

Product Selection

Table 11-11. Breaker Catalog Numbers

Continuous Ampere Rating @ 40°C	1-Pole		2-Pole				3-Pole		4-Pole	
	120/240V AC		120/240V AC		240V AC		240V AC		240V AC	
	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$

QUICKLAG Type: QC 10,000 Ampere I.C. Thermal-Magnetic Breakers

5	QC1005 ③	51.00	QC2005 ③	107.00	—	—	—	—	—	—
10	QC1010	27.50	QC2010	60.50	QC2010H ③	156.00	QC3010H ③	193.00	—	—
15	QC1015 ①②	27.50	QC2015	60.50	QC2015H	156.00	QC3015H	193.00	QC4015H	294.00
20	QC1020 ①②	27.50	QC2020	60.50	QC2020H	156.00	QC3020H	193.00	QC4020H	294.00
25	QC1025	27.50	QC2025	60.50	QC2025H	156.00	QC3025H	193.00	QC4025H	294.00
30	QC1030	27.50	QC2030	60.50	QC2030H	156.00	QC3030H	193.00	QC4030H	294.00
35	QC1035	27.50	QC2035	60.50	QC2035H	156.00	QC3035H	193.00	QC4035H	294.00
40	QC1040	27.50	QC2040	60.50	QC2040H	156.00	QC3040H	193.00	QC4040H	294.00
45	QC1045	27.50	QC2045	60.50	QC2045H	156.00	QC3045H	193.00	QC4045H	294.00
50	QC1050	27.50	QC2050	60.50	QC2050H	156.00	QC3050H	193.00	QC4050H	294.00
55	QC1055	27.50	QC2055	60.50	QC2055H	156.00	QC3055H	193.00	QC4055H	294.00
60	QC1060	27.50	QC2060	60.50	QC2060H	156.00	QC3060H	193.00	QC4060H	294.00
70	QC1070	53.50	QC2070	115.00	QC2070H	206.00	QC3070H	240.00	QC4070H	366.00
80	—	—	QC2080	156.00	QC2080H	239.00	QC3080H	274.00	QC4080H	402.00
90	—	—	QC2090	156.00	QC2090H	239.00	QC3090H	274.00	QC4090H	416.00
100	QC1100	91.00	QC2100	156.00	QC2100H	239.00	QC3100H	274.00	QC4100H	416.00

QUICKLAG Type: QCHW 22,000 Ampere I.C. Thermal-Magnetic Breakers

15	QCHW1015 ①	54.50	QCHW2015	117.00	QCHW2015H	215.00	QCHW3015H	289.00	QCHW4015H	402.00
20	QCHW1020 ①	54.50	QCHW2020	117.00	QCHW2020H	215.00	QCHW3020H	289.00	QCHW4020H	402.00
25	QCHW1025	54.50	QCHW2025	117.00	QCHW2025H	215.00	QCHW3025H	289.00	QCHW4025H	402.00
30	QCHW1030	54.50	QCHW2030	117.00	QCHW2030H	215.00	QCHW3030H	289.00	QCHW4030H	402.00
35	QCHW1035	54.50	QCHW2035	117.00	QCHW2035H	215.00	QCHW3035H	289.00	QCHW4035H	402.00
40	QCHW1040	54.50	QCHW2040	117.00	QCHW2040H	215.00	QCHW3040H	289.00	QCHW4040H	415.00
45	QCHW1045	54.50	QCHW2045	117.00	QCHW2045H	215.00	QCHW3045H	289.00	QCHW4045H	402.00
50	QCHW1050	54.50	QCHW2050	117.00	QCHW2050H	215.00	QCHW3050H	289.00	QCHW4050H	402.00
55	QCHW1055	54.50	QCHW2055	117.00	QCHW2055H	215.00	QCHW3055H	289.00	QCHW4055H	402.00
60	QCHW1060	54.50	QCHW2060	117.00	QCHW2060H	215.00	QCHW3060H	289.00	QCHW4060H	402.00
70	QCHW1070	72.50	QCHW2070	170.00	QCHW2070H	265.00	QCHW3070H	361.00	QCHW4070H	505.00
80	—	—	QCHW2080	253.00	QCHW2080H	323.00	QCHW3080H	418.00	QCHW4080H	580.00
90	—	—	QCHW2090	253.00	QCHW2090H	323.00	QCHW3090H	418.00	QCHW4090H	590.00
100	—	—	QCHW2100	253.00	QCHW2100H	323.00	QCHW3100H	418.00	QCHW4100H	590.00

