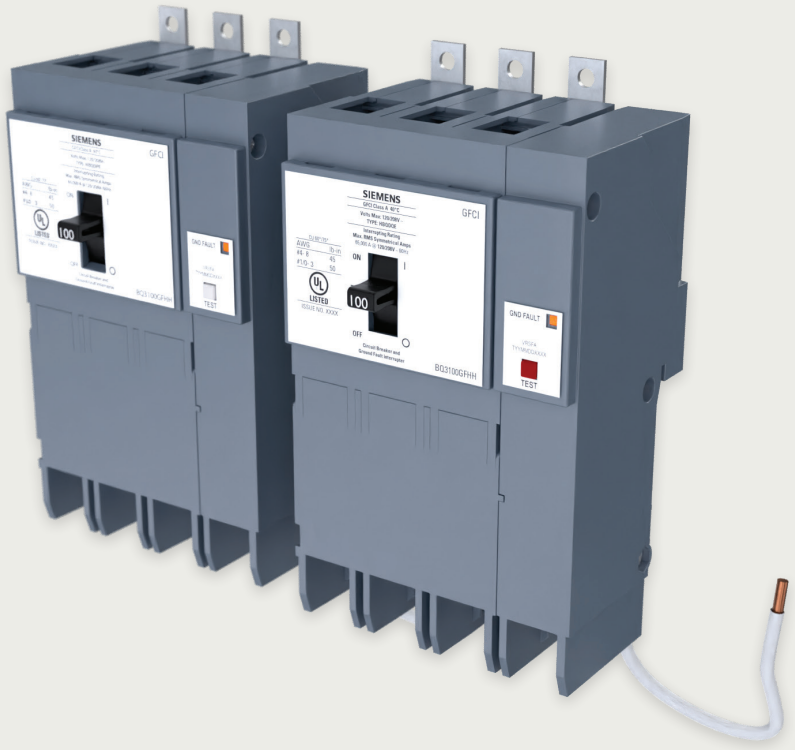


SPECIFICATION SHEET

3-Pole Ground Fault Circuit Interrupters and Sensing Devices

Class A 5mA (UL943) and 30mA (UL1053)

usa.siemens.com/3PGFCI

Features:

- Available in 2- and 3-pole (15-100A)
- Rated 65kA interrupting rating
- NEC 210.8 compliant
- Includes Self Test as required by UL943 as a needed safety feature
- Suitable for variety of construction and commercial applications: spas, hot tubs, kitchens, bathrooms, etc.
- Resists false tripping (shielded to prevent RF interference)
- UL and cUL listed
- Available sidecar accessories - shunt trip, auxiliary contact, alarm switch, etc.
- Available in panelboard mount (bolt-on) and general purpose (cable-in/cable-out) construction
- Din rail mountable solution
- NEMA 1 and NEMA 3R enclosures available
- Service entrance barrier for enclosed solution
- Class A 5mA (UL943) and 30mA (UL1053) protection

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Siemens GFCI circuit breakers are UL Listed and cUL Certified as Class A devices. The ground-fault devices do not require the load current be balanced among phases for proper operation. Residual differential current (leakage current) is considered for ground-fault detection. This means superior performance and mitigates false tripping by comparing Current Out vs. Current In.

These circuit breakers offer the Self Test feature as required by UL 943. UL suggests GFCI devices be tested every 30 days after installation. Testing GFCIs on a monthly basis is a good idea that is sometimes forgotten. The Self Test feature enables the GFCI to automatically and continuously test itself to ensure that it is working properly. If it is detected that the device has been compromised, the device trips itself. This will help guarantee the best protection is given to your home at all times.

Note for the 2-pole GFCI: A load neutral is not required on the circuit. However, the white line neutral (pigtail) must be connected to the panel neutral for the device to function.

The Siemens 2-pole GFCI circuit breaker can be installed on a 120/240V AC single phase, 3 wire system, the 120/240V AC portion of a 240/120 volt, 3 phase, 4 wire system (high leg), or on a 208Y/120 volt, 3 phase, 4 wire system.

