

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

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Miniature Circuit Breakers and Supplementary Protectors



Contents

Description

Quick Reference

QUICKLAG

Quick Reference

Eaton's QUICKLAG Industrial Circuit Breakers ① Plug-In, Bolt-On, Cable-In/Cable-Out

Circuit Breaker Type	Circuit Breaker Type Code	Continuous Ampere Rating at 40°C	Number of Poles				Federal Spec. W-C-375b	Interrupting Ratings rms Symmetrical Amperes						Page Number
								Vac Ratings			Vdc Ratings ②			
				Vac	Vdc		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	—	5000	③	—	V4-T1-6	
HQP	P	10–125	2	120/240	24, 48, 80	10a, 12a	—	10,000	—	5000	5000	5000	V4-T1-6	
HQP	P	10–100	2, 3	240	—	10b, 11b, 12b	—	—	10,000	—	—	—	V4-T1-6	
QPHW	P	15–70	1	120/240	24, 48, 62.5	14a	—	22,000	—	5000	③	—	V4-T1-6	
QPHW	P	15–125	2	120/240	24, 48, 80	14a	—	22,000	—	5000	5000	5000	V4-T1-6	
QPHW	P	15–100	2, 3	240	—	14b	—	—	22,000	—	—	—	V4-T1-6	
QHPX	P	15–70	1	120/240	24, 48, 62.5	—	—	42,000	—	5000	③	—	V4-T1-7	
QHPX	P	15–100	2	120/240	24, 48, 80	—	—	42,000	—	5000	5000	5000	V4-T1-7	
QHPX	P	15–100	3	240	—	—	—	—	42,000	—	—	—	V4-T1-7	
QHPW	P	15–30	1	120/240	24, 48, 62.5	15a	—	65,000	—	5000	③	—	V4-T1-7	
QHPW	P	15–30	2	120/240	24, 48, 80	15a	—	65,000	—	5000	5000	5000	V4-T1-7	
QHPW	P	15–20	3	240	—	15b	—	—	65,000	—	—	—	V4-T1-7	
QPGFT	P, GF	15–40	1	120	—	10a, 11a, 12a	10,000	—	—	—	—	—	V4-T1-9	
QPGFT	P, GF	15–50	2	120/240	—	10a, 11a, 12a	—	10,000	—	—	—	—	V4-T1-9	

Notes

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

② Two-pole DC interrupting ratings based on two poles connected in series. Not UL® listed.

③ 62.5 Vac interrupting rating is 3800 AIC 10–50A and 2500 AIC 55–100A 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 BABRP solenoid-operated, remote-controlled circuit breakers, see **Pages V4-T1-31 to V4-T1-36**.

Eaton's QUICKLAG Industrial Circuit Breakers ① Plug-In, Bolt-On, Cable-In/Cable-Out, continued

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Circuit Breaker Type	Circuit Breaker Type Code	Continuous Ampere Rating at 40°C	Number of Poles				Federal Spec. W-C-375b	Interrupting Ratings rms Symmetrical Amperes						Page Number
								Vac Ratings			Vdc Ratings ^②			
								120	120/240	240	24–48	62.5	80	
QPHGFT	P, GF	15–30	1	120	—		10a, 11a, 12a	22,000	—	—	—	—	—	V4-T1-9
QPHGFT	P, GF	15–50	2	120/240	—		10a, 11a, 12a	—	22,000	—	—	—	—	V4-T1-9
QPGFEP	P, GFEP	15–40	1	120	—		—	10,000	—	—	—	—	—	V4-T1-9
QPGFEP	P, GFEP	15–50	2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-9
QPHGFEP	P, GFEP	15–30	1	120	—		—	22,000	—	—	—	—	—	V4-T1-9
BABRSP	B	15–30	1	120	—		—	10,000	—	—	—	—	—	V4-T1-12
BABRSP	B	15–30	2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-12
BRRP	P	15–30	1	120	—		—	10,000	—	—	—	—	—	V4-T1-32
BRRP	P	15–30	2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-32
CLRP	P	15–30	1	120	—		—	10,000	—	—	—	—	—	V4-T1-32
CLRP	P	15–30	2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-32
BAB	B	10–70	1	120/240	24, 48, 62.5		10a, 11a, 12a	—	10,000	—	5000	③	—	V4-T1-12
BAB	B	10–125	2	120/240	24, 48, 80		10a, 12a	—	10,000	—	5000	5000	5000	V4-T1-12
BAB	B	10–100	2, 3	240	—		10b, 11b, 12b	—	—	10,000	—	—	—	V4-T1-12
BABRP	B	15–30	1	120	—		—	10,000	—	—	—	—	—	V4-T1-32
BABRP	B	15–30	2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-32
QBAF	B, AF	15–20	1, 2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-15
QBCAF	B, AF, GF	15–20	1, 2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-15
QBHW	B	15–70	1	120/240	24, 48, 62.5		14a	—	22,000	—	5000	③	—	V4-T1-12
QBHW	B	15–125	2	120/240	24, 48, 80		14a	—	22,000	—	5000	5000	5000	V4-T1-12
QBHW	B	15–100	2, 3	240	—		14b	—	—	22,000	—	—	—	V4-T1-12
HBAX	B	15–70	1	120/240	24, 48, 62.5		—	—	42,000	—	5000	③	—	V4-T1-13
HBAX	B	15–100	2	120/240	24, 48, 80		—	—	42,000	—	5000	5000	5000	V4-T1-13
HBAX	B	15–100	3	240	—		—	—	—	42,000	—	—	—	V4-T1-13
HBAW	B	15–30	1	120/240	24, 48, 62.5		15a	—	65,000	—	5000	③	—	V4-T1-13
HBAW	B	15–30	2	120/240	24, 48, 80		15a	—	65,000	—	5000	5000	5000	V4-T1-13
HBAW	B	15–20	3	240	—		15b	—	—	65,000	—	—	—	V4-T1-13
QBGFT	B, GF	15–40	1	120	—		10a, 11a, 12a	10,000	—	—	—	—	—	V4-T1-18
QBGFT	B, GF	15–50	2	120/240	—		10a, 11a, 12a	—	10,000	—	—	—	—	V4-T1-18
QBHGFT	B, GF	15–30	1	120	—		10a, 11a, 12a	22,000	—	—	—	—	—	V4-T1-18
QBHGFT	B, GF	15–30	1	120/240	—		10a, 11a, 12a	—	22,000	—	—	—	—	V4-T1-18
QBGFEP	B, GFEP	15–40	1	120	—		—	10,000	—	—	—	—	—	V4-T1-18
QBGFEP	B, GFEP	15–50	2	120/240	—		—	—	10,000	—	—	—	—	V4-T1-18
QBHGFEP	B, GFEP	15–30	1	120	—		—	22,000	—	—	—	—	—	V4-T1-18
QBHGFEP	B, GFEP	15–30	2	120/240	—		—	22,000	22,000	—	—	—	—	V4-T1-18
QC	C	10–70	1	120/240	24, 48, 62.5		10a, 11a, 12a	—	10,000	—	5000	③	—	V4-T1-41
QC	C	10–100	2	120/240	24, 48, 80		10a, 12a	—	10,000	—	5000	5000	5000	V4-T1-41
QC	C	10–100	2, 3, 4	240	—		10b, 11b, 12b	—	—	10,000	—	—	—	V4-T1-41
QCD	C	10–60	1, 2	120/240	24, 48, 62.5		—	10,000	10,000	—	3000	3000	—	V4-T1-23
QCD	C	10–100	2, 3	240	24, 48, 62.5		—	—	10,000	—	3000	3000	—	V4-T1-23
QCF	C	10–60	1, 2	120/240	24, 48, 62.5		—	10,000	10,000	—	3000	3000	—	V4-T1-42

Notes

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

② Two-pole DC interrupting ratings based on two poles connected in series. Not UL listed.

③ 62.5 Vac interrupting rating is 3800 AIC 10–50A and 2500 AIC 55–100A 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 BABRP solenoid-operated, remote-controlled circuit breakers, see **Pages V4-T1-31 to V4-T1-36**.

Eaton's QUICKLAG Industrial Circuit Breakers ^① Plug-In, Bolt-On, Cable-In/Cable-Out, continued

Circuit Breaker Type	Circuit Breaker Type Code	Continuous Ampere Rating at 40°C	Number of Poles				Federal Spec. W-C-375b	Interrupting Ratings rms Symmetrical Amperes						Page Number
								Vac Ratings			Vdc Ratings ②			
								120	120/240	240	24–48	62.5	80	
QCF	C	15–20	1, 2	120/240	24, 48, 62.5	—	22,000	—	—	3000	3000	—	V4-T1-27	
QCF	C	15–30	2, 3	240	24, 48, 62.5	—	—	10,000	—	3000	3000	—	V4-T1-27	
QCR	C	10–60	1, 2	120/240	24, 48, 62.5	—	10,000	10,000	—	3000	3000	—	V4-T1-27	
QCR	C	15–20	1, 2	120/240	24, 48, 62.5	—	22,000	—	—	3000	3000	—	V4-T1-27	
QCR	C	15–30	2, 3	240	24, 48, 62.5	—	—	10,000	—	3000	3000	—	V4-T1-27	
QCHW	C	15–70	1	120/240	24, 48, 62.5	14a	—	22,000	—	5000	③	—	V4-T1-22	
QCHW	C	15–100	2	120/240	24, 48, 80	14a	—	22,000	—	5000	5000	5000	V4-T1-22	
QCHW	C	15–100	2, 3	240	—	14b	—	—	22,000	—	—	—	V4-T1-22	
QHCX	C	15–70	1	120/240	24, 48, 62.5	—	—	42,000	—	5000	③	—	V4-T1-22	
QHCX	C	15–100	2	120/240	24, 48, 80	—	—	42,000	—	5000	5000	5000	V4-T1-22	
QHCX	C	15–100	3	240	—	—	—	—	42,000	—	—	—	V4-T1-22	
QHCW	C	15–30	1	120/240	24, 48, 62.5	15a	—	65,000	—	5000	③	—	V4-T1-22	
QHCW	C	15–30	2	120/240	24, 48, 80	15a	—	65,000	—	5000	5000	5000	V4-T1-22	
QHCW	C	15–20	3	240	—	15b	—	—	65,000	—	—	—	V4-T1-22	
QCGFT	C, GF	15–40	1	120	—	—	10,000	—	—	—	—	—	V4-T1-29	
QCGFT	C, GF	15–50	2	120/240	—	—	—	10,000	—	—	—	—	V4-T1-29	
QCHGFT	C, GF	15–30	1	120	—	—	22,000	—	—	—	—	—	V4-T1-29	
QCHGFT	C, GF	15–30	2	120/240	—	—	—	22,000	—	—	—	—	V4-T1-29	
QCGFEP	C, GFEP	15–40	1	120	—	—	10,000	—	—	—	—	—	V4-T1-29	
QCGFEP	C, GFEP	15–50	2	120/240	—	—	—	10,000	—	—	—	—	V4-T1-29	
QCHGFEP	C, GFEP	15–30	1	120	—	—	22,000	—	—	—	—	—	V4-T1-29	
QCHGFEP	C, GFEP	15–30	2	120/240	—	—	—	22,000	—	—	—	—	V4-T1-29	

Notes

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

② Two-pole DC interrupting ratings based on two poles connected in series. Not UL listed.

