



COMPACT NON-FUSED DISCONNECT SWITCHES



B7NFD1



B7NFD2

Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+ H₂, IIA
Class II, Div. 1 & 2, Groups E, F, G¹
Class III
NEMA 3, 4, 4X, 7 (B, C, D) 9 (E, F, G)



Certified - File LR11714

FEATURES-SPECIFICATIONS

Applications

The PRISM® B7 Series of non-fused 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.

PRISM® enclosures universal design accomodates the following manufacturers switches as standard:

- Advance Controls 14046 Series
- Allen-Bradley 194E Series (B7NFD1 only)
- ABB OT Series
- Cutler-Hammer R9 Series
- Sprecher + Schuh LA7 Series
- Ferraz Shawmut LBS Series

Advance Controls © Advance Controls Inc.
 Allen-Bradley © Rockwell Automation
 ABB © The ABB Group
 Cutler-Hammer © Eaton Corporation
 Sprecher + Schuh © Sprecher + Schuh

Features

- Compact size enclosures provide application flexibility with cost savings over industry standard sizes
- Fewer cover bolts reduces installation and maintenance time
- Gasketed flange with O-ring located in side bolt circle to seal out moisture
- Rotary handle style operating mechanism with lockout provision as standard
- Removable ductile mounting lugs adjust to irregular mounting surfaces
- Bodies have top and bottom drilled and tapped conduit entrances for power connection, with custom openings available
- ABB UL98 certified switch supplied for 30-100 Amp units

Standard Materials /Finish

- Enclosures: Copper-free aluminum (less than 4/10 of 1% copper content)
- Cover Bolts: 316 Stainless Steel
- O-ring Gasket: Silicone

- Finish: Grey Powder Polyester painted exterior, electrostatically applied.
- Electrical rating: 600VAC, 30 - 100 Amp

ADAPTER KIT

- Required for Allen-Bradley and Sprecher + Schuh disconnects Order separately B7KIT - NRW

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
SU-2	SU-2 Hinge-9 Installed
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
A*	1 NC+1NO Auxiliary
B7SPNPT	Change std. conduit size and location
SU14	Fungus proofing of enclosures

* NOTE: Only one auxillary contact (Form C) will fit.

COMPACT NON-FUSED DISCONNECT SWITCHES											
CATALOG NUMBER		SWITCH RATING IEC/NEC		SINGLE PHASE HP		THREE PHASE HP				TERMINAL LUG SIZE (MM/AWG)	WEIGHT (KG/LBS)
ENCLOSURE ONLY	W/ABB SWITCH	AMPS	PHASE	120 VAC	230 VAC	208 VAC	230 VAC	480 VAC	600 VAC		
UL508 & IEC - Suitable for use in equipment or machinery as motor controllers & motor disconnect and are horsepower and ampere rated.											
B7NFD1	B7NFD16A	16/20	3	1	2	3	5	10	10	.75 - 10mm / #18 - 8 AWG	4.98 / 11
B7NFD1	B7NFD25A	25/30	3	1.5	3	7.5	7.5	15	20	.75 - 10mm / #18 - 8 AWG	4.98 / 11
B7NFD1	B7NFD32A	32/40	3	2	5	10	10	20	25	.75 - 10mm / #18 - 8 AWG	4.98 / 11
B7NFD1	B7NFD63A	63/60	3	2	5	15	15	30	30	1.5 - 35mm / #14 - 2 AWG	4.98 / 11
B7NFD2	B7NFD80A	80/80	3	2	5	20	20	40	40	1.5 - 35mm / #14 - 2 AWG	10.53 / 23.2
UL 98 & IEC - Suitable for use as motor disconnects or industrial control panel disconnects on service entrance equipment, panelboards, switchboards, industrial control equipment, motor control centers, etc. and are horsepower rated and ampere rated.											
B7NFD1	B7NFD13A	40/30	3	2	5	10	10	20	30	2.5 - 25mm / #14 - 4 AWG	4.98 / 11
B7NFD2	B7NFD26A	63/60	3	3	7.5	20	20	40	40	2.5 - 25mm / #14 - 4 AWG	10.53 / 23.2
B7NFD2	B7NFD26A	100/100	3	5	15	25	30	50	50	10 - 70mm / #8 - 2/0 AWG	10.53 / 23.2

** Use MN. 75°C wire

ENCLOSURE	DIMENSIONS										
	OUTSIDE BOX DIMENSIONS (INCH/MM)			NOMINAL INSIDE BOX (INCH/MM)			MOUNTING DIMENSION (INCH/MM)				
	A	B	C	D	E	F	G	H	I	J	K
B7NFD1	5.75 (145)	8.0625 (205)	6.3125 (160)	3.625 (92)	5.8125 (148)	5.0625 (129)	3.125 (79)	8.125 (206)	NA	NA	1.25 (32)
B7NFD2	8.125 (206)	13.0625 (332)	7.8125 (198)	4.25 (108)	9.1875 (233)	6.3125 (160)	2.50 (64)	11.375 (289)	6.375 (162)	7.50 (191)	1.8125 (46)