Selection Information

Interrupting Ratings (max. RMS symmetrical amperes kA)

	Breaker Type	Ground Fault Threshold	Poles	UL/cUL AIR interrupting Ratings (kA)	
				240VAC	208/120VAC
Low tab (Bolt-on)	HBQDPF	5 mA	2	65	–
			3	–	65
	HBQDQE	30 mA	2	65	–
			3	–	65
General Purpose (Cable-in/ Cable-out)	HCQDPF	5 mA	2	65	–
			3	–	65
	HQCQDQE	30 mA	2	65	–
			3	–	65

Lugs for 60/75° C Wire

HBQDPF, HBQDQE - Load end Only	
15–40	#14–#6 AWG Cu #12–#6 AWG Al
45–100	#8–#1 AWG Cu #6–#1/0 AWG Al

Bolt-on (panelboard) Ground-Fault Circuit Interrupters

Class A 5mA GFCI (UL943)

Breaker Type	Poles	Amp Rating	65,000 A IR Catalog No.
2-pole 120/240V AC bolt-on			
HBQDPF	2	70	B270GFHH
	2	80	B280GFHH
	2	90	B290GFHH
	2	100	B2100GFHH
3-pole 120/208V AC bolt-on			
HBQDPF	3	15	B315GFHH
	3	20	B320GFHH
	3	25	B325GFHH
	3	30	B330GFHH
	3	35	B335GFHH
	3	40	B340GFHH
	3	45	B345GFHH
	3	50	B350GFHH
	3	60	B360GFHH
	3	70	B370GFHH
	3	80	B380GFHH
	3	90	B390GFHH
	3	100	B3100GFHH

Bolt-on (panelboard) Ground-Fault Circuit Interrupters

30mA Equipment Protection (UL1053)

Breaker Type	Poles	Amp Rating	65,000 A IR Catalog No.
2-pole 120/240V AC cable-in/cable-out			
HBQDQE	2	70	B270EGHH
	2	80	B280EGHH
	2	90	B290EGHH
	2	100	B2100EGHH
3-pole 120/208V AC cable-in/cable-out			
HBQDQE	3	15	B315EGHH
	3	20	B320EGHH
	3	25	B325EGHH
	3	30	B330EGHH
	3	35	B335EGHH
	3	40	B340EGHH
	3	45	B345EGHH
	3	50	B350EGHH
	3	60	B360EGHH
	3	70	B370EGHH
	3	80	B380EGHH
	3	90	B390EGHH
	3	100	B3100EGHH

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Selection Information (continued)

General Purpose (cable-in/cable-out) Ground-Fault Circuit Interrupters

Class A 5mA GFCI (UL943)

Breaker Type	Poles	Amp Rating	65,000 A IR Catalog No.
2-pole 120/240V AC cable-in/cable-out			
HCQDPF	2	15	BQ215GFHH
	2	20	BQ220GFHH
	2	25	BQ225GFHH
	2	30	BQ230GFHH
	2	35	BQ235GFHH
	2	40	BQ240GFHH
	2	45	BQ245GFHH
	2	50	BQ250GFHH
	2	60	BQ260GFHH
	2	70	BQ270GFHH
	2	80	BQ280GFHH
	2	90	BQ290GFHH
	2	100	BQ2100GFHH
3-pole 120/208V AC cable-in/cable-out			
HCQDPF	3	15	BQ315GFHH
	3	20	BQ320GFHH
	3	25	BQ325GFHH
	3	30	BQ330GFHH
	3	35	BQ335GFHH
	3	40	BQ340GFHH
	3	45	BQ345GFHH
	3	50	BQ350GFHH
	3	60	BQ360GFHH
	3	70	BQ370GFHH
	3	80	BQ380GFHH
	3	90	BQ390GFHH
	3	100	BQ3100GFHH

General Purpose (cable-in/cable-out) Ground-Fault Circuit Interrupters

30mA Equipment Protection (UL1053)

