

Enclosed Circuit Breakers



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Enclosed Circuit Breakers

Product Description

- 15–1200A
- Enclosed device used to open and close a circuit

Application Description

NEMA 1 General Purpose

Surface or Flush Mounting 15–1200A, 600 Vac, 500 Vdc

NEMA 1 enclosed breakers are designed for indoor use in commercial buildings, apartment buildings and other areas where a general purpose enclosure is applicable. The breaker is front operable and is capable of being padlocked in the OFF position. Ratings through 1200A are listed with Underwriters Laboratories as suitable for service entrance application. Both surface and flush mounted enclosures are available.



NEMA 1 General Purpose

NEMA 3R Rainproof Surface Mounting ^①

Interchangeable Hubs (through 400A) 15–1200A, 600 Vac, 500 Vdc

This general purpose outdoor service center employs a circuit breaker inside a weatherproof sheet steel enclosure to serve as a main disconnect and protective device for feeder circuits. The breaker is front operable and is capable of being padlocked in the OFF position. Ratings through 1200A are listed by Underwriters Laboratories as suitable for service entrance application.



NEMA 3R Rainproof Surface Mounting

Note

^① SFDN enclosed breakers do not have a door interlock to prevent door from being opened when breaker is "ON."

NEMA 4/4X, 5 Water and Dustproof

Stainless Steel—Type 304 Surface Mounting 15–1200A, 600 Vac, 500 Vdc

This enclosure meets NEMA 4/4X and 5 requirements for water and dustproof applications and has no knockouts or other openings. It is particularly well suited for use in dairies, borax mines, breweries, paper mills and other process industries. The operating handle can be padlocked in the OFF position, and is interlocked to prevent the door from opening when the breaker is ON. Ratings through 1200A are Underwriters Laboratories listed as suitable for service entrance application.



NEMA 4/4X Water and Dustproof

Cross-Reference

Enclosed Circuit Breaker Competitive Catalog Numbers

NEMA Rating	Catalog Number		Square D Enclosure	Square D Breaker	Siemens		General Electric	
	Eaton Enclosure	Eaton Breaker			Siemens Enclosure	Siemens Breaker	General Electric Enclosure	General Electric Breaker
1 surface	SGDN100	GHC3100	EHB125NS	EHB34100	—	—	—	—
1 flush	—	—	EHB125NF	EHB34100	—	—	—	—
3R	RGDN100	GHC3100	EHB125NRB	EHB34100	—	—	—	—
12	JGDN100	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
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	—	—
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	—	—	—	—	—	—
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
4/4X	WJDN250	JDB3250	KA225DS	KAL36250	FD6SS4	FXD63B250	TF225CS/SF250CS	TFJ236225WL
7/9	XJDN250B	—	KA225X	KAL36250	EC2	FXD63B250	—	—
9	—	—	KA225Y	KAL36250	—	—	—	—

Note

① Maximum wire size 4/0.

Product Selection

1. Use the data on **Page V2-T1-129** to determine type of enclosure required.
2. Use the data on **Page V2-T1-123** and **V2-T1-124** to determine circuit breaker required.
3. **Pages V2-T1-125** through **V2-T1-131** include rough-in dimensional information.

Enclosure Only—Series C Breakers

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
		4/4X, 5 stainless steel	WGDN100
EHD, FD, FDB, HFD, ED, EDH, EDB, EDS, FDC, FDE, HFDE, HFDDC	15–100	1 surface	SFDN100
		1 flush	FFDN100
		3R	RFDN100
		12	JFDN100
		4/4X, 5 stainless steel	WFDN100
EHD, FD, FDB, EHD, FD, FDB	15–50	7/9 cast aluminum	XFDN050B
		7/9 cast aluminum	XFDN225B
HFD, FDC, EHD, FD, FDB	60–225 ②	7/9 cast aluminum	XFDN225B
		1 surface	SFDN225
		1 flush	FFDN225
		3R	RFDN225
FD, FDB, HFD, ED, EDH, EDC, FDC (15–225 A) EDB, EDS, FDE, HFDE, FDCE, HFDDC	125–225	12	JFDN225
		4/4X, 5 stainless steel	WFDN225
		1 surface	SJDN250
		1 flush	FJDN250
JD, JDB, HJD, JDC	125–250	3R	RJDN250
		12	JJDN250
		4/4X, 5 stainless steel	WJDN250
		7/9 cast aluminum	XJDN250B
JD, JDB, HJD, JDC	125–250	7/9 cast aluminum	XJDN250B
		1 surface	SKDN400
		1 flush	FKDN400
		3R	RKDN400
KD, KDB, HKD, KDC, DK HKDB ③, CKD, CHKD, KDB, HKDDC	125–400	12	JKDN400
		4/4X, 5 stainless steel	WKDN400

Enclosure Only—Series C Breakers, continued

Breaker Frame	Breaker Ampere Range	Enclosure	
		NEMA Class	Catalog Number
Series C Breakers, continued			
KD, KDB, HKD, KDC, DK	125–400	7/9 cast aluminum	XKDN400B
		1 surface	SLG630
		3R	RLG630
		12	JLG630 ⑤
LGE, LGS, LGH	250–600	4/4X, 5 stainless steel	WLG630
		1 surface	SLDN600
		3R	RLDN600
		12	JLDN600
LD, LDB, HLD ④, HLDB, LDCB	300–600	4/4X, 5 stainless steel	WLDN600
		7/9 cast aluminum	XLDN600B
		7/9 cast aluminum	XMKN800B
		400–800	
LD, LDB, HLD	300–600	7/9 cast aluminum	XMKN800B
		400–800	
		1 surface	SNDN1200
		3R	RNDN1200
MDL, HMDL	400–1200	12	JNDN1200
		4/4X, 5 stainless steel	WNDN1200
		Molded Case Switches (w/ WK suffix)— MDL, MDLB, HMDL, HLDLC, ND, HND, HMDLDC	
		Molded Case Switches (w/ K suffix)— MPS	
Molded Case Switches (w/ SE suffix)— NGK	—	7/9 cast aluminum	XNDN1200B

Enclosure Only—Series G Breakers

Breaker Frame	Breaker Ampere Range	Enclosure	
		NEMA Class	Catalog Number
Series G Breakers			
LGE, LGS, LGH	250–600	1 surface	SLG630 ⑥
		3R	RLG630 ⑥
		12	JLG630 ⑥
		4/4X, 5 st. steel	WLG630 ⑥
NG, NGS, NGH	320–1200	1 surface	SNDN1200
		3R	RNDN1200
		12	JNDN1200
		4/4X, 5 st. steel	WNDN1200

Notes

- ① Suitable for use with single-pole breaker. Base mounting plate kit. QCCBP required.
- ② Maximum wire size: 4/0.
- ③ Not applicable for XKDN400B.
- ④ Short-circuit ratings are limited for high interrupting rated breakers. Refer to **Page V2-T1-123**.
- ⑤ Can be field converted to NEMA Type 3R.
- ⑥ Three- or four-pole.