non-Demand (refer to page 7) (1) Clock-Dial – Standard (2) Drum-type – Cyclometer b. Number of Dials, Drums (1) 4 (2) 5 c. Mechanical Demand (Refer to page 20) (1) Type Desired (a) Mark Ia (Pointer-type) (b) Mark IIIa (Clock-Dial type) (2) Reset Interval Desired (a) 15 Minutes (b) 30 Minutes (3) Number of kWh Dials	

Accessories – Refer to Catalog 42-100E.



Application Guide and Catalog Index



Switchboard Mounting FT-21 Case "D5B"



Switchboard Mounting FT-32 Case "D5B"

For Style Numbers and Descriptions see Catalog Pages as Indicated

Type Service to be Metered			Westinghouse Meter Type and Test Amps	Register Types		Mechanical Demand	
				Non-demand Clock- and Drum-type		Mark Ia Pointer	Mark IIIa Clock-dial
1-Phase 3-Wire			D5B-F, 2.5A	Page 08		Page 21	Page 27
1-Phase 2-Wire			D5B-F, 2.5A	Page 10		Page 22	Page 28
			D5B-31F, 2.5A (Totalizing)	Page 34		Page 44	Page 49
			D5B-32F, 2.5A (Totalizing)	Page 36		Page 45	Page 50
			D5B-34F, 2.5A (Totalizing)	Page 42		Page 48	Page 53
3-Phase 3-Wire	1-Phase 3-Wire	Network 3-Wire	D5B-2F, 2.5A	Page 12		Page 23	Page 29
			D5B-32F, 2.5A (Totalizing)	Page 36		Page 45	Page 50
			D5B-34F, 2.5A (Totalizing)	Page 42		Page 48	Page 53
3-Phase 4-Wire Delta			D5B-7F, 2.5A	Page 14		Page 24	Page 30
3-Phase 4-Wire Wye (2-Stator Meter)			D5B-8F, 2.5A	Page 16		Page 25	Page 31
			D5B-38F, 2.5A (Totalizing)	Page 38		Page 46	Page 51
3-Phase 4-Wire Wye (3-Stator Meter)			D5B-3F, 2.5A	Page 18		Page 26	Page 32
			D5B-33F, 2.5A (Totalizing)	Page 40		Page 47	Page 52



Smart Style Numbers

This meter numbering system uses the first 6 fields to classify meters into family groups based on predominant similarities.

Fields 1 through 4 define the meter chassis and cover.

#1 defines the **Series** of meter plus the **Cover** type.

#2 defines type of **Service** on which the meter is to be applied.

#3 defines the type **Mounting** and meter **Test Amperes**.

#4 defines the **Frequency** and **Voltage** to be metered.

Fields 5 and 6 define the principal register desired.

The last 4 fields sub-divide these families based on their differences.

#7 "A" denotes a catalogued or standard configuration.

#8 Uses a numerical code to specify the number of kWh digits desired on the register.

#9 "A" denotes a catalogued or standard configuration.

#10 "A" denotes a catalogued or standard configuration with a register multiplier other than 10.

"1" denotes a catalogued or standard configuration with a register multiplier of 10.

"X, Y, or Z" denotes a specific register ratio for Universal mechanical demand registers.

Catalog and Standard Style Numbers for D5 Single-Phase and Polyphase Switchboard Watthour and Mechanical Demand Meters

Field #1 Series and Cover	Field #2 Type Service	Field #3 Mounting and Test Amps
E = D5 with Plastic cover	Single - Phase A = 1-Phase 2-wire C = 1-Phase 3-wire Polyphase 2 = 3-Phase 3-wire Delta (2-Stator) (- 2) 3 = 3-Phase 4-wire Wye (3-Stator) (- 3) 4 = 3-Phase 4-wire Wye (3-Stator) (- 3) (Isolated Potential Leads) 7 = 3-Phase 4-wire Delta (2-Stator) (- 7) 8 = 3-Phase 4-wire Wye (2-Stator) (- 8)	Switchboard (2.5 Amps) Non-Totalizing F = FT-21 Case H = FT-31 Case K = FT-32 Case Totalizing L = 3-Cir 1-Phase 2-Wire D5B-31F 3-Stator M = 2-Cir 3-Phase 3-Wire or 4-Cir 1-Phase 2-Wire D5B-32F 4-Stator P = 2-Cir 3-Phase 4-Wire Wye D5B-38F 4-Stator R = 2-Cir 3-Phase 4-Wire Wye D5B-33F 6-Stator T = 3-Cir 3-Phase 3-Wire Delta or 6-Cir 1-Phase 2-Wire D5B-34F 6-Stator



Examples:

Catalog Number[illegible]**Standard Style Number**

Standard Style Number

E = D5 with Plastic Cover

3 = 3-Phase 4-Wire Wye, 3 Stator

F = Switchboard-type, 2.5 Amps

1 = 60 Hertz, 120 volts

3 = Mark IIIa Register

3 = 30 Minute Interval

A = Standard Style

5 = 5 Digit kWh Register

A = Standard Style

A = Standard Style

E 3 F 1 3 3 A 5 A A

October, 1988



Definitions and Ordering Instructions

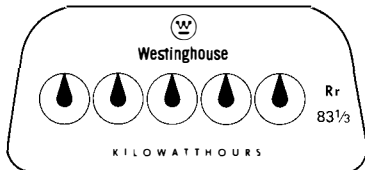
Definitions	Ordering Instructions for Catalogued and Standard Styles	Ordering Instructions for meters with Primary Rated Registers
A. A Catalogued or Standard meter configuration consists of: 1. Basic meter chassis and cover as defined by the first 4 digits of style number format on page 4. 2. A register as defined by the 5th, 6th & 8th digits of style number format on pages 4 and 5. B. A Special Engineered configuration consists of: 1. A basic meter chassis, cover and register as defined by the first 6 digits of the style number format on page 4. 2. One or more of the following: a. Accessory, Option or Special Feature listed in Catalog 42-100E or Price List 42-020 Table 9. b. Register Ratio other than those listed for catalogued styles. c. Primary Rated Register for use on transformer rated meters. For Primary Rated registers the Current and Voltage transformer ratios must be obtained and included in the order entry. Notes: A. Registers 1. The register ratio for the chassis specified by the first 4 digits must be the same as listed for catalogued styles. 2. For Mark Ia mechanical demand registers the catalogued classes are: a. Transformer-rated meters: - Class 2/6 (single-phase) - Class 4/8 (polyphase) B. Voltage Indicator LEDs (Potential Indicating Lights) Switchboard meters are equipped with LED type voltage indicator lights as standard.	Order Entry on Warehouse or Q91. When ordering, Specify: 1. Complete style number. 2. Type of meter ordered. Examples: E2F1CLA4AA D5B-2F E2F161A4AY D5B-2FM Ordering Instructions for meters with Special Features Order Entry on NC When ordering, Specify: 1. Complete style number. 2. Complete meter description consisting of: a. Meter Type b. Test Amps c. Hertz d. Voltage e. Type Register and # of Digits f. If Mechanical Demand Register (1) Demand Interval (2) Full Scale kW g. Register Ratio h. Register Multiplier 3. A listing of Accessories, Options, or Special Features desired, such as detents, pulse initiators, or isolated potential terminals for reactive metering. Example: 1. Non-demand meter with pulse initiator Similar to E2F1CLA4AA D5B-2F, 2.5A, 60 Hz, 120V, Clock 4-Dial, except with CDI-22B pulse initiator, Mp = 1/2, and mechanical detent to prevent reverse registration.	Order Entry on NC* When ordering, Specify: A. "Similar to style" statement. B. Ten digit style number. Use catalogued style number for basic meter configuration desired. C. Meter to have Primary Rated register. D. Current and Voltage transformer ratios must be included in the order entry information. - The Current transformer ratio must be specified as "x"/5 amps. - The Voltage transformer ratio must be specified as "x"/1 volts. Example: Similar to E2F1CLA4AA D5B-2F meter except to have primary rated register used with instrument transformers rated: CT ratio = 100/5 amps VT ratio = 70/1 volts *Notes: When the order is processed at NC the Engineering Dept will assign an Engineered Style Number which will be permanently recorded for that specific meter configuration. Shipment to the user will be made using the Engineered Style Number.



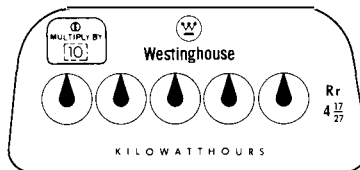
Non-Demand Registers for Single-Phase and Polyphase Switchboard Watthour Meters

Primary-Rated registers are available in both clock-dial and drum-cyclometer types. Contact your Westinghouse representative for available ratios. These registers are available in the following configurations for registering kWhr, QHr, and kVARhr readings.

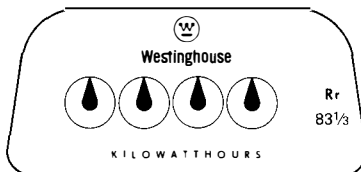
Clock-Dial Type



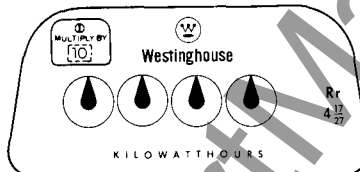
5-Dial x 1



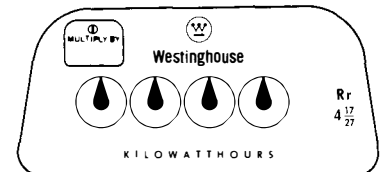
5-Dial x 10



4-Dial x 1

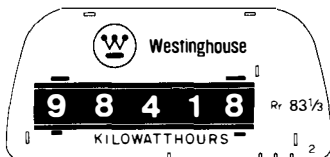


4-Dial x 10

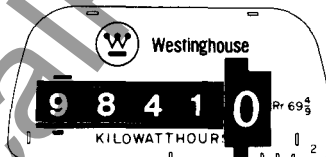


4-Dial x Tr

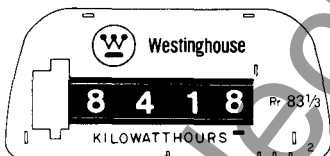
Drum-Cyclometer Type



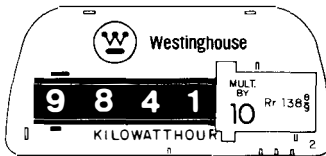
5-Drum x 1



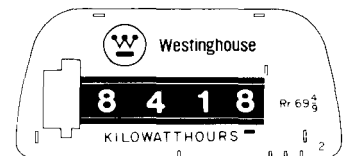
5-Drum x 1
(with Lazy "O")



4-Drum x 1



4-Drum x 10



4-Drum x Tr



D5B-F Single-Phase Switchboard Watthour Meters

1-Stator for 1-Phase 3-Wire Product Code 4811

Service Input
Schematics

1-Phase
3-Wire



Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-F Switchboard Type Transformer-Rated 6-Terminal FT-21 Case	10	2.5	240	0.6	Tr	166 2/3	ECF2CLA4AA	ECF2CLA5AA	ECF2CYA4AA	ECF2CYA5AA

* For Primary Rated registers see **Ordering Instructions** on page 6.

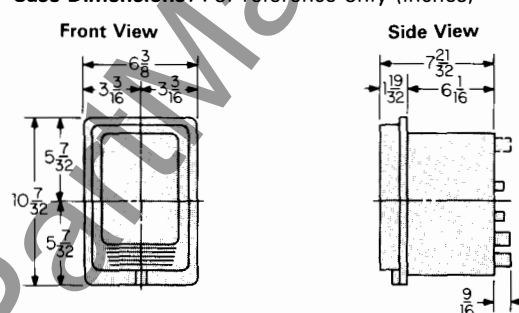
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-F	1	12	14	12	14	24

Shipping Dimensions (Inches)

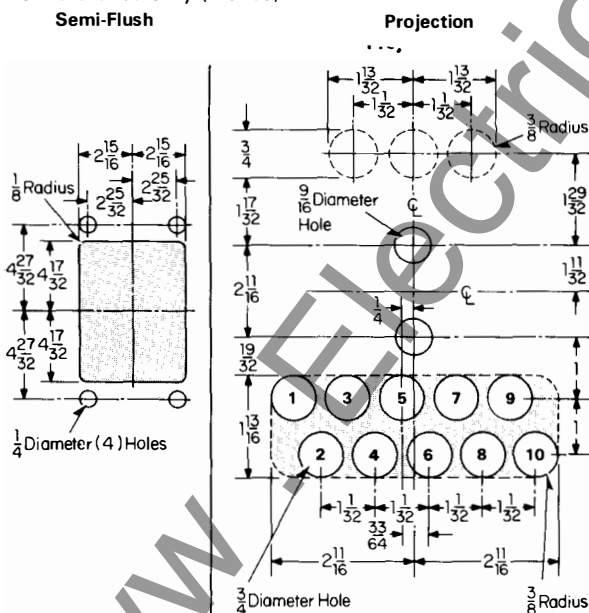
Type	Carton Quantity	Length	Width	Height
D5B-F	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



Panel Cutout Dimensions (Front View):

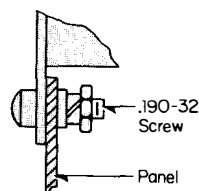
For reference only (Inches)



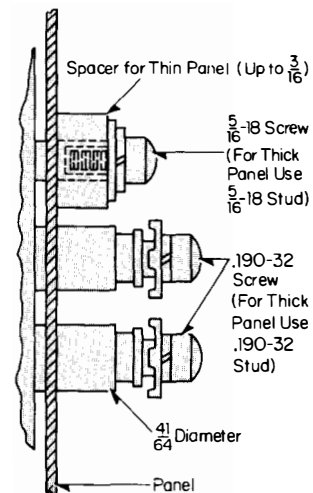
Terminal and Mounting Hardware:

For reference only (Inches)

Semi-Flush Mounting



Projection Mounting





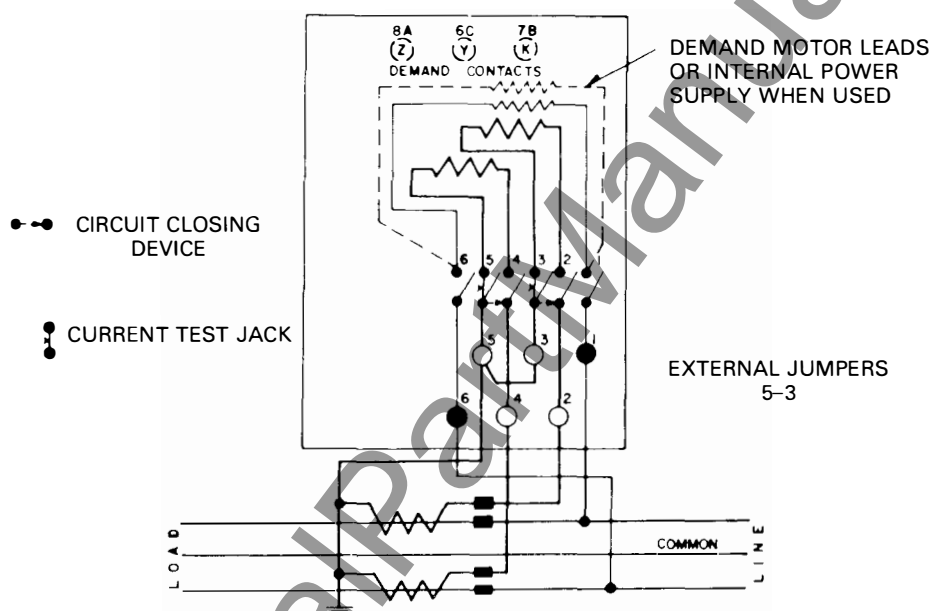
D5B-F Single-Phase Switchboard Watthour Meters

Service Connection Diagrams for 1-Phase 3-Wire Service Watthour and Demand Meters

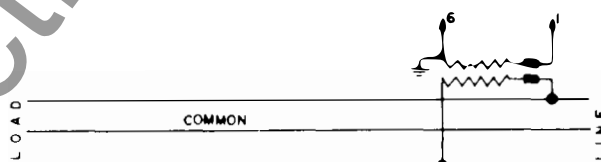
Switchboard-Type D5B-F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformer when used should be connected as shown below



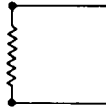


D5B-F Single-Phase Switchboard Watthour Meters

1-Stator for 1-Phase 2-Wire Product Code 4811

Service Input
Schematics

1-Phase
2-Wire



Tr = Effective CT Ratio x VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-F Switchboard Type										
Transformer-Rated	10	2.5	120	0.3	Tr	333 1/3	EAF1CLA4AA	EAF1CLA5AA	EAF1CYA4AA	EAF1CYA5AA
4-Terminal	10	2.5	240	0.6	Tr	166 2/3	EAF2CLA4AA	EAF2CLA5AA	EAF2CYA4AA	EAF2CYA5AA
FT-21 Case										

* For Primary Rated registers see Ordering Instructions on page 6.

