



Fingersafe IP2X per IEC 60529 Barriers for NQ Panelboards

Factory-installed IP2X barriers for NQ Lighting and Appliance Panelboards from Square D™ by Schneider Electric™ reduce the risk of electrical shock when someone is working near energized components. IP2X barriers are designed to prevent people from accessing hazardous parts with a finger.

Features:

- Plastic barriers cover Mains (lugs or breaker), copper bus, and branch breakers
 - » IP2X per IEC 60529 on all ungrounded parts
- Increase worker protection from accidental contact with energized parts, and reduce downtime from electrical outages.
- Supports 240 Vac maximum – 3 phase, 3 and 4 wire systems
- Installs in most environments – NEMA 1, 2, 3R, 4/4X, 5, or 12 (up to 225A)
 - » NEMA 1 panelboards up to 400A
- Wide branch breaker selection – proven QO plug-on, QOB bolt-on families
- Branch circuits up to 100 Amperes – 1, 2, and 3-pole
- Selectively coordinated up to 30k AIC
- Available with main lugs, PowerPact Q, H, J frame, and LA/LH main breakers
- Series rated to 200 kAIC with integral main breaker
 - » Fully rated up to 65 kAIC
- Sub feed lugs up to 225A
- Neutral bar IP2X front only for easy access
- Available seismically qualified
- cULus Listed to UL 67 and CSA C22.2, No. 29

1 NQ panelboard with IP2X enhanced barriers on branch connections and breakers

2 NQ panelboard with IP2X barriers on main breaker



Supports Safe Electrical Work

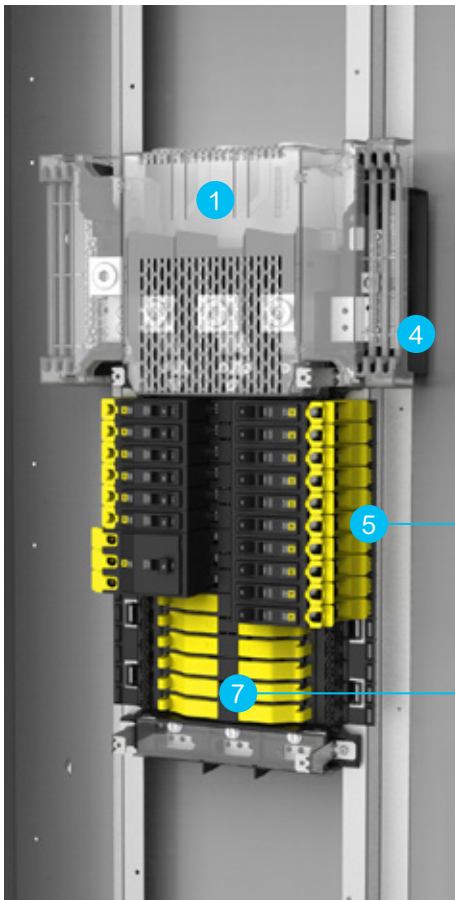
Turn OFF all power supplying the panelboard before working on or inside the panelboard. Follow all applicable laws and regulations such as OSHA CFR 1910, NFPA 70E, CSZ Z462, or NOM-029-STPS.

IP2X barriers are designed to prevent people from accessing hazardous parts with a finger and provide improved protection from accidental contact versus an NQ panelboard with standard barriers. Working on energized equipment may be permissible per OSHA CFR 1910.333(a)(1). The owner of the equipment is responsible for complying with all applicable regulations and must follow safe work practices.

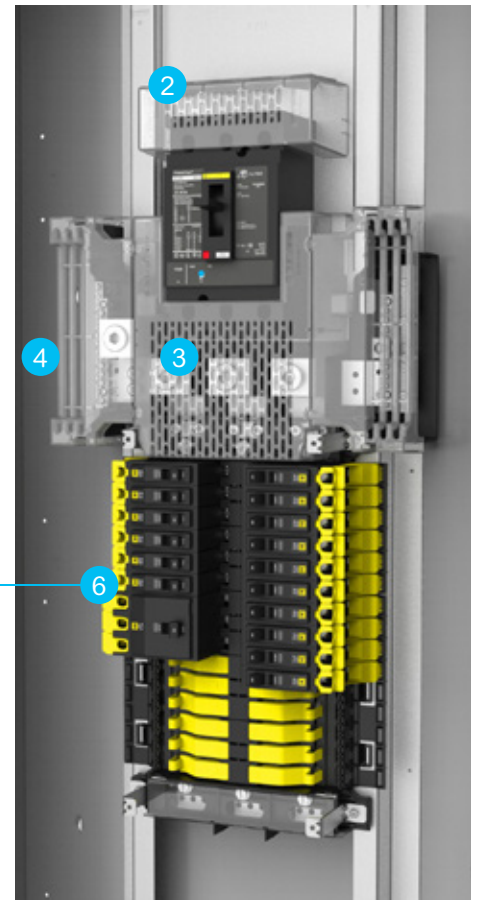
OSHA CFR 1910.333(a)(1)

