

1.1

Miniature Circuit Breakers and Supplementary Protectors

Industrial Circuit Breakers

1

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	Vac		Federal Spec. W-C-375b	Interrupting Ratings rms Symmetrical Amperes						Page Number
				Vac	Vdc		Vac Ratings			Vdc Ratings ②③			
							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	④	—	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	④	—	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	④	—	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	④	—	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 Breakers at DC ratings are not UL listed.

④ 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-T1-30 to V4-T1-35**.

QUICKLAG Type HQP Single-Pole



Contents

<i>Description</i>	<i>Page</i>
Quick Reference	V4-T1-2
QUICKLAG Plug-On Types HQP, QPHW, QHPX, QHPW	
Product Selection.	V4-T1-6
Dimensions	V4-T1-7
QUICKLAG Plug-On Ground Fault and Equipment Protectors,	
Types QPGFT, QPHGFT, QPGFEP, QPHGFEP	V4-T1-8
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 QBGF, QBHGFT, QBGFEP, QBHGFEP	V4-T1-16
Cable-In/Cable-Out Types QC, QCD, QCHW,	
QHCX, QHCW	V4-T1-19
Cable-In/Cable-Out, 1/2-Inch Wide, Types QCR, QCF,	
QCRH, QCFH	V4-T1-23
Cable-In/Cable-Out Ground Fault and Equipment Protectors,	
Types QCGFT, QCHGFT, QCGFEP, QCHGFEP	V4-T1-27
Solenoid-Operated, Remote-Controlled Latching	
Types BABRP, BABRSP, BRRP and CLRP	V4-T1-30
Solenoid Operator—Remote Controlled Latching for	
Type GHBS, GBHS and GHQRSP Breakers	V4-T1-33
International Rated Types HQP, BA, QC, GFMB, GFXBC	V4-T1-36
Special Application Breakers, Types HQP, BA, QC	V4-T1-39

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	Two-Pole	Two-Pole	Three-Pole
	120/240 Vac Catalog Number	120/240 Vac Catalog Number	240 Vac Catalog Number	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	Two-Pole	Two-Pole	Three-Pole
	120/240 Vac Catalog Number	120/240 Vac Catalog Number	240 Vac Catalog Number	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	Two-Pole	Two-Pole	Three-Pole
	120/240 Vac Catalog Number	120/240 Vac Catalog Number	240 Vac Catalog Number	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	—	—

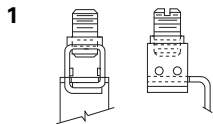
Notes

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

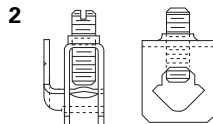
Technical Data and Specifications

Factory-Installed Breaker Terminals

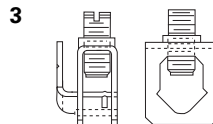
Breaker Type	Continuous Ampere Rating	Standard Line Terminal			Standard Load Terminal			Optional Terminals	
		Terminal Type	Wire Type	Wire Range (AWG)	Terminal Type	Wire Type	Wire Range (AWG)	Line	Load
QUICKLAG Type P HQP, QPHW, QHPX, QHPW	10–30	Plug-on female clips that mate with the bus stabs			1	Cu/Al	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, QPGFEP, 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 QBGFT, QBGFEP, QBHGFT, QBHGFEP	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	



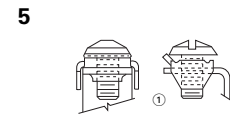
Steel Box Lug



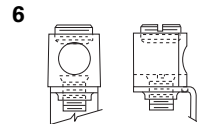
Steel Box Lug



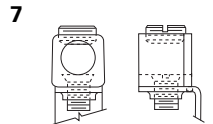
Steel Box Lug



Steel Ring Type



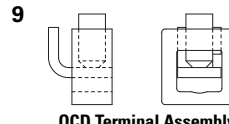
Aluminum Box Lug



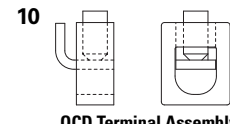
Aluminum Box Lug



4-Prong Quick Connect



QCD Terminal Assembly
10–60A



QCD Terminal Assembly
70–100A

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)

Note

① Clamp on line side only.