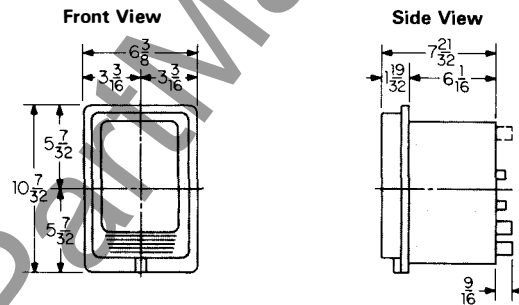
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-F	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-F	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)

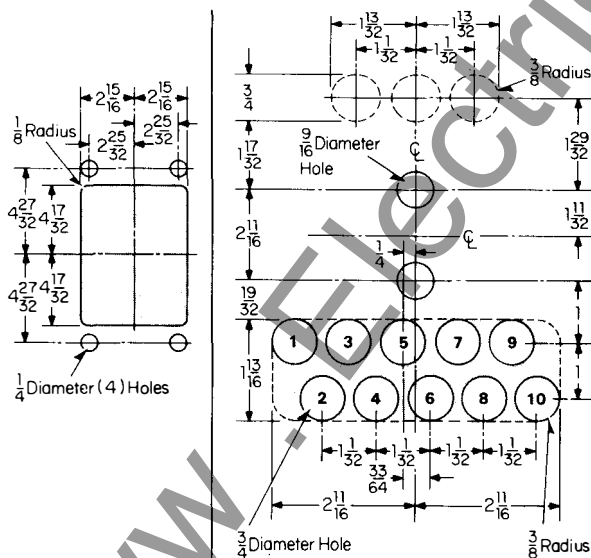


Panel Cutout Dimensions (Front View):

For reference only (Inches)

Semi-Flush

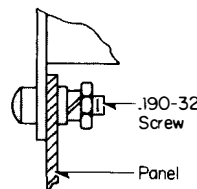
Projection



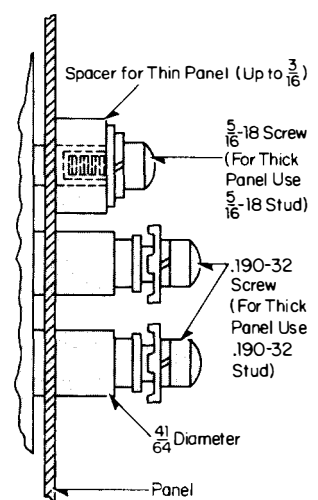
Terminal and Mounting Hardware:

For reference only (Inches)

Semi-Flush Mounting



Projection Mounting



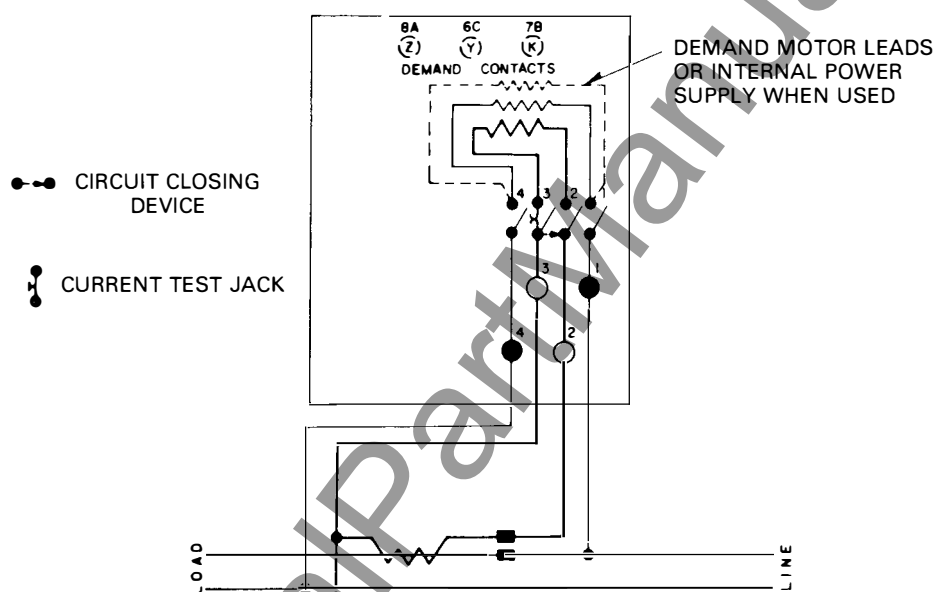


D5B-F Single-Phase Switchboard Watthour Meters Service Connection Diagrams for 1-Phase 2-Wire Service Watthour and Demand Meters

Switchboard-Type D5B-F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis

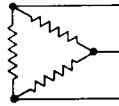


voltage transformer when used should be connected as shown below

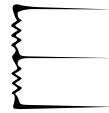




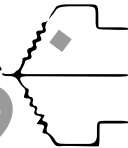
Service Input Schematics



1-Phase
3-Wire



Network 3-Wire



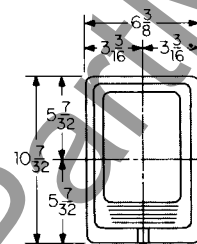
Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-2F Switchboard Type	20	2.5	72	0.72	Tr	138 8/9	E2F7CLA4AA	E2F7CLA5AA	E2F7CYA4AA	E2F7CYA5AA
Transformer-Rated	20	2.5	120	1.2	Tr	83 1/3	E2F1CLA4AA	E2F1CLA5AA	E2F1CYA4AA	E2F1CYA5AA
10-Terminal	20	2.5	240	2.4	Tr	41 2/3	E2F2CLA4AA	E2F2CLA5AA	E2F2CYA4AA	E2F2CYA5AA
FT-21 Case	20	2.5	480	4.8	Tr	20 5/6	E2F4CLA4AA	E2F4CLA5AA	E2F4CYA4AA	E2F4CYA5AA

Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-2F	1	12	14	12	14	24

Type	Carton Quantity	Length	Width	Height
D5B-2F	1	17	11 1/2	12

Front View

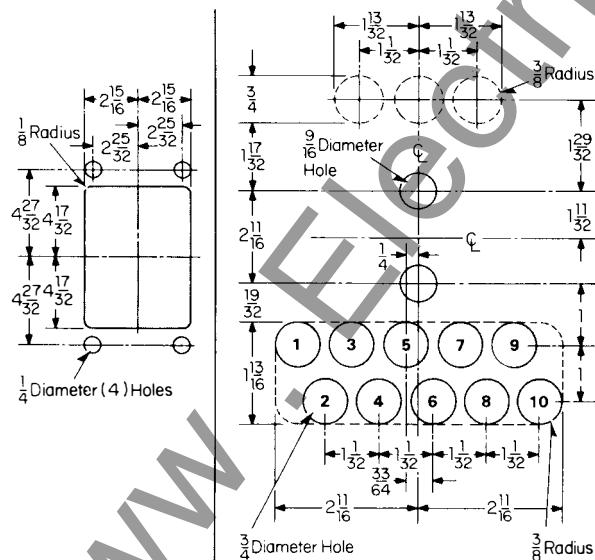


Technical drawing of a mechanical part with dimensions:

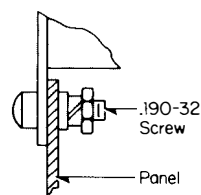
- Top horizontal dimension: $7\frac{21}{32}$
- Left vertical dimension: $1\frac{19}{32}$
- Right vertical dimension: $6\frac{1}{16}$
- Bottom right dimension: $9\frac{1}{16}$

Semi-Flush

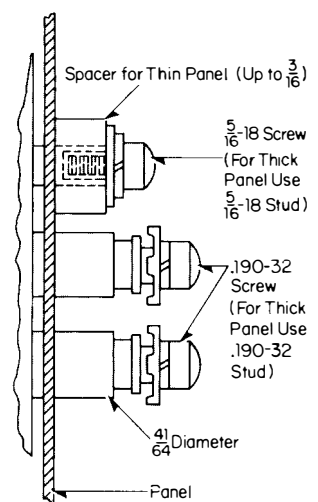
Projection



Semi-Flush Mounting



Projection Mounting





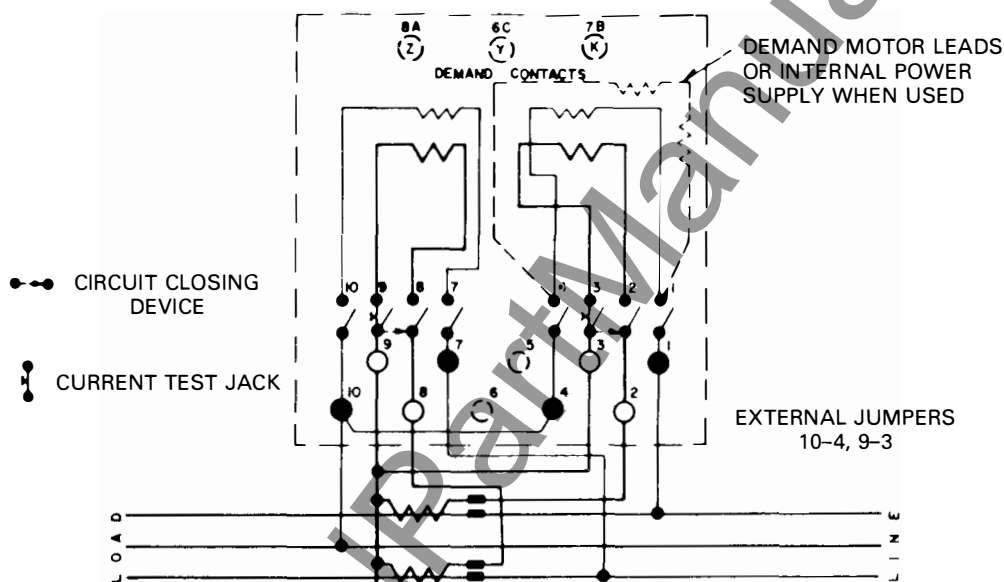
D5B-2F Polyphase Switchboard Watthour Meters

Service Connection Diagrams for 3-Phase 3-Wire or Network Service Watthour and Demand Meters

Switchboard-Type D5B-2F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformer when used should be connected as shown below



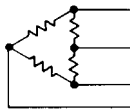


D5B-7F Polyphase Switchboard Watthour Meters

2-Stator for 3-Phase 4-Wire Delta Service Product Code 4824

Service Input Schematics

3-Phase
4-Wire
Delta



Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-7F Switchboard Type										
Transformer-Rated	20	2.5	240	2.4	Tr	41 2/3	E7F2CLA4AA	E7F2CLA5AA	E7F2CYA4AA	E7F2CYA5AA
10-Terminal	20	2.5	480	4.8	Tr	20 5/6	E7F4CLA4AA	E7F4CLA5AA	E7F4CYA4AA	E7F4CYA5AA
FT-21 Case										

* For Primary Rated registers see **Ordering Instructions** on page 6.

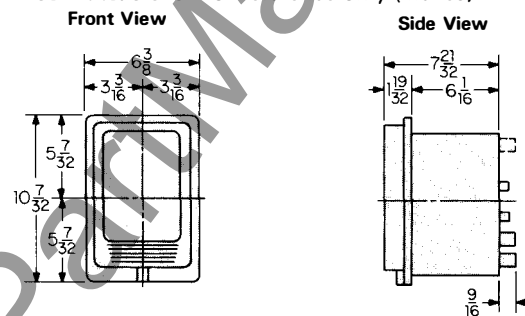
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-7F	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-7F	1	17	11 1/2	12

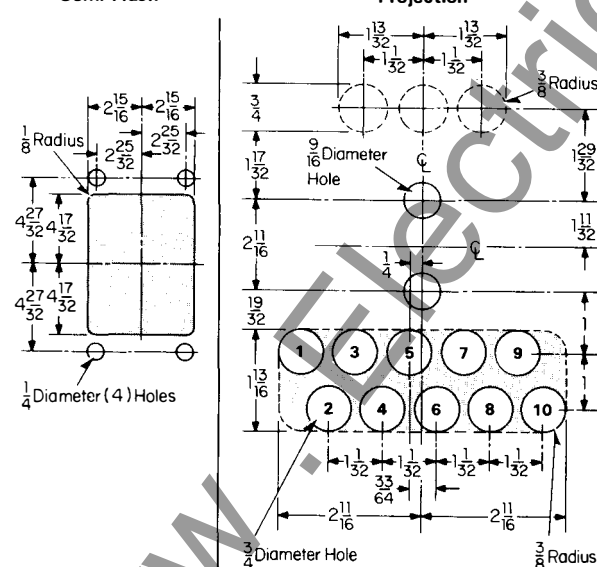
Case Dimensions: For reference only (Inches)



Panel Cutout Dimensions (Front View):

For reference only (Inches)

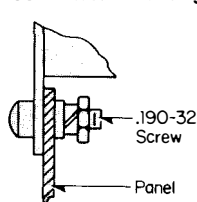
Semi-Flush



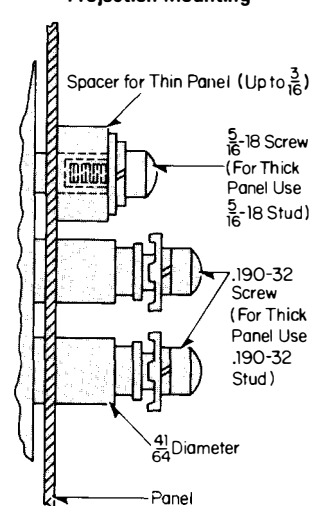
Terminal and Mounting Hardware:

For reference only (Inches)

Semi-Flush Mounting



Projection Mounting



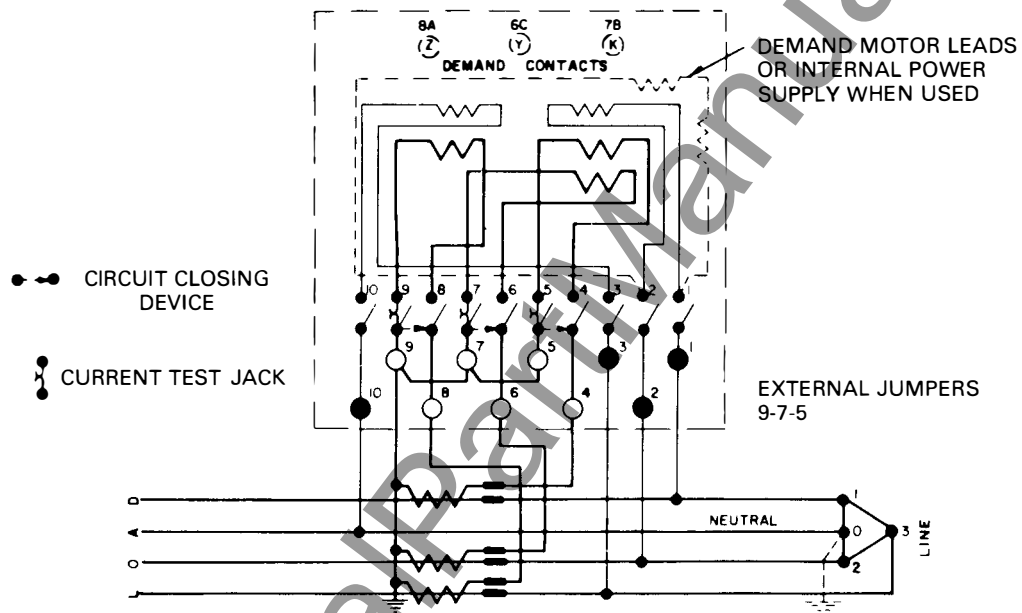


D5B-7F Polyphase Switchboard Watthour Meters Service Connection Diagrams for 3-Phase 4-Wire Delta Service Watthour and Demand Meters

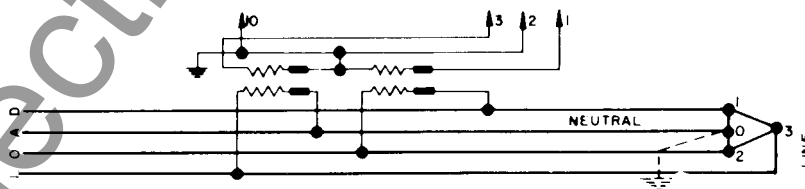
Switchboard-Type D5B-7F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformer when used should be connected as shown below



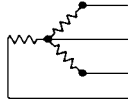


D5B-8F Polyphase Switchboard Watthour Meters

2-Stator for 3-Phase 4-Wire Wye Service Product Code 4824

Service Input Schematics

3-Phase
4-Wire
Wye



Notes:

72 volt meters are for use on 69.2/120V circuits.

