

# Circuit Breaker Enclosures

## NEMA Type 1

100-1200 Amperes  
240-600 Volts ac  
125-250 Volts dc

- UL Listed — Suitable for use as service equipment
- CSA Certified
- 60°C/75°C conductor ratings
- Short circuit ratings are equal to the rating of the installed breaker.
- Spectra™ RMS breakers have ac ratings only.

## Section 7



Type 1, Indoor Surface or Flush Mounting

### NEMA Type 1

Frame Type	No. of Poles	Max. Ampere Rating	Product Number <sup>1</sup>	Neutral Product Number	Neutral for Ground Fault <sup>2</sup>	Neutral Sensor For Ground Fault <sup>2</sup>
THQL, TXQL, THQL-GF	1, 2, 3	70	TQL70F <sup>3</sup>	Included	-	-
			TQL70S <sup>3</sup>	Included	-	-
	1, 2, 3	100	TQL100F <sup>3</sup>	Included	-	-
			TQL100S <sup>3</sup>	Included	-	-
THQC, THHQ, TXQC	1, 2, 3	100	TQC100F <sup>3</sup>	Included	-	-
			TQC100S <sup>3</sup>	Included	-	-
SE150, THED, TED, TEB	2, 3	100	TE100F	Included	-	-
			TE100S	Included	-	-
			TE100SB <sup>10</sup>	Included	-	-
SE150, THED, TED	2, 3	150	TE150F	Included	-	-
			TE150S	Included	-	-
			TE150SB <sup>10</sup>	Included	-	-
THQL	2	125	TQL125F <sup>4</sup>	Included	-	-
			TQL125S <sup>4</sup>	Included	-	-
TQD, THQD	2, 3	225	TQD225F	Included	-	-
			TQD225S	Included	-	-
THFK, TFK, TFJ	2, 3	225	TF225F <sup>5</sup>	TNIA225	-	-
			TF225S <sup>5</sup>	TNIA225	-	-
SF250	2, 3	250	SF250F	TNIA225	-	-
			SF250S	TNIA225	-	-
			SF250SB <sup>10</sup>	TNIA225	-	-
TJD, TJJ, TJK, THJK	2, 3	400	TJ400F <sup>6</sup>	TNIA400	-	-
			TJ400S <sup>6</sup>	TNIA400	-	-
TJK, THJK	2, 3	600	TJ600F	TNIA600	-	-
			TJ600S	TNIA600	-	-
SG400 <sup>9</sup>	2, 3	400	SG400F	TNIA400	TNIA400VG	TSRG201
			SG400S			TSRG204
			SG400SB <sup>10</sup>			
SG600 <sup>9</sup>	2, 3	600	SG600F	TNIA600	TNIA600VG	TSRG206
			SG600S			
			SG600SB <sup>10</sup>			
SK1200, TKMA, THKMA <sup>9</sup>	2, 3	1200	TK4V1200F <sup>7,8</sup>	TNIA400	TNIA800G TNIA1200G	TSKG408
			TK4V1200S <sup>7,8</sup>	TNIA600		TSKG410
			TK4V1200SB <sup>7,8,10</sup>	TNIA800		TSKG412
				TNIA1200		
			TNIAC1200			

<sup>1</sup>For Product Numbers ending in "F", mounting style is Flush. For Product Numbers ending in "S", mounting style is Surface. Product Numbers ending in "SB" contain blank end walls (No Knockouts).

<sup>2</sup>Neutral for Ground Fault required to mount neutral sensor in enclosure.

<sup>3</sup>3-pole breakers with an accessory can not be installed in these enclosures.

<sup>4</sup>Not CSA certified.

<sup>5</sup>For 250 amp rating, use copper cable only.

<sup>6</sup>Suitable for parallel 250 kcmil maximum. If larger cable is required, use 600 amp enclosure.

<sup>7</sup>Suitable for 100% rated 800 amp and 100% rated 1000 amp SK breakers; NOT suitable for 100% rated 1200 amp SK breakers.

<sup>8</sup>Suitable for parallel 500 kcmil maximum.

<sup>9</sup>Includes Spectra™ RMS and Spectra™ RMS with *microEntelliGuard™* Trip Units.

<sup>10</sup>Enclosures with blank end walls feature closed enclosure instantaneous adjustment.



# Circuit Breaker Enclosures

## NEMA Type 3R

100-1200 Amperes  
240-600 Volts ac  
125-250 Volts dc

- UL Listed — Suitable for use as service equipment
- CSA Certified
- cUL Listed — Suitable for use as service equipment as noted
- 60°C/75°C conductor ratings
- Short circuit ratings are equal to the rating of the installed breaker.
- Spectra™ RMS breakers have ac ratings only.

