

International Load Centers

Circuit Breaker Load Centers

International Miniature Circuit Breakers

QO™ Plug-On and Bolt-On Circuit Breakers and Switches	7-2
Plug-On QOXD and Bolt-On QOBXD	7-3

Load Centers

IEC Certified QO™ Load Centers, Type 1 (Indoor)	7-4
---	-----

General Description

In 1955 Square D Company introduced the QO™ Plug-on System and revolutionized the way electrical contractors install miniature circuit breakers in the United States. Today as part of Schneider Electric™ we offer the same Plug-on System technology around the world. IEC certified QO products are available for residential, commercial and industrial applications.

Table 7.1: International Miniature Circuit Breaker Description

Circuit Breaker	Description	1Ø Consumer Units	3Ø Distribution Boards
QOXD	Branch circuit breaker	X	X

Characteristics

- Circuit breakers are rated 240 Vac single phase and 415 Vac three phase, 50/60 Hz.
- Circuit breakers are available in 1-, 2- or 3-pole construction.
- Thermal trip elements are factory calibrated to 40°C (IEC 947-2) and 30°C (IEC 898) ambient temperature.
- Trip-free handle ensures tripping even when the circuit breaker is held or locked in the ON position.
- Circuit breakers are in compliance with international standards set by the International Electrotechnical Commission (IEC).
- The CE marking is located on each circuit breaker in accordance with the low voltage directive of the European Union.
- The entire QO circuit breaker family provides the advantage of a plug-on connection. (Bolt-on connections also available)

Accessories

Table 7.2: Accessories

Accessory	Description	Cat. No.	QOXD
Handle Tie	Ties two 1P circuit breakers together	QO1HT	X
Handle Lock-Off (Clamp)	Attaches to 1P circuit breaker handles	QO1LO	X
	Attaches to 1P, 2P, 3P circuit breaker handles	HLO1	X
Handle Padlock Attachment	Attaches to 1P, 2P, 3P circuit breaker handles	QOEPLA	—
	Attaches to 1P circuit breaker handles	QOE1PL	—
	Attaches to 1P circuit breaker escutcheon (fixed)	QO1PA	X
	Attaches to 1P circuit breaker handles (removable)	QOHPL	X
	Attaches to 2P, 3P circuit breaker handles (removable)	QO1HPL	X
	Attaches to 2P circuit breaker handles (removable)	GFI2PA	—

Circuit Breaker Operating Characteristics

Table 7.3: Branch Circuit Breakers

Cat. No. Prefix		Number of Poles	Continuous Ampere Rating	IEC 898 Service Rating I_{cn}		Tripping Characteristics
Plug-on	Bolt-on			240 V	415 V	
QOXD	QO BXD	1, 2, 3	10–32 A	3000	3000	Type D (10–20 I_n)
Cat. No. Prefix		Number of Poles	Continuous Ampere Rating	IEC 947-2 Service Rating I_{cu} (I_{cs})		—
Plug-on	Bolt-on			240 V	415 V	
QOXD	QO BXD	1, 2, 3	10–32 A	3000 (100%)	3000 (100%)	—
		1	40–63 A	3000 (50%)	—	—
		2, 3	40–100 A	—	3000 (50%)	—

Main Switches

**Table 7.4: QO-M Plug-On Main Incomer Switch
240 V Certified to IEC 947-3**

Ampere Rating	1P		2P		3P and 4P	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
100 A	N/A	—	N/A	—	N/A	—
125 A	N/A	—	N/A	—	QO3100M	116.00
125 A–4P	N/A	—	N/A	—	QO4100M	200.00

**Table 7.5: QOXD Thermal-Magnetic, Plug-On Miniature Circuit Breakers
240/415 V 10–32 A Certified to IEC 898 at 3 kA, 40–100 A Certified to IEC 947-2 at 3 kA**