120 volt meters are for use on 120/208V circuits.

240 volt meters are for use on 265/460 or 277/480V circuits.

Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-8F Switchboard Type	20	2.5	72	1.08	Tr	92 16/27	E8F7CLA4AA	E8F7CLA5AA	E8F7CYA4AA	E8F7CYA5AA
Transformer-Rated	20	2.5	120	1.8	Tr	55 5/9	E8F1CLA4AA	E8F1CLA5AA	E8F1CYA4AA	E8F1CYA5AA
10-Terminal	20	2.5	240	3.6	Tr	27 7/9	E8F2CLA4AA	E8F2CLA5AA	E8F2CYA4AA	E8F2CYA5AA
FT-21 Case										

* For Primary Rated registers see **Ordering Instructions** on page 6.

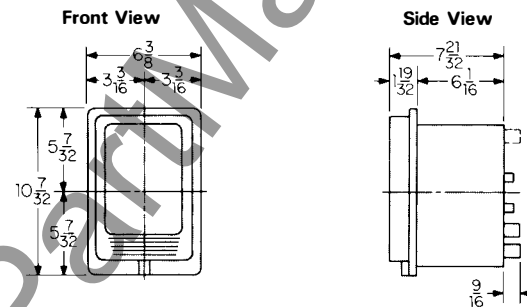
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-8F	1	12	14	12	14	24

Shipping Dimensions (Inches)

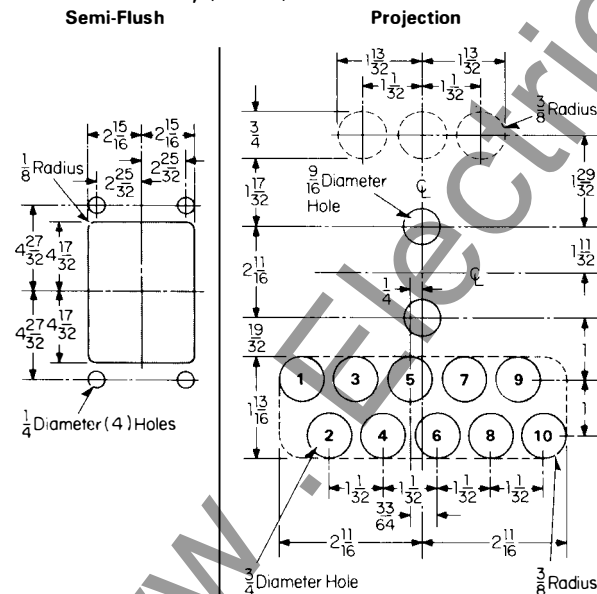
Type	Carton Quantity	Length	Width	Height
D5B-8F	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



Panel Cutout Dimensions (Front View):

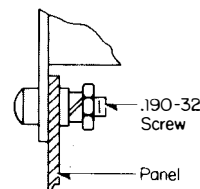
For reference only (Inches)



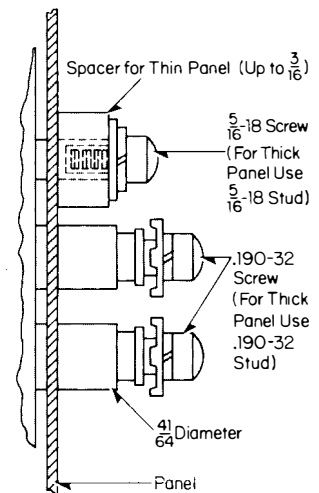
Terminal and Mounting Hardware:

For reference only (Inches)

Semi-Flush Mounting



Projection Mounting





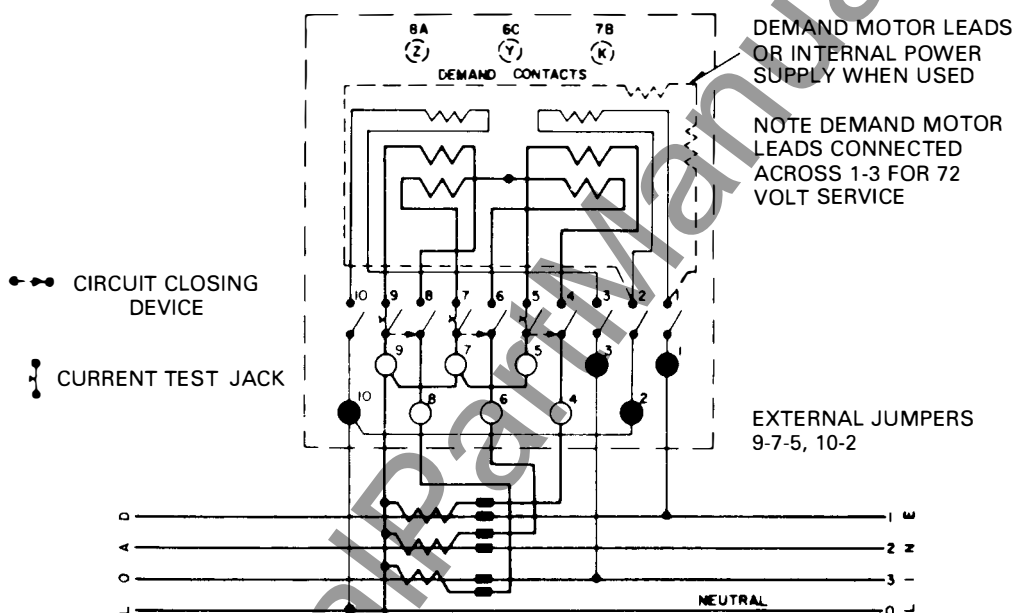
D5B-8F Polyphase Switchboard Watthour Meters

Service Connection Diagrams for 3-Phase 4-Wire Wye Service Watthour and Demand Meters

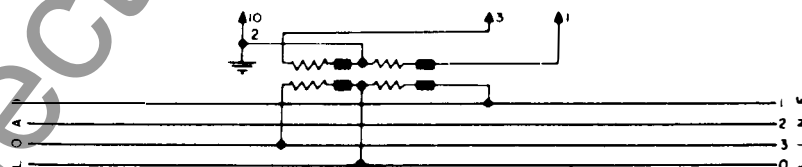
Switchboard-Type D5B-8F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformer when used should be connected as shown below



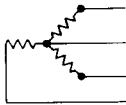


D5B-3F Polyphase Switchboard Watthour Meters

3-Stator for 3-Phase 4-Wire Wye Service Product Code 4824

**Service Input
Schematic**

3-Phase
4-Wire
Wye



Notes:
72 volt meters are for use on 69.2/120V circuits.
120 volt meters are for use on 120/208V circuits.
240 volt meters are for use on 265/460 or 277/480V circuits.

Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-3F Switchboard Type Transformer-Rated 10-Terminal FT-21 Case	20	2.5	72	1.08	Tr	92 16/27	E3F7CLA4AA	E3F7CLA5AA	E3F7CYA4AA	E3F7CYA5AA
	20	2.5	120	1.8	Tr	55 5/9	E3F1CLA4AA	E3F1CLA5AA	E3F1CYA4AA	E3F1CYA5AA
	20	2.5	240	3.6	Tr	27 7/9	E3F2CLA4AA	E3F2CLA5AA	E3F2CYA4AA	E3F2CYA5AA

* For Primary Rated registers see **Ordering Instructions** on page 6.

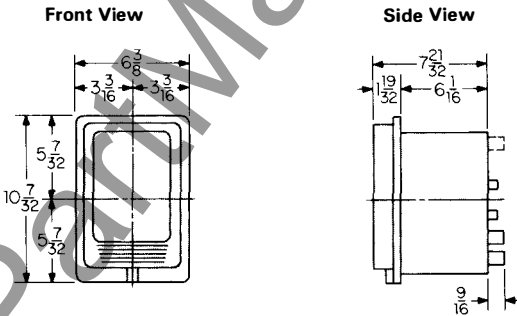
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-3F	1	12	14	12	14	24

Shipping Dimensions (Inches)

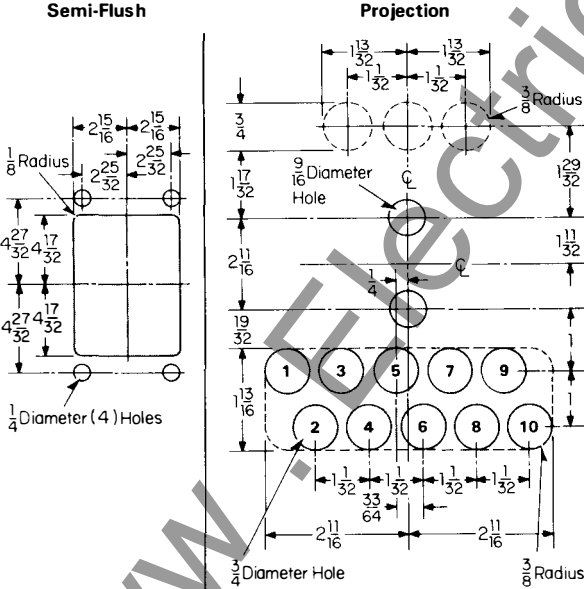
Type	Carton Quantity	Length	Width	Height
D5B-3F	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



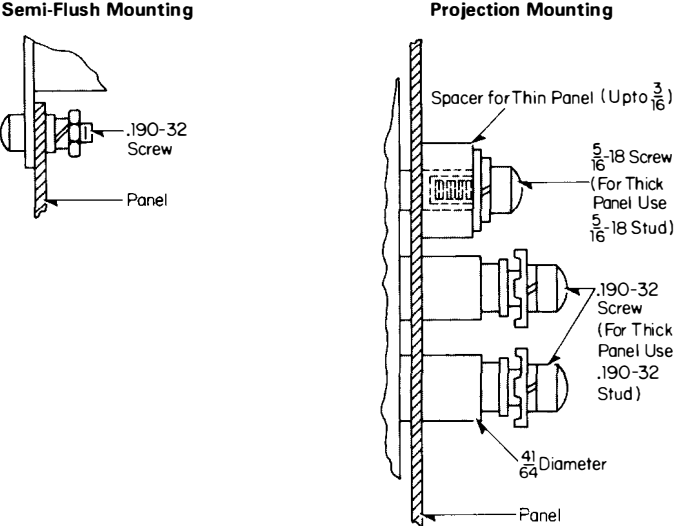
Panel Cutout Dimensions (Front View):

For reference only (Inches)



Terminal and Mounting Hardware:

For reference only (Inches)



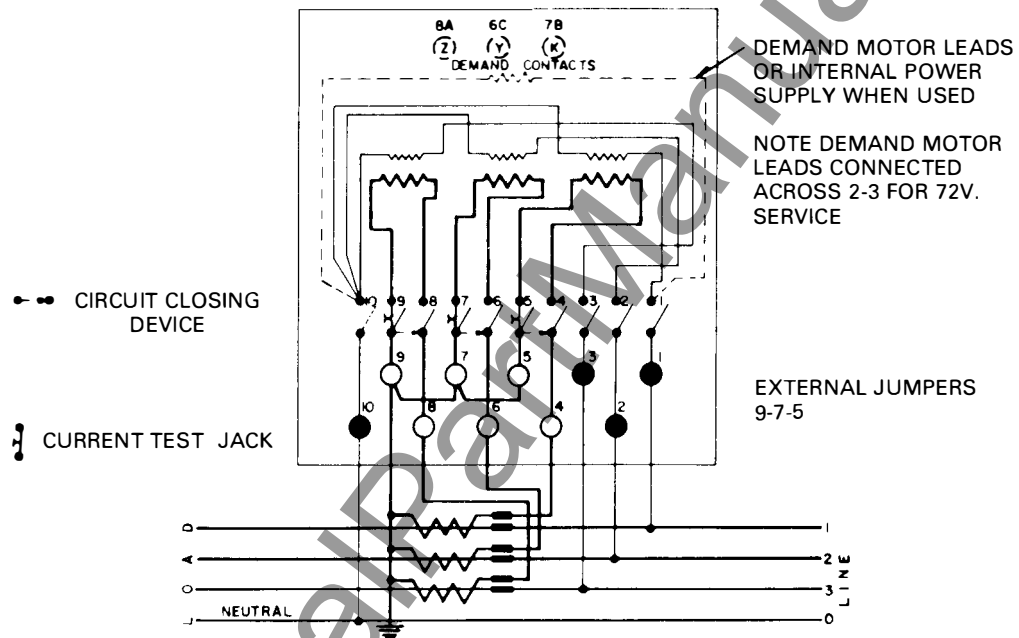


D5B-3F Polyphase Switchboard Watthour Meters Service Connection Diagrams for 3-Phase 4-Wire Wye Service Watthour and Demand Meters

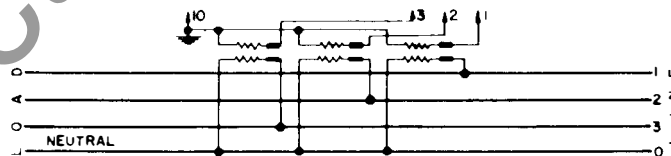
Switchboard-Type D5B-3F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformer when used should be connected as shown below





Single-Phase and Polyphase Switchboard Watthour Mechanical Demand Registers

The "Watthour Mechanical Demand Meters" are identical to the watthour meters described on pages 8 through 19 except for the deletion of the non-demand register and the addition of the demand register and its necessary components; (two motor leads and demand cover with reset).

Mechanical Demand Registers for use on D-Line Watthour Meters

Mark Ia Dual Range Indicating Demand

The Mark Ia register gives a combination of kilowatthour consumption and the maximum kilowatt demand averaged over a definite time interval by means of a pointer moved over a graduated demand scale.

The Mark Ia is a dual class, dual range register and the class change is made by reversing the scale plate which mechanically changes the gear ratios to correspond with the scale in use.