③ 62.5 Vac interrupting rating is 3800 AIC 10–50A and 2500 AIC 55–100A 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 BABRP solenoid-operated, remote-controlled circuit breakers, see **Pages V4-T1-31 to V4-T1-36**.

QUICKLAG Type HQP Single-Pole



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QUICKLAG Plug-On Types HQP, QPHW, QHPX, QHPW

Product Description

- All products 15–100A are HACR rated
- Switching duty rated for 120 Vac fluorescent light applications

Standards and Certifications

- Built and listed to UL 489
- All products UL and CSA® listed



Product Selection

QUICKLAG Type HQP
Single-Pole

QUICKLAG Type: HQP 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
10	HQP1010	HQP2010	—	HQP3010H ③
15	HQP1015 ①②	HQP2015	HQP2015H	HQP3015H
20	HQP1020 ①②	HQP2020	HQP2020H	HQP3020H
25	HQP1025	HQP2025	HQP2025H	HQP3025H
30	HQP1030	HQP2030	HQP2030H	HQP3030H
35	HQP1035	HQP2035	HQP2035H	HQP3035H
40	HQP1040	HQP2040	HQP2040H	HQP3040H
45	HQP1045	HQP2045	HQP2045H	HQP3045H
50	HQP1050	HQP2050	HQP2050H	HQP3050H
55	HQP1055	HQP2055	HQP2055H	HQP3055H
60	HQP1060	HQP2060	HQP2060H	HQP3060H
70	HQP1070	HQP2070	HQP2070H	HQP3070H
80	—	HQP2080	HQP2080H	HQP3080H
90	—	HQP2090	HQP2090H	HQP3090H
100	HQP1100	HQP2100	HQP2100H	HQP3100H
110	—	HQP2110	—	—
125	—	HQP2125	—	—
150	—	HQP2150	—	—

QUICKLAG Type: HQP Non-Automatic Switches

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
50	HQP1050N	—	HQP2050N	HQP3050N
60	HQP1060N	—	HQP2060N	HQP3060N
100	HQP1100N	—	HQP2100N	HQP3100N

QUICKLAG Type: QPHW 22,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
15	QPHW1015 ①	QPHW2015	QPHW2015H	QPHW3015H
20	QPHW1020 ①	QPHW2020	QPHW2020H	QPHW3020H
25	QPHW1025	QPHW2025	QPHW2025H	QPHW3025H
30	QPHW1030	QPHW2030	QPHW2030H	QPHW3030H
35	QPHW1035	QPHW2035	QPHW2035H	QPHW3035H
40	QPHW1040	QPHW2040	QPHW2040H	QPHW3040H
45	QPHW1045	QPHW2045	QPHW2045H	QPHW3045H
50	QPHW1050	QPHW2050	QPHW2050H	QPHW3050H
55	QPHW1055	QPHW2055	QPHW2055H	QPHW3055H
60	QPHW1060	QPHW2060	QPHW2060H	QPHW3060H
70	QPHW1070	QPHW2070	QPHW2070H	QPHW3070H
80	—	QPHW2080	QPHW2080H	QPHW3080H
90	—	QPHW2090	QPHW2090H	QPHW3090H
100	—	QPHW2100	QPHW2100H	QPHW3100H
110	—	QPHW2110	—	—
125	—	QPHW2125	—	—

Notes

- ① Switching duty rated for 120 Vac fluorescent light applications.
- ② For special low-magnetic breaker, order **HQP1015L1** or **HQP1020L1**.
- ③ Not UL listed.

QUICKLAG Type: QHPX 42,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
15	QHPX1015 ^①	QHPX2015	—	QHPX3015H
20	QHPX1020 ^①	QHPX2020	—	QHPX3020H
25	QHPX1025	QHPX2025	—	QHPX3025H
30	QHPX1030	QHPX2030	—	QHPX3030H
35	QHPX1035	QHPX2035	—	QHPX3035H
40	QHPX1040	QHPX2040	—	QHPX3040H
45	QHPX1045	QHPX2045	—	QHPX3045H
50	QHPX1050	QHPX2050	—	QHPX3050H
55	QHPX1055	QHPX2055	—	QHPX3055H
60	QHPX1060	QHPX2060	—	QHPX3060H
70	QHPX1070	QHPX2070	—	QHPX3070H
80	—	QHPX2080	—	QHPX3080H
90	—	QHPX2090	—	QHPX3090H
100	—	QHPX2100	—	QHPX3100H

QUICKLAG Type: QHPW 65,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
15	QHPW1015 ^①	QHPW2015	—	QHPW3015H
20	QHPW1020 ^①	QHPW2020	—	QHPW3020H
25	QHPW1025	QHPW2025	—	—
30	QHPW1030	QHPW2030	—	—

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Number of Poles	Carton Quantity	Approximate Weight Lbs (kg)	Dimensions
1	24	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
2	12	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
3	8	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)

Note

^① Switching duty rated for 120 Vac fluorescent light applications.

**QUICKLAG Type QPGFT Single-Pole
Ground Fault Circuit Breaker**



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QUICKLAG Plug-On Ground Fault and Equipment Protectors, Types QPGFT, QPHGFT, QPGFEP, QPHGFEP

Product Description

QUICKLAG Ground Fault Circuit Breakers, Class A GFCI

- 5 mA trip sensitivity

QUICKLAG Ground Fault Equipment Protectors

- 30 mA trip sensitivity

Standards and Certifications

- Built and listed to UL 489

QUICKLAG Ground Fault Circuit Breakers, Class A GFCI

- Built and tested to UL 943

QUICKLAG Ground Fault Equipment Protectors

- Built and listed to UL 1053



Product Selection

1

QUICKLAG Type QPGFT
Single-Pole



Ground Fault Circuit Breakers—5 mA Sensitivity QUICKLAG Type: QPGFT 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QPGFT1015	QPGFT2015
20	QPGFT1020	QPGFT2020
25	QPGFT1025	QPGFT2025
30	QPGFT1030	QPGFT2030
40	QPGFT1040	QPGFT2040
50	—	QPGFT2050

QUICKLAG Type: QPHGFT 22,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QPHGFT1015	QPHGFT2015
20	QPHGFT1020	QPHGFT2020
25	QPHGFT1025	QPHGFT2025
30	QPHGFT1030	QPHGFT2030

Ground Fault Equipment Breakers—30 mA Sensitivity QUICKLAG Type: QPGFEP 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QPGFEP1015	QPGFEP2015
20	QPGFEP1020	QPGFEP2020
25	QPGFEP1025	QPGFEP2025
30	QPGFEP1030	QPGFEP2030
40	QPGFEP1040	QPGFEP2040
50	—	QPGFEP2050

QUICKLAG Type: QPHGFEP 22,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QPHGFEP1015	QPHGFEP2015
20	QPHGFEP1020	QPHGFEP2020
25	QPHGFEP1025	QPHGFEP2025
30	QPHGFEP1030	QPHGFEP2030

Special Application Ground Fault Circuit Protectors—5 mA Sensitivity
QUICKLAG Type: QPGFT 10,000A Interrupting Capacity with Bell Alarm (W1) or
Auxiliary Switch (W2)

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QPGFT1015W1	QPGFT2015W1
20	QPGFT1020W1	QPGFT2020W1
25	QPGFT1025W1	QPGFT2025W1
30	QPGFT1030W1	QPGFT2030W1
40	—	QPGFT2040W1
50	—	QPGFT2050W1
15	QPGFT1015W2	—
20	QPGFT1020W2	—
25	QPGFT1025W2	—
30	QPGFT1030W2	—

Special Application Ground Fault Circuit Protectors—30 mA Sensitivity
QUICKLAG Type: QPGFEP 10,000A Interrupting Capacity with Bell Alarm (W1) or
Auxiliary Switch (W2)

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QPGFEP1015W1	QPGFEP2015W1
20	QPGFEP1020W1	QPGFEP2020W1
25	QPGFEP1025W1	QPGFEP2025W1
30	QPGFEP1030W1	QPGFEP2030W1
40	—	QPGFEP2040W1
50	—	QPGFEP2050W1
15	QPGFEP1015W2	—
20	QPGFEP1020W2	—
25	QPGFEP1025W2	—
30	QPGFEP1030W2	—

Wiring Diagram

Bell Alarm and Auxiliary Contact Schematic



Single-throw double-pole contacts are UL and CSA listed for 5A at 250 Vac.
 Bell Alarm (W1)—contacts change state when breaker trips.
 Auxiliary Switch (W2)—contacts change state when breaker is opened (or tripped) or closed.
 14-inch (355.6 mm) long 18 AWG pigtail wire leads provided.

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Number of Poles	Carton Quantity	Approximate Weight Lbs (kg)	Dimensions
1	24	11.00 (5.0)	12.50 x 6.50 x 5.00 (317.5 x 165.1 x 127.0)
2	5	5.00 (2.3)	15.50 x 6.00 x 4.50 (393.7 x 152.4 x 114.3)

Note

Shipped individually or in carton quantities.

QUICKLAG Type BAB Single-Pole



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QBAF, QBCAF	V4-T1-14
Bolt-On Ground Fault and Equipment Protectors, Types QBGFT, QBHGFT, QBGFEP, QBHGFEP	V4-T1-17
Cable-In/Cable-Out Types QC, QCD, QCHW, QHCX, QHCW	V4-T1-20
Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF, QCRH, QCFH	V4-T1-24
Cable-In/Cable-Out Ground Fault and Equipment Protectors, Types QCGFT, QCHGFT, QCGFEP, QCHGFEP	V4-T1-28
Solenoid-Operated, Remote-Controlled Latching Types BABRP, BABRSP, BRRP and CLRP	V4-T1-31
Solenoid Operator—Remote Controlled Latching for Type GHBS, GBHS and GHQRSP Breakers.	V4-T1-34
International Rated Types HQP, BA, QC, GFMB, GFXBC	V4-T1-37
Special Application Breakers, Types HQP, BA, QC	V4-T1-40

Bolt-On Types BAB, QBHW, HBAX, HBAW

Product Description

- All products 15–100A are HACR rated
- Switching duty rated for 120 Vac fluorescent light applications

Standards and Certifications

- Built and listed to UL 489
- All products UL and CSA listed



1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Product Selection

QUICKLAG Type BAB
Single-Pole



QUICKLAG Type: BA 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
10	BAB1010	BAB2010	BAB2010H ③	BAB3010H ③
15	BAB1015 ①②	BAB2015	BAB2015H	BAB3015H
20	BAB1020 ①②	BAB2020	BAB2020H	BAB3020H
25	BAB1025	BAB2025	BAB2025H	BAB3025H
30	BAB1030	BAB2030	BAB2030H	BAB3030H
35	BAB1035	BAB2035	BAB2035H	BAB3035H
40	BAB1040	BAB2040	BAB2040H	BAB3040H
45	BAB1045	BAB2045	BAB2045H	BAB3045H
50	BAB1050	BAB2050	BAB2050H	BAB3050H
55	BAB1055	BAB2055	BAB2055H	BAB3055H
60	BAB1060	BAB2060	BAB2060H	BAB3060H
70	BAB1070	BAB2070	BAB2070H	BAB3070H
80	—	BAB2080	BAB2080H	BAB3080H
90	—	BAB2090	BAB2090H	BAB3090H
100	BAB1100	BAB2100	BAB2100H	BAB3100H
110	—	BAB2110	—	—
125	—	BAB2125	—	—