QUICKLAG Type: QHCX 42,000 Ampere I.C. Thermal-Magnetic Breakers

15	QHCX1015 ①	77.00	QHCX2015	139.00	—	—	QHCX3015H	347.00	—	—
20	QHCX1020 ①	77.00	QHCX2020	139.00	—	—	QHCX3020H	347.00	—	—
25	QHCX1025	77.00	QHCX2025	139.00	—	—	QHCX3025H	347.00	—	—
30	QHCX1030	77.00	QHCX2030	139.00	—	—	QHCX3030H	347.00	—	—
35	QHCX1035	77.00	QHCX2035	139.00	—	—	QHCX3035H	347.00	—	—
40	QHCX1040	77.00	QHCX2040	139.00	—	—	QHCX3040H	347.00	—	—
45	QHCX1045	77.00	QHCX2045	139.00	—	—	QHCX3045H	347.00	—	—
50	QHCX1050	77.00	QHCX2050	139.00	—	—	QHCX3050H	347.00	—	—
55	QHCX1055	77.00	QHCX2055	139.00	—	—	QHCX3055H	347.00	—	—
60	QHCX1060	77.00	QHCX2060	139.00	—	—	QHCX3060H	347.00	—	—
70	QHCX1070	124.00	QHCX2070	295.00	—	—	QHCX3070H	424.00	—	—
80	—	—	QHCX2080	295.00	—	—	QHCX3080H	590.00	—	—
90	—	—	QHCX2090	295.00	—	—	QHCX3090H	590.00	—	—
100	—	—	QHCX2100	295.00	—	—	QHCX3100H	590.00	—	—

QUICKLAG Type: QHCW 65,000 Ampere I.C. Thermal-Magnetic Breakers

15	QHCW1015 ①	87.50	QHCW2015	200.00	—	—	QHCW3015H	350.00	—	—
20	QHCW1020 ①	87.50	QHCW2020	200.00	—	—	QHCW3020H	350.00	—	—
25	QHCW1025	87.50	QHCW2025	200.00	—	—	—	—	—	—
30	QHCW1030	87.50	QHCW2030	200.00	—	—	—	—	—	—

① Switching duty rated for 120V AC fluorescent light applications only.

② For special low-magnetic breaker order QC1015L1 or QC1020L1.

③ Not UL listed

QUICKLAG®

Contents

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Quick Reference

Table 11-1. QUICKLAG Industrial Circuit Breakers ① Plug-In, Bolt-On, Cable-In/Cable-Out