The Mark Ia is available with 5 "in-line" kilowatthour dials. For 4-dial applications the 5th dial is covered with a black blanking disc.

References: Technical Manual 42-1050A
Renewal Parts Data RPD 42-302.A2

See Pages 21-26 for Catalog Meter Styles

Mark IIIa Clock Dial Demand

The Mark IIIa register gives a combination of kilowatthour consumption and the maximum kilowatt demand averaged over a definite time interval by means of 3-clock type dials at the bottom of the dial plate. The Mark IIIa is available with 5 "in-line" kilowatthour dials. For 4-dial applications the 5th dial is covered with a black blanking disc.

References: Technical Manual 42-1050A
Renewal Parts Data RPD 42-303.A1

See Pages 27-32 for Catalog Meter Styles



D5B-FM Single-Phase Switchboard Watthour Demand Meters

Mark Ia Register Product Code 4833

1-Stator for 1-Phase 3-Wire

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 2/6, Standard FSKW = $333\frac{1}{3}$ and $666\frac{2}{3}$ of test kVA

See page 9 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-FM Switchboard Type Transformer-Rated 6-Terminal FT-21 Case	10	2.5	240	0.6	2.0/4.0 x Tr	166 2/3	ECF261A4AZ	ECF263A4AZ

* For Primary Rated registers see **Ordering Instructions** on page 6.

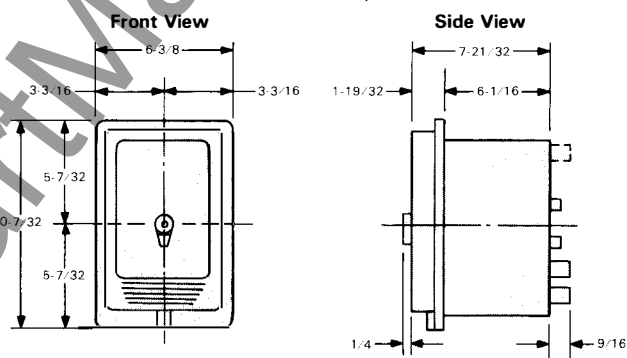
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-FM	1	17	11½	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 8.



D5B-FM Single-Phase Switchboard Watthour Demand Meters

Mark Ia Register Product Code 4833

1-Stator for 1-Phase 2-Wire

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 2/6, Standard FSKW = $333\frac{1}{3}$ and $666\frac{2}{3}$ of test kVA

See page 11 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-FM Switchboard Type								
Transformer-Rated	10	2.5	120	0.3	1.0/2.0 x Tr	333 $\frac{1}{3}$	EA111A4AA	EA113A4AA
4-Terminal	10	2.5	240	0.6	2.0/4.0 x Tr	166 $\frac{2}{3}$	EA261A4AZ	EA263A4AZ
FT-21 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

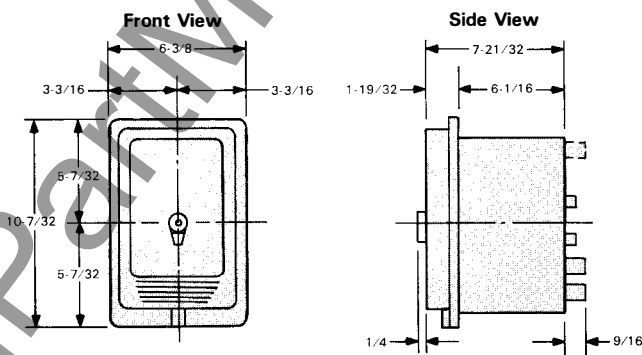
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 10.



D5B-2FM Polyphase Switchboard Watthour Demand Meters

Mark Ia Register Product Code 4834

2-Stator for 3-Phase 3-Wire or Network

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 and 800% of test kVA

See page 13 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-2FM Switchboard Type	20	2.5	72	0.72	1.44/2.88 x Tr	138 8/9	E2F711A4AA	E2F713A4AA
Transformer-Rated	20	2.5	120	1.2	2.4 /4.8 x Tr	83 1/3	E2F161A4AY	E2F163A4AY
10-Terminal	20	2.5	240	2.4	4.8 /9.6 x Tr	41 2/3	E2F261A4AX	E2F263A4AX
FT-21 Case	20	2.5	480	4.8	9.6 /19.2 x Tr	20 5/6	E2F411A4AA	E2F413A4AA

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

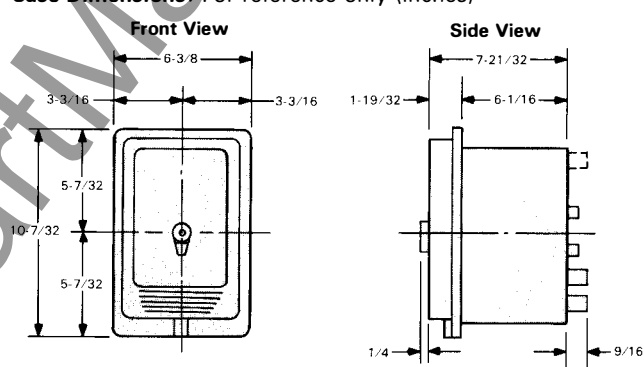
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-2FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-2FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 12.



D5B-7FM Polyphase Switchboard Watthour Demand Meters
Mark Ia Register Product Code 4834

2-Stator for 3-Phase 4-Wire Delta
Mark Ia Dual-Range Indicating Mechanical Demand Register
Transformer-Rated Registers Class 4/8, Standard FSKW = 400 and 800% of test kVA

See page 15 for **Service Connections**
Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-7FM Switchboard Type								
Transformer-Rated	20	2.5	240	2.4	4.8/9.6 x Tr	41 2/3	E7F261A4AX	E7F263A4AX
10-Terminal	20	2.5	480	4.8	9.6/19.2 x Tr	20 5/6	E7F411A4AA	E7F413A4AA
FT-21 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

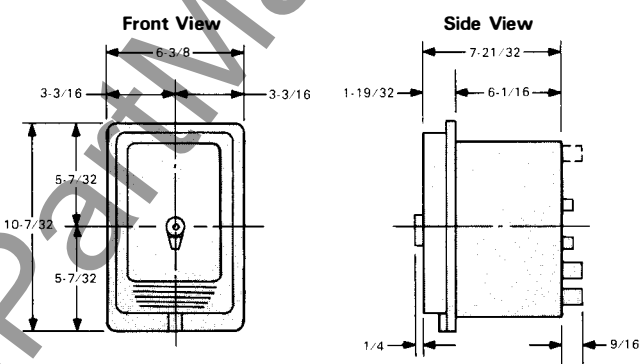
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-7FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-7FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 14.



D5B-8FM Polyphase Switchboard Watthour Demand Meters

Mark Ia Register Product Code 4834

2-Stator for 3-Phase 4-Wire Wye

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 and 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.

120 volt meters are for use on 120/208V circuits.

240 volt meters are for use on 265/460V or 277/480V circuits.

See page 17 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-8FM Switchboard Type	20	2.5	72	1.08	2.16/4.32 x Tr	92 16/27	E8F711A4AA	E8F713A4AA
Transformer-Rated	20	2.5	120	1.8	3.6 /7.2 x Tr	55 5/9	E8F111A4AA	E8F113A4AA
10-Terminal	20	2.5	240	3.6	7.2 /14.4 x Tr	27 7/9	E8F211A4AA	E8F213A4AA
FT-21 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

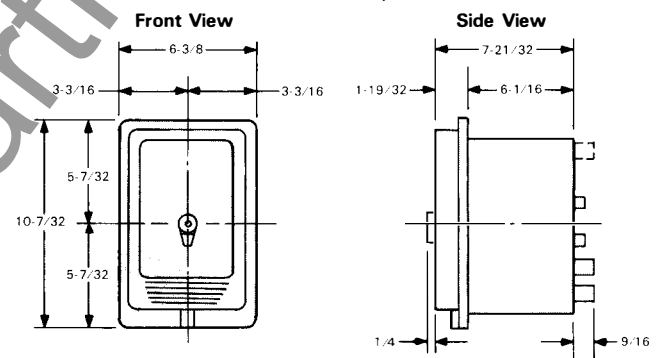
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-8FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-8FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 16.



D5B-3FM Polyphase Switchboard Watthour Demand Meters

Mark Ia Register Product Code 4834

3-Stator for 3-Phase 4-Wire Wye
Mark Ia Dual-Range Indicating Mechanical Demand Register
Transformer-Rated Registers Class 4/8, Standard FSKW = 400 and 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.
120 volt meters are for use on 120/208V circuits.
240 volt meters are for use on 265/460V or 277/480V circuits.
See page 19 for **Service Connections**
Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-3FM Switchboard Type	20	2.5	72	1.08	2.16/4.32 x Tr	92 16/27	E3F711A4AA	E3F713A4AA
Transformer-Rated	20	2.5	120	1.8	3.6/7.2 x Tr	55 5/9	E3F111A4AA	E3F113A4AA
10-Terminal	20	2.5	240	3.6	7.2/14.4 x Tr	27 7/9	E3F211A4AA	E3F213A4AA
FT-21 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

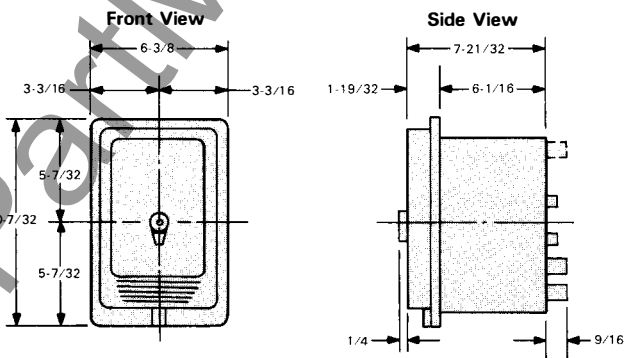
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-3FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-3FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 18.



D5B-FM Single-Phase Switchboard Watthour Demand Meters Mark IIIa Register Product Code 4833

1-Stator for 1-Phase 3-Wire

Mark IIIa Clock-Dial Mechanical Demand Register

Transformer-Rated Registers Class 6, Standard FSKW = 666 $\frac{2}{3}$ % of test kVA

See page 9 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-FM Switchboard Type Transformer-Rated 6-Terminal FT-21 Case	10	2.5	240	0.6	4.0 x Tr	166 2/3	ECF281A4AZ	ECF283A4AZ

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

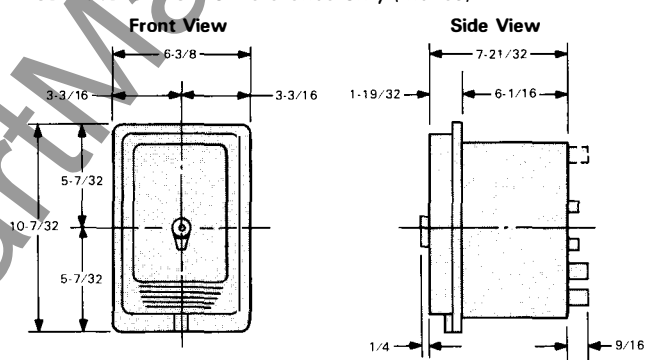
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 8.



D5B-FM Single-Phase Switchboard Watthour Demand Meters
Mark IIIa Register Product Code 4833

1-Stator for 1-Phase 2-Wire
Mark IIIa Clock-Dial Mechanical Demand Register
Transformer-Rated Registers Class 6, Standard FSKW = 666 2/3% of test kVA

See page 11 for **Service Connections**
Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-FM Switchboard Type								
Transformer-Rated	10	2.5	120	0.3	2.0 x Tr	333 1/3	EAF131A4AA	EAF133A4AA
4-Terminal	10	2.5	240	0.6	4.0 x Tr	166 2/3	EAF281A4AZ	EAF283A4AZ
FT-21 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

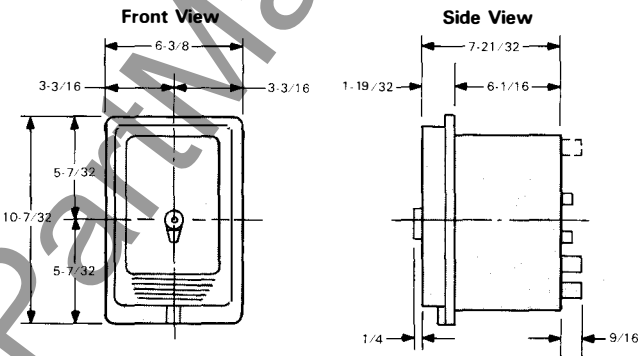
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 10.



D5B-2FM Polyphase Switchboard Watthour Demand Meters

Mark IIIa Register Product Code 4834

2-Stator for 3-Phase 3-Wire or Network

Mark IIIa Clock-Dial Mechanical Demand Register

Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

See page 13 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-2FM Switchboard Type	20	2.5	72	0.72	2.88 x Tr	138 8/9	E2F731A4AA	E2F733A4AA
Transformer-Rated	20	2.5	120	1.2	4.8 x Tr	83 1/3	E2F181A4AY	E2F183A4AY
10-Terminal	20	2.5	240	2.4	9.6 x Tr	41 2/3	E2F281A4AX	E2F283A4AX
FT-21 Case	20	2.5	480	4.8	19.2 x Tr	20 5/6	E2F431A4AA	E2F433A4AA

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

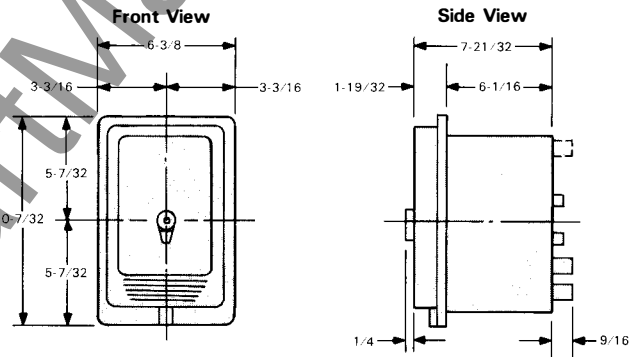
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-2FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-2FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 12.



D5B-3FM Polyphase Switchboard Watthour Demand Meters
Mark IIIa Register Product Code 4834

3-Stator for 3-Phase 4-Wire Wye
Mark IIIa Clock-Dial Mechanical Demand Register
Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.
120 volt meters are for use on 120/208V circuits.
240 volt meters are for use on 265/460V or 277/480V circuits.
See page 19 for **Service Connections**
Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-3FM Switchboard Type	20	2.5	72	1.08	4.32 x Tr	92 16/27	E3F731A4AA	E3F733A4AA
Transformer-Rated	20	2.5	120	1.8	7.2 x Tr	55 5/9	E3F131A4AA	E3F133A4AA
10-Terminal	20	2.5	240	3.6	14.4 x Tr	27 7/9	E3F231A4AA	E3F233A4AA
FT-21 Case								

* For Primary Rated registers see **Ordering Instructions** on page 6.

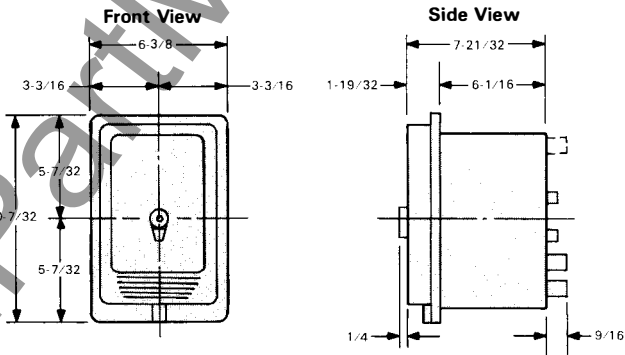
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-3FM	1	12	14	12	14	24

Shipping Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-3FM	1	17	11 1/2	12

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 18.