Ampere Rating	1P		2P		3P		Terminal Capacity Range
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	
10 A	QOXD110	20.40	QOXD210	46.90	QOXD310	165.00	2.5–6 mm ²
16 A	QOXD116	20.40	QOXD216	46.90	QOXD316	165.00	2.5–6 mm ²
20 A	QOXD120	20.40	QOXD220	46.90	QOXD320	165.00	2.5–6 mm ²
25 A	QOXD125	20.40	QOXD225	46.90	QOXD325	165.00	2.5–6 mm ²
32 A	QOXD132	20.40	QOXD232	46.90	QOXD332	165.00	2.5–6 mm ²
40 A	QOXD140	20.40	QOXD240	46.90	QOXD340	165.00	10–25 mm ²
45 A	QOXD145	20.40	QOXD245	46.90	QOXD345	165.00	10–25 mm ²
50 A	QOXD150	20.40	QOXD250	46.90	QOXD350	165.00	10–25 mm ²
63 A	QOXD163	20.40	QOXD263	46.90	QOXD363	165.00	10–25 mm ²
80 A	N/A	—	QOXD280	132.00	QOXD380	244.00	25–50 mm ²
100 A	N/A	—	QOXD2100	132.00	QOXD3100	244.00	25–50 mm ²

**Table 7.6: QOBXD Thermal-Magnetic, Bolt-On Miniature Circuit Breakers
240/415 V 10–32 A Certified to IEC 898 at 3 kA, 40–100 A Certified to IEC 947-2 at 3 kA**

Ampere Rating	1P		2P		3P		Terminal Capacity Range
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	
10 A	QOBXD110	26.50	QOBXD210	59.00	QOBXD310	195.00	2.5–6 mm ²
16 A	QOBXD116	26.50	QOBXD216	59.00	QOBXD316	195.00	2.5–6 mm ²
20 A	QOBXD120	26.50	QOBXD220	59.00	QOBXD320	195.00	2.5–6 mm ²
25 A	QOBXD125	26.50	QOBXD225	59.00	QOBXD325	195.00	2.5–6 mm ²
32 A	QOBXD132	26.50	QOBXD232	59.00	QOBXD332	195.00	2.5–6 mm ²
40 A	QOBXD140	26.50	QOBXD240	59.00	QOBXD340	195.00	10–25 mm ²
45 A	QOBXD145	26.50	QOBXD245	59.00	QOBXD345	195.00	1–25 mm ²
50 A	QOBXD150	26.50	QOBXD250	59.00	QOBXD350	195.00	10–25 mm ²
63 A	QOBXD163	26.50	QOBXD263	59.00	QOBXD363	195.00	10–25 mm ²
80 A	N/A	—	QOBXD280	160.00	QOBXD380	279.00	25–50 mm ²
100 A	N/A	—	QOBXD2100	160.00	QOBXD3100	279.00	25–50 mm ²

Short circuit ratingsPage 7-2
AccessoriesPage 7-2

Application Data

Square D™ QO™ Three-Phase Circuit Breaker Load Centers can be certified to IEC 60439-1 and 60439-3. Contact your local Field Sales office for more information. They are designed to meet residential, commercial, and industrial requirements to protect electrical systems and equipment.

Features

- Three phase construction
- 100, 125, 150, 200 and 225 A mains ratings with main lugs or main circuit breaker
- 12-42 circuit indoor version
- Flush or surface mounting
- Straight-in wiring to minimize service cable installation
- Top or bottom feed
- Automatic flush adjustment cover to speed installation
- Covers sold separately
- Products are stocked in USA
- Bus on 12-42 circuit load centers is one piece, solid copper
- Order entry point is Lexington
- For more information, contact your local Field Sales office.

Table 7.7: Load Centers

Mains Rating Ampere	Spaces/ Max. Poles	Type 1			
		Box and Interior		Cover With Door	
		Cat. No.	\$ Price	Cat. No.▲	\$ Price
Main Lugs 240/415 Vac 3Ø4W					
125 A	12	QO312L125G	221.00	QOC16UF/S■	25.10
	20	QO320L125G	314.00	QOC24UF/S■	25.10
	24	QO324L125G	360.00	QOC24UF/S■	25.10
200	18	QO318L200G	295.00	QOC30UF/S■	58.00
	30	QO330L200G	413.00	QOC30UF/S■	58.00
225	42	QO342L225G	561.00	QOC42UF/S■	74.00
Main Circuit Breaker 240/415 Vac 3Ø4W					
125	30	QO330MQ125	1226.00	QOC342MQF/S	61.00
150	30	QO330MQ150	1226.00	QOC342MQF/S	61.00
	42	QO342MQ150	1351.00	QOC342MQF/S	61.00
200	30	QO330MQ200	1226.00	QOC342MQF/S	61.00
	42	QO342MQ200	1351.00	QOC342MQF/S	61.00
225	42	QO342MQ225	1351.00	QOC342MQF/S	61.00

▲ F/S at end of catalog number indicates to order F for flush device or S for surface device.
■ Discount Schedule DE3A