



EXB-NFD, EXB-FDS SERIES

DISCONNECT SWITCHES • 3 POLE / NON-FUSIBLE & FUSIBLE



FEATURES-SPECIFICATIONS

Applications

EXP-NFD and EXB-FDS Series hinged cover disconnect switches are used:

- In locations made hazardous due to the presence of flammable gasses or vapors or ignitable dusts, fibers and flyings.
- Outdoors or indoors in damp, wet and dirty locations, or in areas where frequent washdowns, heavy rain or water spray routinely occurs.
- Use as motor circuit disconnect and to provide short circuit protection (fused version) of lighting and power circuits.

Features

- Copper-free aluminum construction, high strength, lighter in weight and corrosion resistant.
- Fewer cover bolts (no corner bolts required) reduces installation and maintenance time. Cover bolts are stainless steel.
- Gasketed flange with O-ring located in side bolt circle to seal out moisture.
- Stainless steel hinges are standard.
- Switch operating handle of copperfree aluminum can be padlocked, with up to 3 locks, in either the "ON" or "OFF" position.
- Ductile mounting lugs adjust to irregular mounting surfaces.
- Bodies have top and bottom drilled and tapped conduit entrances for power and drain/breather.
- Global applications (ATEX) Enclosures are available for global applications with "CEN" suffix. Assemblies that are modified to CENELEC/ATEX standards maintain their North American certifications**

- UL** #UL886 - Outlet Boxes and Fittings for use in Hazardous (Classified) Locations. File #E10514 cer
 - UL** #UL698 & #UL1203 - Explosion Proof and Dust Ignition Proof Electrical Equipment. Files #E83969 & E12379
 - SP** #C22.2 No. 30-M1986 - Explosion Proof Enclosure for use in Class I Hazardous Locations. File #LR11716
- CENELEC II 2 GD
PTB 07 ATEX 1025U (Empty Housing)
PTB 07 ATEX 1024x (Enclosure with Controls)
IEC Ex 07.0022U
IEC Ex 07.0023

ATEX / IEC Ex Certified

Class I, Div. 1 & 2, Groups B¹, C, D
Class I, Zones 1 & 2, Groups IIB + H₂, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III, Div. 1 & 2 ENCL TYPE 3, 4, 4X
NEMA 3, 4, 4X², 7 (B, C, D), 9 (E, F, G)
CENELEC/ATEX/IEC Ex
Ex d IIB + H₂ T5 or T6
Ex tD A21 IP66
Tamb ≤ + 60°C



EXB-NFD NON FUSED DISCONNECT SWITCHES

CATALOG NUMBER	SWITCH RATING	TYPE	CONDUITS TOP/ BOT.	WIRE SIZE	EST. ENCL. WT (LBS)	KG
EXB-NFD-0303P	30	3 Pole	(1) 1-1/2" (1) 1/2"	#14-4	40.0	(18.14)
EXB-NFD-0306P	30	6 Pole	(2) 2" (1) 1/2"	#14-4	41.0	(18.59)
EXB-NFD-0303PDT	30	3P Double Throw	(2) 2" (1) 1/2"	#14-4	41.0	(18.59)
EXB-NFD-0603P	60	3 Pole	(1) 2" (1) 1/2"	#14-4	40.0	(18.14)
EXB-NFD-0606P	60	6 Pole	(2) 2" (1) 1/2"	#14-4	42.0	(19.05)
EXB-NFD-0603PDT	60	3P Double Throw	(2) 2" (1) 1/2"	#14-4	41.0	(18.59)
EXB-NFD-1003P	100	3 Pole	(1) 2" (1) 1/2"	#8- 1/0	48.0	(21.77)
EXB-NFD-1006P	100	6 Pole	(2) 2" (1) 1/2"	#8-1/0	50.0	(22.67)
EXB-NFD-1003PDT	100	3P Double Throw	(2) 2" (1) 1/2"	#8-1/0	48.0	(21.77)
EXB-NFD-2003P	200	3 Pole	(1) 3" (1) 1/2"	#4-300MCM	170.0	(77.11)
EXB-NFD-4003P	400	3 Pole (2)	(2) 3" (1) 1/2"	#2-600MCM	241.0	(109.31)

EXB-FDS FUSED DISCONNECT SWITCHES (Type J Fuses)

CATALOG NUMBER	SWITCH RATING	TYPE	CONDUITS TOP/ BOT.	WIRE SIZE	EST. ENCL. WT. LBS (KG)
EXB-FDS-0303P	30	3 Pole	(1) 2" (1) 1/2"	#14-4	40.0 (18.14)
EXB-FDS-0603P	60	3 Pole	(1) 2" (1) 1/2"	#14-4	82.0 (37.18)
EXB-FDS-1003P	100	3 Pole	(1) 2" (1) 1/2"	#14-2/0	130.0 (58.96)
EXB-FDS-2003P	200	3 Pole	(1) 3" (1) 1/2"	#4-300MCM	170.0 (77.11)
EXB-FDS-4003P	400	3 Pole	(2) 3" (1) 1/2"	#2-600MCM	425.0 (192.77)

- ABB** Switches are used on all 30 to 400 Ampere assemblies.
- For Horsepower Ratings and Dimensions, see page DE11.
- Disconnect Switches suitable for type 'J' fuses only.

