

Catalog Numbering System for Thermal-Magnetic Molded Case Circuit Breakers

	FA	L	3	6	100	2100
Circuit Breaker Family	FA, FH, FC, FI KA, KH, KC, KI LA, LH, LC, LI MA, MH NA, NC	Note: "A" is replaced by letter "H" for high interrupting circuit breaker. "A" is replaced by letter "C" for extra high interrupting circuit breaker. "A" is replaced by the letter "I" for current-limiting circuit breakers.				
No Letter – I-LINE L – Lugs on both ends	F – Terminal pads only (No Lugs) P – Lugs OFF end only					
1 – 1-pole 2 – 2-pole 3 – 3-pole						
2 – 240 Vac 4 – 480 Vac 6 – 600 Vac						
015-1200 – Ampere rating 000M-0000M – Molded case switch (automatic)						
Special Features A, B, C – I-LINE phase connections XXXX – Factory-installed accessories						



KAL/KHL
 2- and 3-pole
 70-250 Amperes



KIL36250

K Frame – 250 A, Thermal-Magnetic (600 Vac)

Continuous Current Rating @ 40° C	AC Magnetic Trip Settings▲		Standard Interrupting		High Interrupting		Current Limiting		Terminal Wire Range
	Low	High	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	
2-Pole, 600 Vac, 250 Vdc									
70	350	700	KAL26070	\$1315.	KHL26070	\$3072.	AL250KA 1-#4 AWG-350 kcmil
80	400	800	KAL26080	1315.	KHL26080	3072.	...	...
90	450	900	KAL26090	1315.	KHL26090	3072.	...	...
100	500	1000	KAL26100	1315.	KHL26100	3072.	...	...
110	550	1100	KAL26110	1315.	KHL26110	3072.	KIL26110	\$3922.	
125	625	1250	KAL26125	1315.	KHL26125	3072.	KIL26125	3922.	
150	750	1500	KAL26150	1315.	KHL26150	3072.	KIL26150	3922.	
175	875	1750	KAL26175	1315.	KHL26175	3072.	KIL26175	3922.	
200	1000	2000	KAL26200	1315.	KHL26200	3072.	...	...
225	1125	2250	KAL26225	1315.	KHL26225	3072.	...	...
250	1250	2500	KAL26250	2286.	KHL26250	4039.	...	...
200	1000	2000	...	...	...	...	KIL26200	3922.
225	1125	2250	...	...	...	...	KIL26225	3922.
250	1250	2500	...	...	...	...	KIL26250	4586.
3-Pole, 600 Vac, 250 Vdc									
70	350	700	KAL36070	\$1650.	KHL36070	\$3713.	AL250KA 1-#4 AWG-350 kcmil
80	400	800	KAL36080	1650.	KHL36080	3713.	...	...
90	450	900	KAL36090	1650.	KHL36090	3713.	...	...
100	500	1000	KAL36100	1650.	KHL36100	3713.	...	...
110	550	1100	KAL36110	1650.	KHL36110	3713.	KIL36110	\$4923.	
125	625	1250	KAL36125	1650.	KHL36125	3713.	KIL36125	4923.	
150	750	1500	KAL36150	1650.	KHL36150	3713.	KIL36150	4923.	
175	875	1750	KAL36175	1650.	KHL36175	3713.	KIL36175	4923.	
200	1000	2000	KAL36200	1650.	KHL36200	3713.	...	...
225	1125	2250	KAL36225	1650.	KHL36225	3713.	...	...
250	1250	2500	KAL36250	2751.	KHL36250	4824.	...	...
200	1000	2000	...	...	...	...	KIL36200	4923.
225	1125	2250	...	...	...	...	KIL36225	4923.
250	1250	2500	...	...	...	...	KIL36250	5766.

K Frame – 250 A, Thermal-Magnetic (480 Vac)

Continuous Current Rating @ 40° C	AC Magnetic Trip Settings▲		Extra High Interrupting		Terminal Wire Range
	Low	High	Catalog Number	Price	
2-Pole, 480 Vac					
110	550	1100	KCL24110	\$3465.	AL250KA 1-#4 AWG-350 kcmil
125	625	1250	KCL24125	3465.	
150	750	1500	KCL24150	3465.	
175	875	1750	KCL24175	3465.	
200	1000	2000	KCL24200	3465.	AL250KI 1-#1/0 AWG-350 kcmil
225	1125	2250	KCL24225	3465.	
250	1250	2500	KCL24250	4248.	
3-Pole, 480 Vac					
110	550	1100	KCL34110	4331.	AL250KA 1-#4 AWG-350 kcmil
125	625	1250	KCL34125	4331.	
150	750	1500	KCL34150	4331.	
175	875	1750	KCL34175	4331.	
200	1000	2000	KCL34200	4331.	AL250KI 1-#1/0 AWG-350 kcmil
225	1125	2250	KCL34225	4331.	
250	1250	2500	KCL34250	5314.	