“Deenergized parts.” Live parts to which an employee may be exposed shall be deenergized before the employee works on or near them, unless the employer can demonstrate that deenergizing introduces additional or increased hazards or is infeasible due to equipment design or operational limitations.

IP2X per IEC 60529 – Standard design



- 1 Main Lug Cover
- 2 Main Breaker Line Side Cover
- 3 Main Breaker Load Side Cover
- 4 Neutral Cover
- 5 Low Amp QO(B) Cover
- 6 High Amp QO(B) Cover
- 7 Bus Finger Cover



New – Enhanced Fingersafe IP2X per IEC 60529 Barriers for NQ Panelboards

- Innovative factory installed barriers provide IP2X protection with or without a branch breaker installed.
- Same plastic barriers over mains, bus ends, and branch breaker terminations as standard NQ Fingersafe™ design
- Innovative bus design and barriers retain IP2X per IEC 60529 protection when no branch breaker is installed
- Unique jaw kit allows standard bolt-on branch breakers to plug onto NQ interior with IP2X barriers

Restrictions:

- Sub-feed breakers and thru-feed lugs not available
- Not seismically qualified
- SurgeLoc SPD not available



3 phase QOB breaker with jaw kits installed



Single phase QOB breaker with jaw kit installed

Specifications:

Panelboard bus ratings, enclosures, and circuit counts

IP2X Design	Mains rating	Enclosures: NEMA types	Height ¹ @ Circuit count					
			18	30	42	54	72	84
Standard	100	1, 2, 3R, 4/4X, 5, 12	26"	32"				
	225			38"	44"	44"	50"	56"
	400	1		56"	56"	62"	68"	74"
Enhanced	225	1, 2, 3R, 4/4X, 5, 12			44"			
	400	1			56"			

¹ Min. MLO Box Height: Consult Product Selector for Main Breaker configurations

QO(B) branch breaker ratings¹

Branch circuit breaker	Amperes	1 pole	2 pole	3 pole
QO/QOB	10 - 60	L	L	L
	70	L	L	H
	80 - 100		H	H
QO-H/ QOB-H	15 - 30		L	
	40 - 100		H	
QO-HID/ QOB-HID	15-30	L	L	L
	40-50	L	L	
QO-HM/ QOB-HM	15 - 20	L		
QO-VH/ QOB-VH	15 - 30		L	L
	15 - 70	L		
	40 - 100		H	H
QOH ²	40 - 100		H	
QHB ²	15 - 30	L	L	

¹ QOB breakers and jaw kits required for Enhanced IP2X design

² Available only in Standard IP2X design

Replacement parts

Catalog number	Quantity per package	Description
QOFSBF12	12	NQ IP2X Bus Finger Filler ³
QOFSLAB12	12	NQ IP2X QO(B) Lug Cover Low Amp
QOFSHALB12	12	NQ IP2X QO(B) Lug Cover High Amp
HJQLLC	1	HJQ Main Breaker IP2X Line Lug Cover
LALLC	1	LA/LH Main Breaker IP2X Line Lug Cover
NQHJLSC	1	HJ Main Breaker IP2X Load Side Cover
NQQLSC	1	Q Main Breaker IP2x Load Side Cover
NQLALHLSC	1	LA/LH Main Breaker IP2X Load Side Cover
NQMLLSC	1	Main Lugs IP2X Cover
NQNCC	1	NQ IP2X Neutral Cover
QO1PJ15	15	QOB Jaw Kit ⁴
QOBRT	1	QOB Breaker Removal Kit ⁴

³ Used only with Standard IP2X design

⁴ Used only with Enhanced IP2X design

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