Breaker Type	Poles	Amp Rating	65,000 A IR Catalog No.
2-pole 120/240V AC cable-in/cable-out			
HCQDQE	2	15	BQ215EGHH
	2	20	BQ220EGHH
	2	25	BQ225EGHH
	2	30	BQ230EGHH
	2	35	BQ235EGHH
	2	40	BQ240EGHH
	2	45	BQ245EGHH
	2	50	BQ250EGHH
	2	60	BQ260EGHH
	2	70	BQ270EGHH
	2	80	BQ280EGHH
	2	90	BQ290EGHH
	2	100	BQ2100EGHH
3-pole 120/208V AC cable-in/cable-out			
HCQDQE	3	15	BQ315EGHH
	3	20	BQ320EGHH
	3	25	BQ325EGHH
	3	30	BQ330EGHH
	3	35	BQ335EGHH
	3	40	BQ340EGHH
	3	45	BQ345EGHH
	3	50	BQ350EGHH
	3	60	BQ360EGHH
	3	70	BQ370EGHH
	3	80	BQ380EGHH
	3	90	BQ390EGHH
	3	100	BQ3100EGHH

Accessories

Auxiliary switch

Maximum voltage		Number of contacts	Catalog number
AC	DC		
240	125	1A-1B	CQDA1
240	125	2A-2B	CQDA2

Shunt trip

Control voltage		Catalog number
VAC	VDC	
120	–	CQDST120
240	–	CQDST240
277	–	CQDST277
480	–	CQDST480
600	–	CQDST600
–	12	CQDST12
–	24	CQDST24
–	48	CQDST48
–	125	CQDST125

Alarm and auxiliary switch combinations

For breaker	Catalog number
BQD, BQD6, CQD, CQD6, HBQDPF, HBQDQE, HCQDPF, HCQDQE	CQDA1BA

Alarm switch

Maximum voltage		Catalog number
AC	DC	
240	125	CQDBA

Enclosures



Type	Catalog number
N1S	CQDN1SL
N1F	CQDN1FL
N3R	CQDN3RL

Service enterance barrier for enclosures

Catalog number
SEBENCQD

Strap kits

Panel type	Strap + Cover plate
P1	–①②
P2	BBKB32①
P3	BBKB32 + DFP3AP02
P5 Coming Soon	SBLBD + HBQDGFCP
SWBD Coming Soon	SBLBD + HBQDGFCP③

① Minimum 24" wide enclosure required for P1 & P2 panel
② HBQD breakers compatible only BL/BQD interiors (not 3VA)
③ HBQDGFCP includes cover plate and screws, requires 6.25 inches of Unit Space

Padlock

Catalog number
BQDPLD

Handle Blocking Device

Catalog number
BQDHBD

Mounting Hardware (General Purpose Breakers)

Catalog number
CQDSMK

Shunt trip and auxiliary switch combinations

Shunt trip voltage		Catalog number
AC	DC	
24	–	CQDST24AAS
120	–	CQDST120AAS
240	–	CQDST240AAS
277	–	CQDST277AAS
480	–	CQDST480AAS
600	–	CQDST600AAS
–	12	CQDST12DAS
–	24	CQDST24DAS
–	48	CQDST48DAS
–	125	CQDST125DAS

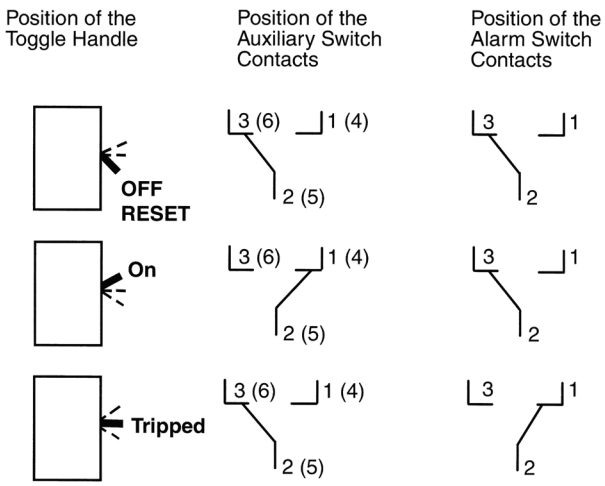
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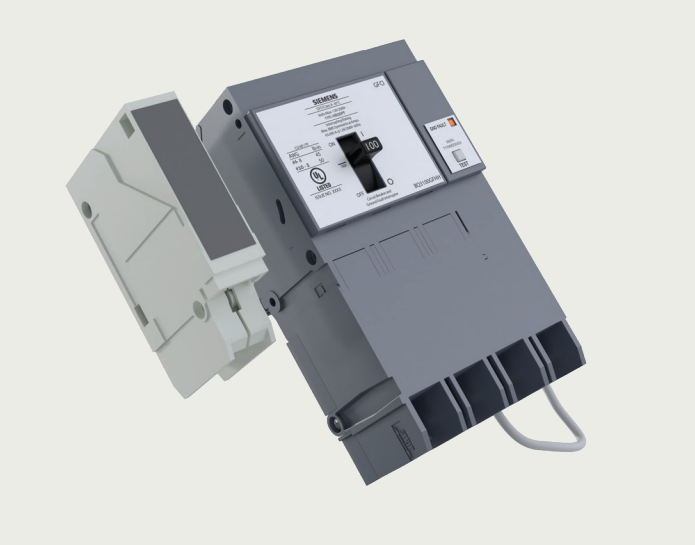
Accessories (continued)

