

NEMA 12 Dustproof Surface Mounting***No Knockouts or Other Openings
15–1200A, 600 Vac,
500 Vdc***

The Type 12 enclosure is designed in line with specifications for special industry application where unusually severe conditions involving oil, coolant, dust and other foreign materials exist in the operating atmosphere. The handle padlocks in the OFF position and the cover is interlocked with the handle mechanism to prevent opening the cover with the circuit breaker in the ON position. Ratings through 1200A are listed by Underwriters Laboratories as suitable for service entrance application. A NEMA 12 semi-dust-tight design that includes knockouts is available. These units are rated 15–400A, 600 Vac, 500 Vdc.

***NEMA 12 Dustproof Surface Mounting*****NEMA 7/9 Hazardous Location*****Cast Aluminum, Explosion-proof
Surface Mounting 15–1200A,
600 Vac, 250 Vdc***

Hazardous location, Type 7: Class I, Groups B, C, D; Type 9: Class II, Groups E, F, G. This special service cast aluminum enclosure is supplied with a wide, machined flanged cover to prevent igniting outside atmospheres by arcing from inside the enclosure. Front operable, the handle padlocks in the OFF position. Enclosures rated 600A and above have lift-off hinges for ease of assembly.

Note: XFDN050B is not Group B compliant.

***NEMA 7/9 Hazardous Location*****Features, Benefits and Functions**

- Side-opening door on NEMA 3R enclosures
- Padlockable in the OFF position
- Surface or flush mounted enclosures available through 400A on NEMA 1 enclosures
- Interlocked handle on NEMA 3R, 4/4X, 5 and 12 enclosures to prevent opening when the breaker is in the ON position
- Interchangeable hubs
- Numerous factory options