▲ UL magnetic trip setting tolerances are ±25% (low) and ±20% (high) from nominal values shown.

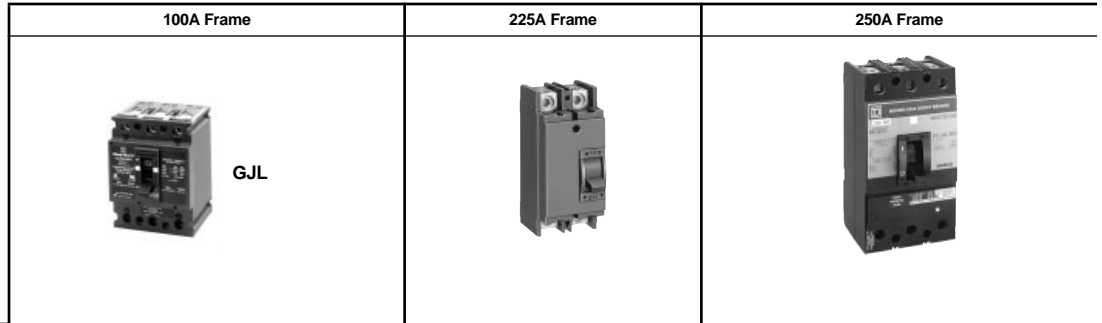
Interrupting Ratings (kA)

	KAL	KHL	KCL	KIL
240 V	42	65	100	200
480 V	25	35	65	200
600 V	22	25	...	100

Accessories Pages 6-37–6-39
 Optional Lugs Pages 6-40, 6-41
 Dimensions Page 6-45, 6-46
 Enclosures Pages 6-47–6-50

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Breaker Type	FC	FI	FY	GJL	Q2	Q2-H	Q2H	KA	KH	KC	KI	
Number of Poles	2, 3	2, 3	1	3	2,3	2,3	2	2, 3	2, 3	2, 3	2, 3	
Current Range	15-100	20-100	15-30	15-100	100-225	100-225	100-225	70-250	70-250	110-250	110-250	
Interrupting Ratings												
UL/CSA/NOM Rating (kA RMS) (50/60 Hz AC)	240 Vac	100	200	14	100	10★	22	42	42	65	100	200
	480Y/277 Vac	65	200	14	65	25	35	65	200
	480 Vac	65	200	...	65	25	35	65	200
	600Y/347 Vac	...	100	...	18	22	25	...	100
DC Ratings	600 Vac	...	100	22	25	...	100
	250 Vdc	10	10
	500 Vdc◆	20
IEC 947-2 415/240 Vac (Icu/Ics) ☆	10/2.5	6/1.5	...	65/65	...	...	...	10/2.5	10/2.5	65/65	130/65
IEC 947-2 50/60 Hz	For additional IEC ratings, see Supplemental Digest.											
Special Ratings												
Fed. Specs W-C-375B/GEN	✓	✓			✓	✓	✓	✓	✓	✓	✓	
HACR (2, 3-Pole)								✓	✓			
Connections/Terminations												
Unit Mount	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
I-LINE	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Rear Connection								✓	✓			
Drawout												
Optional Lugs	✓	✓						✓	✓	✓	✓	
Accessories and Modifications												
Shunt Trip	✓●	✓●		✓				✓●	✓●	✓●	✓●	
Undervoltage Trip	✓●	✓●		✓				✓●	✓●	✓●	✓●	
Auxiliary Switches	✓●	✓●		✓				✓●	✓●	✓●	✓●	
Alarm Switch	✓●	✓●		✓				✓●	✓●	✓●	✓●	
Motor Operator	✓	✓						✓	✓	✓	✓	
Handle Operators	✓			✓				✓	✓	✓		
Mechanical Interlocks (3-Pole)								✓■	✓■			
Handle Padlock Attachment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cylinder Lock (3-Pole)	✓●							✓●	✓●			
Optional GF Protection	✓▲	✓▲						✓▲	✓▲	✓▲	✓▲	
Trip System Type												
Thermal Magnetic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Instantaneous Trip (3-Pole)				✓				✓	✓			
Molded Case Switch (Automatic)					✓	✓	✓		✓			
Electronic												
Enclosures (Pages 6-47-6-50)												
General Purpose (NEMA Type 1)	✓	✓			✓	✓	✓	✓	✓			
Raintight (NEMA Type 3R)	✓	✓			✓	✓	✓	✓	✓	✓	✓	
Dusttight (NEMA Type 12)	✓	✓						✓	✓	✓	✓	
Watertight (NEMA Type 4, 4X, 5)	✓	✓						✓	✓	✓	✓	
Explosion Proof (NEMA Type 7, 9)	✓							✓	✓			
Dimensions (3P Unit Mount)	Height IN (mm)	6 (152)	8 (203)	4.72 (120)	6.44 (163)			8 (203)				
	Width IN (mm)	4.5 (114)	4.5 (114)	3.54 (90)	3 (76)			4.5 (114)				
	Depth IN (mm)	4.13 (105)	4.75 (121)	3.94 (100)	4.5 (114)			4.75 (121)				
Pages (Unit Mount)/(I-LINE)	Pages 6-21, 6-22, 8-29, 8-30				Pages 6-22, 8-30			Pages 6-23, 8-31				