Available accessory combinations

Shunt trip	Auxiliary switch	Alarm contact	
1	0	0	
0	1	0	
0	2	0	
1	1	0	
0	0	1	
0	1	1	

Auxiliary and alarm switch contacts

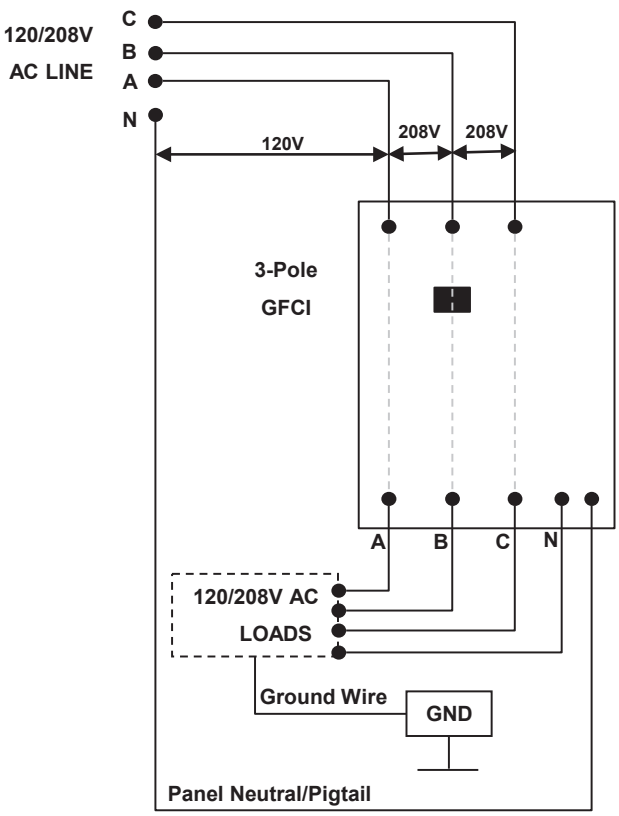




Filler plate replacement kits

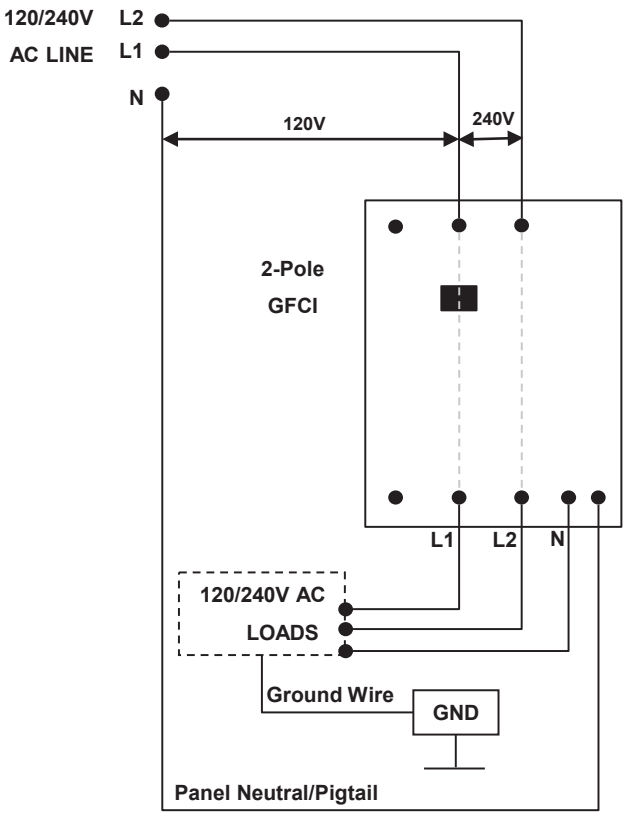
Catalog number	Description	Panelboard type
DFFFP1	Branch and Main – 1" Blank filler – Horizontal or vertical as needed	P1 and RP1, P2, P3, C1, C2

