

Circuit Breaker Enclosures

NEMA Type 1

Product Features

- Suitable for use as service equipment (SE) as noted.
- 60°C/75°C conductor ratings
- Short circuit ratings are equal to the rating of the installed breaker.

To order enclosed or accessorized circuit breakers, a configurator is available at: empower.abb.com



Type 1, Indoor Surface or Flush Mounting

NEMA Type 1

			Certifications				Product Number			For 3P4W Enclosures	For Enclosures with Ground Fault Protection	
Max. Ampere Rating	Frame Type	No. of Poles	UL SE	cUL	cUL SE ¹	CSA	Flush	Surface	Surface, Blank End Wall ²	Neutral Product Number	Neutral Product Number ³	Neutral Sensor for Ground Fault ⁶
70	THQL, TXQL, THQL-GF	1, 2, 3	•	•	-	-	TQL70F ⁴	TQL70S ⁴	-	Included	-	-
100	THQL, TXQL, THQL-GF	1, 2, 3	•	•	-	-	TQL100F ⁴	TQL100S ⁴	-	Included	-	-
125	THQL	2	•	•	-	-	TQL125F	TQL125S	-	Included	-	-
100	THQC, THHQC, TXQC	1, 2, 3	•	•	-	-	TQC100F ⁴	TQC100S ⁴	-	Included	-	-
250	Formula A2	2, 3	•	•	-	-	A2ENCL250F	A2ENCL250S	-	Included	-	-
100	SE150, THED, TED, TEB	2, 3	•	•	-	-	TE100F	TE100S	TE100SB	Included	-	-
150	SE150, THED, TED	2, 3	•	•	•	-	TE150F	TE150S	TE150SB	Included	-	-
125	Tmax XT1	3	•	•	-	-	XT1ENCL125F	XT1ENCL125S	-	Included	-	-
125	Tmax XT2	3	•	•	-	-	XT2ENCL125F	XT2ENCL125S	-	TNIA225 ⁵	TNIA250XTGF	1SDA067211R1 (10A DIP) 1SDA067212R1 (25A DIP) 1SDA081983R1 (60A DIP) 1SDA069143R1 (100A DIP) 1SDA081984R1 (125A DIP) 1SDA101971R1 (60A Touch) 1SDA101972R1 (100A Touch) 1SDA107406R1 (60A Touch V) 1SDA107407R1 (100A Touch V)
225	Tmax XT3	3	•	•	-	-	XT3ENCL225F	XT3ENCL225S	-	Included	-	-

¹cUL Listed - Suitable for use as service equipment.

²Enclosures with blank end walls (no Knockouts) and a feature to adjust the instantaneous setting on Spectra Circuit breakers.

³Neutral for ground fault required to mount neutral sensor in enclosure.

⁴3-Pole breakers with an accessory cannot be installed in these enclosures.

⁵For 250A rating, use copper cable only.

⁶Neutral Sensor for Ground Fault requires connector cable KXTCECNEFP purchased separately.

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Circuit Breaker Enclosures

NEMA Type 1

NEMA Type 1 (continued)

			Certifications				Product Number			For 3P4W Enclosures	For Enclosures with Ground Fault Protection	
Max. Ampere Rating	Frame Type	No. of Poles	UL SE	cUL	cUL SE ¹	CSA	Flush	Surface	Surface, Blank End Wall ²	Neutral Product Number	Neutral Product Number ³	Neutral Sensor for Ground Fault ⁷
250	Tmax XT4	3	•	•	-	-	XT4ENCL250F	XT4ENCL250S	-	TNIA225 ⁴	TNIA250XTGF	1SDA066975R1 (40A DIP) 1SDA081985R1 (60A DIP) 1SDA066977R1 (100A DIP) 1SDA081986R1 (150A DIP) 1SDA081987R1 (225A DIP) 1SDA066979R1 (250A DIP) 1SDA101973R1 (Touch) 1SDA107408R1 (Touch V)
250	SF250	2, 3	•	-	-	•	SF250F	SF250S	SF250SB	TNIA225 ⁴	-	-
600	Tmax XT5	3	•	•	-	-	XT5ENCL600F	XT5ENCL600S	-	TNIA400 TNIA600	TNIA400XTGF TNIA600XTGF	1SDA101966R1 (250A DIP) 1SDA105152R1 (300A DIP) 1SDA105154R1 (400A DIP) 1SDA105155R1 (600A DIP) 1SDA101974R1 (Touch) 1SDA107409R1 (Touch V)
400	SG400	2, 3	•	-	-	•	SG400F	SG400S	SG400SB	TNIA400	TNIA400VG	TSRG201 TSRG204
600	SG600	2, 3	•	-	-	•	SG600F	SG600S	SG600SB	TNIA600	TNIA600VG	TSRG206
800	Tmax XT6	3	•	•	-	-	XT6ENCL800F	XT6ENCL800S	-	TNIA800	TNIA800XTGF	1SDA105158R1 (800A)
1200	Tmax XT7	3	•	•	-	-	XT7ENCL1200F	XT7ENCL1200S	-	TNIA1200	TNIA1200XTGF	1SDA082134R1
1200	SK1200	2, 3	•	-	-	•	TK4V1200F ^{5,6}	TK4V1200S ^{5,6}	TK4V1200SB ^{5,6}	TNIA400 TNIA600 TNIA800 TNIA1200 TNIA1200	TNIA800G TNIA1200G	TSKG408 TSKG410 TSKG412

