



**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,G<sup>®</sup>  
Class III  
NEMA 3, 4, 4X, 7(B,C,D) 9(E,F,G)

Certified - File LR11714

### FEATURES-SPECIFICATIONS

#### Applications

The PRISM<sup>®</sup> 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<sup>®</sup> 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 C362N Series
- Sprecher + Schuh LA7 Series
- Ferraz Shawmut LBS Series

Advance Controls © Advance Controls Inc.  
Allen-Bradley © Rockwell Automation  
ABB © Tne 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

#### ADAPTER KIT

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

#### 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

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
SU-2	Hinge-9 Installed
SU3*	Drain & Breather installed (NEMA 7CD)
SU3B*	Drain & Breather installed (NEMA 7BCD)
SU9	Special paint finish
A	1 NC+1NO Auxiliary
B7SPNPT	Change std. conduit size and location
SU14	Fungus proofing of enclosures

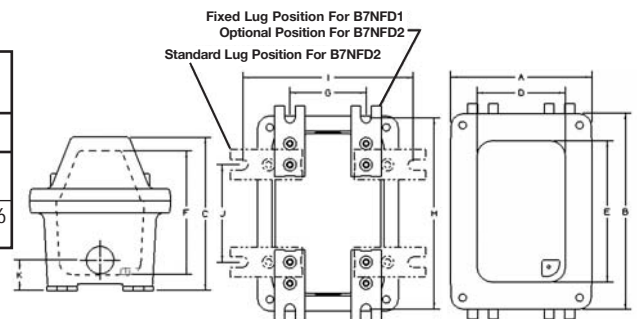
\*NOTE: The installation of a Drain & Breather will void the NEMA 4-4X ratings of enclosure.

CATALOG NUMBER		SWITCH AMPS / PHASE	SINGLE PHASE HP				THREE PHASE HP				DC HP 230VDC	WIRE SIZE**	CONDUIT SIZES
ENCLOSURE ONLY	W/ABB		120VAC	230VAC	208VAC	230VAC	480VAC	600VAC					
B7NFD1	B7NFD13A	30 / 3P	2	5	10	10	20	30	1	#14-10	1 NPT		
B7NFD2	B7NFD26A	60 / 3P	3	7.5	20	20	40	40	10	#14-4	1-1/2 NPT		
B7NFD2	B7NFD21A	100 / 3P	5	15	25	30	50	50	20	#8-1	1-1/2 NPT		

\*\* Use MN. 75°C wire

#### DIMENSIONS

Enclosure	OUTSIDE BOX DIMENSIONS			NOMINAL INSIDE BOX			MOUNTING DIMENSIONS				
	A	B	C	D	E	F	G	H	I	J	K
B7NFD1	5-3/4	8-1/16	6-5/16	3-5/8	5-13/16	5-1/16	3-1/8	8-1/8	-	-	1-1/4
B7NFD2	8-1/8	13-1/16	7-13/16	4-1/4	9-3/16	6-5/16	2-1/2	11-3/8	6-3/8	7-1/2	1-13/16



**KILLARK<sup>®</sup>**



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**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

**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 copper-free 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.
- **ABB** Switches are used on all 30 to 400 Ampere assemblies.
- For Horsepower Ratings and Dimensions, see page DE10.
- Disconnect Switches suitable for type 'J' fuses only.

EXB-NFD NON FUSED DISCONNECT SWITCHES				
CATALOG NUMBER	SWITCH RATING	TYPE	CONDUITS top/bot.	WIRE SIZE
EXB-NFD-0303P	30	3 Pole	(1) 2" (1) 1/2"	#14-4
EXB-NFD-0306P	30	6 Pole	(2) 2" (1) 1/2"	#14-4
EXB-NFD-0303PDT	30	3P Double Throw	(2) 2" (1) 1/2"	#14-4
EXB-NFD-0603P	60	3 Pole	(1) 2" (1) 1/2"	#14-4
EXB-NFD-0606P	60	6 Pole	(2) 2" (1) 1/2"	#14-4
EXB-NFD-0603PDT	60	3P Double Throw	(2) 2" (1) 1/2"	#14-4
EXB-NFD-1003P	100	3 Pole	(1) 2" (1) 1/2"	#8- 1/0
EXB-NFD-1006P	100	6 Pole	(2) 2" (1) 1/2"	#8-1/0
EXB-NFD-1003PDT	100	3P Double Throw	(2) 2" (1) 1/2"	#8-1/0
EXB-NFD-2003P	200	3 Pole	(1) 3" (1) 1/2"	#4-300MCM
EXB-NFD-4003P	400	3 Pole	(2) 3" (1) 1/2"	#2-600MCM