NOTE: All circuit breakers on this chart are UL Listed and CSA Certified unless otherwise noted.
 ● Factory installed option only ■ Requires breaker with WB suffix.
 ◆ Ungrounded UPS systems only ▲ Requires factory installed "G" Shunt trip and 3-Pole module.
 ★ 2-Pole Q2 is 10 kA at 120/240 Vac ☆ Dual UL and IEC ratings and CE markings on circuit breakers. For additional IEC ratings, see Supplemental Digest.

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Electrical Accessories

UL Listed
Class 690

Square D
www.squared.com
FOR CURRENT INFORMATION

Electrical accessories are available on all molded case circuit breakers except FY, Q2, QOM1 and QOB-VH (2-pole 150 A and 3-pole 110-150 A) circuit breakers. All AC electrical accessories shown below are rated for 50/60 Hz. Add 20% to accessory price for each field-installable accessory that is factory installed. See Page 6-39 for field-installable accessories.

Molded Case Circuit Breakers Factory-installed Electrical Accessories

Accessory	Description	Rated Voltage	Coil Burden†	Suffix	List Price Adder*
SHUNT TRIP	Trips the circuit breaker from a remote location by means of a trip coil energized from a separate circuit. A 120 V shunt trip will operate at 55% or more of rated voltage. All other shunt trips will operate at 75% or more of rated voltage. Application • For use with momentary or maintained push button. • Sure Trip Capacitor Unit requires 48 Vdc shunt trip. • Leads: (2) Black #18 AWG Cu.	AC 24	21VA	-1042■	\$ 479.
		120	24VA	-1021★	479.
		208	107VA	-1021	479.
		240	154VA	-1021	479.
		277	14VA	-1037■	479.
		480	45VA	-1037	479.
		DC 24	36VA	-1027	479.
		48	36VA	-1028	479.
		125	44VA	-1029	479.
		250	15VA	-1030▲	479.
GROUND-FAULT SHUNT TRIP	Trips the circuit breaker electrically using the signal from a MICROLOGIC® Ground-Fault Module. Application • For use only with obsolete GP GROUND-CENSOR® system or add on ground-fault module. • Leads: (2) Orange #18 AWG Cu.	...	...	-G▲	479.
UNDER VOLTAGE TRIP	Trips the circuit breaker electrically when a control circuit falls below 35 to 70% of nominal (not field adjustable). Picks up at 35-85% of nominal voltage. Application • UVR must be energized in order to close the circuit breaker. • Leads: (2) Brown #18 AWG Cu leads.	AC 24 120 240 DC 24 48	5 VA 8 VA 8 VA 2 VA 3 VA	-1143▲◆ -1121 -1124◆ -1127◆ -1128◆	479. 479. 479. 479. 479.
TIME DELAY UNIT	Provides adjustable time delay for UVR of 0.1 to 0.6 second before circuit breaker trips. Application • For use only with -1121 UV trip. • Adjustable time delay (0.1 to 0.6 second). • I-LINE unit requires 1.5 in. (38 mm) of mounting space. • Leads: (2) Brown #18 AWG Cu and (2) Black/White #18 AWG Cu.	AC 120	Catalog No.		1232.
			Unit Mt.	I-LINE	
			690UVTD	690UVTDI	
AUXILIARY SWITCHES	Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED. Application • Max. Load = FA, FH, FC, FI, KA, KH, LC, LE, LI, LX, LXI. 10A @ 125-250 Vac ¼hp @ 125-250 Vac, 5A @ 30 Vdc • Leads: Yellow for "A", Blue for "B", Striped for common #18 AWG Cu.	1A/1B	See load info. in App. text at left	-1212	198.
		2A/2B	See load info. in App. text at left	-1352	395.
		3A/3B	See load info. in App. text at left	-1364★	508.
		1A	AC 250	See load info. in App. text at left	-2100	198.
ALARM SWITCHES	Used with control circuits and actuated only when the circuit breaker has tripped. Standard construction includes a normally open contact. Application • Max. Load = 10 A @ 125-250 Vac 5 A @ 30 Vdc • Leads: (2) Red #18 AWG Cu.	1A	DC 28	-2100	198.
		1A	AC 250	-2103	198.
		1B	DC 28	-2103	198.
		1B	AC 250	-2103	198.