Circuit Breaker Type	Circuit Breaker Type Code	Continuous Ampere Rating @ 40°C	Number of Poles	Volts		Federal Spec. W-C-375b	Interrupting Ratings rms Symmetrical Amperes						Page Number
				AC	DC		AC Ratings Volts			DC ②			
							120	120/240	240	24-48	62.5	80	
HQP	P	10 – 70	1	120/240	24, 48, 62.5	10a, 11a, 12a	—	10,000	—	5,000	③	—	11-4
HQP		10 – 125	2	120/240	24, 48, 80	10a, 12a	—	10,000	—	5,000	5,000	5,000	11-4
HQP		10 – 100	2, 3	240	—	10b, 11b, 12b	—	—	10,000	—	—	—	11-4
QPHW	P	15 – 70	1	120/240	24, 48, 62.5	14a	—	22,000	—	5,000	③	—	11-4
QPHW		15 – 125	2	120/240	24, 48, 80	14a	—	22,000	—	5,000	5,000	5,000	11-4
QPHW		15 – 100	2, 3	240	—	14b	—	—	22,000	—	—	—	11-4
QHPX	P	15 – 70	1	120/240	24, 48, 62.5	—	—	42,000	—	5,000	③	—	11-4
QHPX		15 – 100	2	120/240	24, 48, 80	—	—	42,000	—	5,000	5,000	5,000	11-4
QHPX		15 – 100	3	240	—	—	—	—	42,000	—	—	—	11-4
QHPW	P	15 – 30	1	120/240	24, 48, 62.5	15a	—	65,000	—	5,000	③	—	11-4
QHPW		15 – 30	2	120/240	24, 48, 80	15a	—	65,000	—	5,000	5,000	5,000	11-4
QHPW		15 – 20	3	240	—	15b	—	—	65,000	—	—	—	11-4
QPGF	P, GF	15 – 40	1	120	—	10a, 11a, 12a	10,000	—	—	—	—	—	11-5
QPGF		15 – 50	2	120/240	—	10a, 11a, 12a	—	10,000	—	—	—	—	11-5
QPHGF	P, GF	15 – 30	1	120	—	10a, 11a, 12a	22,000	—	—	—	—	—	11-5
QPHGF		15 – 50	2	120/240	—	10a, 11a, 12a	—	22,000	—	—	—	—	11-5
QPGFEP	P, GFEP	15 – 40	1	120	—	—	10,000	—	—	—	—	—	11-5
QPGFEP		15 – 50	2	120/240	—	—	—	10,000	—	—	—	—	11-5
QPHGFEP	P, GFEP	15 – 30	1	120	—	—	22,000	—	—	—	—	—	11-5
QPHGFEP		15 – 30	2	120/240	—	—	—	22,000	22,000	—	—	—	11-5

① QUICKLAG circuit breakers are suitable for application in relative humidity 0 – 95% non-condensating.

② Two-pole DC interrupting ratings based on 2 poles connected in series.

③ 62.5V AC interrupting rating is 3800 AIC 10 – 50 amperes and 2500 AIC 55 – 100 amperes continuous.

Circuit Breaker Type Codes: **P** Plug-In; **B** Bolt-On; **C** Cable-In/Cable-Out; **GF** Ground Fault, 5 mA; **GFEP** Ground Fault, 30 mA.For Types GHBS, GBHS and BABR Solenoid-Operated, Remote-Controlled Circuit Breakers, see **Pages 11-14 – 11-15**.For Types WMS and SPHM Supplementary Protectors, see **Pages 11-23 and 11-34**.

Quick Reference

Tables 11-1. QUICKLAG Industrial Circuit Breakers ① Plug-In, Bolt-On, Cable-In/Cable-Out (Continued)