QUICKLAG Type: BA Non-Automatic Switches

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
50	BAB1050N	—	BAB2050N	BAB3050N
60	BAB1060N	—	BAB2060N	BAB3060N
100	BAB1100N	—	BAB2100N	BAB3100N

QUICKLAG Type: QBHW 22,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
15	QBHW1015 ①	QBHW2015	QBHW2015H	QBHW3015H
20	QBHW1020 ①	QBHW2020	QBHW2020H	QBHW3020H
25	QBHW1025	QBHW2025	QBHW2025H	QBHW3025H
30	QBHW1030	QBHW2030	QBHW2030H	QBHW3030H
35	QBHW1035	QBHW2035	QBHW2035H	QBHW3035H
40	QBHW1040	QBHW2040	QBHW2040H	QBHW3040H
45	QBHW1045	QBHW2045	QBHW2045H	QBHW3045H
50	QBHW1050	QBHW2050	QBHW2050H	QBHW3050H
55	QBHW1055	QBHW2055	QBHW2055H	QBHW3055H
60	QBHW1060	QBHW2060	QBHW2060H	QBHW3060H
70	QBHW1070	QBHW2070	QBHW2070H	QBHW3070H
80	—	QBHW2080	QBHW2080H	QBHW3080H
90	—	QBHW2090	QBHW2090H	QBHW3090H
100	—	QBHW2100	QBHW2100H	QBHW3100H
110	—	QBHW2110	—	—
125	—	QBHW2125	—	—

Notes

- ① Switching duty rated for 120 Vac fluorescent light applications.
- ② For special low-magnetic breaker, order **BAB1015L1** or **BAB1020L1**.
- ③ Not UL listed.

QUICKLAG Type: HBAX 42,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
15	HBAX1015 ①	HBAX2015	—	HBAX3015H
20	HBAX1020 ①	HBAX2020	—	HBAX3020H
25	HBAX1025	HBAX2025	—	HBAX3025H
30	HBAX1030	HBAX2030	—	HBAX3030H
35	HBAX1035	HBAX2035	—	HBAX3035H
40	HBAX1040	HBAX2040	—	HBAX3040H
45	HBAX1045	HBAX2045	—	HBAX3045H
50	HBAX1050	HBAX2050	—	HBAX3050H
55	HBAX1055	HBAX2055	—	HBAX3055H
60	HBAX1060	HBAX2060	—	HBAX3060H
70	HBAX1070	HBAX2070	—	HBAX3070H
80	—	HBAX2080	—	HBAX3080H
80	—	HBAX2080	—	HBAX3080H
90	—	HBAX2090	—	HBAX3090H
100	—	HBAX2100	—	HBAX3100H

QUICKLAG Type: HBAW 65,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
15	HBAW1015 ①	HBAW2015	—	HBAW3015H
20	HBAW1020 ①	HBAW2020	—	HBAW3020H
25	HBAW1025	HBAW2025	—	—
30	HBAW1030	HBAW2030	—	—

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Number of Poles	Carton Quantity	Approximate Weight Lbs (kg)	Dimensions
1	24	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
2	12	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
3	8	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)

Note

① Switching duty rated for 120 Vac fluorescent light applications.

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Bolt-On Arc Fault Circuit Interrupter QUICKLAG Types QBAF, QBCAF



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Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF, QCRH, QCFH	V4-T1-24
Cable-In/Cable-Out Ground Fault and Equipment Protectors, Types QCGFT, QCHGFT, QCGFEP, QCHGFEP	V4-T1-28
Solenoid-Operated, Remote-Controlled Latching Types BABRP, BABRSP, BRRP and CLRP	V4-T1-31
Solenoid Operator—Remote Controlled Latching for Type GHBS, GBHS and GHQRSP Breakers	V4-T1-34
International Rated Types HQP, BA, QC, GFMB, GFXBC	V4-T1-37
Special Application Breakers, Types HQP, BA, QC	V4-T1-40

Bolt-On Arc Fault Circuit Interrupter Types QBAF, QBCAF

Product Description

- All products HACR rated

Features, Benefits and Functions

- 10 and 22 kAIC rating at 120V and 120/240V
- Single-pole AFCI
- HID ratings for HID (High Intensity Discharge) lighting
- All models are HACR rated

Standards and Certifications

- Built and listed to UL 489
- UL File E7819 for QBAF



Product Selection

QBCAF and QBAF Type AFCIs

Effective immediately, Eaton AFCIs are available for use in Sumter panels with a 22 kAIC rating. This higher rated breaker will allow us to win jobs where AFCIs are specified at higher than 10 kAIC. This breaker provides standard thermal-

magnetic protection of branch circuits. This product will have the same form, fit and function of the current bolt-on AFCI (QBCAF and QBAF Type). Product scope is below. These breakers are in Bid Manager™ for Pow-R-Line 1a, Pow-R-Line 1a-LX,

Pow-R-Line 3a and Pow-R-Line 4a panelboards. For series rated combinations, continue to use the less expensive 10 kAIC QBCAF and QBAF offerings.

Breakers can also be ordered from Vista.

QBHCAF



1-Inch (25.4 mm) Wide Bolt-On Arc Fault Circuit Interrupter

Poles	kAIC Rating	Ampere Rating	Configuration	Catalog Number
Type QBCAF Combination AFCI				
Single-pole	10 kAIC	15	Combination AFCI	QBCAF1015
		20	Combination AFCI	QBCAF1020
	22 kAIC	15	Combination AFCI	QBHCAF1015
		20	Combination AFCI	QBHCAF1020
Type QBAF Branch Feeder AFCI				
Single-pole	10 kAIC	15	Branch Feeder AFCI	QBAF1015
		20	Branch Feeder AFCI	QBAF1020
	22 kAIC	15	Branch Feeder AFCI	QBHAF1015
		20	Branch Feeder AFCI	QBHAF1020

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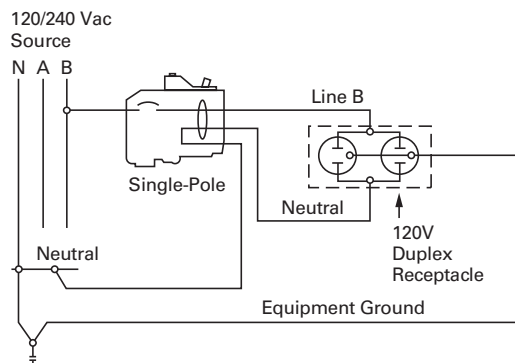
Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

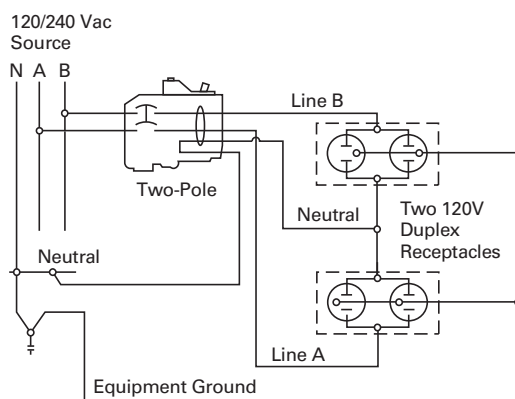
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Wiring Diagrams

Single-Pole 120V Load Application Sourced by 120/240 Vac



Single-Pole Shared Neutral with Multi-Duplex Receptacle Application



**QUICKLAG Type QBGFT Single-Pole
Ground Fault Circuit Breaker**



Bolt-On Ground Fault and Equipment Protectors, Types QBGFT, QBHGFT, QBGFEP, QBHGFEP

Product Description

QUICKLAG Ground Fault Circuit Breakers, Class A GFCI

- 5 mA trip sensitivity

QUICKLAG Ground Fault Equipment Protectors

- 30 mA trip sensitivity

Standards and Certifications

- Built and tested to UL 489

QUICKLAG Ground Fault Circuit Breakers, Class A GFCI

- Built and tested to UL 943

QUICKLAG Ground Fault Equipment Protectors

- Built and tested to UL 1053



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Cable-In/Cable-Out Types QC, QCD, QCHW, QHCX, QHCW	V4-T1-20
Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF, QCRH, QCFH	V4-T1-24
Cable-In/Cable-Out Ground Fault and Equipment Protectors, Types QCGFT, QCHGFT, QCGFEP, QCHGFEP	V4-T1-28
Solenoid-Operated, Remote-Controlled Latching Types BABRP, BABRSP, BRRP and CLRP	V4-T1-31
Solenoid Operator—Remote Controlled Latching for Type GHBS, GBHS and GHQRSP Breakers.	V4-T1-34
International Rated Types HQP, BA, QC, GFMB, GFXBC	V4-T1-37
Special Application Breakers, Types HQP, BA, QC	V4-T1-40

Product Selection

QUICKLAG Type QBGFT
Single-PoleGround Fault Circuit Breakers—5 mA Sensitivity QUICKLAG Type:
QBGFT 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QBGFT1015	QBGFT2015
20	QBGFT1020	QBGFT2020
25	QBGFT1025	QBGFT2025
30	QBGFT1030	QBGFT2030
40	QBGFT1040	QBGFT2040
50	—	QBGFT2050

QUICKLAG Type: QBHGF 22,000A Interrupting Capacity
Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QBHGF1015	QBHGF2015
20	QBHGF1020	QBHGF2020
25	QBHGF1025	QBHGF2025
30	QBHGF1030	QBHGF2030

Ground Fault Equipment Breakers—30 mA Sensitivity QUICKLAG Type:
QBGFEP 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QBGFEP1015	QBGFEP2015
20	QBGFEP1020	QBGFEP2020
25	QBGFEP1025	QBGFEP2025
30	QBGFEP1030	QBGFEP2030
40	QBGFEP1040	QBGFEP2040
50	—	QBGFEP2050

QUICKLAG Type: QBHGFEP 22,000A Interrupting Capacity
Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QBHGFEP1015	QBHGFEP2015
20	QBHGFEP1020	QBHGFEP2020
25	QBHGFEP1025	QBHGFEP2025
30	QBHGFEP1030	QBHGFEP2030

**Special Application Ground Fault Circuit Protectors—5 mA Sensitivity QUICKLAG Type:
QBGFT 10,000A Interrupting Capacity with Bell Alarm (W1) or Auxiliary Switch (W2)**

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QBGFT1015W1	QBGFT2015W1
20	QBGFT1020W1	QBGFT2020W1
25	QBGFT1025W1	QBGFT2025W1
30	QBGFT1030W1	QBGFT2030W1
40	—	QBGFT2040W1
50	—	QBGFT2050W1
15	QBGFT1015W2	—
20	QBGFT1020W2	—
25	QBGFT1025W2	—
30	QBGFT1030W2	—

**Special Application Ground Fault Circuit Protectors—30 mA Sensitivity QUICKLAG Type:
QBGFEP 10,000A Interrupting Capacity with Bell Alarm (W1) or Auxiliary Switch (W2)**

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
15	QBGFEP1015W1	QBGFEP2015W1
20	QBGFEP1020W1	QBGFEP2020W1
25	QBGFEP1025W1	QBGFEP2025W1
30	QBGFEP1030W1	QBGFEP2030W1
40	—	QBGFEP2040W1
50	—	QBGFEP2050W1
15	QBGFEP1015W2	—
20	QBGFEP1020W2	—
25	QBGFEP1025W2	—
30	QBGFEP1030W2	—

Wiring Diagram**Bell Alarm and Auxiliary Contact Schematic**

Single-throw double-pole contacts are UL and CSA listed for 5A at 250 Vac.