Note:
Alarm switch is the only accessory available for 1-pole FA circuit breakers.

Combination accessories may be ordered by description, i.e., 1021 and 1212.

■ Not available on FI, KI or KC circuit breakers.

▲ Not available on LC, LE, LI, LX, LXI circuit breakers.

◆ Not available on ME or MX circuit breakers.

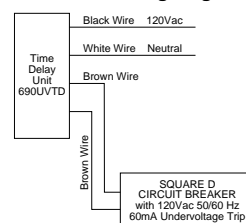
★ LC, LE, LI, LX, and LXI circuit breakers operate at 75% or more of rated voltage.

☆ Not available in FA, FC, FH, FI and KI circuit breakers.

† Coil burden values do not apply to LC, LE, LI, LX and LXI. Consult Field Sales Office for more information.

* List price for field-installed accessories. See Page 6-39.

690UVTD Wiring Diagram



1-pole QO with Shunt Trip

Miniature Circuit Breakers

Factory-installed electrical accessories take up an additional pole space on EH, EH-PL, QO, QO-GFI, QO-EPD, QO-SWN, QOU and QO-PL circuit breakers. All AC electrical accessories shown below are rated for 50/60 Hz. Accessories are not available for Q2, QOM1 and QOB-VH (2-pole 150 A and 3-pole 110-150 A) circuit breakers or QO molded case switches. QO circuit breakers will accept only one accessory per circuit breaker. EH/EHB circuit breakers will accept multiple accessories. Undervoltage trip is not available on miniature circuit breakers.

Accessory	Description	Rated Voltage	Coil Burden	Suffix	List Price Adder	Accessory	Description	Contact Comb.	Max. Voltage	Max. Load	Suffix	List Price Adder			
SHUNT TRIP	Trips the circuit breaker from a remote location by means of a trip coil energized from a separate circuit. A 120 V shunt trip will operate at 55% or more of rated voltage. All other shunt trips will operate at 75% or more of rated voltage. Application • For use with momentary or maintained push button. • Not available on QO-GFI, QO-EPD. • Shunt trip terminals accept (2) #14-#12 AWG Cu. • Leads: EHB circuit breakers have (2) Black #16 AWG Cu.	QO Circuit Breakers				AUXILIARY SWITCHES	Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED. Application • Auxiliary switch terminals accept (2) #14-#12 AWG Cu leads. • Leads (EH): Yellow for "A", Blue for "B", Striped common #18 AWG Cu.	QO Circuit Breakers							
		AC/DC 12	60VA	-1042	\$120.			1A	AC 120	5A	-1200	\$ 84.			
		24	168VA	-1042				1B	AC 120	5A	-1201				
		AC 120	72VA	-1021				EH/EHB Circuit Breakers							
		208	228VA	-1021				1A/1B	AC 277	5A	-1212	198.			
		240	288VA	-1021	QO Circuit Breakers										
		EH/EHB Circuit Breakers						479.	ALARM SWITCHES	Used with control circuits and is actuated only when the circuit breaker has tripped. Standard construction includes a normally-open contact. Application Leads: EHB circuit breakers have (2) Red #18 AWG Cu. Alarm switch terminals accept (2) #14-#12 AWG Cu leads.	QO Circuit Breakers				
		AC/DC 12	60VA	-1042	1A						AC 120	5A	-2100	84.	
		24	168VA	-1042	EH/EHB Circuit Breakers										
		AC 120	72VA	-1082	1A						AC 277	5A	-2100	198.	
208	218VA	-1082	QO M2												
240	288VA	-1082	120.	QO Circuit Breakers											
277	416VA	-1082		EH/EHB Circuit Breakers											
QO M2				120.	QO Circuit Breakers										
AC240	168VA	-1021	1A		AC 277	5A	-2100	198.							