Standards and Certifications

- UL 489
- CSA 22.2
- NEMA 250

NEMA 1 General Purpose

- UL File No. E7819
- CSA File No. LR84319

NEMA 3R Rainproof Surface Mounting

- UL File No. E7819
- CSA File No. LR84319

NEMA 4/4X, 5 Water and Dustproof

- UL File No. E7819
- CSA File No. LR84319

NEMA 12 Dustproof Surface Mounting

- UL File No. E7819
- CSA File No. LR84319

NEMA 7/9 Hazardous Location

- UL File No. E84577
- CSA File No. LR42131-6



Cross-Reference

Enclosed Circuit Breaker Competitive Catalog Numbers

NEMA Rating	Catalog Number		Square D		Siemens		General Electric	
	Eaton Enclosure	Breaker	Enclosure	Breaker	Enclosure	Breaker	Enclosure	Breaker
1 surface	SGDN100	GHC3100	EHB125NS	EHB34100	—	—	—	—
1 flush	—	—	EHB125NF	EHB34100	—	—	—	—
3R	RGDN100	GHC3100	EHB125NRB	EHB34100	—	—	—	—
12	JGDN100	GHC3100	—	—	—	—	—	—
12K	DGDN100	GHC3100	—	—	—	—	—	—
4/4X	WGDN100	GHC3100	—	—	—	—	—	—
1 surface	SFDN100	EHD3100L	FA100S	FAL34100	E2N1S	ED43B100	TE100S	TED134100WL
1 flush	FFDN100	EHD3100L	FA100F	FAL34100	E2N1F	ED43B100	TE100F	TED134100WL
3R	RFDN100	EHD3100L	FA100RB	FAL34100	E2N3R	ED43B100	TE100R	TED134100WL
12/3R	—	—	FA100AWK	FAL34100	—	—	—	—
12	JFDN100	EHD3100L	—	—	E2N12	ED43B100	TE100J/SE100J	TED134100WL
12K	DFDN100	EHD3100L	FA100A	FAL34100	E2N12	ED43B100	TE100D/ _____	TED134100WL
4/4X	WFDN100	EHD3100L	FA100DS	FAL34100	ED6SS4	ED43B100	TE100CS/SE100CS	TED134100WL
7/9	XFDN050	EHD3050L	FA060X	FAL34060	EA	ED43B100	—	—
9	—	—	FA060Y	FAL34060	—	—	—	—
7/9	XFDN225B ①	FD3225L	FA100X	FAL34100	EB	ED43B100	—	—
9	—	—	FA100Y	FAL34100	—	—	—	—
1 surface	SFDN225 ①	FDB3150L	—	—	E2N1S	ED43B125	TE150S	TED134150WL
1 flush	FFDN225 ①	FDB3150L	—	—	E2N1F	ED43B125	TE150F	TED134150WL
3R	RFDN225 ①	FDB3150L	—	—	E2N3R	ED43B125	TE150R	TED134150WL
12	JFDN225 ①	FDB3150L	—	—	E2N12	ED43B125	—	—
12K	DFDN225 ①	FDB3150L	—	—	E2N12	ED43B125	—	—
4/4X	WFDN225 ①	FDB3150L	—	—	ED6SS4	ED43B125	—	—
7/9	XFDN225B ①	FDB3150L	—	—	—	—	—	—
1 surface	SFDN225 ①	FD3225L	—	—	—	—	—	—
1 flush	FFDN225 ①	FD3225L	—	—	—	—	—	—
3R	RFDN225 ①	FD3225L	—	—	—	—	—	—
12	JFDN225 ①	FD3225L	—	—	—	—	—	—
12K	DFDN225 ①	FD3225L	—	—	—	—	—	—
4/4X	WFDN225 ①	FD3225L	—	—	—	—	—	—
7/9	XFDN225B ①	FD3225L	—	—	—	—	—	—
1 surface	SJDN250	JDB3250	KA225S	KAL36250	F6N1S	FXD63B250	TF225S	TFJ236225WL
1 flush	FJDN250	JDB3250	KA225F	KAL36250	F6N1F	FXD63B250	TF225F	TFJ236225WL
3R	RJDN250	JDB3250	KA225RB	KAL36250	F6N3R	FXD63B250	TF225R	TFJ236225WL
12/3R	—	JDB3250	KA225AWK	KAL36250	—	—	—	—
12	JJDN250	JDB3250	—	—	F6N12	FXD63B250	TF225J/SF250J	TFJ236225WL
12K	DJDN250	JDB3250	KA225A	KAL36250	F6N12	FXD63B250	_____/SF250D	TFJ236225WL
4/4X	WJDN250	JDB3250	KA225DS	KAL36250	FD6SS4	FXD63B250	TF225CS/SF250CS	TFJ236225WL
7/9	XJDN250B	—	KA225X	KAL36250	EC2	FXD63B250	—	—
9	—	—	KA225Y	KAL36250	—	—	—	—

Notes

① Maximum wire size 4/0.

② Maximum wire size 500 kcmil.

Product Selection

1. Use the data on **Page V2-T1-120** to determine type of enclosure required.
2. Use the data on **Page V2-T1-114** and **V2-T1-115** to determine circuit breaker required.
3. **Pages V2-T1-116** through **V2-T1-122** include rough-in dimensional information.

Enclosure Only

Breaker Frame	Breaker Ampere Range	Enclosure NEMA Class	Catalog Number
Series C Breakers			
GHC, GD (two- and three-pole only) GHCGFEP (single-pole only)	15–100	1 surface	SGDN100 ^①
		3R	RGDN100
		12	JGDN100
		12K	DGDN100
		4/4X, 5 stainless steel	WGDN100
EHD, FD, FDB, HFD	15–100	1 surface	SFDN100
		1 flush	FFDN100
		3R	RFDN100
		12	JFDN100
		12K	DFDN100
		4/4X, 5 stainless steel	WFDN100
EHD, FD, FDB	15–50	7/9 cast aluminum	XFDN050B
HFD, FDC	60–225 ^②	7/9 cast aluminum	XFDN225B
FD, FDB, HFD, ED, EDH, EDC, FDC (15–225A)	125–225	1 surface	SFDN225
		1 flush	FFDN225
		3R	RFDN225
		12	JFDN225
		12K	DFDN225
		4/4X, 5 stainless steel	WFDN225
JD, JDB, HJD, JDC	125–250	1 surface	SJDN250
		1 flush	FJDN250
		3R	RJDN250
		12	JJDN250
		12K	DJDN250
		4/4X, 5 stainless steel	WJDN250
JD, JDB, HJD, JDC	125–250	7/9 cast aluminum	XJDN250B

Notes

- ^① Suitable for use with single-pole breaker. Base mounting plate kit. QCCBP required.
- ^② Maximum wire size: 4/0.
- ^③ Can be field converted to NEMA Type 3R.