Circuit Breaker Type	Circuit Breaker Type Code	Continuous Ampere Rating @ 40°C	Number of Poles	Volts		Federal Spec. W-C-375b	Interrupting Ratings rms Symmetrical Amperes						Page Number
				AC	DC		AC Ratings Volts			DC ②			
							120	120/240	240	24-48	62.5	80	
BAB BAB BAB	B	10 – 70 10 – 125 10 – 100	1 2 2, 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	10a, 11a, 12a 10a, 12a 10b, 11b, 12b	— — —	10,000 10,000 —	— — 10,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-6 11-6 11-6
BABR BABR	B	15 – 30 15 – 30	1 2	120 120/240	— —	— —	10,000 —	— 10,000	— —	— —	— —	— —	11-13 11-13
QBHW QBHW QBHW	B	15 – 70 15 – 125 15 – 100	1 2 2, 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	14a 14a 14b	— — —	22,000 22,000 —	— 22,000 22,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-6 11-6 11-6
HBAX HBAX HBAX	B	15 – 70 15 – 100 15 – 100	1 2 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	— — —	— — —	42,000 42,000 —	— — 42,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-6 11-6 11-6
HBAW HBAW HBAW	B	15 – 30 15 – 30 15 – 20	1 2 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	15a 15a 15b	— — —	65,000 65,000 —	— — 65,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-6 11-6 11-6
QBGf QBGf	B, GF	15 – 40 15 – 50	1 2	120 120/240	— —	10a, 11a, 12a 10a, 11a, 12a	10,000 —	— 10,000	— —	— —	— —	— —	11-7 11-7
QBHGf QBHGf	B, GF	15 – 30 15 – 30	1 2	120 120/240	— —	10a, 11a, 12a 10a, 11a, 12a	22,000 —	— 22,000	— —	— —	— —	— —	11-7 11-7
QBGfEP QBGfEP	B, GFEP	15 – 40 15 – 50	1 2	120 120/240	— —	— —	10,000 —	— 10,000	— —	— —	— —	— —	11-7 11-7
QBHGfEP QBHGfEP	B, GFEP	15 – 30 15 – 30	1 2	120 120/240	— —	— —	22,000 22,000	— 22,000	— —	— —	— —	— —	11-7 11-7
QC QC QC	C	10 – 70 10 – 100 10 – 100	1 2 2, 3, 4	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	10a, 11a, 12a 10a, 12a 10b, 11b, 12b	— — —	10,000 10,000 —	— — 10,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-9 11-9 11-9
QCF QCF QCF QCR QCR QCR	C	10 – 60 15 – 20 15 – 30 10 – 60 15 – 20 15 – 30	1, 2 1, 2 2, 3 1, 2 1, 2 2, 3	120/240 120/240 240 120/240 120/240 240	24, 48, 62.5 24, 48, 62.5 24, 48, 62.5 24, 48, 62.5 24, 48, 62.5 24, 48, 62.5	— — — — — —	10,000 22,000 — 10,000 22,000 —	10,000 — 10,000 10,000 — 10,000	— — — — — —	3,000 3,000 3,000 3,000 3,000 3,000	③ 3,000 3,000 2,000 3,000 3,000	— — — — — —	11-10 11-10 11-10 11-10 11-10 11-10
QCHW QCHW QCHW	C	15 – 70 15 – 100 15 – 100	1 2 2, 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	14a 14a 14b	— — —	22,000 22,000 —	— — 22,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-9 11-9 11-9
QHCX QHCX QHCX	C	15 – 70 15 – 100 15 – 100	1 2 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	— — —	— — —	42,000 42,000 —	— — 42,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-9 11-9 11-9
QHCW QHCW QHCW	C	15 – 30 15 – 30 15 – 20	1 2 3	120/240 120/240 240	24, 48, 62.5 24, 48, 80 —	15a 15a 15b	— — —	65,000 65,000 —	— — 65,000	5,000 5,000 —	③ 5,000 —	— 5,000 —	11-9 11-9 11-9
QCGf QCGf	C, GF	15 – 40 15 – 50	1 2	120 120/240	— —	— —	10,000 —	— 10,000	— —	— —	— —	— —	11-13 11-13
QCHGf QCHGf	C, GF	15 – 30 15 – 30	1 2	120 120/240	— —	— —	22,000 —	— 22,000	— —	— —	— —	— —	11-13 11-13
QCGfEP QCGfEP	C, GFEP	15 – 40 15 – 50	1 2	120 120/240	— —	— —	10,000 —	— 10,000	— —	— —	— —	— —	11-13 11-13
QCHGfEP QCHGfEP	C, GFEP	15 – 30 15 – 30	1 2	120 120/240	— —	— —	22,000 —	— 22,000	— —	— —	— —	— —	11-13 11-13

① QUICKLAG circuit breakers are suitable for application in relative humidity 0 – 95% non-condensating.