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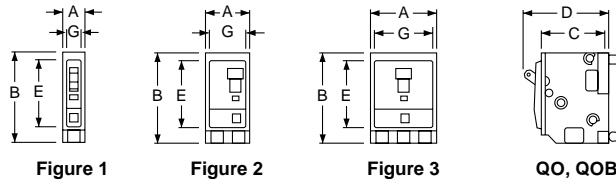


Figure 1 Figure 2 Figure 3 QO, QOB

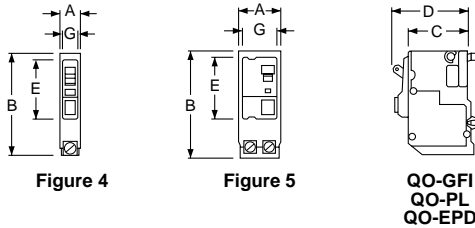


Figure 4 Figure 5 QO-GFI
QO-PL
QO-EPD

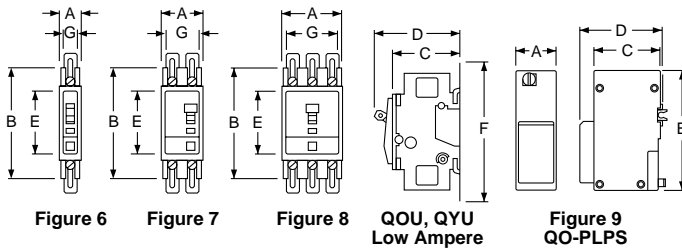


Figure 6 Figure 7 Figure 8 QOU, QYU
Low Ampere Figure 9
QO-PLPS

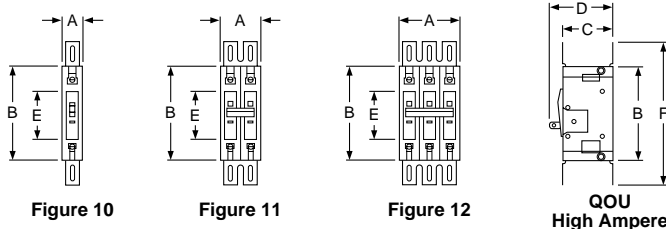


Figure 10 Figure 11 Figure 12 QOU
High Ampere

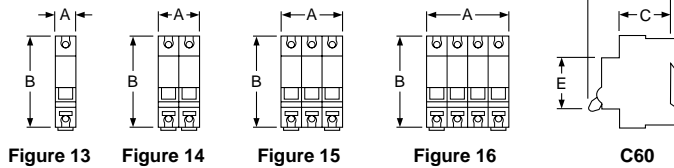


Figure 13 Figure 14 Figure 15 Figure 16 C60

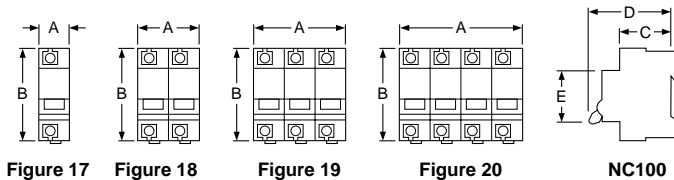


Figure 17 Figure 18 Figure 19 Figure 20 NC100

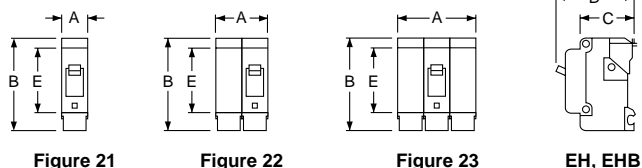


Figure 21 Figure 22 Figure 23 EH, EHB

QO, QOU, EH Circuit Breakers

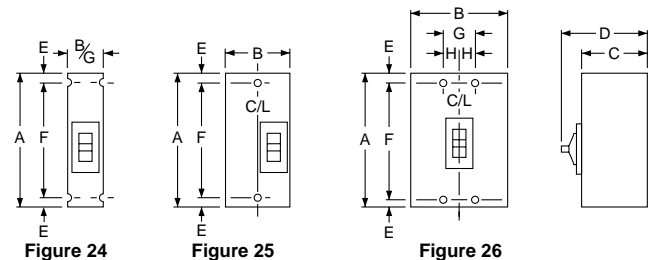
Circuit Breaker Catalog No. Prefix	No. Poles	Fig. No.	Dimensions - Inches						
			A	B	C	D	E	F	G
QO, QOB	1	1	0.75	3.00▲	2.31	2.91	2.25	...	0.59
	2	2	1.50	3.00▲	2.31	2.91	2.25	...	1.34
	3	3	2.25	3.00▲	2.31	2.91	2.25	...	2.09
QOB-VH 150A QOB-VH 110-150A	2	2	3.0	5.72	2.53	4.90	3.78	...	2.85
	3	3	4.50	5.72	2.53	4.90	3.78	...	4.35
QO-PL QO-GFI QO-EPD	1	4	0.75	4.12■	2.31	2.91	2.25	...	0.59
	2	5	1.50	4.12■	2.31	2.91	2.25	...	1.34
	3	5	2.25	4.12■	2.31	2.91	2.25	...	2.09
QOU QYU Low Ampere	1	6	0.75	4.05★	2.38	2.98	2.25	5.00†	0.62
	2	7	1.50	4.05★	2.38	2.98	2.25	5.00†	1.37
	3	8	2.25	4.05★	2.38	2.98	2.25	5.00*	2.12
QOU High Ampere	1	10	0.75	4.45	2.37	2.96	2.25	6.78	...
	2	11	1.50	4.45	2.37	2.96	2.25	6.78	...