D5B-2F, D5B-8F, D5B-3F Polyphase Switchboard Watthour Meters for Varhour Metering

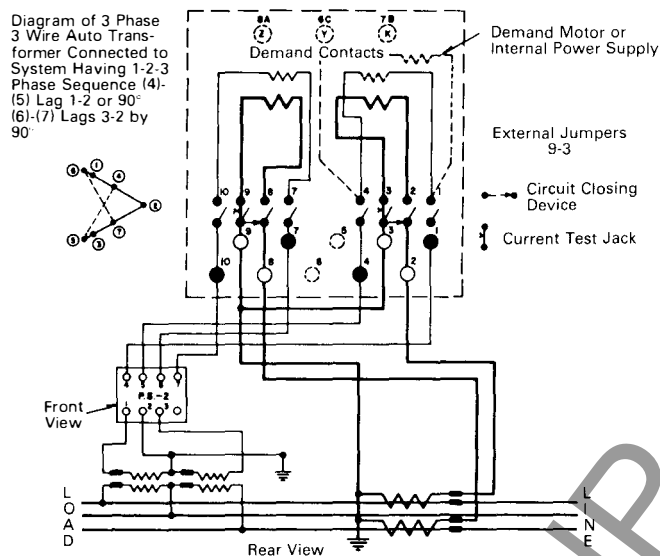
Polyphase switchboard meters can be supplied for varhour metering. See **Ordering Instructions** for meters with **Special Features** on page 6. Order as "Similar to" style number meter except for varhour metering.

Service Connection Diagrams

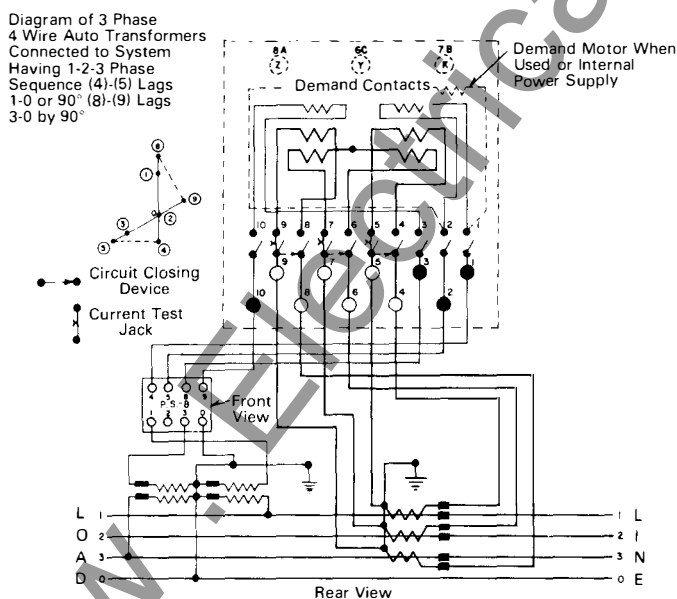
All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis

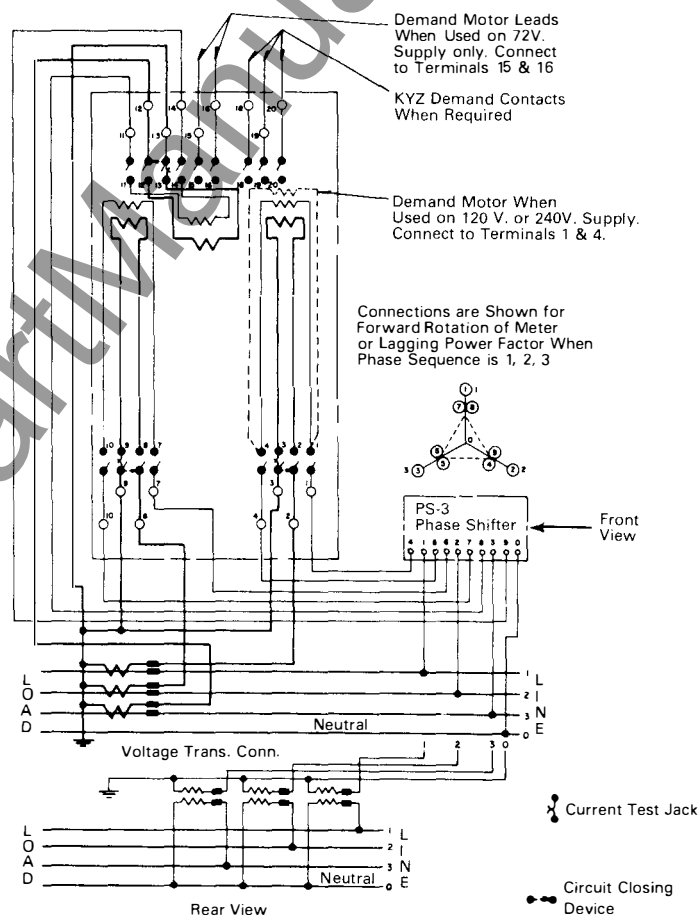
Switchboard-Type D5B-2F



Switchboard-Type D5B-8F



Switchboard-Type D5B-3F



Note

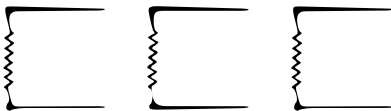
For D5B-3F switchboard meters for reactive metering an FT-32 case is supplied at an additional cost.
For price adder - See Price List 42-020.



D5B-31F Single-Phase Totalizing Switchboard Watthour Meters
3-Stator for Totalizing 3-Circuits 1-Phase 2-Wire Product Code 4824

Service Input Schematics

1-Phase
2-Wire



Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-31F Switchboard Type										
Transformer-Rated	20	2.5	120	1.8	Tr	55 5/9	EAL1CLA4AA	EAL1CLA5AA	EAL1CYA4AA	EAL1CYA5AA
20-Terminal	20	2.5	240	3.6	Tr	27 7/9	EAL2CLA4AA	EAL2CLA5AA	EAL2CYA4AA	EAL2CYA5AA
FT-32 Case										

* For Primary Rated registers see Ordering Instructions on page 6.

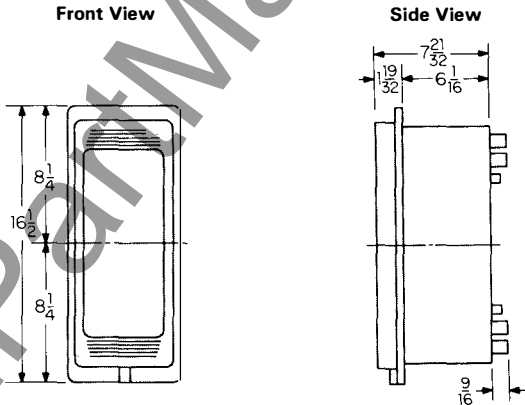
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-31F	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

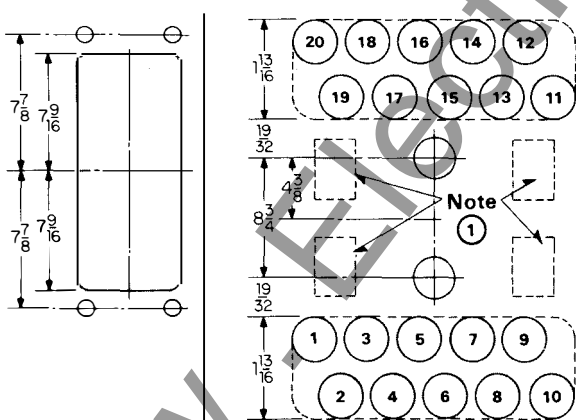
Type	Carton Quantity	Length	Width	Height
D5B-31F	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



Panel Cutout Dimensions (Front View):
For reference only (Inches)

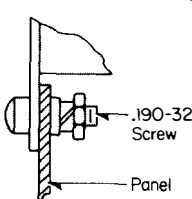
Semi-Flush



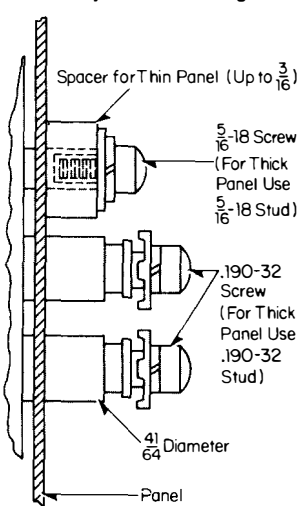
Note 1:
Special cutout required for FT-32 case with isolated terminals for D5B-31F or D5B-31FM when used for reactive metering or totalizing single-phase circuits. (One to four cutouts may be required depending on the application.)

Terminal and Mounting Hardware:
For reference only (Inches)

Semi-Flush Mounting



Projection Mounting





D5B-31F Single-Phase Totalizing Switchboard Watthour Meters

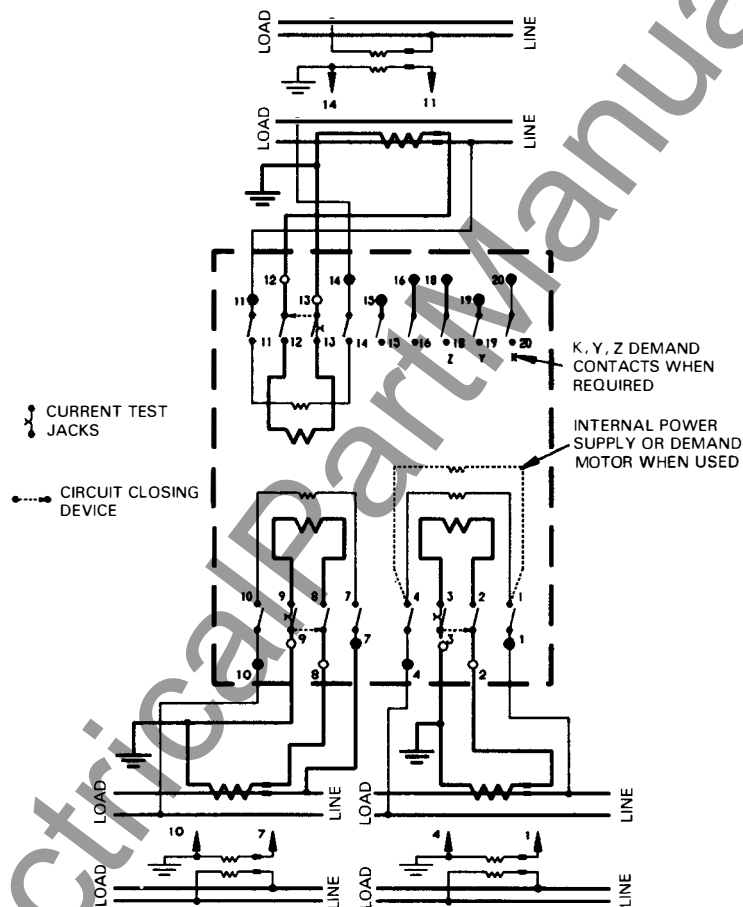
Service Connection Diagrams for Totalizing 3-Circuits of 1-Phase 2-Wire Service Watthour and Demand Meters

Switchboard-Type D5B-31F

All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis

voltage transformers when used should be connected as shown below



voltage transformers when used should be connected as shown above

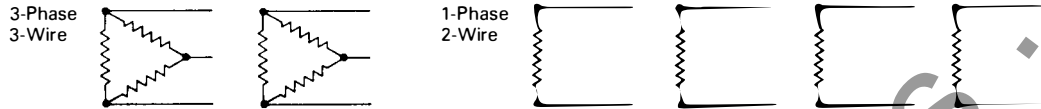


D5B-32F Polyphase Totalizing Switchboard Watthour Meters

4-Stator for Totalizing 2-Circuits of 3-Phase 3-Wire or 4-Circuits of 1-Phase 2-Wire

Product Code 4824

Service Input Schematics



$Tr = \text{Effective CT ratio} \times \text{effective VT ratio}$

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-32F Switchboard Type										
Transformer-Rated	20	2.5	120	2.4	Tr	41 2/3	E2M1CLA4AA	E2M1CLA5AA	E2M1CYA4AA	E2M1CYA5AA
20-Terminal	20	2.5	240	4.8	Tr	20 5/6	E2M2CLA4AA	E2M2CLA5AA	E2M2CYA4AA	E2M2CYA5AA
FT-21 Case										

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

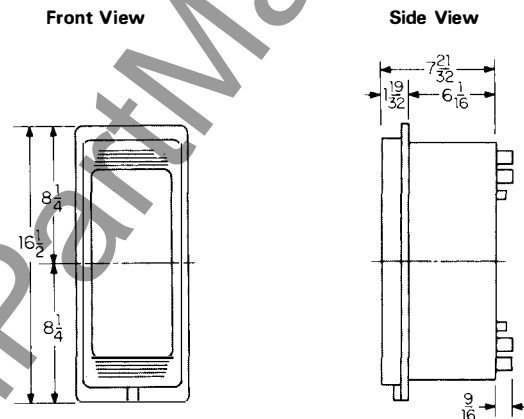
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-32F	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

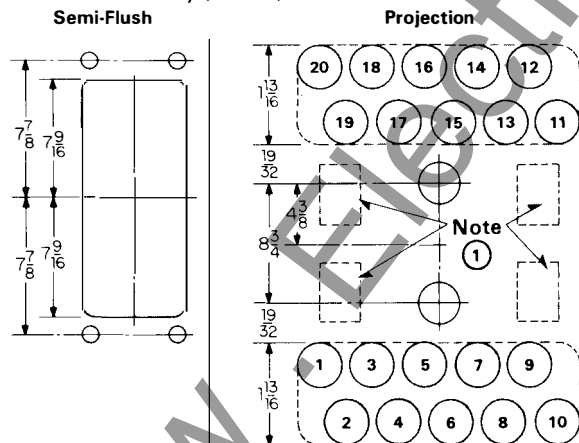
Type	Carton Quantity	Length	Width	Height
D5B-32F	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



Panel Cutout Dimensions (Front View):

For reference only (Inches)

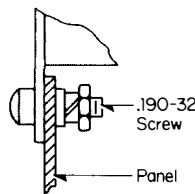


Note 1:
Special cutout required for FT-32 case with isolated terminals for D5B-32F or D5B-32FM when used for reactive metering or totalizing single-phase circuits. (One to four cutouts may be required depending on the application.)