② Two-pole DC interrupting ratings based on 2 poles connected in series.

③ 62.5V AC interrupting rating is 3800 AIC 10 – 50 amperes and 2500 AIC 55 – 100 amperes continuous.

Circuit Breaker Type Codes: **P** Plug-In; **B** Bolt-On; **C** Cable-In/Cable-Out; **GF** Ground Fault, 5 mA; **GFEP** Ground Fault, 30 mA.

For Types GHBS, GBHS and BABR Solenoid-Operated, Remote-Controlled Circuit Breakers, see **Pages 11-14 – 11-15**.

For Types WMS and SPHM Supplementary Protectors, see **Pages 11-23 and 11-34**.

QUICKLAG — Cable-In/Cable-Out Types

Cable-In/Cable-Out Types QC,
QCHW, QHCX, QHCW

QUICKLAG Type QC 1-Pole

Product Description

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- Built and listed to UL 489
- All products UL and CSA listed
- All products 10 – 100A are HACR rated
- Switching duty rated for 120V AC fluorescent light applications only

Technical Data and Specifications

Shipping Data

Table 11-10. Shipping Data

Number of Poles	Carton Quantity	Approximate Weight Lbs. (Kg)	Dimensions in Inches (mm)	Time/Current Curves
1	24	9.0 (4.09)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)	FRED 350077
2	12	9.0 (4.09)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)	FRED 350177
3	8	9.0 (4.09)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)	FRED 350277

Note: Dimension Sheets — FRED Index 206

QUICKLAG — Factory Modifications and Installed Terminals

Factory Modifications and Installed Terminals

Table 11-29. Factory Modifications ①

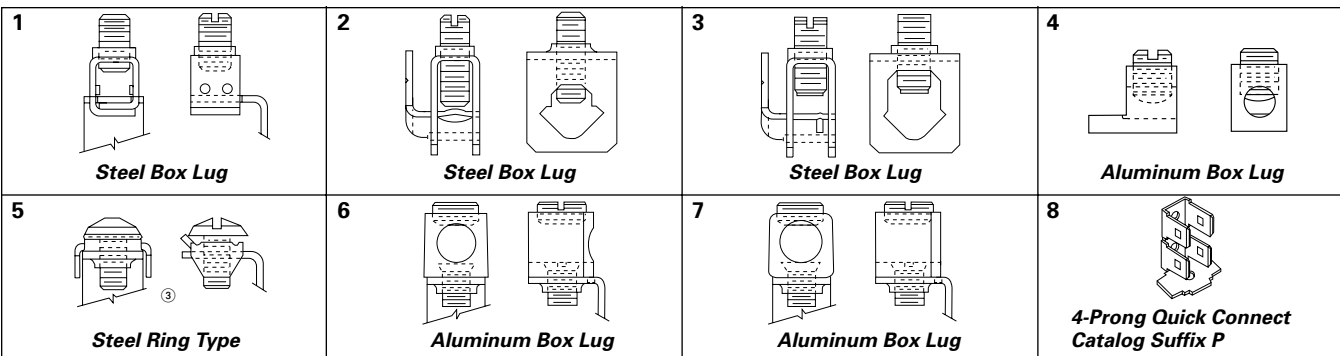
Type of Modification	Breaker Types	Catalog Suffix	Adder U.S. \$
Shunt Trip (Requires 1 extra pole space on right side) 120, 208, 240V AC 12, 24, 48V AC/DC Draws 2.6A at 120V Draws 11A at 24V DC	QUICKLAG Types P, B and C QUICKLAG Types P, B and C	S S1	138.00
Special Calibration (50°C) Shock Testing Freeze Testing	QUICKLAG Types P, B and C QUICKLAG Types P, B and C QUICKLAG Types P, B and C	V L Y	20% 30% 30%
Moisture-Fungus Treatment Marine Duty Naval Duty 400 Hz Calibration Specific DC Ratings (Breaker marked with a Max VDC rating)	QUICKLAG Types P, B, C and Ground Fault QUICKLAG Types P, B, C QUICKLAG Types P, B, C QUICKLAG Types P, B, C QUICKLAG Types P, B, C	F H08 H09 G Q thru Q9 ②	15.00 10% 10% 20% 20%

① Contact Cutler-Hammer for factory modifications available for QCR and QCF breakers.