Standard Materials/Finish

- Enclosures: Copper-free aluminum (less than 4/10 of 1% copper content)
- Hinges and Cover Bolts: Stainless steel
- Aluminum lacquer paint finish

Electrical Rating Ranges

- 600 VAC
- 30, 60, 100, 200 and 400 Amp

Consult Factory for special conduit layouts

MODIFICATIONS

SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU-3B-4X	Drain/Breather NEMA 4X/7 B,C,D
SU-10B-4X	Drain NEMA 4X/7 B,C,D
SU-11B-4X	Breather NEMA 4X/7 B,C,D
SU9	Special Paint Finish
4P	4th pole 30, 60, 100A - 3 pole only*
A	1 NC+1NO Auxiliary
AA	2 NC+2NO Auxiliary
CEN	ATEX/IEC Ex d
SN2	Solid Neutral



EXB-NFD, EXB-FDS SERIES

EXB-NFD ELECTRICAL RATINGS													
SWITCH AMPERES	MAXIMUM KW / HORSEPOWER SINGLE PHASE			MAXIMUM KW / HORSEPOWER - 3 PHASE									
UL508 & IEC													
UL508	120 VAC	200 VAC	240 VAC	200 VAC	208 VAC		240 VAC			480 VAC		600 VAC	
IEC						220 VAC		400 VAC	415 VAC		500 VAC		690 VAC
16	1 HP	2 HP	2 HP	3 HP	3 HP	3 KW	5 HP	7.5 KW	7.5 KW	10 HP	7.5 KW	10 HP	7.5 KW
25	1.5 HP	3 HP	3 HP	7.5 HP	7.5 HP	4 KW	7.5 HP	9 KW	9 KW	15 HP	9 KW	20 HP	9 KW
32	2 HP	5 HP	5 HP	10 HP	10 HP	5.5 KW	10 HP	11 KW	11 KW	20 HP	11 KW	25 HP	11 KW
63	2 HP	5 HP	5 HP	15 HP	15 HP	11 KW	15 HP	22 KW	22 KW	30 HP	22 KW	30 HP	11 KW
80	2 HP	5 HP	5 HP	20 HP	20 HP	22 KW	20 HP	37 KW	37 KW	40 HP	37 KW	40 HP	18.5 KW
UL98 & IEC													
UL98	120 VAC	200 VAC	240 VAC	200 VAC	208 VAC		240 VAC			480 VAC		600 VAC	
IEC						220 VAC		400 VAC	415 VAC		500 VAC		690 VAC
30	2 HP	5 HP	5 HP	10 HP	10 HP	7.5 KW	7.5 HP	15 KW	15 KW	15 HP	15 KW	20 HP	15 KW
60	3 HP	5 HP	7.5 HP	20 HP	20 HP	11 KW	20 HP	18.5 KW	18.5 KW	40 HP	18.5 KW	40 HP	15 KW
100	5 HP	15 HP	15 HP	25 HP	25 HP	22 KW	30 HP	37 KW	37 KW	50 HP	37 KW	50 HP	37 KW
200	NA	NA	NA	NA	NA	75 KW	75 HP	132 KW	132 KW	150 HP	170 KW	200 HP	240 KW
400	NA	NA	NA	NA	NA	110 KW	125 HP	220 KW	220 KW	250 HP	280 KW	350 HP	355 KW