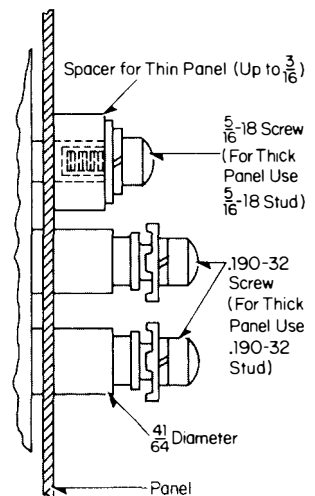
Terminal and Mounting Hardware:

For reference only (Inches)

Semi-Flush Mounting



Projection Mounting





D5B-32F Polyphase Totalizing Switchboard Watthour Meters

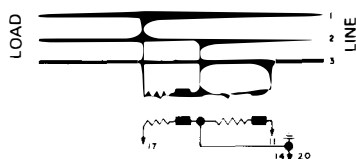
Service Connection Diagrams for Totalizing 2-Circuits of 3-Phase 3-Wire or 4-Circuits of 1-Phase 2-Wire Watthour and Demand Meters

Switchboard-Type D5B-32F

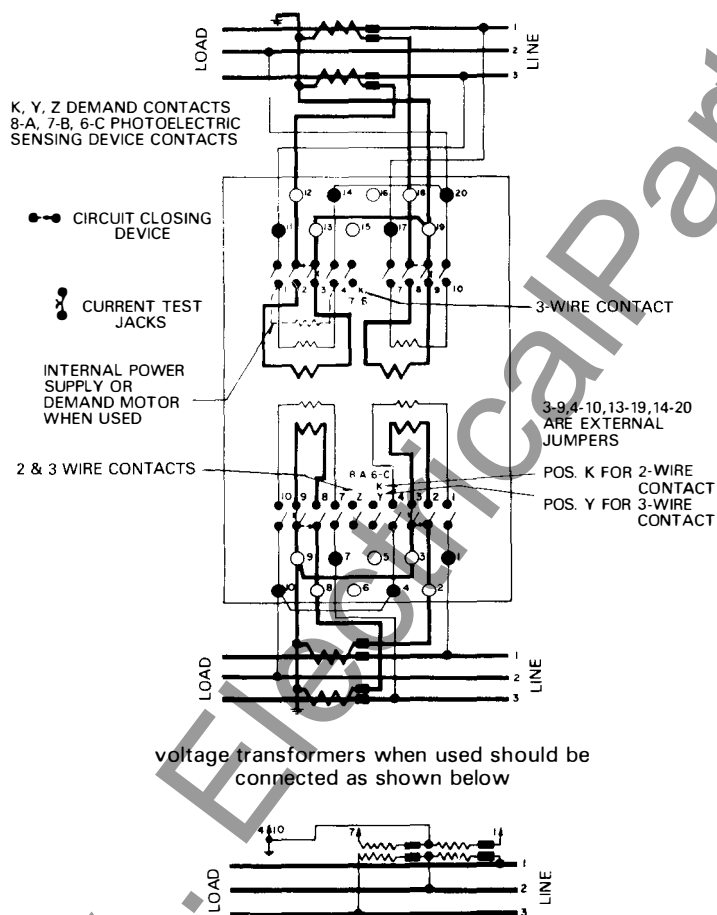
All diagrams are rear view

Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis

Totalizing 2-Circuits of 3-Phase 3-Wire



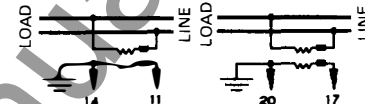
voltage transformers when used should be connected as shown above



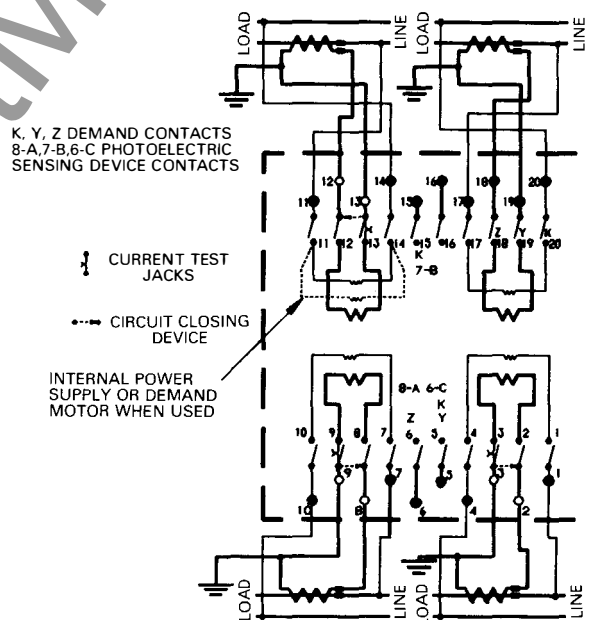
voltage transformers when used should be connected as shown below



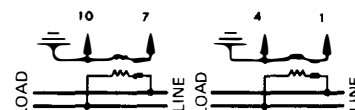
Totalizing 4-Circuits of 1-Phase 2-Wire



voltage transformers when used should be connected as shown above



voltage transformers when used should be connected as shown below

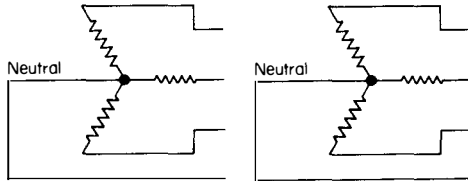




D5B-38F Polyphase Totalizing Switchboard Watthour Meters
4-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire Wye Product Code 4824

Service Input Schematic

3-Phase
4-Wire
Wye



Notes:
72 volt meters are for use on 69.2/120V circuits.
120 volt meters are for use on 120/208V circuits.
240 volt meters are for use on 265/460 or 277/480V circuits.

Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-38F Switchboard Type	20	2.5	72	2.16	Tr	46 8/27	E8P7CLA4AA	E8P7CLA5AA	E8P7CYA4AA	E8P7CYA5AA
	20	2.5	120	3.6	Tr	27 7/9	E8P1CLA4AA	E8P1CLA5AA	E8P1CYA4AA	E8P1CYA5AA
	20	2.5	240	7.2	Tr	13 8/9	E8P2CLA4AA	E8P2CLA5AA	E8P2CYA4AA	E8P2CYA5AA
Transformer-Rated										
20-Terminal										
FT-32 Case										

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

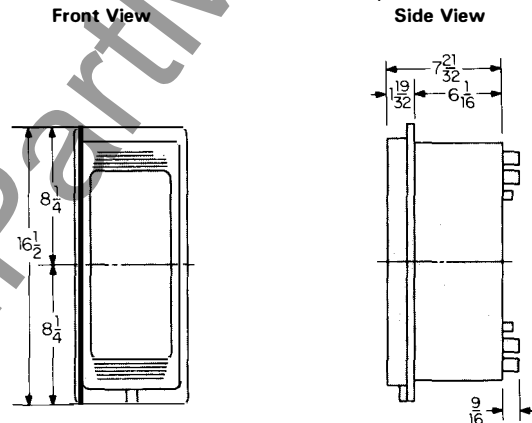
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-38F	1	19	21	19	21	35

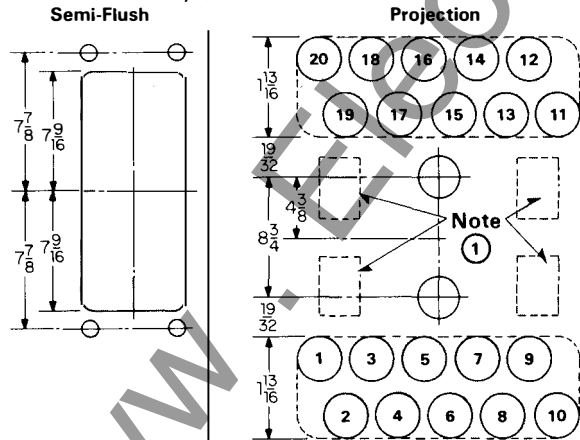
Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-38F	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)

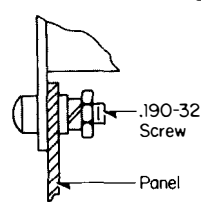


Panel Cutout Dimensions (Front View):
For reference only (Inches)

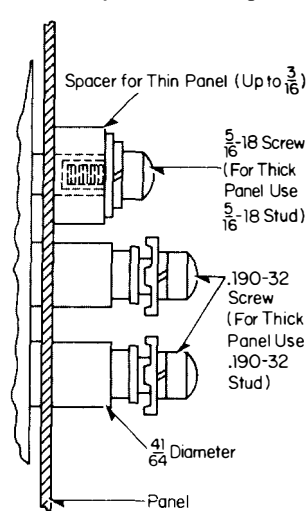


Note 1:
Special cutout required for FT-32 case with isolated terminals for D5B-38F or D5B-38FM when used for reactive metering. (One to four cutouts may be required depending on the application.)

Terminal and Mounting Hardware:
For reference only (Inches)
Semi-Flush Mounting



Projection Mounting



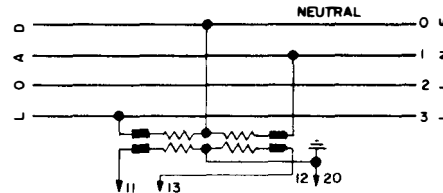


D5B-38F Polyphase Totalizing Switchboard Watthour Meters Service Connection Diagrams for Totalizing 2-Circuits of 3-Phase 4-Wire Wye Service Watthour and Demand Meters

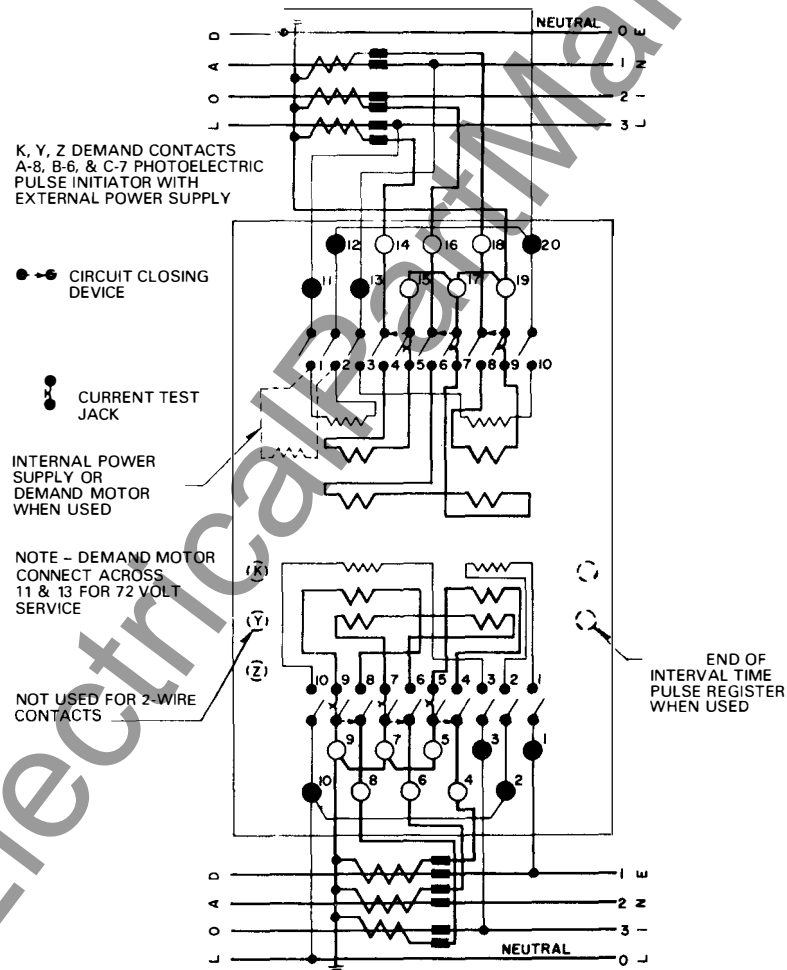
Switchboard-Type D5B-38F

All diagrams are rear view

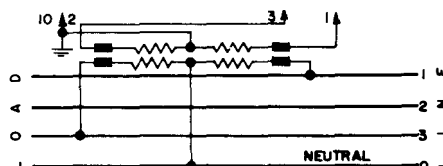
Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformers when used should be connected as shown above



voltage transformers when used should be connected as shown below



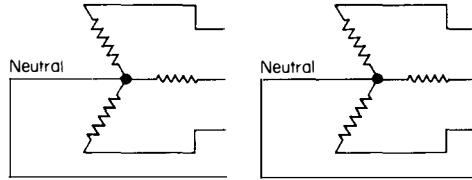


D5B-33F Polyphase Totalizing Switchboard Watthour Meters

6-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire Wye Product Code 4824

Service Input Schematics

3-Phase
4-Wire
WYE



Notes:

72 volt meters are for use on 69.2/120V circuits.
120 volt meters are for use on 120/208V circuits.
240 volt meters are for use on 265/460 or 277/480V circuits.

Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-33F Switchboard Type	20	2.5	72	2.16	Tr	46 8/27	E3R7CLA4AA	E3R7CLA5AA	E3R7CYA4AA	E3R7CYA5AA
Transformer-Rated	20	2.5	120	3.6	Tr	27 7/9	E3R1CLA4AA	E3R1CLA5AA	E3R1CYA4AA	E3R1CYA5AA
20-Terminal	20	2.5	240	7.2	Tr	13 8/9	E3R2CLA4AA	E3R2CLA5AA	E3R2CYA4AA	E3R2CYA5AA
FT-32 Case										

* For Primary Rated registers see Ordering Instructions on page 6.

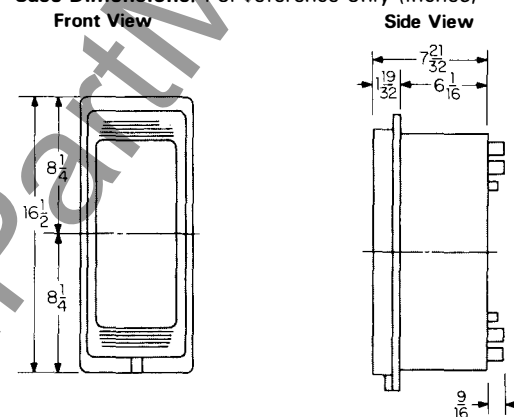
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-33F	1	21	23	21	23	37

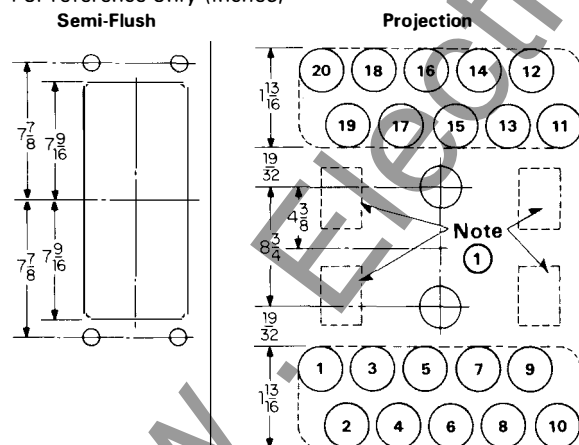
Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-33F	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)

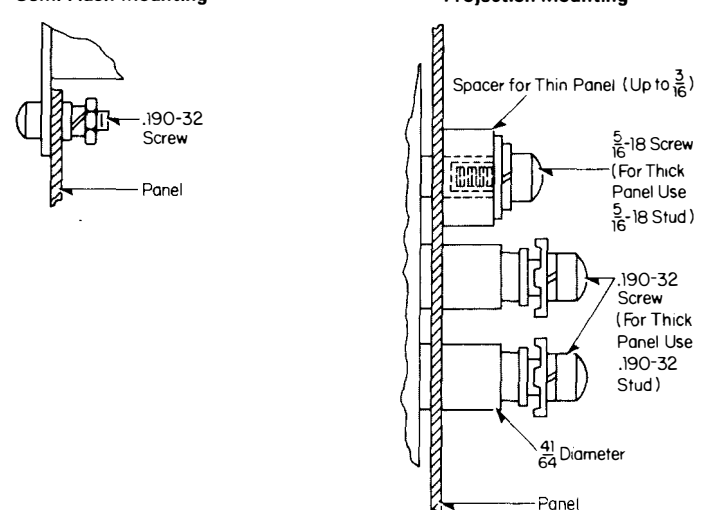


Panel Cutout Dimensions (Front View): For reference only (Inches)



Note 1:
Special cutout required for FT-32 case with isolated terminals for D5B-33F or D5B-33FM when used for reactive metering. (One to four cutouts may be required depending on the application.)

