

# Enclosed Circuit Breakers

Enclosures — Knockout and Hub Data

Dimensions

## Knockouts & Wire Bending Space

Breaker Frame	Conduit Range Per Knockout Outside Dimensions (inches)	Types 1, 12 and 12K				Type 3R				Maximum Cable Sizes Recommended (Cu/Al) for Type 1, 3R, 4, 4X, 12 & 12K Enclosures <sup>⑤⑥</sup>
		Number of Knockouts Per Panel (Type 4, 4X, 12 have no KO's)								
		Top	Bottom	Side	Back	Bottom	Side	Back	Maximum Hub Size (inches) Type 3R	
QP, QPH, HQP 15–125	½, ¾, 1, 1¼, 1½	4	4	4	4	3	1	1	2	7½" high encl. #6 <sup>③</sup>
BQ, BOH, HBP 70–100	¾, 1, 1¼	1	1	2	2	8	1	3	2	④
QPP, QPPH, HQPP 125–225	½, ¾, 1, 1¼, 1½, 2, 2½	—	—	—	—	4	1	1	2½	250 kcmil
QR	1½, 2, 2½, 3	—	—	2	2	—	1	1	3	④
NGG	¾, 1, 1¼, 1½, 2, 2½	—	—	—	—	—	—	—	—	
ED2, ED4, ED6, HED4 3VA51, 3VA52, 3VA61, 3VA62	½, 1½, 1¾, 1¾, 2	2	2	2	2	2	1	1	2	④
CED6	½, 1½, 1¾, 1¾, 2	2 <sup>①</sup>	2 <sup>①</sup>	—	—	2	—	—	2	④(CFD6 only 300 kcmil)
FXD6, FD6, HFXD6, HFD6, CFD6	1½, 1¾, 1¾, 2, 2½	2	2	2 <sup>②</sup>	2 <sup>②</sup>	—	1	1	4	④
		1	1	—	—	1	—	—		
JXD2, JXD6, JD6, HJD6, HJXD6, HHJD6, HHJXD6, SJD6, SHJD6	1½, 2, 2½, 3, 3½, 4	1	1	2	4	—	—	—	4	(2) 600 kcmil
LXD6, LD6, HLXD6, HLD6, HHLXD6, SLD6, SHLD6	1½, 2, 2½, 3, 3½, 4	1	1	2	4	—	—	—	4	(2) 600 kcmil
LMXD6, LMD6, HLMXD6, HMLD6	—	—	—	—	—	—	—	—	4	(3) 600 kcmil
MD6, SMD6, HMD6, ND6, SND6, HND6	—	—	—	4¼ – 4¾	4¼ – 4¾	—	—	—	4	(3) 600 kcmil or (4) 500 kcmil

6

ENCLOSED  
CIRCUIT BREAKERS

## Hubs (Type 3R)

Breaker Frame	Conduit Size (inches)	Catalog Number
QP, QPH, HQP, BQ, BOH, HBO, NGG, HGG, LGG	¾	ECHS075
	1	ECHS100
	1¼	ECHS125
	1½	ECHS150
QPP, QPPH, HQPP, QR2, QRH2, QR2H, HOR2H	2	ECHS200
	1¼	ECHS125
	1½	ECHS150
ED2, ED4, ED6, HED4, HED6, HHED6, CED6, DG, 3VA51	2	ECHS200
	2½	ECHS250
	¾	ECHR075
	1	ECHR100
FXD6, FD6, HFXD6, HFD6, CFD6, FG, 3VA52, JXD2, JD6, JXD6, HJD6, HJXD6, LD6, LXD6, HLD6, HLXD6(A), 3VA53, 3VA54, 3VA62, 3VA63, 3VA64	1¼	ECHR125
	1½	ECHR150
	2	ECHR200
	2	ECHV200
	2½	ECHV250
	3	ECHV300
	3½	ECHV350
	4	ECHV400



**Note:** Enclosures for 250A max breakers have a hub provision on the rainshed. Enclosures for larger breakers (J, L, M & N frame) have blank top rainsheds. Drill or punch hole in the field to accommodate hub size desired.

For inches / millimeters conversion, see Application Data section.

①Type 12K only.

②Type 12K enclosure has no knockouts this location.

③17½" high enclosure provides sufficient wire bending space for all available CB lugs.

④Sufficient wire bending space is provided for all available mechanical type CB lugs.

⑤The use of cables larger than those listed below may violate NEC & UL wire bending space requirements.

⑥The use of compression type connectors will violate NEC and UL wire bending space requirements.