Bell Alarm (W1)—contacts change state when breaker trips.

Auxiliary Switch (W2)—contacts change state when breaker is opened (or tripped) or closed.

14-inch (355.6 mm) long 18 AWG pigtail wire leads provided.

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Number of Poles	Approximate Weight Lbs (kg)	Dimensions
1	11.00 (5.0)	12.50 x 6.50 x 5.00 (317.5 x 165.1 x 127.0)
2	5.00 (2.3)	15.50 x 6.00 x 4.50 (393.7 x 152.4 x 114.3)

Note

Shipped individually or in carton quantities.

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

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QUICKLAG Type QC Single-Pole



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Bolt-On Types BAB, QBHW, HBAX, HBAW	V4-T1-11
Bolt-On Arc Fault Circuit Interrupter Types QBAF, QBCAF	V4-T1-14
Bolt-On Ground Fault and Equipment Protectors, Types QBGFT, QBHGFT, QBGFEP, QBHGFEP	V4-T1-17
Cable-In/Cable-Out Types QC, QCD, QCHW, QHCX, QHCW	V4-T1-21
Product Selection	V4-T1-23
Dimensions	V4-T1-23
Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF, QCRH, QCFH	V4-T1-24
Cable-In/Cable-Out Ground Fault and Equipment Protectors, Types QCGFT, QCHGFT, QCGFEP, QCHGFEP	V4-T1-28
Solenoid-Operated, Remote-Controlled Latching Types BABRP, BABRSP, BRRP and CLRP	V4-T1-31
Solenoid Operator—Remote Controlled Latching for Type GHBS, GBHS and GHQRSP Breakers	V4-T1-34
International Rated Types HQP, BA, QC, GFMB, GFXBC	V4-T1-37
Special Application Breakers, Types HQP, BA, QC	V4-T1-40

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

Product Description

- All products 10–100A are HACR rated
- Switching duty rated for 120 Vac fluorescent light applications only

Standards and Certifications

- Built and listed to UL 489
- All products UL and CSA listed



Product Selection

1

QUICKLAG Type QC Single-Pole



QUICKLAG Type: QC 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number	Four-Pole 240 Vac Catalog Number
5	QC1005 ^①	QC2005 ^①	—	—	—
10	QC1010	QC2010	QC2010H ^①	QC3010H ^①	—
15	QC1015 ^②	QC2015	QC2015H	QC3015H	QC4015H
20	QC1020 ^②	QC2020	QC2020H	QC3020H	QC4020H
25	QC1025	QC2025	QC2025H	QC3025H	QC4025H
30	QC1030	QC2030	QC2030H	QC3030H	QC4030H
35	QC1035	QC2035	QC2035H	QC3035H	QC4035H
40	QC1040	QC2040	QC2040H	QC3040H	QC4040H
45	QC1045	QC2045	QC2045H	QC3045H	QC4045H
50	QC1050	QC2050	QC2050H	QC3050H	QC4050H
55	QC1055	QC2055	QC2055H	QC3055H	QC4055H
60	QC1060	QC2060	QC2060H	QC3060H	QC4060H
70	QC1070	QC2070	QC2070H	QC3070H	QC4070H
70	—	QC2080	QC2080H	QC3080H	QC4080H
90	—	QC2090	QC2090H	QC3090H	QC4090H
100	QC1100	QC2100	QC2100H	QC3100H	QC4100H

QUICKLAG Type: QC Non-Automatic Switches

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number	Four-Pole 240 Vac Catalog Number
50	QC1050N	—	QC2050N	QC3050N	—
60	QC1060N	—	QC2060N	QC3060N	—
100	QC1100N	—	QC2100N	QC3100N	—

Notes

^① Not UL listed.

^② Switching duty rated for 120 Vac fluorescent light applications only.

For special low-magnetic breaker, order **QC1015L1** or **QC1020L1**. Non-automatic switches, see **Page V4-T1-42**.

QUICKLAG Type: QCHW 22,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number	Four-Pole 240 Vac Catalog Number
15	QCHW1015 ^①	QCHW2015	QCHW2015H	QCHW3015H	QCHW4015H
20	QCHW1020 ^①	QCHW2020	QCHW2020H	QCHW3020H	QCHW4020H
25	QCHW1025	QCHW2025	QCHW2025H	QCHW3025H	QCHW4025H
30	QCHW1030	QCHW2030	QCHW2030H	QCHW3030H	QCHW4030H
35	QCHW1035	QCHW2035	QCHW2035H	QCHW3035H	QCHW4035H
40	QCHW1040	QCHW2040	QCHW2040H	QCHW3040H	QCHW4040H
45	QCHW1045	QCHW2045	QCHW2045H	QCHW3045H	QCHW4045H
50	QCHW1050	QCHW2050	QCHW2050H	QCHW3050H	QCHW4050H
55	QCHW1055	QCHW2055	QCHW2055H	QCHW3055H	QCHW4055H
60	QCHW1060	QCHW2060	QCHW2060H	QCHW3060H	QCHW4060H
70	QCHW1070	QCHW2070	QCHW2070H	QCHW3070H	QCHW4070H
70	—	QCHW2080	QCHW2080H	QCHW3080H	QCHW4080H
90	—	QCHW2090	QCHW2090H	QCHW3090H	QCHW4090H
100	—	QCHW2100	QCHW2100H	QCHW3100H	QCHW4100H

QUICKLAG Type: QHCX 42,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number	Four-Pole 240 Vac Catalog Number
15	QHCX1015 ^①	QHCX2015	—	QHCX3015H	—
20	QHCX1020 ^①	QHCX2020	—	QHCX3020H	—
25	QHCX1025	QHCX2025	—	QHCX3025H	—
30	QHCX1030	QHCX2030	—	QHCX3030H	—
35	QHCX1035	QHCX2035	—	QHCX3035H	—
40	QHCX1040	QHCX2040	—	QHCX3040H	—
45	QHCX1045	QHCX2045	—	QHCX3045H	—
50	QHCX1050	QHCX2050	—	QHCX3050H	—
55	QHCX1055	QHCX2055	—	QHCX3055H	—
60	QHCX1060	QHCX2060	—	QHCX3060H	—
70	QHCX1070	QHCX2070	—	QHCX3070H	—
70	—	QHCX2080	—	QHCX3080H	—
90	—	QHCX2090	—	QHCX3090H	—
100	—	QHCX2100	—	QHCX3100H	—

QUICKLAG Type: QHCW 65,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number	Four-Pole 240 Vac Catalog Number
15	QHCW1015 ^①	QHCW2015	—	QHCW3015H	—
20	QHCW1020 ^①	QHCW2020	—	QHCW3020H	—
25	QHCW1025	QHCW2025	—	—	—
30	QHCW1030	QHCW2030	—	—	—

Notes

^① Switching duty rated for 120 Vac fluorescent light applications only.

Non-automatic switches, see **Page V4-T1-42**.

QUICKLAG Type QCD Miniature Circuit Breakers

QCD breakers are used primarily in HVAC and industrial applications.

- Single-, two- and three-pole options
- Modular construction
- DIN mounted (symmetrical rail 35 x 7.5 DIN/EN 50 022)
- QCD same profile as Type QCR
- Flexible power feed connection: wire size, position
- Same breaker size for entire rating range
- Field mountable accessories: finger shroud proof, quick connect terminals
- Other accessories: jumper unit

QUICKLAG Type QCD Miniature Circuit Breaker



QUICKLAG Type QCD 10,000A Interrupting Capacity Thermal-Magnetic Breakers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
10	QCD1010	QCD2010	—	—
15	QCD1015	QCD2015	QCD2015H	QCD3015H
20	QCD1020	QCD2020	QCD2020H	QCD3020H
25	QCD1025	QCD2025	QCD2025H	QCD3025H
30	QCD1030	QCD2030	QCD2030H	QCD3030H
35	QCD1035	QCD2035	QCD2035H	QCD3035H
40	QCD1040	QCD2040	QCD2040H	QCD3040H
45	QCD1045	QCD2045	QCD2045H	QCD3045H
50	QCD1050	QCD2050	QCD2050H	QCD3050H
55	QCD1055	QCD2055	QCD2055H	QCD3055H
60	QCD1060	QCD2060	QCD2060H	QCD3060H
70	—	QCD2070	QCD2070H	QCD3070H
80	—	QCD2080	QCD2080H	QCD3080H
90	—	QCD2090	QCD2090H	QCD3090H
100	—	QCD2090	QCD2090H	QCD3100H
	—	QCD2100	QCD2100H	—

QUICKLAG Type QCD Non-Automatic Switches

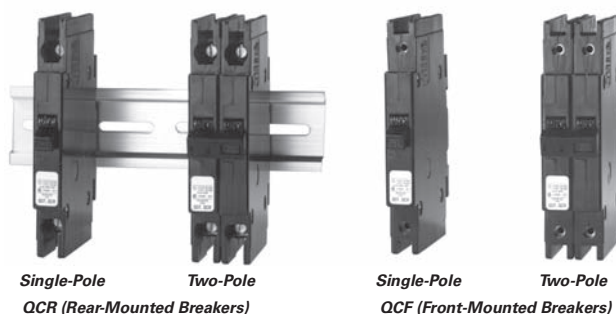
Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
60	—	—	QCD2060NA	—
100	—	—	—	—

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Number of Poles	Carton Quantity	Approximate Weight Lbs (kg)	Dimensions
1	24	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
2	12	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
3	8	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)

Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF, QCRH, QCFH**Contents**

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Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF, QCRH, QCFH**Product Description**

Eaton Type QCR circuit breakers have as a standard feature provisions for 35 mm DIN rail rear mounting with a spring-loaded release. Optional clips for individual mounting are available as a separate accessory.

Type QCF have two threaded steel inserts to facilitate front mounting with #6–32 steel screws. The clamp type terminals are accessible from the rear of the breaker so that cables can be accessed without removal of the breaker from the front cover.

Application Description

QCR and QCF circuit breakers are only 1/2-inch (12.7 mm) wide per pole and are excellent for general purpose industrial applications where space savings is required.

