

Product Selection

PM3 Modules

Frame	Catalog Number	
	480 V	600 V
Modbus		
FD	—	PM3FM
JG	—	PM3JM
KD and LG	—	PM3LM
INCOM		
FD	PM3FI480	PM3FI600
JG	PM3JI480	PM3JI600
KD and LG	PM3LI480	PM3LI600

End Cap Kits (Sold Separately)

Frame	Description	Catalog Number
FD	Metric end cap kit for F-Frame	KPEKM1
	English end cap kit for F-Frame	KPEK1
JG	Metric end cap kit for JG-Frame	FJ3RTWK
	English end cap kit for JG-Frame	FJ3RTDK
KD	Metric end cap kit for K-Frame	KPEKM3
	English end cap kit for K-Frame	KPEK3
LG	Metric end cap kit for LG-Frame	L3RTWK

Technical Data and Specifications

Metered parameters

- I_A , I_B , I_C
- V_{AB} , V_{BC} , V_{CA} , V_{an} , V_{bn} , V_{cn}
- Apparent Energy, Forward Real Energy, Reverse Real Energy, Net Real Energy, Lagging Reactive Energy, Leading Reactive Energy, Net Reactive Energy
- Apparent Power A, B, C; Apparent Power Total; Reactive Power A, B, C; Reactive Power Total; Real Power A, B, C; Real Power Total
- Frequency, Apparent Power Factor, Apparent PFA, Apparent PFB, Apparent PFC

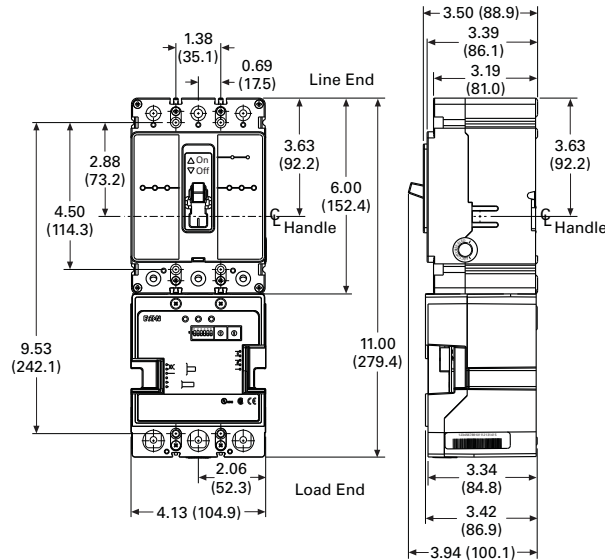
PM3 Power Monitoring and Communications Module Technical Specifications for Modbus RTU

Description	Specification	
Current Inputs		
Pickup current	0.3A rms	
Maximum reported current	FD/JG 250 A rms KD/LD 630 A rms	
Accuracy	0.5% of reading	
Voltage Inputs		
Range	Line-to-neutral 30–366 Vac Line-to-line 52–635 Vac	
Supported systems	Three-element wye, three-element wye + neutral Two-element delta, four-wire delta systems	
Input impedance	996 kilohm/phase	
Burden per phase	0.36 VA/phase max. at 600 V; 0.014 VA at 120V	
Phase voltage connections	Internal via screw terminal to busbar For wye system, a neutral is required to be connected to the PM3 on the right Phoenix connector.	
Neutral connection	If neutral is not available, the meter will calculate a virtual neutral based on the phase-to-phase rms voltage. The system voltage must be balanced for this to be accurate.	
Frequency		
Frequency	50/60 Hz	
Accuracy	± 0.1 Hz	
Resolution	0.1 Hz	
Power and Energy		
Accuracy	1% of reading (ANSI C12.1)	
Isolation		
All inputs and outputs are galvanically isolated to 2500 V.		
Environmental Ratings		
Operating temperature	–20 °C to +50 °C	
Storage temperature	–20 °C to +50 °C	
Operating humidity	5 to 95% RH noncondensing	
Sensing Method		
Voltage, current	True rms	
Sampling rate	13.02K samples per second	
Update Rate		
Watts, VAR and VA	1.03 sec at 60 Hz	
All other parameters	1.07 sec at 60 Hz	
Power Supply (External)		
DC voltage	18–30 Vdc	
Maximum current	30.0 mA at 24 Vdc	
Burden	0.72W	
Standard Communication Format		
Connection type	Three-wire RS-485 (A, B, Common)	
Com port baud rate	9600 or 19,200 bauds	Default: 19,200 bauds
Modbus address range	01–247	
Data format	Selectable (8, N, 1 8, N, 2 8, Even, 1 8, Odd, 1)	Default: 8, N, 2
Protocols	Modbus RTU	
Internal termination resistor selectable ON or OFF	Via DIP switch	Default: Enabled