Wiring Diagrams



Neutral pigtail wire must still be connected to panel neutral.

Load neutral does not have to be connected on a 208V circuit.



Neutral pigtail wire must still be connected to panel neutral.

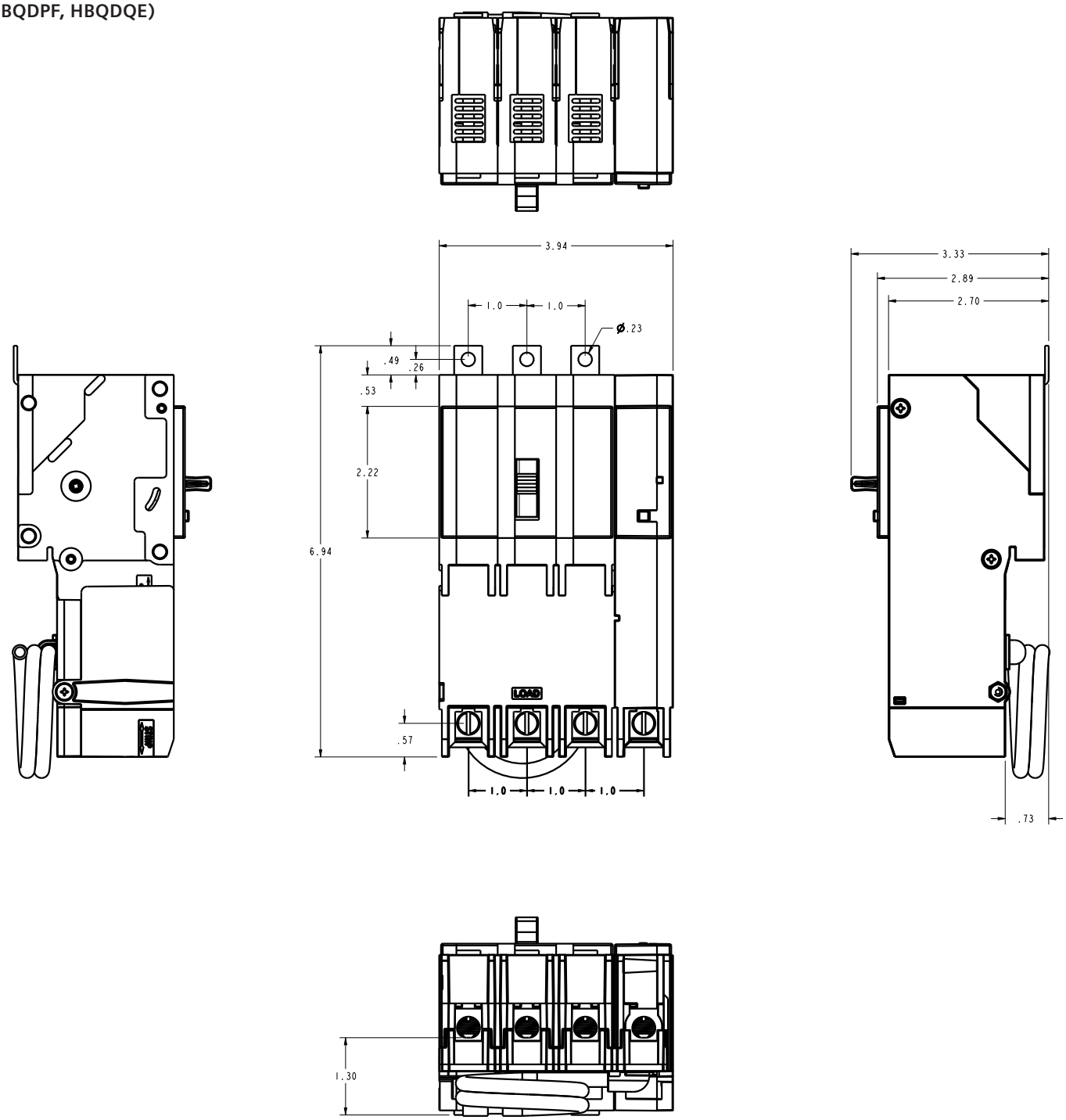
Load neutral does not have to be connected on a 240V circuit.