Terminal and Mounting Hardware: For reference only (Inches)



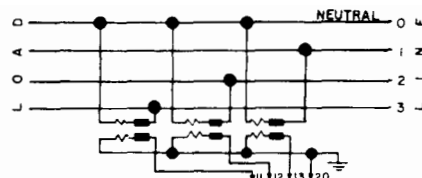


D5B-33F Polyphase Totalizing Switchboard Watthour Meters Service Connection Diagrams for Totalizing 2-Circuits of 3-Phase 4-Wire Wye Service Watthour and Demand Meters

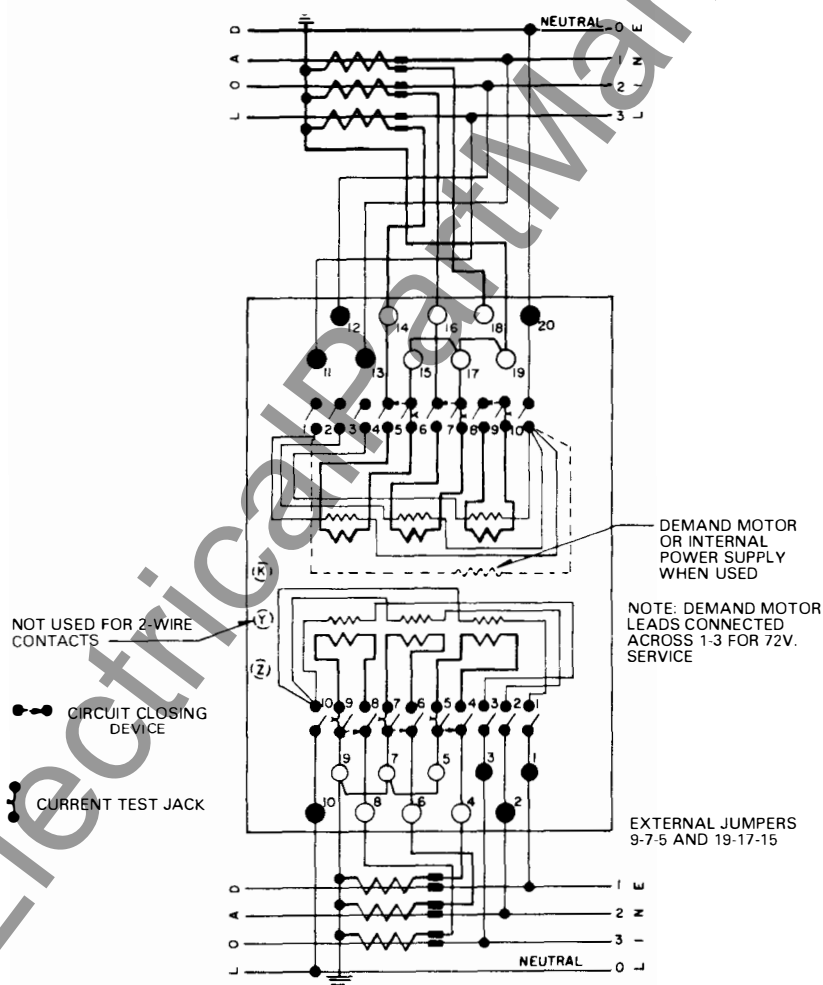
Switchboard-Type D5B-33F

All diagrams are rear view

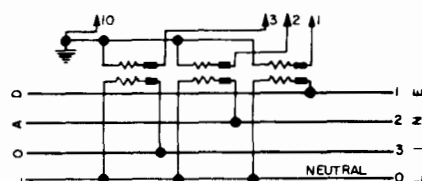
Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis



voltage transformers when used should be connected as shown above



voltage transformers when used should be connected as shown below



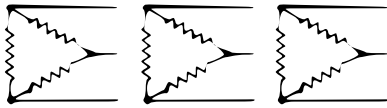


D5B-34F Polyphase Totalizing Switchboard Watthour Meters

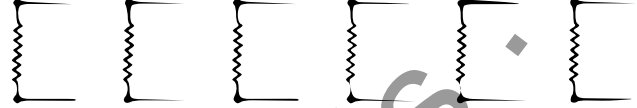
6-Stator for Totalizing 3-Circuits of 3-Phase 3-Wire Delta or for Totalizing 6-Circuits of 1-Phase 2-Wire Product Code 4824

Service Input Schematic

3-Phase
3-Wire
Delta



1-Phase
2-Wire



Tr = Effective CT ratio x effective VT ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Register Multi- plier*	Register Ratio	Style Numbers			
							Standard Clock Dial		Drum-Type Cyclometer	
							4-Dial	5-Dial	4-Drum	5-Drum
D5B-34F Switchboard Type										
Transformer-Rated	20	2.5	120	3.6	Tr	27 7/9	E4T1CLA4AA	E4T1CLA5AA	E4T1CYA4AA	E4T1CYA5AA
26-Terminal	20	2.5	240	7.2	Tr	13 8/9	E4T2CLA4AA	E4T2CLA5AA	E4T2CYA4AA	E4T2CYA5AA
FT-32 Case										

* For Primary Rated registers see Ordering Instructions on page 6.

Shipping Weights (Approximate in Pounds)

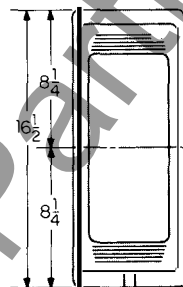
Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-34F	1	21	23	21	23	37

Shipping Carton Dimensions (Inches)

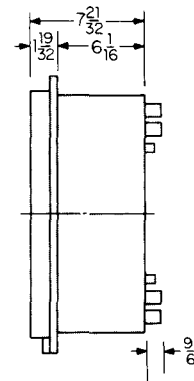
Type	Carton Quantity	Length	Width	Height
D5B-34F	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)

Front View



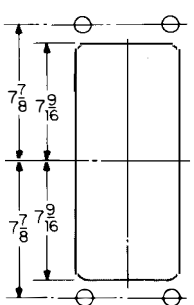
Side View



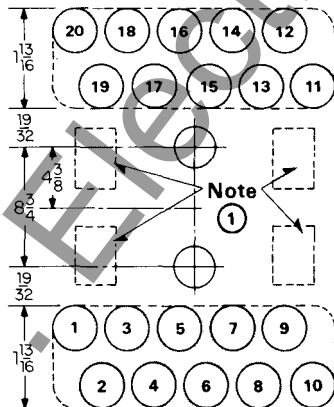
Panel Cutout Dimensions (Front View):

For reference only (Inches)

Semi-Flush



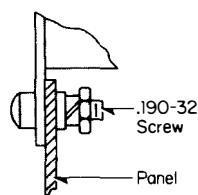
Projection



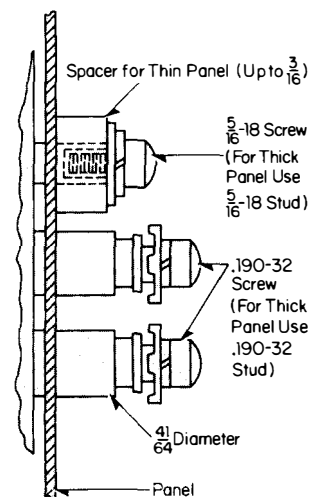
Terminal and Mounting Hardware:

For reference only (Inches)

Semi-Flush Mounting



Projection Mounting



Note 1:

Special cutout required for FT-32 case with isolated terminals for D5B-34F or D5B-34FM when used for reactive metering. (One to four cutouts may be required depending on the application.)



D5B-34F Polyphase Totalizing Switchboard Watthour Meters

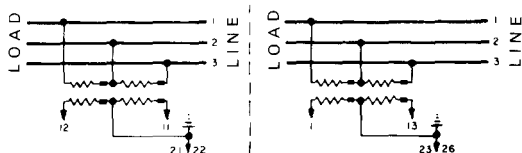
Service Connection Diagrams for Totalizing 3-Circuits of 3-Phase 3-Wire Delta or for
Totalizing 6-Circuits of 1-Phase 2-Wire Service Watthour and Demand Meters

Switchboard-Type D5B-34F

All diagrams are rear view

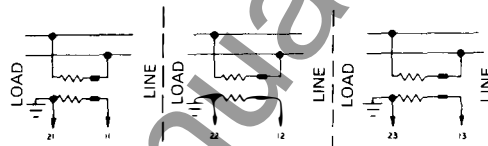
Current Closing Switches are Operated by Test Switch Handle and Also by Removal of Chassis

Totalizing 3-Circuits of 3-Phase 3-Wire Delta

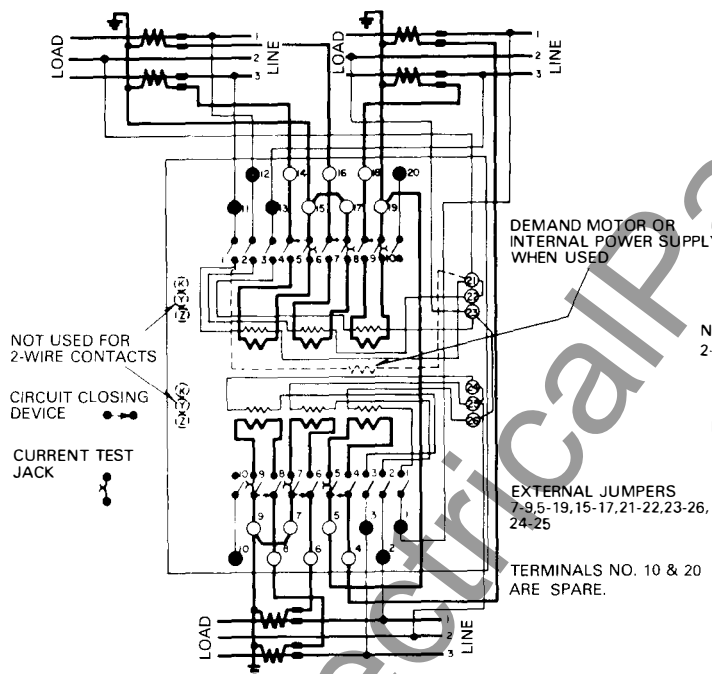


voltage transformers when used should be connected as shown above

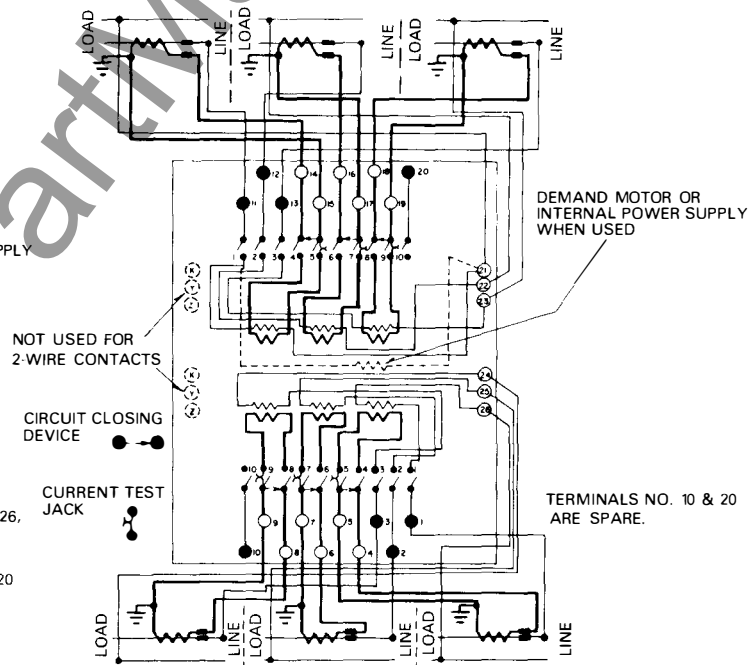
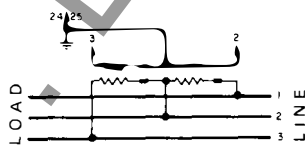
Totalizing 6-Circuits of 1-Phase 2-Wire



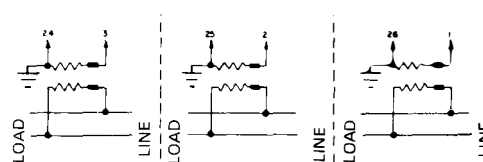
voltage transformers when used should be connected as shown above



voltage transformers when used should be connected as shown below



voltage transformers when used should be connected as shown below





D5B-31FM Single-Phase Totalizing Switchboard Watthour Demand Meters

Mark Ia Register Product Code 4833

3-Stator for Totalizing 3 Circuits of 1-Phase 2-Wire

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 & 800% of test kVA

See page 35 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-31FM Switchboard Type								
Transformer-Rated	20	2.5	120	1.8	3.6/7.2 x Tr	55 5/9	EAL111A4AA	EAL113A4AA
20-Terminal	20	2.5	240	3.6	7.2/14.4 x Tr	27 7/9	EAL211A4AA	EAL213A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

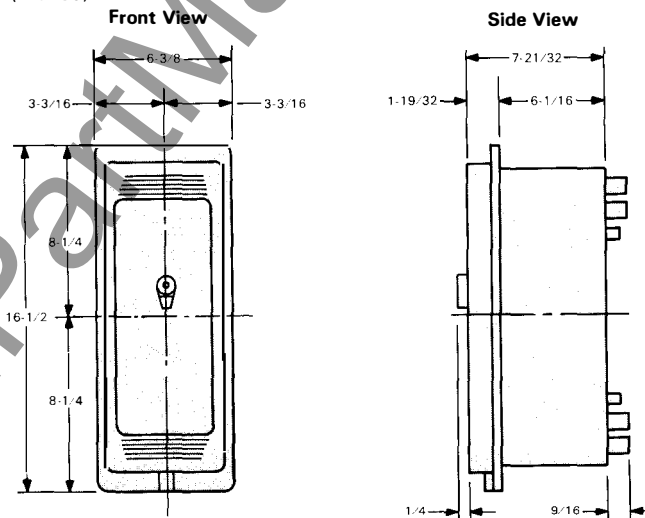
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-31FM	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-31FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 34.



D5B-32FM Polyphase Totalizing Switchboard Watthour Demand Meters Mark Ia Register Product Code 4834

4-Stator for Totalizing 2-Circuits of 3-Phase 3-Wire or 4-Circuits of 1-Phase 2-Wire

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 & 800% of test kVA

See page 37 for **Service Connections**

$Tr = \text{Effective CT Ratio} \times \text{effective VT Ratio}$

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-32FM Switchboard Type								
Transformer-Rated	20	25	120	2.4	4.8/ 9.6 x Tr	41 2/3	E2M161A4AX	E2M163A4AX
20-Terminal	20	2.5	240	4.8	9.6/19.2 x Tr	20 5/6	E2M211A4AA	E2M213A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

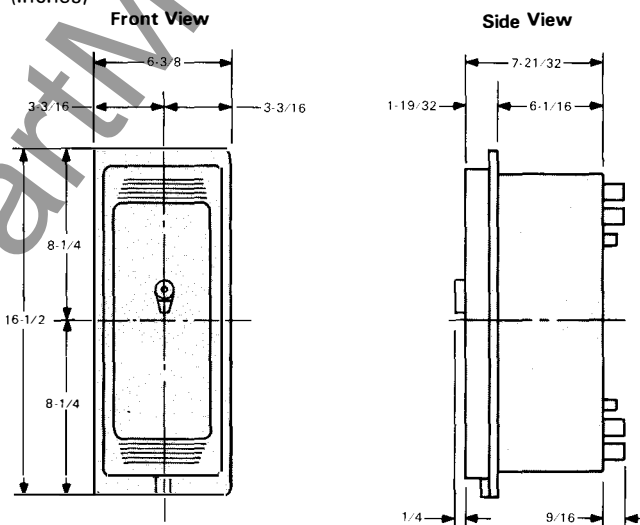
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-32FM	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-32FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 36.



D5B-38FM Polyphase Totalizing Switchboard Watthour Demand Meters Mark Ia Register Product Code 4834

4-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire Wye

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 & 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.

120 volt meters are for use on 120/208V circuits.

240 volt meters are for use on 265/460V or 277/480V circuits.

