

Accessories Selection Guide and Ordering Guide

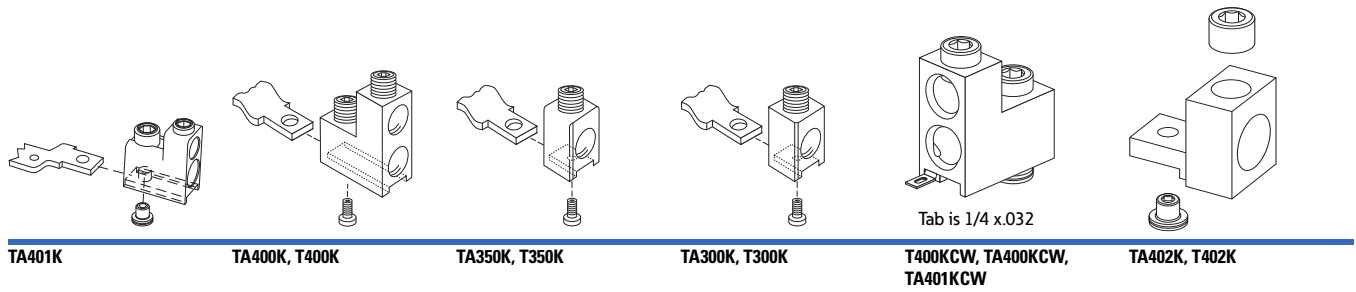
Line and Load Terminals

Eaton’s line and load terminals provide wire connecting capabilities for specific ranges of continuous current ratings and wire types. All terminals comply with Underwriters Laboratories Standards

UL 486A and UL 486B and CSA Standard C22.2 No. 65, or Electrical Bulletin 1165. Unless otherwise specified, K-Frame circuit breaker line and load terminals are shipped separately for field installation.

Ordering Information

K-Frame circuit breakers use Cu/Al terminals as standard. When optional copper or Cu/Al terminals are required, order by catalog number. Specify if factory installation is required.



Line and Load Terminals

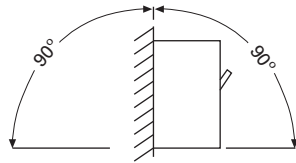
Maximum Breaker Amperes	Terminal Body Material	Wire Type	AWG Wire Range/No. Conductors	Metric Wire Range mm ²	Terminal	Terminals with Control Wire Termination
					Catalog Number	Catalog Number
Standard Cu/Al Pressure Terminals						
225	Aluminum	Cu/Al	3–350 (1)	35–185	TA300K ①	—
400	Aluminum	Cu/Al	250–500 (1)	120–240	TA350K ①	—
400	Aluminum	Cu/Al	3/0–250 (2)	95–120	2TA400K ②③	2TA400KCW ②③
400	Aluminum	Cu/Al	3/0–250 (2)	95–120	3TA400K ②④	3TA400KCW ②④
400	Aluminum	Cu/Al	3/0–250 (2)	95–120	4TA400K ⑤⑥	4TA400KCW ⑤⑥
Optional Copper and Cu/Al Pressure Type Terminals						
225	Copper	Cu	3–350 (1)	35–185	T300K ①	—
400	Copper	Cu	250–500 (1)	120–240	T350K ①	—
400	Copper	Cu	3/0–250 (2)	95–120	2T400K ③	2T400KCW ②③
					3T400K ④	3T400KCW ②④
					4T400K ⑤	4T400KCW ⑤⑥
400	Aluminum	Cu/Al	2/0–250 (2) or 2/0–500 (1)	70–120	2TA401K ②③	2TA401KCW ②③
				70–240	3TA401K ②④	3TA401KCW ②④
				70–240	4TA401K ⑤⑥	4TA401KCW ⑤⑥
400	Aluminum	Cu/Al	500–750 (1)	300–400	2TA402K ②③	—
					3TA402K ②④	—
					4TA402K ⑤⑥	—
400	Copper	Cu	500–750 (1)	—	2T402K ②③	—
					3T402K ②④	—
					4T402K ⑤⑥	—

Notes

- ① Individually packed.
- ② Terminal kits contain one terminal for each pole and one terminal cover.
- ③ Two-pole kit.
- ④ Three-pole kit.
- ⑤ Four-pole kit.
- ⑥ Terminal kits contain one terminal for each pole and three interphase barriers.

PVGuard 600 Vdc Per-Pole Solar PV Circuit Breakers (100% and 80% Rated Frames)

	JG PVS	KD PVS
Number of 600 Vdc circuits	3	3
Maximum voltage rating	600 Vdc	600 Vdc
Ampere range	90–250 A	100–400 A
Interrupting capacity at 600 Vdc	1.2 kA	3 kA
Time constant	1 ms	1 ms
Trip unit type	Thermal-magnetic	Thermal-magnetic
Rated impulse withstand voltage		
Main conducting paths	8 kV	8 kV
Auxiliary circuits	4 kV	4 kV
Endurance		
Mechanical operations	10,000	6000
Electrical operations	400	400
Maximum switching frequency	240 per hour	240 per hour
Third-party certification	UL 489B	UL 489B
Environment		
Design ambient temperature	50 °C	50 °C
Maximum current at 60 °C, as % of rated current	93%	93%
Maximum current at 70 °C, as % of rated current	85%	85%
Operating temperature range	–20 °C to +50 °C	–20 °C to +50 °C
Storage temperature range	–20 °C to +70 °C	–20 °C to +70 °C
Suitable for freeze temperatures to –40 °C	Option	Option
Relative humidity	0 to 95% noncondensing	0 to 95% noncondensing
Suitable for reverse-feed applications	Yes	Yes
Mounting—permissible mounting position		



Connection diagrams

Terminations

Al/Cu wire	TA250FJ: (1) #8–350 kcmil	TA300K: (1) #3–350 kcmil
	3TA251FJK1: (2) 2/0–(2) 4/0 ^①	TA350K: (1) 250–500 kcmil
	3TA251FJK2: (2) 2/0–(2) 4/0 ^②	TA403K: (2) 1/0–400 kcmil
Cu wire	T250FJ: (1) #4–350 kcmil	3TA402K: (1) 500–750 kcmil ^③
	T300K: (1) #3–350 kcmil	
Dimensions in inches (mm)		
Height	7.00 (177.8)	10.13 (257.3)
Width	4.13 (104.9)	5.50 (139.7)
Depth	3.57 (90.7)	4.10 (104.1)
Weight in lbs	6.6	11.42

Notes

- ① Three terminals with terminal shield as a kit.
- ② Three terminals with two interphase barriers as a kit.
- ③ Not UL 489B recognized size for maximum of 400 A breaker.