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Dimensional Drawing

Panelboard Mounted Breaker

(HBQDPF, HBQDQE)

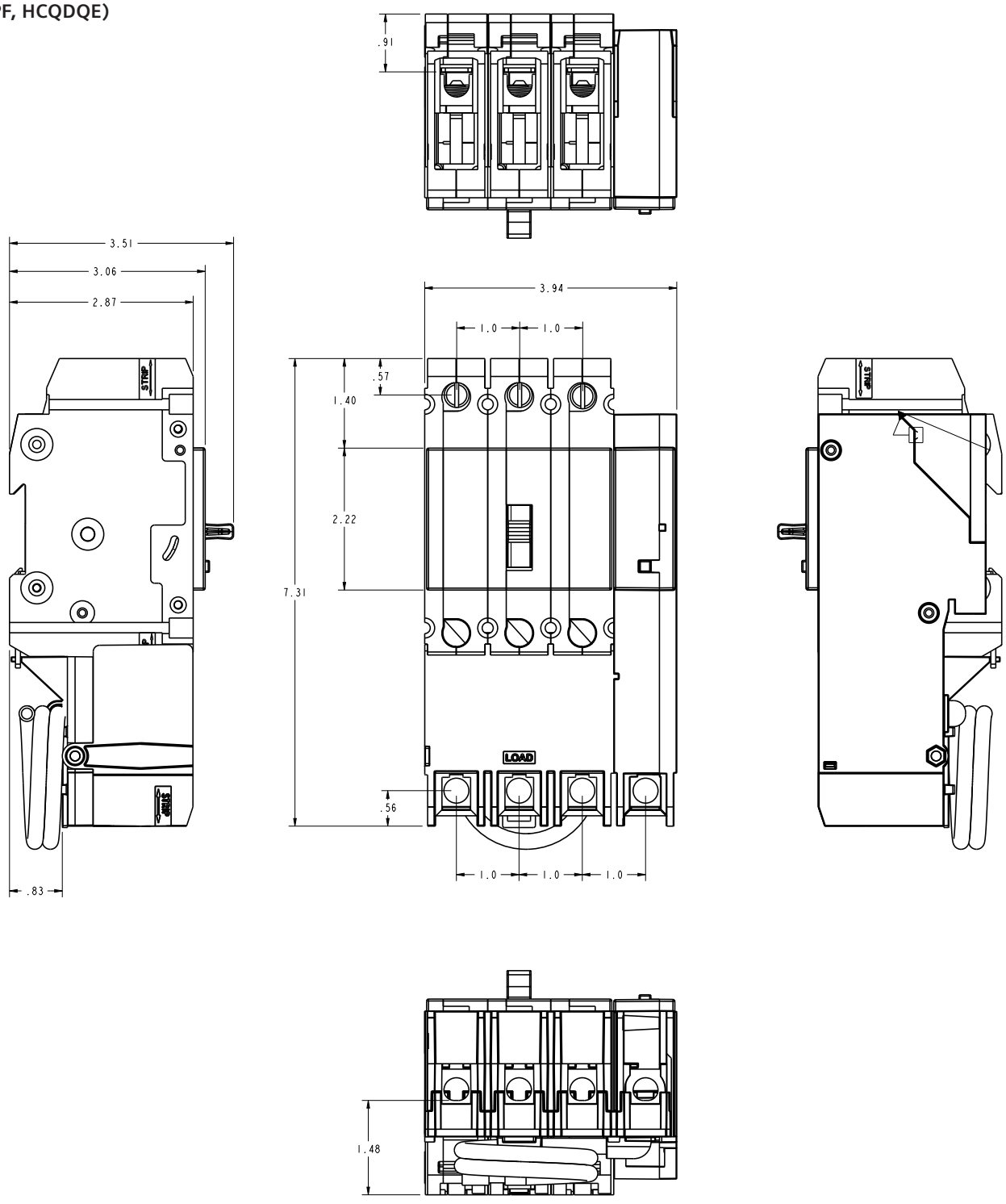