See page 39 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-38FM Switchboard Type	20	2.5	72	2.16	4.32/8.64 x Tr	46 8/27	E8P711A4AA	E8P713A4AA
Transformer-Rated	20	2.5	120	3.6	7.2/14.4 x Tr	27 7/9	E8P111A4AA	E8P113A4AA
20-Terminal	20	2.5	240	7.2	14.4/28.8 x Tr	13 8/9	E8P211A4AA	E8P213A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

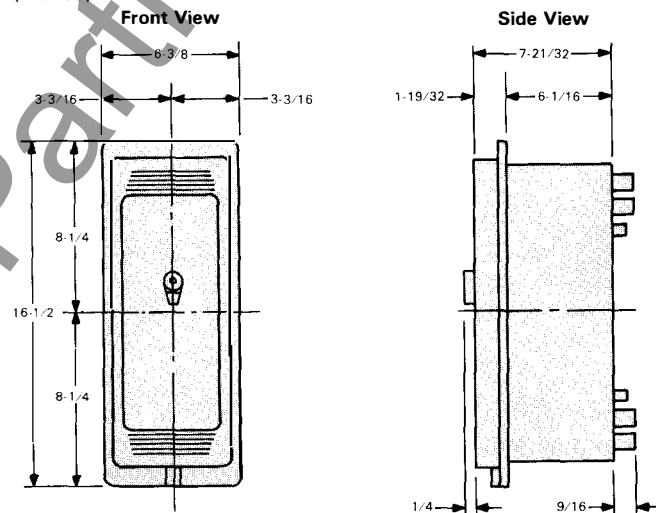
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-38FM	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-38FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 38.

**D5B-33FM Polyphase Totalizing Switchboard Watthour Demand Meters**

Mark Ia Register Product Code 4834

6-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire Wye

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 & 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.

120 volt meters are for use on 120/208V circuits.

240 volt meters are for use on 265/460V or 277/480V circuits.

See page 41 for **Service Connections** $Tr = \text{Effective CT Ratio} \times \text{effective VT Ratio}$

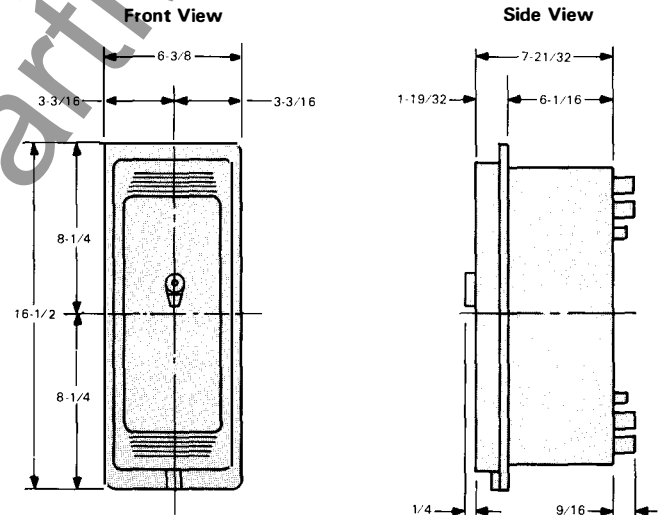
Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-33FM Switchboard Type	20	2.5	72	2.16	4.32/8.64 x Tr	46 8/27	E3R711A4AA	E3R713A4AA
Transformer-Rated	20	2.5	120	3.6	7.2/14.4 x Tr	27 7/9	E3R111A4AA	E3R113A4AA
20-Terminal FT-32 Case	20	2.5	240	7.2	14.4/28.8 x Tr	13 8/9	E3R211A4AA	E3R213A4AA

* For **Primary Rated** registers see **Ordering Instructions** on page 6.**Shipping Weights** (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-33FM	1	21	23	21	23	37

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-33FM	1	21	12	12 1/2

Case Dimensions: For reference only
(Inches)For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 40.



D5B-34FM Polyphase Totalizing Switchboard Watthour Demand Meters Mark Ia Register Product Code 4834

6-Stator for Totalizing 3-Circuits of 3-Phase 3-Wire Delta

or for Totalizing 6-Circuits of 1-Phase 2-Wire

Mark Ia Dual-Range Indicating Mechanical Demand Register

Transformer-Rated Registers Class 4/8, Standard FSKW = 400 & 800% of test kVA

See page 43 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-34FM Switchboard Type								
Transformer-Rated	20	2.5	120	3.6	7.2/14.4 x Tr	27 7/9	E4T111A4AA	E4T113A4AA
26-Terminal	20	2.5	240	7.2	14.4/28.8 x Tr	13 8/9	E4T211A4AA	E4T213A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

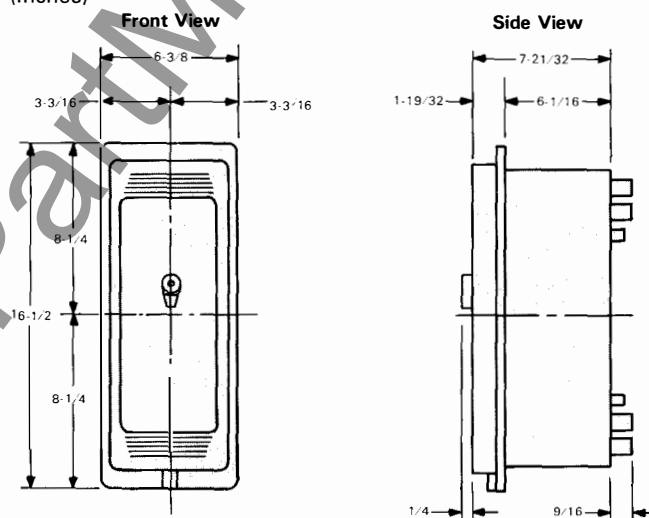
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-34FM	1	21	23	21	23	37

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-34FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 42.

**D5B-31FM Single-Phase Totalizing Switchboard Watthour Demand Meters**

Mark IIIa Register Product Code 4833

3-Stator for Totalizing 3-Circuits of 1-Phase 2-Wire

Mark IIIa Clock-Dial Mechanical Demand Register

Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

See page 35 for **Service Connections** $Tr = \text{Effective CT Ratio} \times \text{effective VT Ratio}$

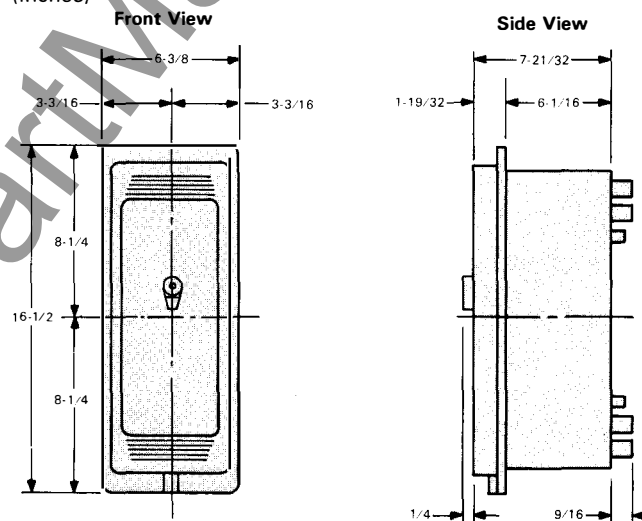
Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-31FM Switchboard Type								
Transformer-Rated	20	2.5	120	1.8	7.2 x Tr	55 5/9	EAL131A4AA	EAL133A4AA
20-Terminal	20	2.5	240	3.6	14.4 x Tr	27 7/9	EAL231A4AA	EAL233A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.**Shipping Weights** (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-31FM	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-31FM	1	21	12	12 1/2

Case Dimensions: For reference only
(Inches)For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 34.



D5B-32FM Polyphase Totalizing Switchboard Watthour Demand Meters
Mark IIIa Register Product Code 4834

4-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire or 4-Circuits of 1-Phase 2-Wire
Mark IIIa Clock-Dial Mechanical Demand Register
Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

See page 37 for **Service Connections**
Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial 15 Minute Interval	30 Minute Interval
D5B-32FM Switchboard Type Transformer-Rated 20-Terminal FT-32 Case	20 20	2.5 2.5	120 240	2.4 4.8	9.6 x Tr 19.2 x Tr	41 2/3 20 5/6	E2M181A4AX E2M231A4AA	E2M183A4AX E2M233A4AA

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

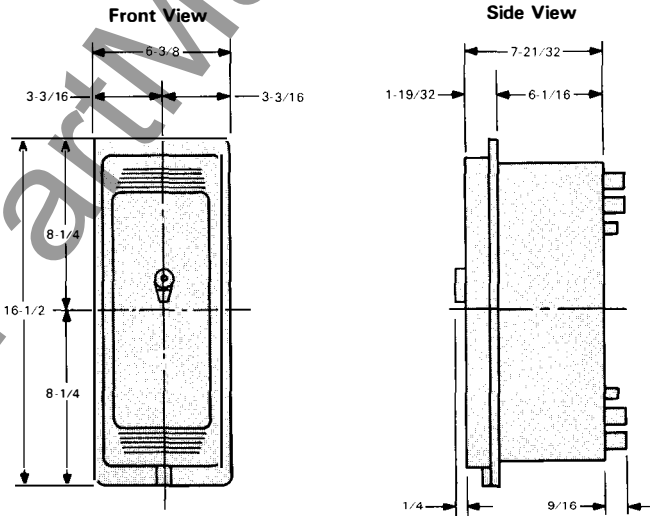
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-32FM	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-32FM	1	21	12	12 1/2

Case Dimensions: For reference only
(Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 36.



D5B-38FM Polyphase Totalizing Switchboard Watthour Demand Meters

Mark IIIa Register Product Code 4834

4-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire Wye

Mark IIIa Clock-Dial Mechanical Demand Register

Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.

120 volt meters are for use on 120/208V circuits.

240 volt meters are for use on 265/460V or 277/480V circuits.

See page 39 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-38FM Switchboard Type	20	2.5	72	2.16	8.64 x Tr	46 8/27	E8P731A4AA	E8P733A4AA
Transformer-Rated	20	2.5	120	3.6	14.4 x Tr	27 7/9	E8P131A4AA	E8P133A4AA
20-Terminal FT-32 Case	20	2.5	240	7.2	28.8 x Tr	13 8/9	E8P231A4AA	E8P233A4AA

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

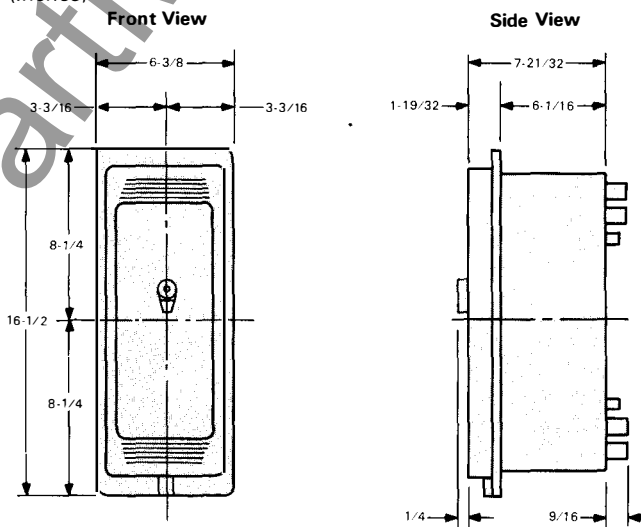
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-38FM	1	19	21	19	21	35

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-38FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 38.



D5B-33FM Polyphase Totalizing Switchboard Watthour Demand Meters Mark IIIa Register Product Code 4834

6-Stator for Totalizing 2-Circuits of 3-Phase 4-Wire Wye

Mark IIIa Clock-Dial Mechanical Demand Register

Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

72 volt meters are for use on 69.2/120V circuits.

120 volt meters are for use on 120/208V circuits.

240 volt meters are for use on 265/460V or 277/480V circuits.

See page 41 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-33FM Switchboard Type	20	2.5	72	2.16	8.64 x Tr	46 8/27	E3R731A4AA	E3R733A4AA
Transformer-Rated	20	2.5	120	3.6	14.4 x Tr	27 7/9	E3R131A4AA	E3R133A4AA
20-Terminal	20	2.5	240	7.2	28.8 x Tr	13 8/9	E3R231A4AA	E3R233A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

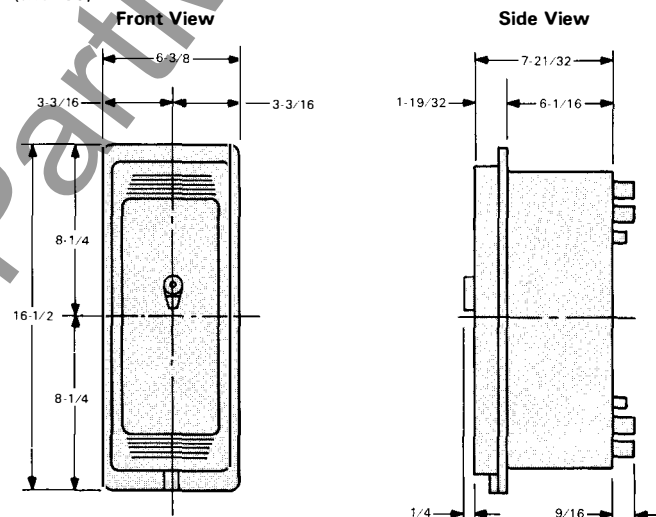
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-33FM	1	21	23	21	23	37

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-33FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 40.



D5B-34FM Polyphase Totalizing Switchboard Watthour Demand Meters

Mark IIIa Register Product Code 4834

6-Stator for Totalizing 3-Circuits of 3-Phase 3-Wire Delta
or for Totalizing 6-Circuits of 1-Phase 2-Wire

Mark IIIa Clock-Dial Mechanical Demand Register

Transformer-Rated Registers Class 8, Standard FSKW = 800% of test kVA

See page 43 for **Service Connections**

Tr = Effective CT Ratio x effective VT Ratio

Type # Terminals Case Size	Class	Test Amps	Volts	Kh	Full Scale kW and Multiplier*	Register Ratio	Style Numbers	
							4-Dial	
							15 Minute Interval	30 Minute Interval
D5B-34FM Switchboard Type								
Transformer-Rated	20	2.5	120	3.6	14.4 x Tr	27 7/9	E4T131A4AA	E4T133A4AA
26-Terminal	20	2.5	240	7.2	28.8 x Tr	13 8/9	E4T231A4AA	E4T233A4AA
FT-32 Case								

* For **Primary Rated** registers see **Ordering Instructions** on page 6.

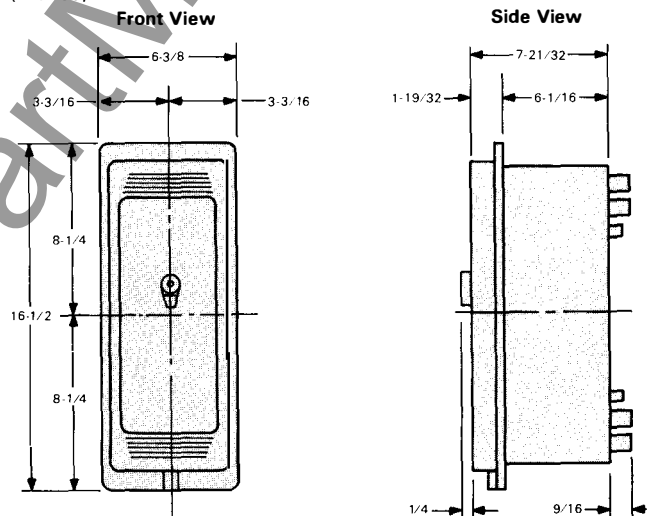
Shipping Weights (Approximate in Pounds)

Type	Carton Quantity	Domestic		Export		
		Net	Shipping	Net	Legal	Gross
D5B-34FM	1	21	23	21	23	37

Shipping Carton Dimensions (Inches)

Type	Carton Quantity	Length	Width	Height
D5B-34FM	1	21	12	12 1/2

Case Dimensions: For reference only (Inches)



For Panel Cutout Dimensions and
Terminal and Mounting Hardware,
see page 42.



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