## Section 7



Type 3R, Outdoor, Raintight

### NEMA Type 3R

Frame Type	No. of Poles	Max. Ampere Rating	Product Number <sup>1</sup>	Neutral Product Number	Neutral for Ground Fault <sup>2</sup>	Neutral Sensor For Ground Fault <sup>2</sup>
THQL, TXQL, THQL-GF	1, 2, 3	70	TQL70R <sup>3,10</sup>	Included	-	-
		100	TQL100R <sup>3,10</sup>	Included	-	-
			TQL100RE <sup>3,4</sup>	Included	-	-
THQC, THHQC, TXQC	1, 2, 3	100	TQC100R <sup>3,10</sup>	Included	-	-
SE150, TEB, THED, TED	2, 3	100	TE100R <sup>10</sup>	Included	-	-
THQL	2	125	TQL125R <sup>10,11</sup>	Included	-	-
SE150, TED, THED	2, 3	150	TE150R <sup>10</sup>	Included	-	-
		150	TQD150NRE <sup>5,10</sup>	Included	-	-
		200	TQD200NRE <sup>5,10</sup>	Included	-	-
TQD, THQD	2	225	TQD225NR <sup>10</sup>	Included	-	-
		225	TQD225R <sup>10</sup>	Included	-	-
TQD, THQD	2, 3	150	THQMV150NRE <sup>5,10,12</sup>	Included	-	-
		200	THQMV200NRE <sup>5,10,12</sup>	Included	-	-
TFK, THFK, TFJ	2, 3	225	TF225R <sup>6</sup>	TNIA225	-	-
SF250	2, 3	250	TF225R <sup>6</sup>	TNIA225	-	-
TJD, TJJ, TJK, THJK	2, 3	400	TJ400R <sup>7</sup>	TNIA400	-	-
TJJ, TJK, THJK	2, 3	600	TJ600R	TNIA600	-	-
SG400 <sup>13</sup>	2, 3	400	SG400R	TNIA400	TNIA400VG TSRG204	TSRG201
SG600 <sup>13</sup>	2, 3	600	SG600R	TNIA600	TNIA600VG	TSRG206
				TNIA400		
				TNIA600		
				TNIA800		
SK1200, TKMA, THKMA <sup>13</sup>	2, 3	1200	TK4V1200R <sup>8,9</sup>	TNIA800	TNIA800G	TSKG408
				TNIA1200	TNIA1200G	TSKG410
				TNIA1200		TSKG412
				TNIAC1200		

<sup>1</sup>100-250 amp devices have removable closing cap. Larger ampere devices require field cut openings. Order hubs separately. See page 7-6.

<sup>2</sup>Neutral for Ground Fault required to mount neutral sensor in enclosure.

<sup>3</sup>3-pole breakers with an accessory can not be installed in these enclosures.

<sup>4</sup>100 amp circuit breaker factory installed (2-pole).

<sup>5</sup>150 and 200 amp circuit breaker factory installed (2-pole).

<sup>6</sup>For 250 amp rating, use copper cable only.

<sup>7</sup>Suitable for parallel 250 kcmil maximum. If larger cable is applied, use 600 amp enclosure.

<sup>8</sup>Suitable for parallel 500 kcmil maximum.

<sup>9</sup>Not suitable for 100% rated 1200 amp SK breakers.

<sup>10</sup>cUL Listed — Suitable for use as service equipment.

<sup>11</sup>Not CSA certified.

<sup>12</sup>Service rated equipment only.

<sup>13</sup>Includes Spectra™ RMS and Spectra™ RMS with *microEntelliGuard™* Trip Units.



# Circuit Breaker Enclosures

## NEMA Type 12

100-1200 Amperes  
240-600 Volts ac  
125-250 Volts dc

- UL Listed — Suitable for use as service equipment
- CSA Certified
- cUL Listed — Suitable for use as service equipment as noted
- 60°C/75°C conductor ratings
- Short circuit ratings are equal to the rating of the installed breaker.
- Spectra™ RMS breakers have ac ratings only.

## Section 7



Types 12K and 12,  
Rotary Handle Integral with Breaker

### NEMA Type 12

Frame Type	No. of Poles	Max. Ampere Rating	Product Number <sup>1</sup>	Neutral Product Number	Neutral for Ground Fault <sup>2</sup>	Neutral Sensor For Ground Fault <sup>2</sup>
TEB, THED, TED	3	100	TE100D <sup>3,7</sup>	Included	-	-
			TE100J <sup>3,7</sup>	Included	-	-
SE150	2, 3	100	SE100D <sup>7</sup>	Included	-	-
			SE100J <sup>7</sup>	Included	-	-
TB1	3	100	TB100J <sup>7</sup>	Included	-	-
TFJ, TFK, THFK	2, 3	225	TF225D	TNIA225	-	-
			TF225J		-	-
SF250	2, 3	250	SF250D	TNIA225	-	-
			SF250J		-	-
TJD, TJK, THJK, TJJ	2, 3	400	TJ400J <sup>4</sup>	TNIA400	-	-
TJK, THJK	2, 3	600	TJ600J	TNIA400	-	-
				TNIA600	-	-
SG400 <sup>8</sup>	2, 3	400	SG400D	TNIA400	TNIA400VG	TSRG201
			SG400J			TSRG204
SG600 <sup>8</sup>	2, 3	600	SG600J	TNIA600	TNIA600VG	TSRG206
			TB6	3	600	TB800J
TNIA600	-	-				
TNIA400	-	-				
TB8	3	800	TB800J	TNIA600	-	-
				TNIA800	-	-
				TNIA400	-	-
TKMA, THKMA	2, 3	1200	TK1200J <sup>5</sup>	TNIA600	-	-
				TNIA800	-	-
				TNIA1200	-	-
				TNIAC1200	-	-
				TNIA400	-	-
SK1200 <sup>8</sup>	2, 3	1200	SK1200J <sup>5,6</sup>	TNIA600	TNIA800G TNIA1200G	TSKG408
				TNIA800		TSKG410
				TNIA1200		TSKG412
				TNIAC1200		-