¹cUL Listed - Suitable for use as service equipment.

²Enclosures with blank end walls (no Knockouts) and a feature to adjust the instantaneous setting on Spectra Circuit breakers.

³Neutral for ground fault required to mount neutral sensor in enclosure.

⁴For 250A rating, use copper cable only.

⁵Not suitable for 100% rated 1200A SK breakers.

⁶Suitable for parallel 500 kcmil maximum.

⁷Neutral Sensor for Ground Fault requires connector cable KXTCECNEFP purchased separately.

Circuit Breaker Enclosures

NEMA Type 3R

Product Features

- Suitable for use as service equipment (SE) as noted.
- 60°C/75°C conductor ratings
- Short circuit ratings are equal to the rating of the installed breaker.

To order enclosed or accessorized circuit breakers, a configurator is available at: empower.abb.com



Type 3R, Outdoor, Raintight

NEMA Type 3R

Max. Ampere Rating	Frame Type	Certifications						For 3P4W Enclosures	For Enclosures with Ground Fault Protection		
		No. of Poles	UL SE	cUL	cUL SE ¹	CSA	Product Number ⁹	Neutral Product Number	Neutral Product Number ²	Neutral Sensor for Ground Fault ¹⁰	
100	THQL, TXQL, THQL-GF	1, 2, 3	•	-	-	•	TQL70R ³	Included	-	-	
100	THQL, TXQL, THQL-GF	1, 2, 3	•	-	-	•	TQL100R ³	Included	-	-	
125	THQL	2	•	-	-	•	TQL125R	Included	-	-	
100	THQC, THHQC, TXQC	1, 2, 3	•	-	-	•	TQC100R ³	Included	-	-	
250	Formula A2	2, 3	•	•	•	-	A2ENCL250R	Included	-	-	
100	SE150, THED, TED, TEB	2, 3	•	-	-	•	TE100R	Included	-	-	
125	Tmax XT1	3	•	•	•	-	XT1ENCL125R	Included	-	-	
125	Tmax XT2	3	•	•	•	-	XT2ENCL125R	TNIA225 ⁴	TNIA250XTGF	1SDA067211R1 (10A DIP) 1SDA067212R1 (25A DIP) 1SDA081983R1 (60A DIP) 1SDA069143R1 (100A DIP) 1SDA081984R1 (125A DIP) 1SDA101971R1 (60A Touch) 1SDA101972R1 (100A Touch) 1SDA107406R1 (60A Touch V) 1SDA107407R1 (100A Touch V)	
150	SE150, THED, TED	2, 3	•	-	-	•	TE150R	Included	-	-	
225	Tmax XT3	3	•	•	•	-	XT3ENCL225R	Included	-	-	
250	Tmax XT4	3	•	•	•	-	XT4ENCL250R	TNIA225 ⁴	TNIA250XTGF	1SDA066975R1 (40A DIP) 1SDA081985R1 (60A DIP) 1SDA066977R1 (100A DIP) 1SDA081986R1 (150A DIP) 1SDA081987R1 (225A DIP) 1SDA066979R1 (250A DIP) 1SDA101973R1 (Touch) 1SDA107408R1 (Touch V)	
250	SF250	2, 3	•	-	-	•	TF225R	TNIA225 ⁴	-	-	

¹cUL Listed - Suitable for use as service equipment.

²Neutral for ground fault required to mount neutral sensor in enclosure.

³3-Pole breakers with an accessory can not be installed in these enclosures.

⁴For 250A rating, use copper cable only.

⁵Suitable for parallel 250 kcmil maximum. If larger cable is required, use 600A enclosure.

⁶Not suitable for 100% rated 1200A SK breakers.

⁷Suitable for parallel 500 kcmil maximum.

⁸Service rated equipment only.

⁹100-250A devices have removable closing cap. Larger ampere devices require field cut openings. Order hubs separately. See page 7-10.

¹⁰Neutral Sensor for Ground Fault requires connector cable KXTCECNEFP purchased separately.

(Table continued on next page.)