	3	12	2.25	4.45	2.37	2.96	2.25	6.78	...
MULTI 9 C60N	1	13	0.71	3.19	1.73	2.76	1.77	...	...
	2	14	1.42	3.19	1.73	2.76	1.77	...	...
	3	15	2.13	3.19	1.73	2.76	1.77	...	...
	4	16	2.84	3.19	1.73	2.76	1.77	...	...
MULTI 9 NC100	1	17	1.06	3.19	1.73	2.76	1.77	...	...
	2	18	2.13	3.19	1.73	2.76	1.77	...	...
	3	19	3.19	3.19	1.73	2.76	1.77	...	...
	4	20	4.25	3.19	1.73	2.76	1.77	...	...
QO-PLPS Power Supply	2	9	1.45	4.35	2.42	3.11	...	...	...
EH, EHB	1	21	1.00	3.50	2.00	2.97	2.44	...	...
	2	22	2.00	3.50‡	2.00	2.97	2.44	...	...
	3	23	3.00	3.50‡	2.00	2.97	2.44	...	...

‡ 70-100 A is 4.00 in.
▲ 35-70 A is 3.12 in; 80-100 A 2-pole and 70-100 A 3-pole are 3.50 in.
■ QO-PL is 4.55 in.
★ 80-100 A 1-pole and 80-125 A 2-pole are 4.45 in.
● 70-100 A 4.45 in.
† 80-100 A 1-pole and 80-125 A 2-pole are 6.78 in.
* 70-100 A is 6.78 in.

Q2, Q4, FA, FI, KA, KI, LA, MA, ME and MX Circuit Breakers

Circuit Breaker Catalog No. Prefix	No. Poles	Fig. No.	Dimensions - Inches							
			A	B	C	D	E	F	G	H
Q2L, Q2L-H	2	25	6.44	3.00	3.16	3.92	★	4.25	...	...
	3	26	6.44	4.50	3.16	3.92	★	4.25	1.50	0.75
FAL, FHL,FCL▼	1	24	6.00	1.50	3.16	4.13	0.44	5.13	1.50	...
	2	25	6.00	3.00▼	3.16	4.13	0.44	5.13	...	...
	3	26	6.00	4.50	3.16	4.13	0.44	5.13	1.50	0.75
FIL, KAL, KHL, KCL, KIL	2 & 3	26	8.00	4.50	3.66	4.75	0.44	7.13	1.50	0.75
Q4L, LAL, LHL	2 & 3	26	11.00	6.00	4.06	5.84	0.88	9.25	2.00	1.00
MAL, MHL	2 & 3	26	14.00	9.00	4.53	6.50	1.66	10.69	3.00	1.50
MXL, MEL	2 & 3	26	14.75	9.00	4.37	6.50	1.66	11.43	3.00	1.50