Features, Benefits and Functions

- 1/2-inch (12.7 mm) wide per pole
- Cable-in/cable-out
- Black cases with black handles
- Three position handle: ON, Tripped (center), OFF
- Thermal-magnetic protection

Standards and Certifications

- Built and listed to UL 489
- UL File No. E7819
- CSA File No. LR48907
- Type QCR and QCF circuit breakers are UL listed circuit breakers that are suitable for use as branch circuit protectors
- All ratings 15–60A are HACR rated



Product Selection

1

Cable-In/Cable-Out,
1/2-Inch Wide



QCR Breaker Catalog Numbers ^{①②③④}

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac ^⑤ Catalog Number	Three-Pole Catalog Number
QCR Breaker 10 kAIC Interrupting Ratings				
10	QCR1010	QCR2010	—	—
	QCR1010T	QCR2010T	—	—
	—	QCR2010P	—	—
15	QCR1015 ^⑥	QCR2015	QCR2015H	QCR3015H
	QCR1015T ^⑥	QCR2015T	QCR2015HT	QCR3015HT
	—	QCR2015P	—	—
20	QCR1020 ^⑥	QCR2020	QCR2020H	QCR3020H
	QCR1020T ^⑥	QCR2020T	QCR2020HT	QCR3020HT
	—	QCR2020P	—	—
25	QCR1025	QCR2025	QCR2025H	QCR3025H
	QCR1025T	QCR2025T	QCR2025HT	QCR3025HT
	—	QCR2025P	—	—
30	QCR1030	QCR2030	QCR2030H	QCR3030H
	QCR1030T	QCR2030T	QCR2030HT	QCR3030HT
	—	QCR2030P	—	—
35	QCR1035	QCR2035	—	—
	—	QCR2035P	—	—
40	QCR1040	QCR2040	—	—
	—	QCR2040P	—	—
45	QCR1045	QCR2045	—	—
	—	QCR2045P	—	—
50	QCR1050	QCR2050	—	—
	—	QCR2050P	—	—
55	QCR1055	QCR2055	—	—
	—	QCR2055P	—	—
60 ^⑦	QCR1060	QCR2060	—	—
	—	QCR2060P	—	—
QCR Breaker 22 kAIC Interrupting Ratings				
15	QCRH1015 ^⑥	QCRH2015	—	—
	QCRH1015T ^⑥	QCRH2015T	—	—
20	QCRH1020 ^⑥	QCRH2020	—	—
	QCRH1020T ^⑥	QCRH2020T	—	—

Notes

- ① Standard breaker terminals are box type lugs.
- ② Breakers with **T** Catalog Number Suffix are suitable for line and load side ring terminal connection (#10–32 plus/minus terminal screw provided).
- ③ Breakers with **P** Catalog Number Suffix are suitable for terminating two 10 AWG Quick-Connect Type Terminals per phase on breaker load side.
- ④ Breakers with Shunt Trip (extra pole required on breaker right-hand side) are available on single-, two- and three-pole. Contact the Customer Support Center at 1-800-356-1243.
- ⑤ Breakers with **H** Catalog Suffix have 240 Vac construction.
- ⑥ All 15 and 20A single-pole breakers are SWD (Switching Duty) rated for fluorescent lighting applications.
- ⑦ 60/75°C Cu/Al wire on all ratings except 60A, which requires Cu only conductor.

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Cable-In/Cable-Out,
1/2-Inch Wide



QCF Breaker Catalog Numbers ^{①②③}

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac ^④ Catalog Number	Three-Pole Catalog Number
QCF Breaker 10 kAIC Interrupting Ratings				
10	QCF1010	QCF2010	—	—
	QCF1010T	QCF2010T	—	—
15	QCF1015 ^⑤	QCF2015	QCF2015H	QCF3015H
	QCF1015T ^⑤	QCF2015T	QCF2015HT	QCF3015HT
20	QCF1020 ^⑤	QCF2020	QCF2020H	QCF3020H
	QCF1020T ^⑤	QCF2020T	QCF2020HT	QCF3020HT
25	QCF1025	QCF2025	QCF2025H	QCF3025H
	QCF1025T	QCF2025T	QCF2025HT	QCF3025HT
30	QCF1030	QCF2030	QCF2030H	QCF3030H
	QCF1030T	QCF2030T	QCF2030HT	QCF3030HT
35	QCF1035	QCF2035	—	—
40	QCF1040	QCF2040	—	—
45	QCF1045	QCF2045	—	—
50	QCF1050	QCF2050	—	—
55	QCF1055	QCF2055	—	—
60 ^⑥	QCF1060	QCF2060	—	—
QCF Breaker 22 kAIC Interrupting Ratings				
15	QCFH1015 ^⑤	QCFH2015	—	—
	QCFH1015T ^⑤	QCFH2015T	—	—
20	QCFH1020 ^⑤	QCFH2020	—	—
	QCFH1020T ^⑤	QCFH2020T	—	—

Notes

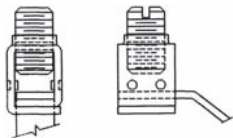
- ① Standard breaker terminals are box type lugs.
- ② Breakers with **T** Catalog Number Suffix are suitable for line and load side ring terminal connection (#10–32 plus/minus terminal screw provided).
- ③ Breakers with Shunt Trip Attachment (extra pole required on breaker right-hand side) are available. Contact the Customer Support Center.
- ④ Breakers with **H** Catalog Suffix have 240 Vac construction.
- ⑤ All 15 and 20A single-pole breakers are SWD (Switching Duty) rated for fluorescent lighting applications.
- ⑥ 60/75°C Cu/Al wire on all ratings except 60A, which requires Cu only conductor.

QCR and QCF Options and Accessories

QCR and QCF Standard Box Terminals

Factory-installed line and load side breaker terminal to accommodate 14 AWG to 4 AWG wire.

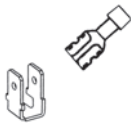
Standard Box Terminals



QCR Quick-Connect Terminals

Factory-installed two-prong quick-connect terminal on breaker load side suitable for terminating two 10 AWG wire with insulated slip-on terminals as shown. Line side terminal is the standard type.

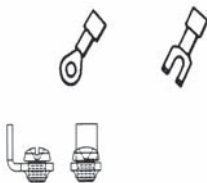
Catalog Suffix "P"



QCR and QCF Ring or Spade Lug Terminals (10 to 30A Ratings Only)

Factory-installed line and load side terminals each equipped with a #10–32 screw suitable for terminating one 10 AWG wire with insulated ring or spade type terminal as shown.

Catalog Suffix "T"



Available QCR and QCF Breaker Accessories

Description	Catalog Number
Steel mounting clip mounts QCR breaker if individual mounting is required. Quantity two required for single- and two-pole and four required for three-pole breakers.	QCRMTGFT
Removable padlock device for single-pole QCR or QCF breaker.	QCRFPL1P
Removable padlock device for multi-pole QCR or QCF breaker.	QCRFPLMP
Padlock bracket assembly for QCR or QCF single- or multi-pole breakers (OFF only).	QCRFLOFF
Padlock bracket for QCR, lock-off only.	QCRPLOFF

Technical Data and Specifications

- Single-, two- and three-pole
- 10 kAIC at 120/240 Vac, 10–60A
- 22 kAIC at 120/240 Vac, 15–20A
- 10 kAIC at 240 Vac, 10–30A
- 3 kAIC at 62.5 Vdc (single-pole)
- 3 kAIC at 130 Vdc (two poles in series)
- Normal operating environment:
 - 0–40°C
 - 5–95% humidity (noncondensing)

**QUICKLAG Type QCGFT Single-Pole
Ground Fault Circuit Breaker**



Cable-In/Cable-Out Ground Fault and Equipment Protectors, Types QCGFT, QCHGFT, QCGFEP, QCHGFEP

Product Description

QUICKLAG Ground Fault Circuit Breakers, Class A GFCI

- 5 mA trip sensitivity

QUICKLAG Ground Fault Equipment Protectors

- 30 mA trip sensitivity

Standards and Certifications

QUICKLAG Ground Fault Circuit Breakers, Class A GFCI

- Built and tested to UL 943

QUICKLAG Ground Fault Equipment Protectors

- Built and tested to UL 1053



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Bolt-On Types BAB, QBHW, HBAX, HBAW	V4-T1-11
Bolt-On Arc Fault Circuit Interrupter Types QBAF, QBCAF	V4-T1-14
Bolt-On Ground Fault and Equipment Protectors, Types QBGFT, QBHGFT, QBGFEP, QBHGFEP	V4-T1-17
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International Rated Types HQP, BA, QC, GFMB, GFXBC	V4-T1-37
Special Application Breakers, Types HQP, BA, QC	V4-T1-40

Product Selection

QUICKLAG Type QCGFT
Single-Pole Ground
Fault Circuit Breaker



Breaker Catalog Numbers

Continuous Ampere Rating at 40°C	Single-Pole 120 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number
Ground Fault Circuit Breakers—5 mA Sensitivity		
QUICKLAG Type: QCGFT 10,000A Interrupting Capacity Thermal-Magnetic Breakers		
15	QCGFT1015	QCGFT2015
20	QCGFT1020	QCGFT2020
25	QCGFT1025	QCGFT2025
30	QCGFT1030	QCGFT2030
40	QCGFT1040	QCGFT2040
50	—	QCGFT2050
QUICKLAG Type: QCHGFT 22,000A Interrupting Capacity Thermal-Magnetic Breakers		
15	QCHGFT1015	QCHGFT2015
20	QCHGFT1020	QCHGFT2020
25	QCHGFT1025	QCHGFT2025
30	QCHGFT1030	QCHGFT2030
Ground Fault Equipment Protectors—30 mA Sensitivity		
QUICKLAG Type: QCGFEP 10,000A Interrupting Capacity Thermal-Magnetic Breakers		
15	QCGFEP1015	QCGFEP2015
20	QCGFEP1020	QCGFEP2020
25	QCGFEP1025	QCGFEP2025
30	QCGFEP1030	QCGFEP2030
40	QCGFEP1040	QCGFEP2040
50	—	QCGFEP2050
QUICKLAG Type: QCHGFEP 22,000A Interrupting Capacity Thermal-Magnetic Breakers		
15	QCHGFEP1015	QCHGFEP2015
20	QCHGFEP1020	QCHGFEP2020
25	QCHGFEP1025	QCHGFEP2025
30	QCHGFEP1030	QCHGFEP2030
Special Application Ground Fault Circuit Protector—5 mA Sensitivity		
QUICKLAG Type: QCGFT 10,000A Interrupting Capacity with Bell Alarm (W1) or Auxiliary Switch (W2)		
15	QCGFT1015W1	QCGFT2015W1
20	QCGFT1020W1	QCGFT2020W1
25	QCGFT1025W1	QCGFT2025W1
30	QCGFT1030W1	QCGFT2030W1
40	—	QCGFT2040W1
50	—	QCGFT2050W1
15	QCGFT1015W2	—
20	QCGFT1020W2	—
25	QCGFT1025W2	—
30	QCGFT1030W2	—
Special Application Ground Fault Equipment Protectors—30 mA Sensitivity		
QUICKLAG Type: QCGFEP 10,000A Interrupting Capacity with Bell Alarm (W1) or Auxiliary Switch (W2)		
15	QCGFEP1015W1	QCGFEP2015W1
20	QCGFEP1020W1	QCGFEP2020W1
25	QCGFEP1025W1	QCGFEP2025W1
30	QCGFEP1030W1	QCGFEP2030W1
40	—	QCGFEP2040W1
50	—	QCGFEP2050W1
15	QCGFEP1015W2	—
20	QCGFEP1020W2	—
25	QCGFEP1025W2	—
30	QCGFEP1030W2	—

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Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Wiring Diagram

Bell Alarm and Auxiliary Contact Schematic



Single-throw double-pole contacts are UL and CSA listed for 5A at 250 Vac.

