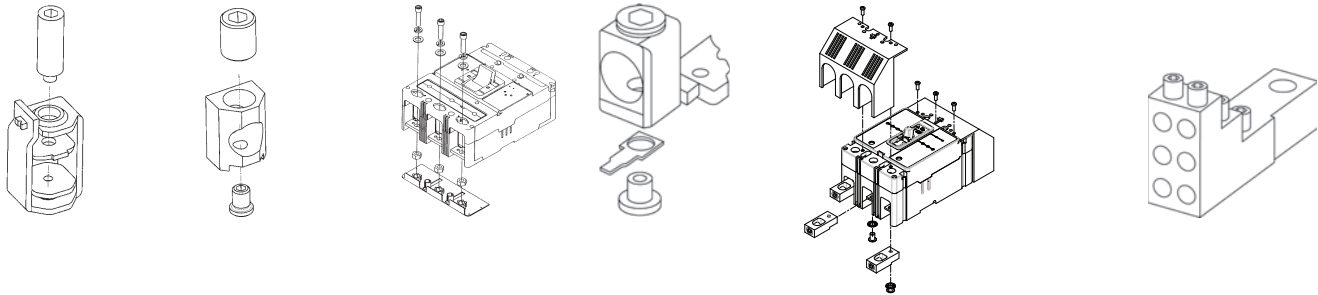


Accessories Selection Guide and Ordering Information

JG-Frame



T250FJ	TA250FJ	Endcap Kit	Control Wire Terminal Kit	Rear Fed Terminals	Multiwire Connectors
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Load and Line Terminals

Maximum Breaker Amperes	Terminal Body Material	Wire Type	Metric Wire Range mm ²	AWG Wire Range/ Number of Conductors	Catalog Number
Standard Pressure Type Terminals					
250	Stainless steel	Cu	25–185	#4–350 (1)	T250FJ ①
250	Aluminum	Cu/Al	10–185	#8–350 (1)	TA250FJ ①②

JG-Frame circuit breakers include aluminum terminals TA250FJ as standard. When optional stainless steel only terminals are required, order by catalog number.

Endcap Kits

Number of Poles	Catalog Number	
	Metric	Imperial
3	FJ3RTWK	FJ3RTDK
4	FJ4RTWK	FJ4RTDK

Endcap kits are used on J250-Frame breaker to connect busbar or similar electrical connections. Includes hardware.

Control Wire Terminal Kit

Description	Catalog Number
Package of 14 (priced individually)	FJCWTK

For use with aluminum or copper terminals only.

Rear Fed Terminals

Maximum Amperes	Wire Size Range AWG Cu	Catalog Number
250	#4–350 kcmil	TA250JGRF 3TA250JGRF

Rear fed terminals allow the cable to connect to the breaker from the back instead of the top. Terminal shields or interphase barriers are included with each rear fed terminal kit (depending on frame size). When catalog number starts with a 3, it indicates a kit with three terminals in each kit. Catalog number beginning with a TA indicates one terminal.

Base Mounting Hardware

Base mounting hardware is included with a circuit breaker or molded case switch. (Included with breaker.) If required separately, order 66A2546G02.

Terminal Shields IP30

Location	Number of Poles	Catalog Number
Line or Load	2, 3	FJTS3K
	4	FJTS4K

Interphase Barriers

Number of Poles	Catalog Number
3	FJIPBK ③
4	FJIPBK4 ③

Multiwire Connectors

Field-installed multiwire connectors for the load side (OFF) end terminals are used to distribute the load from the circuit breaker to multiple devices without the use of separate distribution terminal blocks.

Multiwire lug kits include terminal shield, mounting hardware, insulators and tin-plated aluminum connectors to replace three mechanical load lugs. UL listed as used on the load side (OFF) end.

JG-Frame Multiwire Connectors Ordering Information (Package of 3)

Maximum Amperes	Wires per Terminal	Wire Size Range AWG Cu	Kit Catalog Number
250	3	14–2	3TA250FJ3
250	6	14–6	3TA250FJ6

Notes

- ① Individually packed.
- ② Standard line and load.
- ③ Individually priced.

