

QO® and Homeline® Load Centers and Enclosures

Product Description

PRODUCT DESCRIPTION

QO® Circuit Breaker Load Centers from Square D® are Underwriters Laboratories (UL) Listed panelboards. They are designed to meet residential, commercial, and industrial requirements to protect electrical systems, equipment, and people.



QO® Circuit Breaker Load Center

Features

- Single- or three-phase construction
- 30 400 A main lug or main circuit breaker ratings
- 2 4 2 circuit indoor or outdoor versions
- Flush or surface mounting
- Aluminum bus construction on fixed mains panels
- Service entrance equipment capable panels
- Straight-in wiring to minimize service cable installation
- Convertible mains to meet changing job site requirements
- Standard 22/10 k AIR series rating on main circuit breaker panels, increasing application capability
- 65 k AIR ratings for main lugs panels for industrial applications
- 65 k AIR rating with optional main circuit breaker on three-phase panels for industrial applications
- Shielded one-piece plated copper bus construction on convertible mains panels, an industry exclusive for protection and performance
- Single captive screw interior mounting on indoor panels to ease removal
- Split branch neutral for clutter-free wiring
- Top or bottom feed by rotating convertible mains panels 180 degrees
- Top or bottom feed for three-phase convertible panels by removing main circuit breaker and rotating panel 180 degrees
- Combination slot/square drive neutral, ground, and cover screws for positive drive and improved torque
- Three grounding bar mounting locations for ease of wiring
- Automatic flush adjustment cover to speed installation
- Tangential main service knockouts that eliminate offsets
- Equipment grounding bar included with main lug load centers
- Covers sold separately
- Provisions for door lock on convertible mains panel covers
- Two branch circuit breaker twistouts that are factory removed for easier installation of circuit breakers
- Side hinge doors on outdoor convertible main panels
- Outdoor panel covers lockable with padlock
- Manual and automatic transfer switch capability

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Catalog Number Description

CATALOG NUMBER DESCRIPTION

QO® Load Centers

Number Segment	Character	Description	QO®	1	3040	L	200	G	—	—
Load Center Family	QO®	UL and NOM Listed								
	CQO	CSA® Certified								
Phase	1	Blank or 1 = Single 3 = Three								
Spaces / Circuits	3040									
Mains Type	M	Main circuit breaker								
	MX	Main circuit breaker for Automatic Transfer Switch								
	L	Main lugs								
	U	Universal mains (studs only)								
Amperes										
Grounding Bar	Blank	Purchase separately								
	G	Included								
	N	Neutral installed								
	T	Factory-installed								
Cover	Blank	Purchase cover separately								
	C	Combination flush / surface indoor cover								
	DF	Flush cover with door								
	DS	Surface cover with door								
	F	Flush cover								
	R	Rainproof								
	RB	Rainproof for B hub								
	S	Surface cover								
Special Construction	CU	Copper bussing								
	FT	Feed-thru lugs								
	GP	Generator panel								
	NM	Non-metallic enclosure								
	R	Generator receptacle								
	WG	Wide gutter riser panel								

QO® Circuit Breakers

Number Segment	Character	Description	QO®	1	15	—
Brand	QO	Full Size				
	QOT	Tandem				
Number of Poles						
Amperes						
Device Name	Blank	10,000 AIR				
	EPD	30 mA equipment ground fault protection				
	GFI	Ground fault circuit interruption				
	HID	For use on high intensity discharge lighting systems				
	HM	High magnetic trip circuit breakers are recommended for applications where high initial inrush current may occur				
	K	Key operated				
	PL	Remote control switching capability				
	SWN	Switch neutral common trip				
	VH	22,000 AIR				
	AFI	Arc fault circuit interruption				
CAFI	Combination arc fault circuit interruption					

QO[®] Circuit Breaker Load Centers—Class 1130

Technical Information

3-Phase, 4-Wire, 208Y/120 Vac; 3-Phase, 4-Wire, 240/120 Vac, Delta;
3-Phase, 3-Wire, 240 Vac, Delta; Main Lugs, Main Circuit Breaker In door

Mains Rating in Amps	Load Center Catalog Number	Load Center Cover Catalog Number	UL Listed Service Equipment (See Notes)	Maximum UL Short Circuit Rating ¹	Main Wire Size AWG/kcmil Al/Cu	Enclosure No. (Page 26)	Top or Bottom Mains Position	UL Listed for Corner Grounded Delta Systems
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Fixed Mains – Factory-Installed Main Lugs – Copper Bus

60	QO403L60NF/S	Included	B	22,000 A ¹		#10-6	13	Top	No
125	QO312L125G ²	QOC16UF/S	B, C	65,000 A ¹	#6 2/0	#6 2/0	6	Both	No
	QO320L125G ²	QOC24UF/S	B, C	65,000 A ¹	#6 2/0	#6 2/0	7	Both	
	QO324L125G ²	QOC24UF/S	B, C	65,000 A ¹	#6 2/0	#6 2/0	7	Both	
200	QO318L200G ²	QOC30UF/S	B, C	65,000 A ¹	#6 250	#6 2 50	9	Both	No
	QO330L200G ²	QOC30UF/S	B, C	65,000 A ¹	#6 250	#6 2 50	9	Both	
225	QO342L225G ²	QOC42UF/S	B	65,000 A ¹	#6 300	#6 3 00	11	Both	No