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Dimensional Drawing

General Purpose Breaker

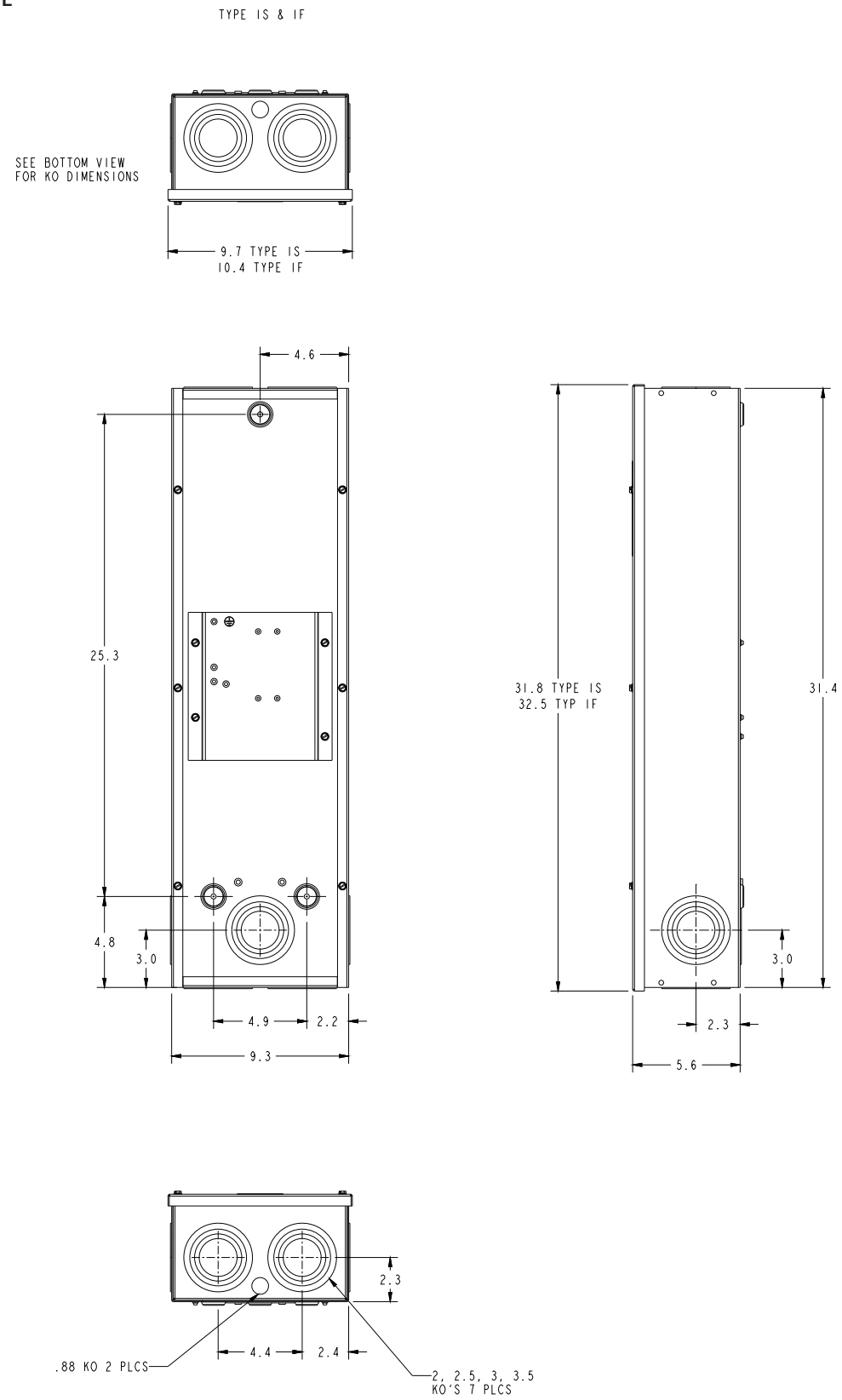
(HCQDPF, HCQDQE)