EXB-FDS FUSED DISCONNECT SWITCHES (Type J Fuses)				
CATALOG NUMBER	SWITCH RATING	TYPE	CONDUITS top/bot.	WIRE SIZE
EXB-FDS-0303P	30	3 Pole	(1) 2" (1) 1/2"	#14-4
EXB-FDS-0603P	60	3 Pole	(1) 2" (1) 1/2"	#14-4
EXB-FDS-1003P	100	3 Pole	(1) 2" (1) 1/2"	#14-2/0
EXB-FDS-2003P	200	3 Pole	(1) 3" (1) 1/2"	#4-300MCM
EXB-FDS-4003P	400	3 Pole	(2) 3" (1) 1/2"	#2-600MCM

**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 and ATEX requirements**

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3*	Drain/Breather install NEMA 7CD
SU3B*	Drain/Breather install NEMA 7BCD
SU9	Special Paint Finish
4P	4th pole 30, 60, 100A - 3 pole only*
A	1 NC+1NO Auxiliary
AA	2 NC+2NO Auxiliary


*NOTE: The installation of a Drain & Breather will void the NEMA 4-4X ratings of enclosure.  
\*non-fused*




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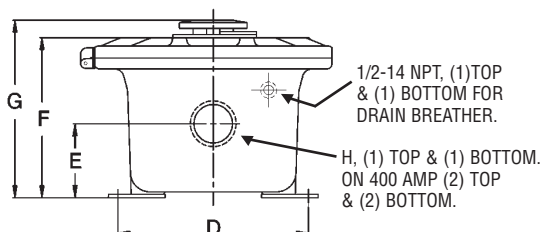
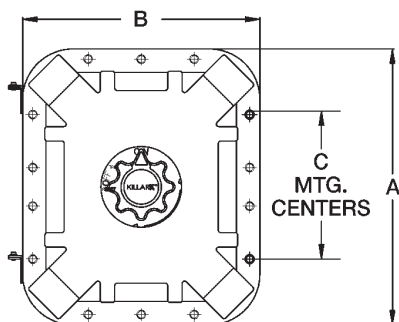


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### FEATURES-SPECIFICATIONS



EXB-NFD ELECTRICAL RATINGS					
SWITCH AMPERES	MAXIMUM HORSEPOWER - THREE PHASE-3 POLE				
	200-208 VAC	240 VAC	480 VAC	600 VAC	230 VAC
30	10	10	20	30	1
60	20	20	40	40	10
100	25	30	50	50	20
200	60	75	150	200	75
400	100	125	250	350	150

EXB-FDS ELECTRICAL RATINGS					
SWITCH AMPERES	MAXIMUM HORSEPOWER - THREE PHASE-3 POLE				
	200-208 VAC	240 VAC	480 VAC	600 VAC	230 VDC
30	5.75	7.5	15	20	7.5
60	15	15	30	50	20
100	25	30	50	60	50
200	50	60	125	150	60
400	100/125	125	250	350	150

EXB-NFD DIMENSIONS									
AMP RATING	BASIC ENCLOSURE	A	B	C	D	E	F	G	CONDUIT SIZE H
30/60	EXB-886 N34 SU1	12-5/16	12-5/16	6	9-7/8	3-13/16	8-1/8	9-7/16	2"
100	EXB-8106 N34 SU1	14-5/16	12-5/16	8	9-7/8	3-7/8	8-5/16	9-5/8	2"
200	EXB-12248 N34 SU1	28-3/8	16-3/8	18-7/8	14-15/16	5-3/8	11-5/16	12-5/8	3"
400	EXB-12368 N34 SU1	41-1/4	17-1/4	31	15	5-3/16	11-3/8	12-11/16	(2) 3"

EXB-FDS DIMENSIONS									
AMP RATING	BASIC ENCLOSURE	A	B	C	D	E	F	G	CONDUIT SIZE H
30	EXB-8106 N34 SU1	14-5/16	12-5/16	8	9-7/8	3-7/8	8-15/16	9-5/8	2"
60	EXB-10108 N34 SU1	15-1/4	15-1/4	14-15/16	12-15/16	5-1/16	10-15/16	12-1/4	2"
100	EXB-12188 N34 SU1	22-3/8	16-3/8	12-7/8	14-15/16	5-3/8	11-1/16	12-3/8	2"
200	EXB-12248 N34 SU1	28-3/8	16-3/8	18-7/8	14-15/16	5-3/8	11-15/16	13-3/8	3"
400	EXB-183610 N34 SU1	40-3/8	22-3/8	31-1/2	21-1/4	14-3/8	14-3/8	16-1/2	(2) 3"