Bell Alarm (W1)—contacts change state when breaker trips.

Auxiliary Switch (W2)—contacts change state when breaker is opened (or tripped) or closed.

14-inch (355.6 mm) long 18 AWG pigtail wire leads provided.

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Number of Poles	Carton Quantity	Approximate Weight Lbs (kg)	Dimensions
1	20	11.00 (5.0)	12.50 x 6.50 x 5.00 (317.5 x 165.1 x 127.0)
2	5	5.00 (2.3)	15.50 x 6.00 x 4.50 (393.7 x 152.4 x 114.3)

**BABRP and BABRSP Breakers—
Single- and Two-Pole**



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Solenoid-Operated, Remote-Controlled Latching Types BABRP, BABRSP, BRRP and CLRP

Product Description

The BABRP and BABRSP are bolt-on branch circuit breakers designed for use in panelboards. The BRRP is a plug-on branch circuit breaker designed for use in load-centers not manufactured with breakers with a 1-inch wide format and are listed on the "Compatibility list for Classified Applications"—Pub. 26271. In addition to providing conventional branch circuit protection, they include a unique solenoid-operated mechanism that provides for efficient breaker pulse-on and pulse-off operation when used with a suitable controller like Eaton's Pow-R-Command™ lighting control system. These breakers can also be controlled by pushbutton or a PLC unit.

Application Description

Eaton's BABRP, BABRSP, BRRP and CLRP breakers are remotely operated molded case circuit breakers ideally suited for lighting control applications or energy management applications.

Features, Benefits and Functions

- Bolt-on line-side terminal (BABRP, BABRSP—Type BA)
- Plug-on line-side terminal (BRRP—Type BR, CLRP—Type CL)
- Cable connected load-side terminal
- Four-position control terminal
- Bi-metal assembly for thermal overload protection
- Fast-acting short-circuit protection
- Arc-chute assembly for fast-acting arc extinction
- Three-position handle: OFF, TRIP (Center), ON
- Handle permits manual switching when control power is lost
- Mechanical trip indicator
- 15 and 20A breakers SWD (switching duty) rated
- HID ratings for HID (high intensity discharge) lighting
- All models HACR rated
- Status feedback of control circuit (BABRSP)
- Series rated (BABRP, BABRSP only)
 - BRRP series rated same as BR breakers
 - BABRP, BABRSP same as BA breakers

Product Selection

**QUICKLAG Type QCGFT
Single-Pole Ground
Fault Circuit Breaker****BABRP UL 489 and CSA 22.2 Interrupting Ratings**

Number of Poles	Ampere Rating ^①	Interrupting Capacity (Symmetrical Amperes)			Catalog Number
		Vac (50/60 Hz) 120	120/240	277/480	
1	15	10,000	—	—	BABRP1015
	20	10,000	—	—	BABRP1020
	25	10,000	—	—	BABRP1025
	30	10,000	—	—	BABRP1030
2	15	—	10,000	—	BABRP2015
	20	—	10,000	—	BABRP2020
	25	—	10,000	—	BABRP2025
	30	—	10,000	—	BABRP2030

BRRP UL 489 and CSA 22.2 Interrupting Ratings

Number of Poles	Ampere Rating	Interrupting Capacity (Symmetrical Amperes)			Catalog Number
		Vac (50/60 Hz) 120	120/240		
1	15	10,000	—		BRRP115
	20	10,000	—		BRRP120
	25	10,000	—		BRRP125
	30	10,000	—		BRRP130
2	15	—	10,000		BRRP215
	20	—	10,000		BRRP220
	25	—	10,000		BRRP225
	30	—	10,000		BRRP230

BABRP and BABRSP Wire Harness

Description	Catalog Number
This 60-inch (1524.0 mm) wire pigtail provides a connection from a single BABRP's control plug to a customer's pushbutton, relay or PLC. Each box contains 12 pigtails. Wires are 22 AWG, 600V. Order in multiples of 12.	SLBKRPTL1

BABRSP UL 489 and CSA 22.2 Interrupting Ratings

Number of Poles	Ampere Rating ^①	Interrupting Capacity (Symmetrical Amperes)			Catalog Number
		Vac (50/60 Hz) 120	120/240	277/480	
1	15	10,000	—	—	BABRSP1015
	20	10,000	—	—	BABRSP1020
	25	10,000	—	—	BABRSP1025
	30	10,000	—	—	BABRSP1030
2	15	—	10,000	—	BABRSP2015
	20	—	10,000	—	BABRSP2020
	25	—	10,000	—	BABRSP2025
	30	—	10,000	—	BABRSP2030

CLRP UL 489 and CSA 22.2 Interrupting Ratings

Number of Poles	Ampere Rating	Interrupting Capacity (Symmetrical Amperes)			Catalog Number
		Vac (50/60 Hz) 120	120/240		
1	15	10,000	—		CLRP115
	20	10,000	—		CLRP120
	25	10,000	—		CLRP125
	30	10,000	—		CLRP130
2	15	—	10,000		CLRP215
	20	—	10,000		CLRP220
	25	—	10,000		CLRP225
	30	—	10,000		CLRP230

Note

^① Continuous current rating at 40°C.

Technical Data and Specifications

Solenoid Operating Data

- Power requirements: 24 Vac/dc (20.4V minimum–30V maximum)
 - Controlled signal:
 - +AC/DC 8 ms minimum with zero cross, 300 ms maximum
 - AC: 1.3 cycles minimum, 18 cycles or 300 ms maximum
 - DC: 8 ms minimum, 300 ms maximum
 - Maximum duty cycle of 6 OPEN/CLOSE cycles per minute
- Current draw: open 1A, close 3/4A
- Blue wire: power input (see power requirements)
- Black wire: remote opening
- Red wire: remote closing
- Yellow wire: feedback status from power input, maximum 0.50A draw (BABRSP only)

Operation

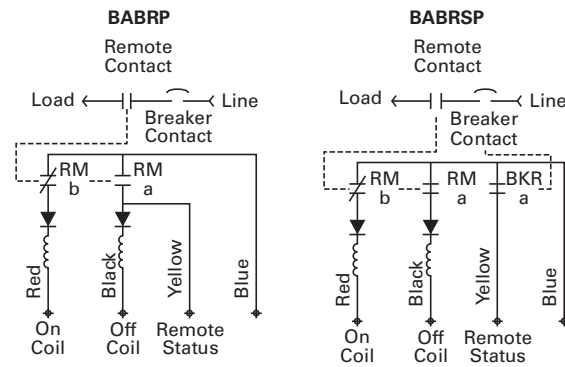
- Tripping system—the BABRP, BABRSP, BRRP and CLRP circuit breakers have a permanent trip unit that contains a factory preset thermal (overload) trip element in each pole
- Operating mechanism—the BABRP, BABRSP, BRRP and CLRP circuit breakers have an over-center toggle mechanism that provides quick-make, quick-break operation. The operating mechanism is trip free. An internal cross-bar provides a common tripping of all multi-pole circuit breakers

Operating/Application Data

- Ambient temperature: 0 to 40°C
- Nominal pulse magnitude: 24 Vac/dc
- Frequency: 50/60 Hz
- Maximum breaker cycling: 6 operations per minute
- Tolerance: +10% to –15% of nominal voltage
- Humidity: 0 to 95% noncondensing

Wiring Diagrams

Control Circuit for the BABRP and BABRSP



GHBS and GHQRSP



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Solenoid Operator—Remote-Controlled Latching for Type GHBS, GBHS and GHQRSP Breakers

Product Description

Eaton's GHBS, GBHS and GHQRSP circuit breakers are bolt-on branch circuit breakers designed for use in 277/480 Vac panelboards. In addition to providing conventional branch circuit protection, they include a unique solenoid-operated mechanism that provides for efficient breaker pulse-on and pulse-off operation when used with a suitable controller like Eaton's Pow-R-Command lighting control system.

Features, Benefits and Functions

- Bolt-on line-side terminal
- Cable-connected load-side terminal
- Status switch—remote status and breaker status available from internal auxiliary switches
- Bi-metal assembly for thermal overload protection
- Fast-acting short-circuit protection
- Arc-runner and arc-chute assembly for fast-acting arc extinction
- Three-position breaker handle: OFF, TRIP (Center), ON
- Visual indication of the remotely operated contact's position (open, closed or trip)
- Remote override handle permits manual switching when control power is lost
- 15 and 20A breakers SWD (switching duty) rated.
- 15 and 20A breakers HID rated for HID (High intensity discharge) lighting
- All models HACR rated
- Series rated with various Eaton main circuit breakers

Product Selection

1

GHBS—Single-Pole



GHBS UL 489 Interrupting Ratings

Number of Poles	Ampere Rating ^①	Interrupting Capacity (Symmetrical Amperes)			Catalog Number
		Vac (50/60 Hz) 120	240	277/480	
1	15	65,000	—	14,000	GHBS1015D
	20	65,000	—	14,000	GHBS1020D
	30	65,000	—	14,000	GHBS1030D
2	15	—	65,000	14,000	GHBS2015D
	20	—	65,000	14,000	GHBS2020D
	30	—	65,000	14,000	GHBS2030D

GBHS CSA 22.2 Interrupting Ratings (Not UL Listed)

Number of Poles	Ampere Rating ^①	Interrupting Capacity (Symmetrical Amperes)		Catalog Number
		Vac (50/60 Hz) 347/600		
1	15	10,000		GBHS1015D
	20	10,000		GBHS1020D
2	15	10,000		GBHS2015D
	20	10,000		GBHS2020D

GHQRSP UL 489 and CSA 22.2 Interrupting Ratings

Number of Poles	Ampere Rating ^①	Interrupting Capacity (Symmetrical Amperes)				Catalog Number ^②
		Vac (50/60 Hz) 120	120/240	277	480Y/277	
1	15	65,000	65,000	14,000	14,000	GHQRSP1015
	20	65,000	65,000	14,000	14,000	GHQRSP1020
	30	65,000	65,000	14,000	14,000	GHQRSP1030
2	15	65,000	65,000	14,000	14,000	GHQRSP2015
	20	65,000	65,000	14,000	14,000	GHQRSP2020
	30	65,000	65,000	14,000	14,000	GHQRSP2030

Notes

^① Continuous current rating at 40°C.

^② All UL listed circuit breakers are HID (high intensity discharge) rated.

Technical Data and Specifications

Solenoid Operating Data

- Power requirements: 24 Vac/dc (20.4V minimum–30V maximum)
 - Controlled signal: +AC/DC 8 ms minimum with zero cross, 300 ms maximum
- AC: 1.3 cycles minimum, 18 cycles or 300 ms maximum
- DC: 8 ms minimum, 300 ms maximum
- Maximum duty cycle of 6 OPEN/CLOSE cycles per minute
- Current draw: open 1A, close 3/4A
- Blue wire: power input (see power requirements)
- Black wire: remote opening

- Red wire: remote closing
- Yellow wire: feedback status from power input, maximum 0.50A draw

Operation

Mechanism manually operated by external handle allowing ON, OFF and RESET operation. Handle assumes a center TRIP position after performing protective response.