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Dimensional Drawing

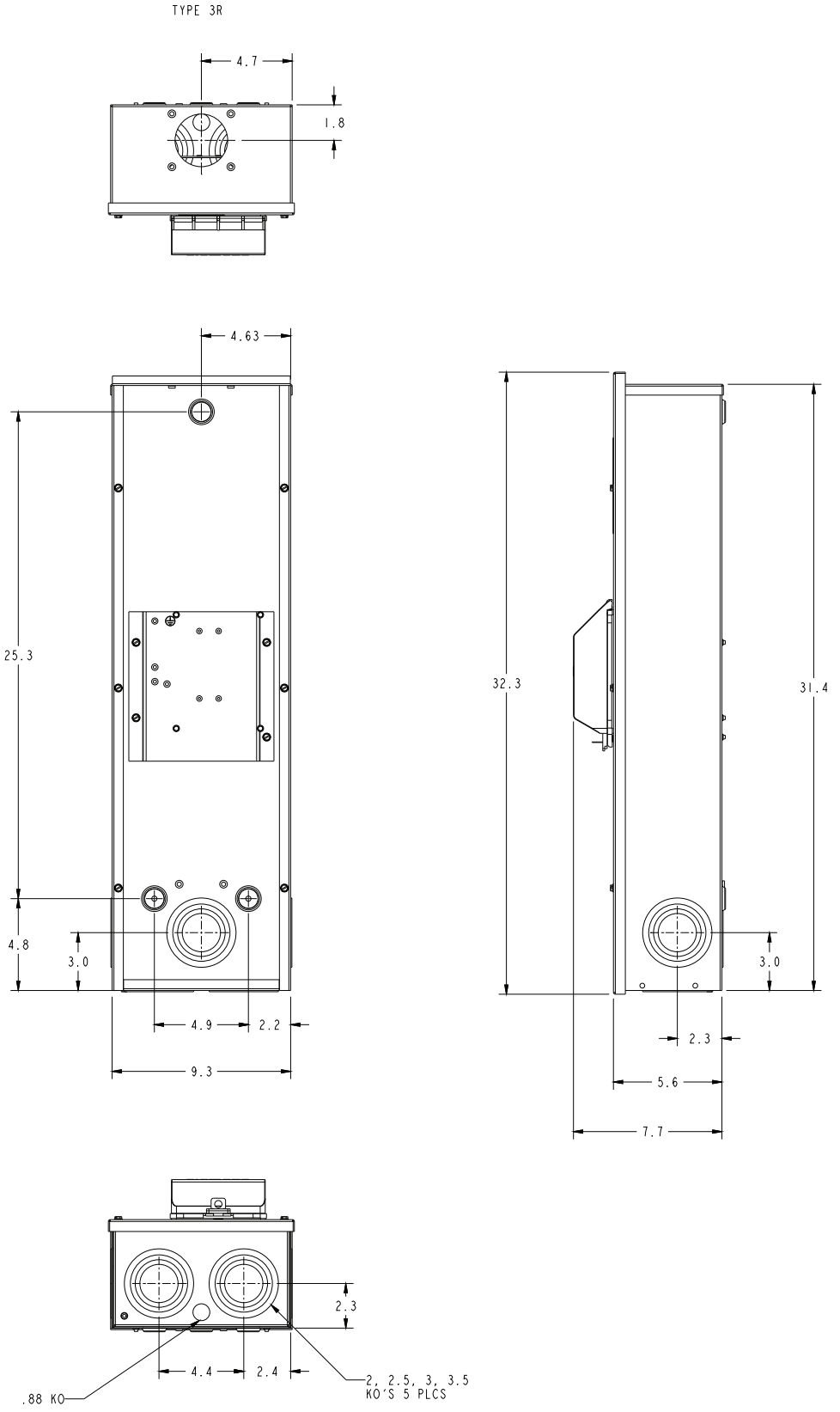
CQDN1SL, CQDN1FL



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Dimensional Drawing

CQDN3RL



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