EXB-FDS ELECTRICAL RATINGS													
SWITCH AMPERES	MAXIMUM HORSEPOWER - THREE PHASE-3 POLE			MAXIMUM KW / HORSEPOWER - 3 PHASE									
UL98 & IEC													
UL98	120 VAC	200 VAC	240 VAC	200 VAC	208 VAC		240 VAC			480 VAC		600 VAC	
IEC						220 VAC		400 VAC	415 VAC		500 VAC		690 VAC
30	2 HP	3 HP	5 HP	5 HP	7.5 HP	7.5 KW	7.5 HP	15 KW	15 KW	15 HP	15 KW	20 HP	25 KW
60	3 HP	5 HP	10 HP	15 HP	15 HP	11 KW	15 HP	30 KW	30 KW	30 HP	30 KW	50 HP	60 KW
100	5 HP	10 HP	15 HP	25 HP	25 HP	22 KW	30 HP	90 KW	90 KW	60 HP	37 KW	75 HP	130 KW
200	NA	NA	NA	50 HP	50 HP	75 KW	60 HP	90 KW	90 KW	125 HP	170 KW	150 HP	200 KW
400	NA	NA	NA	100 HP	100 HP	110 KW	125 HP	230 KW	230 KW	250 HP	230 KW	350 HP	400 KW

EXB-NFD DIMENSIONS												
AMP RATING	BASIC ENCLOSURE	A	B	C	D	E	F	G	NEC STANDARD CONDUIT OUTLETS		IEC STANDARD CONDUIT OUTLETS	
									TOP	BOTTOM	TOP	BOTTOM
16/20	EXB-664 N34 SU1	10.32 (262)	10.32 (262)	6.09 (155)	4.00 (102)	2.75 (70)	6.50 (165)	6.50 (165)	1" NPT	1" NPT	M25	M25
25/30	EXB-664 N34 SU1	10.32 (262)	10.32 (262)	6.09 (155)	4.00 (102)	2.75 (70)	6.50 (165)	6.50 (165)	1" NPT	1" NPT	M25	M25
32/40	EXB-664 N34 SU1	10.32 (262)	10.32 (262)	6.09 (155)	4.00 (102)	2.75 (70)	6.50 (165)	6.50 (165)	1" NPT	1" NPT	M25	M25
63/60	EXB-664 N34 SU1	10.32 (262)	10.32 (262)	6.09 (155)	4.00 (102)	2.75 (70)	6.50 (165)	6.50 (165)	1 1/2" NPT	1 1/2" NPT	M40	M40
80/80	EXB-886 N34 SU1	12.3125 (313)	12.3125 (313)	8.00 (203)	9.875 (251)	3.8125 (97)	8.125 (206)	9.4375 (240)	2" NPT	2" NPT	M50	M50
16/30/60	EXB-886 N34 SU1	12.3125 (313)	12.3125 (313)	8.00 (203)	9.875 (251)	3.8125 (97)	8.125 (206)	9.4375 (240)	1 1/2" NPT	1 1/2" NPT	M40	M40
100	EXB-8106 N34 SU1	14.3125 (364)	12.3125 (313)	8.00 (203)	9.875 (251)	3.875 (98)	8.3125 (211)	8.625 (219)	2" NPT	2" NPT	M50	M50
200	EXB-12248 N34 SU1	28.375 (721)	16.375 (416)	18.875 (479)	15.9375 (405)	5.375 (137)	11.9375 (303)	12.625 (321)	3" NPT	3" NPT	M63	M63
400	EXB-12368 N34 SU1	41.25 (1048)	17.25 (438)	31.00 (787)	15.00 (381)	5.1875 (81)	11.375 (289)	12.6875 (322)	(2) 3" NPT	(2) 3" NPT	(2) M63	(2) M63

EXB-FDS DIMENSIONS												
AMP RATING	BASIC ENCLOSURE	A	B	C	D	E	F	G	NEC STANDARD CONDUIT OUTLETS		IEC STANDARD CONDUIT OUTLETS	
									TOP	BOTTOM	TOP	BOTTOM
30	EXB-8106 N34 SU1	14.3125 (364)	12.3125 (313)	8.00 (203)	9.875 (251)	3.875 (98)	8.9375 (227)	9.625 (244)	2" NPT	2" NPT	M40	M40
60	EXB-10106 N34 SU1	15.25 (387)	15.25 (387)	14.9375 (379)	12.9375 (329)	5.062 (129)	10.9375 (278)	12.25 (311)	2" NPT	2" NPT	M40	M40
100	EXB-12188 N34 SU1	22.375 (568)	16.375 (416)	12.875 (327)	14.9375 (379)	5.375 (137)	11.0625 (281)	12.375 (314)	2" NPT	2" NPT	M50	M50
200	EXB-12248 N34 SU1	28.375 (721)	16.375 (416)	18.875 (479)	14.9375 (379)	5.375 (137)	11.9375 (303)	13.375 (340)	3" NPT	3" NPT	M63	M63
400	EXB-18368 N34 SU1	40.375 (1026)	22.375 (568)	31.50 (800)	21.25 (546)	14.375 (365)	14.375 (365)	16.50 (419)	(2) 3" NPT	(2) 3" NPT	(2) M63	(2) M63