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

2.6

Molded Case Circuit Breakers

Specialty Breakers

PVGard Solar Circuit Breaker Terminal Offering

2

Breaker Frame	Maximum Breaker Ampacity	Terminal Body Material	Wire Type	AWG Wire Range/ Number of Conductors	Metric Wire Range mm ²	Number of Terminals Included	Standard Terminal Catalog Number	Comments
FD PV	50	Steel	Cu/Al	14–4 (1)	2.5–25 (1)	3	3TA50FB	
	100	Aluminum	Cu/Al	6–300 kcmil (1)	16–150 (1)	3	3TA225FDK3	Includes 3P terminal cover
	100	Aluminum	Cu/Al	6–300 kcmil (1)	16–150 (1)	3	3TA225FDK	Includes 3P terminal cover Replacement use only
	100	Copper	Cu	4–4/0 (1)	25–95 (1)	3	3T225FD	
JG PVS	250	Aluminum	Cu/Al	#8–350 kcmil (1)	—	—	TA250FJ	
	250	Aluminum	Cu/Al	(2) 2/0–(2) 4/0	—	①	3TA251FJK1	
	250	Aluminum	Cu/Al	(2) 2/0–(2) 4/0	—	②	3TA251FJK2	
	250	Copper	Cu	#4–350 kcmil (1)	—	—	T250FJ	
KD PV KD PVS	225	Aluminum	Cu/Al	3–350 kcmil (1)	35–185 (1)	1	TA300K	
	250	Aluminum	Cu/Al	250–500 kcmil (1)	120–240 (1)	1	TA350K	
	250	Aluminum	Cu/Al	3/0–250 kcmil (2)	95–120 (1)	4	4TA400K	Contains interphase barriers
	250	Aluminum	Cu/Al	2/0–250 kcmil (2) or 2/0–500 kcmil (1)	70–240 (2)	4	4TA401K	
	300	Aluminum	Cu/Al	3/0–250 kcmil (2)	95–120 (2)	4	4TA401K	Contains interphase barriers
	350	Aluminum	Cu/Al	3/0–250 kcmil (2)	95–120 (2)	4	4TA401K	Contains interphase barriers
	225	Copper	Cu	3–350 kcmil (1)	35–185 (1)	1	T300K	
	250	Copper	Cu	250–500 kcmil (1)	120–240 (1)	1	T350K	
	250	Copper	Cu	3/0–250 kcmil (2)	95–120 (1)	4	4T400K	Contains interphase barriers
	300	Copper	Cu	3/0–250 kcmil (2)	95–120 (2)	4	4TA401K	Contains interphase barriers
	350	Copper	Cu	3/0–250 kcmil (2)	95–120 (2)	4	4TA401K	Contains interphase barriers
	350	Copper	Cu	3/0–250 kcmil (2)	95–120 (2)	4	4TA401K	Contains interphase barriers
LG PV	400	Aluminum	Cu/Al	2–500 kcmil (2)	35–240 (2)	4	4TA632LK	Includes 4P terminal cover
	250	Copper	Cu	2–500 kcmil (1)	35–240 (1)	1	T350LK	
	400	Copper	Cu	2–500 kcmil (2)	35–240 (2)	4	4T632LK	Includes 4P terminal cover
MDL PV	300	Aluminum	Cu/Al	1–500 kcmil (2)	—	1	TA700MA1	
	600	Aluminum	Cu/Al	3/0–400 kcmil (3)	—	1	TA800MA2	

Endcap Kits

Breaker Frame	Number of Poles	Thread Type	Thread Size	Catalog Number
FD PV	4	Imperial	10–32	KPEK14
	4	Metric	M–5	KPEKM14
JG PVS	3	Imperial	—	FJ3RTDK
	3	Metric	—	FJ3RTWK
KD PV	4	Imperial	0.312–18	KPEK34
	4	Metric	M–8	KPEKM34
KD PVS	3	Imperial	—	KPEK3
	3	Metric	—	KPEKM3
LG PV	4	Imperial	—	N/A
	4	Metric	M–10	L4RTWK
MDL PV	3	Imperial	—	—
	3	Metric	—	—

Notes

- ① Three terminals with terminal shield as a kit.
- ② Three terminals with two interphase barriers as a kit.