★ Dimensions E 1.59 in at ON end and 0.63 in at OFF end.
▼ FCL 2-pole circuit breaker dimension B is 4.50 as in Fig. 26.



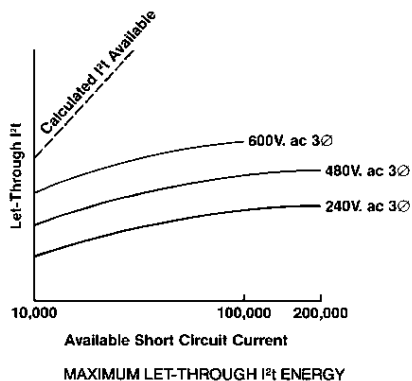
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THERMAL-MAGNETIC/MAGNETIC ONLY MOLDED CASE CIRCUIT BREAKERS

INTRODUCTION

circuit conditions. The theoretical I^2t let-through of symmetrical sinusoidal current can be calculated. At 100,000 amperes rms, this would be 83×10^6 ampere² seconds for $\frac{1}{2}$ cycle IF NO CURRENT LIMITING DEVICE WERE IN THE CIRCUIT. In contrast, the curves show that with the same level of 100,000 rms symmetrical short circuit amperes available, the 100 ampere current limiting circuit breaker would limit the energy flow 0.62x10⁶ ampere² second at 480 volts or 0.27x10⁶ ampere² seconds at 240 volts.



CONSTRUCTION

Square D thermal-magnetic circuit breakers are manufactured and tested according to the following standards and files:

- UL Standard 489
- NEMA Standard AB-1
- Canadian Standards Association (CSA) File LR7551
- International Electrotechnical Commission (IEC) 157-1
- Federal Specification W-C-375B/GEN as Class 11a, 11b; 12a, 12b; and 13a, 13b

Magnetic only circuit breakers are manufactured in accordance with the following standards:

- UL File E10027
- CSA File LR32390

Molded case switches comply with:

- UL 1087
- UL File E33117
- UL File LR 32390

Note: Circuit breakers are to be applied by guidelines detailed in the NEC and other local electrical codes.

SPECIFICATIONS

Cases for molded case circuit breakers are constructed of a glass-reinforced insulating material that provides high dielectric strength. Current carrying components are isolated from the handle and accessory mounting area. The handle position indicates whether the circuit breaker is OFF, ON or tripped.

Square D molded case circuit breakers:

- have common tripping of all poles
- are equipped with a Push-To-Trip button to manually trip the circuit breaker
- can be mounted and operated in any position
- are fully tested, UL Listed, CSA certified and IEC rated for reverse connection without restrictive "LINE" or "LOAD" markings

TRIPPING SYSTEM

Square D thermal-magnetic molded case circuit breakers have a permanent trip unit that contains a factory preset thermal trip element and a magnetic trip element in each pole. The thermal trip element is rms sensing. In circuit breakers with frame sizes greater than 100A, the magnetic trip element is field adjustable. A single adjustment simultaneously adjusts the instantaneous trip point in each pole.

TERMINATIONS

All factory installed mechanical type lugs are UL Listed to accept solid or stranded conductors and can be used with wire rated at 60°C, 75°C and 90°C (sized according to the NEC 75°C temperature rating). Most molded case circuit breakers are UL Listed to accept field installable mechanical type and compression type lugs.

UL REQUIREMENTS

A UL label on a Square D molded case circuit breaker indicates that the circuit breaker meets the requirements of UL Standard 489 for circuit breakers.

A UL label also means the production procedure is monitored by UL inspectors for continuing conformance to UL performance requirements. These requirements are based on sound engineering principles, research, records of test and field experience, and information gathered from users and inspection authorities. These requirements are subject to revision as necessary.

UL HACR TYPE

Type FA, FH, KA, and KH industrial molded case circuit breakers are UL Listed as HACR type.