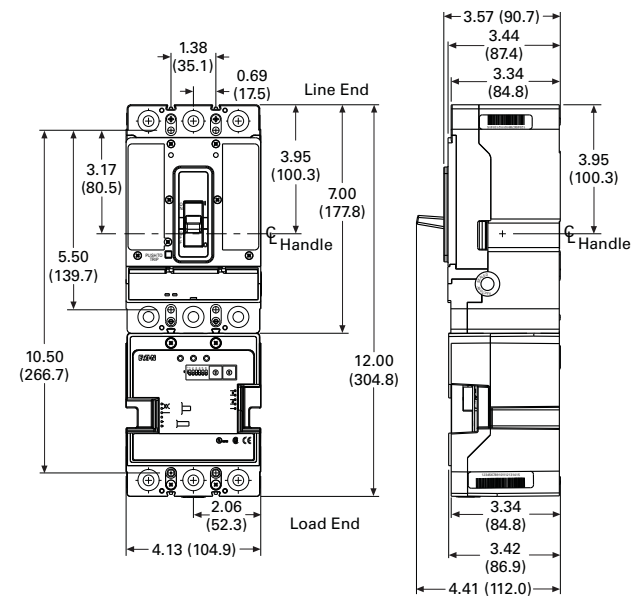
Dimensions and Weights

Approximate Dimensions in Inches (mm)

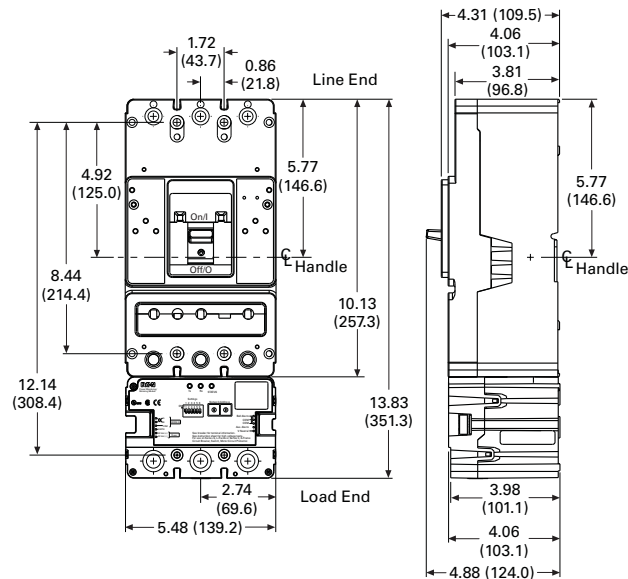
FD Three-Pole with PM3 Modbus



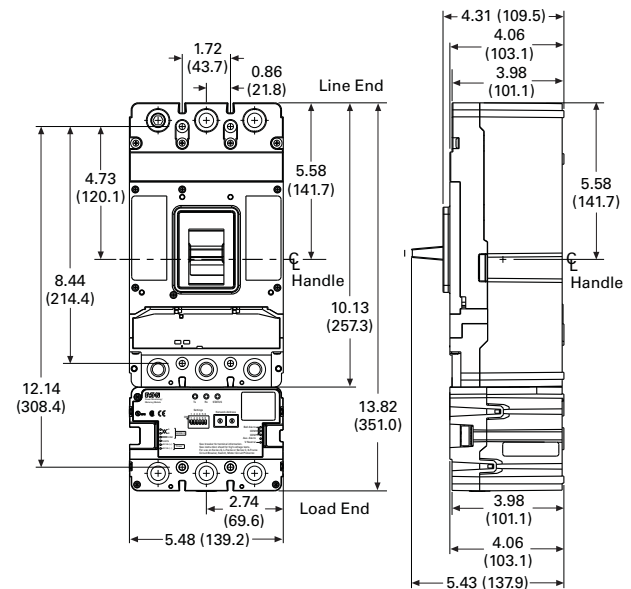
JG Three-Pole with PM3 Modbus



KD Three-Pole with PM3 Modbus



LG Three-Pole with PM3 Modbus



PM3 Dimensions and Shipping Weights

Description	Frame	Dimensions and Weights
Weight in lbs (kg)	FD	1.26 (0.57)
	JG	1.60 (0.73)
	KD/LG	2.25 (1.02)
Basic unit in inches (mm)	FD	4.13 W x 5.00 L x 3.39 H (104.9 x 127.0 x 86.1)
	JG	4.13 W x 5.00 L x 3.39 H (104.9 x 127.0 x 86.1)
	KD/LG	5.48 W x 3.70 L x 4.06 H (139.2 x 94.0 x 103.2)
Shipping container dimensions in inches (mm)	FD/JG	8.00 x 5.13 x 5.50 (203.2 x 130.3 x 139.7)
	KD/LG	6.25 x 8.25 x 7.00 (158.7 x 209.5 x 177.8)