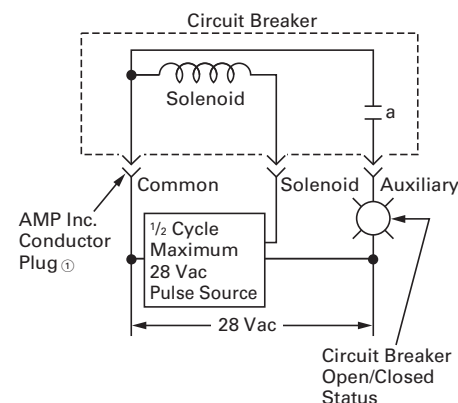
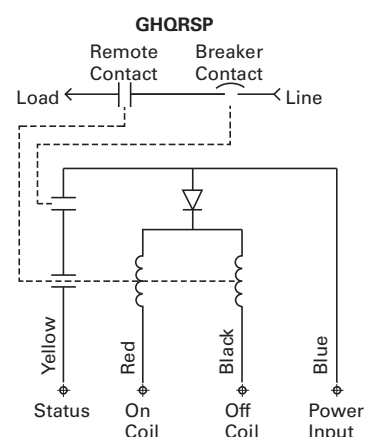
Operating/Application Data

- Ambient temperature: 0–40°C
- Frequency: 48–62 Hz
- Humidity: 0–95% noncondensing

Terminal Type

Circuit Breaker Type	Circuit Breaker Amperes	Screw Head Type	Terminal Type	Range
GHQRSP	15–20	Slotted	Clamp	#14–#4 AWG

Wiring Diagrams

Typical Single-Pole Circuit Breaker Schematic Diagram for GHBS and GBHS Breakers**Typical Single-Pole Circuit Breaker Schematic Diagram for GHQRSP Breakers****Dimensions**

Approximate Dimensions in Inches (mm)

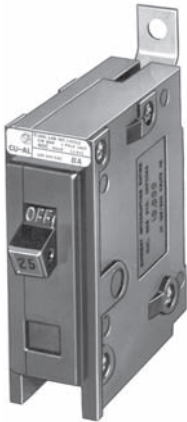
Dimensions per Pole

Circuit Breaker Type	Width	Height ②	Length ③
GHQRSP	1.00 (25.4)	4.63 (117.6)	2.81 (71.4)

Notes

- ① Purchase separate AMP Inc. conductor plug #640426-3.
- ② Excluding line terminal.
- ③ Excluding handle.

International Rated



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International Rated Types HQP, BA, QC, GFMB, GFXBC

Product Description

QUICKLAG International Circuit Breakers

- Bolt-on Type BA

QUICKLAG International Ground Fault Circuit Breakers

- Plug-on Type GFMB
- Cable-in/cable-out Type GFXBC

Standards and Certifications

QUICKLAG International Circuit Breakers

- Built and test certified to BS3871, Pt. 1
- 50/60 Hz, 40°C

QUICKLAG International Ground Fault Circuit Breakers

- Built and test certified to BS3871, Pt. 1; BS3871, Section 31-C; BS4293
- 50/60 Hz, 40°C; 30 mA sensitivity

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Product Selection

BAB



Breaker Catalog Numbers

Continuous Ampere Rating at 40°C	Single-Pole 240/415 Vac Catalog Number	Two-Pole 240/415 Vac Catalog Number	Three-Pole 240/415 Vac Catalog Number
3000A Interrupting Capacity (M3) Bolt-On Thermal-Magnetic Circuit Breakers			
10	BAB1010E	BAB2010E	BAB3010E
15	BAB1015E	BAB2015E	BAB3015E
16	—	—	—
20	BAB1020E	BAB2020E	BAB3020E
25	BAB1025E	BAB2025E	BAB3025E
30	BAB1030E	BAB2030E	BAB3030E
32	—	—	—
40	BAB1040E	BAB2040E	BAB3040E
50	BAB1050E	BAB2050E	BAB3050E
60	BAB1060E	BAB2060E	BAB3060E
70	BAB1070E	BAB2070E	BAB3070E
90	—	BAB2090E	BAB3090E
100	—	BAB2100E	BAB3100E
6000A Interrupting Capacity (M6) Bolt-On Thermal-Magnetic Circuit Breakers			
15	BAB1015HE	BAB2015HE	BAB3015HE
20	BAB1020HE	BAB2020HE	BAB3020HE
25	BAB1025HE	BAB2025HE	BAB3025HE
30	BAB1030HE	BAB2030HE	BAB3030HE
40	BAB1040HE	BAB2040HE	BAB3040HE
50	BAB1050HE	BAB2050HE	BAB3050HE
60	BAB1060HE	BAB2060HE	BAB3060HE
70	BAB1070HE	BAB2070HE	BAB3070HE
90	—	BAB2090HE	BAB3090HE
100	—	BAB2100HE	BAB3100HE

Breaker Catalog Numbers—Ground Fault Single-Pole 30 mA Sensitivity

Continuous Ampere Rating at 40°C	240/415 Vac Catalog Number
3000A Interrupting Capacity (M3) Plug-On Thermal-Magnetic Circuit Breakers	
10	GFMB110B2
15	GFMB115B2
16	GFMB116B2
20	GFMB120B2
25	GFMB125B2
30	GFMB130B2
32	GFMB132B2
40	GFMB140B2

Note

For other 240/415V applications, please contact the Customer Support Center at 1-800-356-1243.

Technical Data and Specifications

1

Interrupting Ratings

Ratings	Suffix E	Suffix HE
International Circuit Breakers		
NEMA® 120/240 Vac	10,000 AIC	10,000 AIC
BS3871 220/380, 240/415 Vac	3000 AIC	6000 AIC
International Ground Fault Circuit Breakers		
BS3871 220/380, 240/415 Vac	3000 AIC	

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Miniature Circuit Breaker	Number of Poles	Standard Carton Quantity	Approximate Carton Weight Lbs (kg)	Approximate Standard Carton
QUICKLAG Type B	1	24	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
	2	12	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
	3	8	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
QUICKLAG Ground Fault				
Type P—All	1	20	11.00 (5.0)	12.50 x 6.50 x 5.00 (317.5 x 165.1 x 127.0)
Types B and C—All	1	20	11.00 (5.0)	12.50 x 7.00 x 5.50 (317.5 x 177.8 x 139.7)
Types P and B—All	2	5	5.00 (2.3)	12.50 x 6.00 x 4.50 (317.5 x 152.4 x 114.3)

QUICKLAG Type P Switching Neutral



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Cable-In/Cable-Out Types QC, QCD, QCHW, QHCX, QHCW	V4-T1-20
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Special Application Breakers, Types HQP, BA, QC

Product Description

Breakers

- Plug-on Type HQP: 10–30A, single- and two-pole, 10 kAIC
- Bolt-on Type BA: 10–30A, single- and two-pole, 10 kAIC
- Cable-in Type QC: 10–30A, single- and two-pole, 10 kAIC

Switching neutral QUICKLAG breakers available in single- and two-pole configurations, plus neutral pole for applications in accordance with NEC® 514.5, 240.22 and 380.2. A single-pole device takes two pole spaces, and a two-pole device takes three pole spaces.

QUICKLAG HID (High Intensity Discharge) Breakers

- Plug-on Type HQP: 15–60A, single- and two-pole, 10 kAIC
- Bolt-on Type BA: 15–60A, single- and two-pole, 10 kAIC
- Cable-in Type QC: 15–60A, single- and two-pole, 10 kAIC

Breakers designed specifically for use with high intensity discharge (HID) lighting applications. (UL listed as standard lighting breakers.)

Molded Case Switches—Non-automatic QUICKLAG Molded Case Switch

- Plug-on Type HQP: 50, 60, 100A, single-, two- and three-pole
- Bolt-on Type BA: 50, 60, 100A, single-, two- and three-pole
- Cable-in Type QC: 50, 60, 100A, single-, two- and three-pole

Standards and Certifications

- All products UL and CSA listed



Product Selection

QUICKLAG Type P
Switching Neutral



Breaker Catalog Numbers

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
QUICKLAG Type: HQP Switching Neutral Thermal-Magnetic Breakers				
10	HQP2010B	HQP3010B	—	—
15	HQP2015B	HQP3015B	—	—
20	HQP2020B	HQP3020B	—	—
25	HQP2025B	HQP3025B	—	—
30	HQP2030B	HQP3030B	—	—
QUICKLAG Type: BA Switching Neutral Thermal-Magnetic Breakers				
10	BAB2010C	BAB3010C	—	—
15	BAB2015C	BAB3015C	—	—
20	BAB2020C	BAB3020C	—	—
25	BAB2025C	BAB3025C	—	—
30	BAB2030C	BAB3030C	—	—
QUICKLAG Type: QC Switching Neutral Thermal-Magnetic Breakers				
10	QC2010B	QC3010B	—	—
15	QC2015B	QC3015B	—	—
20	QC2020B	QC3020B	—	—
25	QC2025B	QC3025B	—	—
30	QC2030B	QC3030B	—	—
QUICKLAG Type: HQP HID (High Intensity Discharge) Thermal-Magnetic Breakers				
15	HQP1015D	HQP2015D	—	—
20	HQP1020D	HQP2020D	—	—
25	HQP1025D	HQP2025D	—	—
30	HQP1030D	HQP2030D	—	—
35	HQP1035D	HQP2035D	—	—
40	HQP1040D	HQP2040D	—	—
50	HQP1050D	HQP2050D	—	—
60	HQP1060D	HQP2060D	—	—
QUICKLAG Type: BA HID (High Intensity Discharge) Thermal-Magnetic Breakers				
15	BAB1015D	BAB2015D	—	—
20	BAB1020D	BAB2020D	—	—
25	BAB1025D	BAB2025D	—	—
30	BAB1030D	BAB2030D	—	—
35	BAB1035D	BAB2035D	—	—
40	BAB1040D	BAB2040D	—	—
50	BAB1050D	BAB2050D	—	—
60	BAB1060D	BAB2060D	—	—
QUICKLAG Type: QC HID (High Intensity Discharge) Thermal-Magnetic Breakers				
15	QC1015D	QC2015D	—	—
20	QC1020D	QC2020D	—	—
25	QC1025D	QC2025D	—	—
30	QC1030D	QC2030D	—	—
35	QC1035D	QC2035D	—	—
40	QC1040D	QC2040D	—	—
50	QC1050D	QC2050D	—	—
60	QC1060D	QC2060D	—	—