<sup>1</sup>J = Type 12 without Knock Outs.

<sup>2</sup>Neutral for Ground Fault required to mount neutral sensor in enclosure.

<sup>3</sup>For 3-pole breaker only.

<sup>4</sup>Suitable for parallel 250 kcmil maximum. If larger cable is applied, use 600 amp enclosure.

<sup>5</sup>Suitable for parallel 500 kcmil maximum.

<sup>6</sup>Not suitable for 100% rated 1200 amp SK breakers.

<sup>7</sup>cUL Listed — Suitable for use as service equipment.

<sup>8</sup>Includes Spectra™ RMS and Spectra™ RMS with *microEntelliGuard™* Trip Units.



# Circuit Breaker Enclosures

## NEMA Type 4/4X

100-1200 Amperes  
 240-600 Volts ac  
 125-250 Volts dc

- UL Listed — Suitable for use as service equipment
- 60°C/75°C conductor ratings
- Short circuit ratings are equal to the rating of the installed breaker.
- Spectra™ RMS breakers have ac ratings only.

## Section 7



Types 4/4X,  
 Stainless Steel, Watertight, Dust Tight

### NEMA Type 4/4X

Frame Type	No. of Poles	Max. Ampere Rating	Product Number	Neutral Product Number
TEB, THED, TED	2, 3	100	TE100CS <sup>4</sup>	TNI100
SE150	2, 3	100	SE100CS <sup>4</sup>	TNI100
TFJ, TFK, THFK	2, 3	225	TF225CS <sup>4</sup>	TNIA225
SF250	2, 3	250	SF250CS <sup>4</sup>	TNIA225
TJD, TJK, TJJ, THJK	2, 3	400	TJ400CS <sup>1,2,4</sup>	TNIA400
TJK, THJK	2, 3	600	TJ600CS <sup>2,4</sup>	TNIA400 TNIA600
SG400 <sup>5</sup>	2, 3	400	SG400CS <sup>3,4</sup>	TNIA400

<sup>1</sup>Suitable for parallel 250 kcmil maximum. If larger cable is applied, use 600 amp enclosure.

<sup>2</sup>Not UL listed.

<sup>3</sup>Not suitable for 3-Phase, 4-wire or Single-Phase, 4-wire ground fault applications that require Neutral Sensor mounted in enclosure.

<sup>4</sup>Not CSA certified.

<sup>5</sup>Includes Spectra™ RMS and Spectra™ RMS with *microEntelliGuard™* Trip Units.



### Universal Raintight Hubs, Aluminum

For outdoor enclosures that have removable closing caps.

Nominal Conduit Diameter (in.)	Standard Package	Product Number
3/4	10	TC75
1	10	TC100
1 1/4	10	TC125
1 1/2	10	TC150
2	10	TC200
2 1/2	10	TC250
3	5	TC300
Closing Cap	10	TCCP



TC150

### Stainless Steel Cover

For flush mounted Type 1 circuit breaker enclosures, field installed only.

For Use with	Product Number
TE100F	TE100FSS
TF225F	Order by Description
TJ400F	Order by Description
TJ600F	Order by Description

### Insulated Groundable Neutrals

Max. Ampere Rating	Lug Wire Size (Cu-Al) AWG/kcmil	Standard Package	Product Number
100	14-1/0 Cu, 12-1/0Al	1	TNI100
225	1-300	1	TNIA225
400	(2) 1/0-250 or (1) 4-600	1	TNIA400
400	(2) 1/0-250 or (1) 4-600	1	TNIA400VG
600	(2) 2/0-500	1	TNIA600
600	(2) 2/0-500	1	TNIA600VG
800	(3) 250-500	1	TNIA800
800	(3) 250-350 Cu or (3) 250-500 Al	1	TNIA800G
1200	(4) 250-350 Cu or (4) 250-500 Al	1	TNIA1200
1200	(4) 250-350 Cu or (4) 250-500 Al	1	TNIA1200G
1200	(4) 250-400 Cu Only	1	TNIAC1200

### Ground Kits

Ampere Rating	Product Number
70-125 amp	TGL1
150-400 amp	(1) TGL1 plus (1) TGL20
600-1200 amp	TGL6