② Q = 32V DC; Q1 = 32 – 40V DC; Q2 = 37.5V DC; Q3 = 45V DC; Q4 = 48V DC; Q5 = 50V DC; Q6 = 62V DC; Q7 = 75V DC (2P); Q8 = 80V DC (2P); Q9 = 125V DC (QCR 2P)

Table 11-30. Factory Installed Breaker Terminals

Breaker Type	Continuous Ampere Rating	Standard Line Terminal			Standard Load Terminal			Optional Terminals (20% List Price Adder)	
		Term Type	Wire Type	Wire Range (AWG)	Term Type	Wire Type	Wire Range (AWG)	Line	Load
QUICKLAG Type P HQP, QPHW, QHPX, QHPW	10 to 30 35 to 50 55 to 125	Plug-on female clips which mate with the bus stabs			1 2 3	Cu/Al Cu/Al Cu/Al	14 – 4 14 – 4 8 – 1/0	N/A	3 3 —
QUICKLAG Ground Fault QPGF, QPHGF, QPGFEP, QPHGFEP	10 to 30 40	Plug-on female clips which mate with the bus stabs			1 (1-pole) 4 (2-pole) 4	Cu/Al Cu/Al Cu	14 – 4 14 – 8 14 – 8	N/A	3 3 —
QUICKLAG Type B BAB, QBHW, HBAX, HBAW	10 to 30 35 to 50 55 to 125	Extended tangs which bolt directly to the bus			1 (1- and 2-pole) 2 (3-pole) 3	Cu/Al Cu/Al Cu/Al	14 – 4 14 – 4 8 – 1/0	N/A	3 3 —
QUICKLAG Ground Fault QBGF, QBHGF, QBGFEP, QBHGFEP	10 to 30 40	Extended tangs which bolt directly to the bus			1 (1-pole) 4 (2-pole) 4	Cu/Al Cu/Al Cu	14 – 4 14 – 8 14 – 8	N/A	N/A
QUICKLAG Type C QC, QCHW, QHCX, QHCW	10 to 20 25 to 60 70 to 100	5 6 7	Cu/Al Cu/Al Cu/Al	14 – 10 14 – 10 14 – 10	5 2 3	Cu/Al Cu/Al Cu/Al	14 – 10 14 – 4 8 – 1/0	6, 7 5, 7 5	6, 7, 8 5, 6, 7, 8 5, 7, 8
QUICKLAG QCR, QCF	10 to 55 60	1 1	Cu/Al Cu	14 – 4 14 – 4	1 1	Cu/Al Cu	14 – 4 14 – 4	N/A	N/A
QUICKLAG Ground Fault QCGF, QCHGF, QCGFEP, QCHGFEP	10 to 20 25 to 50	5 6	Cu/Al Cu/Al	14 – 10 14 – 10	1 1	Cu/Al Cu/Al	14 – 4 14 – 4	6, 7 5, 7	5 5



③ Clamp on line side only.

Table 11-31. Spare Terminal Hardware Screws (Lugs not Included)

Terminal Type	Description	Order in Multiples of	Catalog Number	Price U.S. \$
1	QUICKLAG Terminal Screw	10	QLDTS A	.21
2	QUICKLAG Terminal Screw	10	QLDTS B	.21
3	QUICKLAG Terminal Screw	10	QLDTS C	2.80
5	QUICKLAG Binding Head Terminal Screw and Clamp	10	QLBHTSE	2.80
6 and 7	QUICKLAG Terminal Screw	10	QLLNTSFG	2.80

Discount Symbol **CB-1**