Breaker Catalog Numbers, continued

Continuous Ampere Rating at 40°C	Single-Pole 120/240 Vac Catalog Number	Two-Pole 120/240 Vac Catalog Number	Two-Pole 240 Vac Catalog Number	Three-Pole 240 Vac Catalog Number
QUICKLAG Type: HQP Non-Automatic Switches				
50	HQP1050N	—	HQP2050N	HQP3050N
60	HQP1060N	—	HQP2060N	HQP3060N
100	HQP1100N	—	HQP2100N	HQP3100N
QUICKLAG Type: BA Non-Automatic Switches				
50	BAB1050N	—	BAB2050N	BAB3050N
60	BAB1060N	—	BAB2060N	BAB3060N
100	BAB1100N	—	BAB2100N	BAB3100N
QUICKLAG Type: QC Non-Automatic Switches				
50	QC1050N	—	QC2050N	QC3050N
60	QC1060N	—	QC2060N	QC3060N
100	QC1100N	—	QC2100N	QC3100N
QUICKLAG Type: QCD Non-Automatic Switches				
60	—	—	QCD2060NA	—
100	—	—	—	—

Accessories ①

1

Handle Locks: Non-Padlockable ②

	Description	Order in Multiples of	Catalog Number
QL1NPL	QUICKLAG Type P, B, C—single-pole	10	QL1NPL
			
QL23NPL	QUICKLAG Type P, B, C—two- and three-pole	10	QL23NPL
			

Handle Locks: Padlockable ②

	Description	Order in Multiples of	Catalog Number
QL1PL	QUICKLAG Type P, B, C—single-pole	10	QL1PL
			
QL123PL	QUICKLAG Type P, B and ground fault—single-, two- and three-pole	10	QL123PL
			
QC123PL	QUICKLAG Type C—single-, two- and three-pole	10	QC123PL
			
	QUICKLAG Type P, B—single-, two- and three-pole (off only)	10	QL123PLOFF
	QUICKLAG Type C—single-, two- and three-pole (off only)	10	QC123PLOFF

Notes

- ① See **Page V4-T1-27** for QCR and QCF accessories.
- ② Can lock in ON or OFF position.

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Mounting Hardware

	Description	Order in Multiples of	Catalog Number
QCFCLIP	QUICKLAG Type C face mounting clip	24	QCFCLIP
			
QC1FP	QUICKLAG Type C face mounting plate—single-pole	10	QC1FP
			
QC2FP	QUICKLAG Type C face mounting plate—two-pole	10	QC2FP
			
QC3FP	QUICKLAG Type C face mounting plate—three-pole	10	QC3FP
			
	QUICKLAG Type C face mounting plate and lock-off (off only)—two-pole ^①	10	QC2FPLOFF
	QUICKLAG Type C face mounting plate and lock-off (off only)—three-pole	10	QC3FPLOFF
QCBCLIP	QUICKLAG Type C base mounting clamp	10	QCBCLIP
			
QC6BP	QUICKLAG Type mounting plate—six poles total	10	QC6BP
			

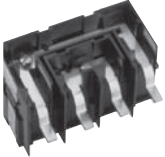
Note

^① Suitable for ground fault breakers.

Mounting Hardware, continued

Description	Order in Multiples of	Catalog Number
QUICKLAG Type C base mounting plate—six poles total—heavy-duty screw-secured	10	QC6BPS
QUICKLAG Type C (QCD) 2-way jumper unit with cover	10	QCDJ2
QUICKLAG Type C (QCD) 4-way jumper unit with cover	10	QCDJ4
QUICKLAG Type C (QCD) 6-way jumper unit with cover	10	QCDJ6
QUICKLAG Type C (QCD) 2-way jumper unit, no cover	10	QCDJ2T
QUICKLAG Type C (QCD) 4-way jumper unit, no cover	10	QCDJ4T
QUICKLAG Type C (QCD) 6-way jumper unit, no cover	10	QCDJ6T
QUICKLAG Type QCD Finger protection attachment	10	QCDFP
QUICKLAG Type QCD 4-prong Quick Connect	10	QCDQUICK
QUICKLAG Type C DIN rail adapter	6	QCDINADAPT

QCDJ4



QCDINADAPT



QCDRING



Dummy Breakers

Description	Order in Multiples of	Catalog Number
QUICKLAG Type P	1	HQP1000
QUICKLAG Type B	1	BAB1000
QUICKLAG Type C	1	QC1000
QUICKLAG Type C clear choice breaker	4	QC30SAMPLE

Miscellaneous

Description	Order in Multiples of	Catalog Number
QUICKLAG Type C Spacer	1	QCRSPACER

QCRSPACER



Handle Tie

Description	Order in Multiples of	Catalog Number
QUICKLAG handle tie—single-pole	100	QL1HT

QL1HT



Factory Modifications and Installed Terminals

Factory Modifications ^①

Type of Modification	Breaker Type	Catalog Suffix
Shunt trip (requires one extra pole space on right side) 120, 208, 240 Vac Draws 2.6A at 120V, draws 11A at 24 Vdc	QUICKLAG Types P, B and C	S
Shunt trip (requires one extra pole space on right side) 24, 48 Vac/dc Draws 2.6A at 120V, draws 11A at 24 Vdc	QUICKLAG Types P, B and C	S1
Special calibration (50°C) (no UL)	QUICKLAG Types P, B and C	V
Shock testing	QUICKLAG Types P, B and C	L
Freeze testing	QUICKLAG Types P, B and C	Y
Moisture-fungus treatment	QUICKLAG Types P, B, C and ground fault	F
Marine duty	QUICKLAG Types P, B, C	H08
Naval duty	QUICKLAG Types P, B, C	H09
400 Hz calibration	QUICKLAG Types P, B, C	G
Specific DC ratings (breaker marked with a max. Vdc rating)	QUICKLAG Types P, B, C	Q thru Q9 ^②

Spare Terminal Hardware Screws (Lugs not Included)

Terminal Type	Description	Order in Multiples of	Catalog Number
1	QUICKLAG terminal screw	10	QLLDTSA
2	QUICKLAG terminal screw	10	QLLDTSB
3	QUICKLAG terminal screw	10	QLLDTSC
5	QUICKLAG binding head terminal screw and clamp	10	QLBHTSE
6 and 7	QUICKLAG terminal screw	10	QLLNTSFG

Notes

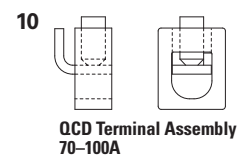
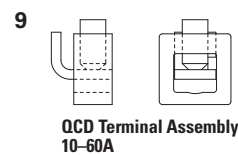
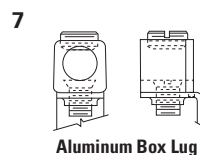
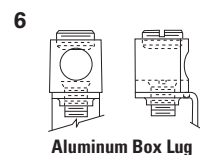
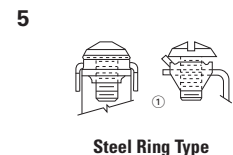
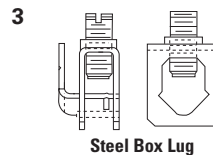
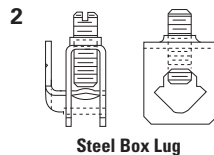
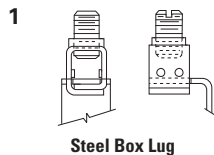
^① Contact Eaton for factory modifications available for QCR and QCF breakers.

^② Q = 32 Vdc; Q1 = 32–40 Vdc; Q2 = 37.5 Vdc; Q3 = 45 Vdc; Q4 = 48 Vdc; Q5 = 50 Vdc; Q6 = 62.5 Vdc; Q7 = 75 Vdc (2P); Q8 = 80 Vdc (2P); Q9 = 125 Vdc (QCR 2P); Q10 = 62.5 Vdc (QCR 1P).

Technical Data and Specifications

Factory-Installed Breaker Terminals

Breaker Type	Continuous Ampere Rating	Standard Line Terminal			Standard Load Terminal			Optional Terminals	
		Terminal Type	Wire Type	Wire Range (AWG)	Terminal Type	Wire Type	Wire Range (AWG)	Line	Load
QUICKLAG Type P HQP, QPHW, QHPX, QHPW	10–30	Plug-on female clips that mate with the bus stabs			1	Cu/Al	14–4	N/A	3
	35–50				2	Cu/Al	14–4	N/A	3
	55–125				3	Cu/Al	8–1/0	N/A	—
QUICKLAG ground fault QPGFT, QBGFEP, QPHGFT, QPHGFEP	10–40	Plug-on female clips that mate with the bus stabs			1 (single-pole)	Cu/Al	14–4	N/A	3
	10–40				1	Cu/Al	—	N/A	3
	10–30				1	Cu	14–8	N/A	—
QUICKLAG Type B BAB, QBHW, HBAX, HBAW	10–40	Extended tangs that bolt directly to the bus			1 (single- and two-pole)	Cu/Al	14–4	N/A	3
	35–50				2 (three-pole)	Cu/Al	14–4	N/A	3
	55–125				3	Cu/Al	8–1/0	N/A	—
QUICKLAG ground fault QBGF, QBGFEP, QBHGFT, QBHGFT	10–40	Extended tangs that bolt directly to the bus			1 (single-pole)	Cu/Al	14–4	N/A	N/A
	10–40				1	Cu/Al	14–8	N/A	N/A
	10–30				1	Cu	14–8	N/A	N/A
QUICKLAG Type C QC, QCHW, QHCX, QHCW	10–20	5	Cu/Al	TBD	5	Cu/Al	14–10	6, 7	6, 7, 8
	25–60	6	Cu/Al	TBD	2	Cu/Al	14–4	5, 7	5, 6, 7, 8
	70–100	7	Cu/Al	TBD	3	Cu/Al	8–1/0	5	5, 7, 8
QUICKLAG QCR, QCF	10–55	1	Cu/Al	TBD	1	Cu/Al	14–4	N/A	N/A
	60	1	Cu	TBD	1	Cu	14–4	N/A	N/A
QUICKLAG ground fault QCGFT, QCGFEP, QCHGFT, QCHGFEP	10–20	6	Cu/Al	TBD	14–8	Cu/Al	14–4	6, 7	5
	25–50	6	Cu/Al	TBD	1	Cu/Al	14–4	5, 7	5
	10–30	6	—	—	—	—	—	—	—
QUICKLAG QCD	10–60	9	Cu/Al	14–4	9	Cu/Al	14–4	See Accessories	
	70–100	10	Cu	4–1/0	10	Cu	4–1/0	See Accessories	



Note

① Clamp on line side only.

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

Dimensions

Approximate Dimensions in Inches (mm)

Shipping Data

Miniature Circuit Breaker	Number of Poles	Standard Carton Quantity	Approximate Carton Weight Lbs (kg)	Approximate Standard Carton
QUICKLAG Types B, P, C—all	1	24	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
QUICKLAG Types B, P, C—all	2	12	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
QUICKLAG Types B, P, C—all	3	8	9.00 (4.1)	12.50 x 7.50 x 5.00 (317.5 x 190.5 x 127.0)
QUICKLAG ground fault Type P—all	1	20	11.00 (5.0)	12.50 x 6.50 x 5.00 (317.5 x 165.1 x 127.0)
Types B and C—all	1	20	11.00 (5.0)	12.50 x 7.00 x 5.50 (317.5 x 177.8 x 139.7)
Types P and B—all	2	5	5.00 (2.3)	12.50 x 6.00 x 4.50 (317.5 x 152.4 x 114.3)