Convertible Mains – Factory-Installed QDL Main Circuit Breaker – Copper Bus

100	QO327M100 ³	QOC30UF/S	A, D	22,000 A	#4 2/0	#4 2/0	9	Both	No
125	QO330MQ125 ^{2 4}	QOC342MQF/S	A, D	100,000 A ^{5 6}	#4 300	#4 3 00	12	H	No
150	QO330MQ150 ^{2 4}	QOC342MQF/S	A, D	100,000 A ^{5 6}	#4 300	#4 3 00	12	H	No
	QO342MQ150 ^{2 4}	QOC342MQF/S	A, D	100,000 A ^{5 6}	#4 300	#4 3 00	12	H	
200	QO330MQ200 ^{2 4}	QOC342MQF/S	A, D	100,000 A ^{5 6}	#4 300	#4 3 00	12	H	No
	QO342MQ200 ^{2 4}	QOC342MQF/S	A, D	100,000 A ^{5 6}	#4 300	#4 3 00	12	H	
225	QO342MQ225 ^{2 4}	QOC342MQF/S	A, D	100,000 A ^{5 6}	#4 300	#4 3 00	12	H	No

¹ Short circuit current rating depends on lowest AIR rating of branch circuit breaker installed.

² Certified to IEC 60439-1 for use on 415Y/240 Vac 3-phase 4-wire, 3,000 SCCR when QODX ... branch circuit breakers are used and 10,000 SCCR when QO...VS branch circuit breakers are used. CE marked.

³ Includes factory-installed back-fed QO3100VH main circuit breaker.

⁴ Mains positioning from top to bottom feed: first rotate the main circuit breaker 180 degrees, then rotate the complete load center 180 degrees.

⁵ 100,000 A rms at 208 Vac symmetrical maximum when type QJL main circuit breaker from Square D[®] with 100,000 A rms minimum interrupting rating is installed and when all installed QO[®] and Q1 branch circuit breakers have 10,000 A rms symmetrical minimum interrupting rating.

⁶ 25,000 A rms symmetrical maximum when supplied by integral type QDL main circuit breaker from Square D[®] with 25,000 A rms minimum interrupting rating and when all installed QO[®] and Q1 branch circuit breakers have 10,000 A rms symmetrical minimum interrupting rating.

A UL Listed as suitable for use as service equipment (neutral bonded at the time of installation) with factory-installed service disconnect.

B UL Listed as suitable for use as service equipment (neutral bonded at the time of installation) with field-installed service disconnect.

C UL Listed as suitable for use as service equipment (neutral bonded at the time of installation) when not more than six service disconnecting means are provided and when not used as a lighting and appliance branch circuit panelboard. See NEC Section 384-14.

D UL Listed as suitable for use as service equipment (neutral bonded at the time of installation) with field-installed main lugs, when not more than six service disconnecting means are provided and when not used as a lighting and appliance branch circuit panelboard. See NEC Article for Lighting and Appliance Branch Circuit Panelboard.

QO® Circuit Breaker Load Centers—Class 1130

Indoor Dimensions						Indoor Dimensions							
Box No.	W		H		D		Box No.	W		H		D	
	in.	mm	in.	mm	in.	mm		in.	mm	in.	mm	in.	mm
1	3.81	97	6.72	171	3.00	76	13	5.88	149	13.12	333	3.38	86
2	4.81	122	9.30	236	3.19	81	14	14.25	362	20.92	531	3.75	95
3	4.81	122	9.30	236	3.19	81	15	20.00	508	50.00	1270	5.75	146
4	8.88	226	12.57	319	3.80	97	16	20.00	508	68.00	1727	5.75	146
5	14.25	362	14.92	379	3.75	95	17	20.00	508	53.00	1346	5.75	146
6	14.25	362	17.92	455	3.75	95	18	5.88	149	16.12	409	3.38	86
7	14.25	362	20.92	531	3.75	95	19	7.56	192	23.12	587	4.25	108
8	14.25	362	26.04	661	3.75	95	20	9.62	244	26.12	663	4.75	121
9	14.25	362	29.86	758	3.75	95	21	8.88	226	14.80	376	3.80	97
10	14.25	362	33.78	858	3.75	95	22	8.55	217	23.92	608	3.95	100
11	14.25	362	37.98	965	3.75	95	23	14.25	362	29.86	758	3.75	95
12	14.25	362	39.37	1000	3.75	95							

Knockouts									
Symbol	A	B	C	D	E	F	G	H	I
Conduit Size	0.50 in. 13 mm	0.75 in. 19 mm	1.00 in. 25 mm	1.25 in. 32 mm	1.50 in. 38 mm	2.00 in. 51 mm	2.50 in. 64 mm	3.00 in. 76 mm	3.50 in. 89 mm

