

EXPB3 Series

Power Panelboard





EXPB3 POWER PANELBOARD

EXPB3™



EXPB
Panelboard

NEC / CEC Certifications

NEC / CEC Certifications

Class I, Groups B, C & D

Class I, Zone 1, AEx d IIB+H2

Class II, Groups E, F & G

Class III

Type 3, 4, 4X

Ta = -60°C to +70°C (UL & CSA) T5 or T6



Files E83969



File LR11713

NOTE: Non-factory seal is available as QUAD labeled.



II 2 GD CE 0518

PTB 07 ATEX 1024 (Enclosure with Controls)

IEC Ex 07.0022U

IEC Ex 07.0023

FEATURES-SPECIFICATIONS

Features

- All hardware is stainless steel, cover bolts are quick release Tri-Lead.
- All circuit breaker are pad lockable in the "ON" or "OFF" position for up to three padlocks (to allow ease of lock out - tag out capabilities).
- Operating Temperature of -0°C to +40°C
- Silver plated copper bus panelboard interiors are standard with dead front trim plate for safety.
- Available as non-factory sealed or factory sealed.
- Factory sealed has a stainless steel wiring chamber set up for bottom entry.
- Line and Load connections are pre-wired for ease of installation on factory sealed version.

Materials

Breaker Enclosure

- Cast copper free aluminum (less than 4/10th of 1%). Finish aluminum wet lacquer paint.
- Main Breaker Handle: Copper-free aluminum.
- Flange Gasket "O" Ring: Bunna-N-Nitrile.
- Branch Breaker Operators: Valox Thermoplastic Polyester handle molded onto 316 stainless steel shaft with neoprene "O" ring.
- Hinges: Copper-free aluminum with stainless steel pin and hardware.
- Mounting Lugs: 1/4" thick aluminum.
- Consult factory for single and two pole spacing.

Wiring Enclosure

- Type 316 Stainless Steel, 14 Gauge. Killark USF style enclosure suitable for direct entry via hub or cable gland knockouts. Cable gland plates are available upon request.
- Quarter turn 316 stainless steel latch.

- Sloped cover opening to eliminate ice build-up.
- Concealed hinge.
- External/Internal earthing stud.
- Type 4X one piece gasket.
- Ground bus.
- Neutral bus, optional if required.

Electrical Rating

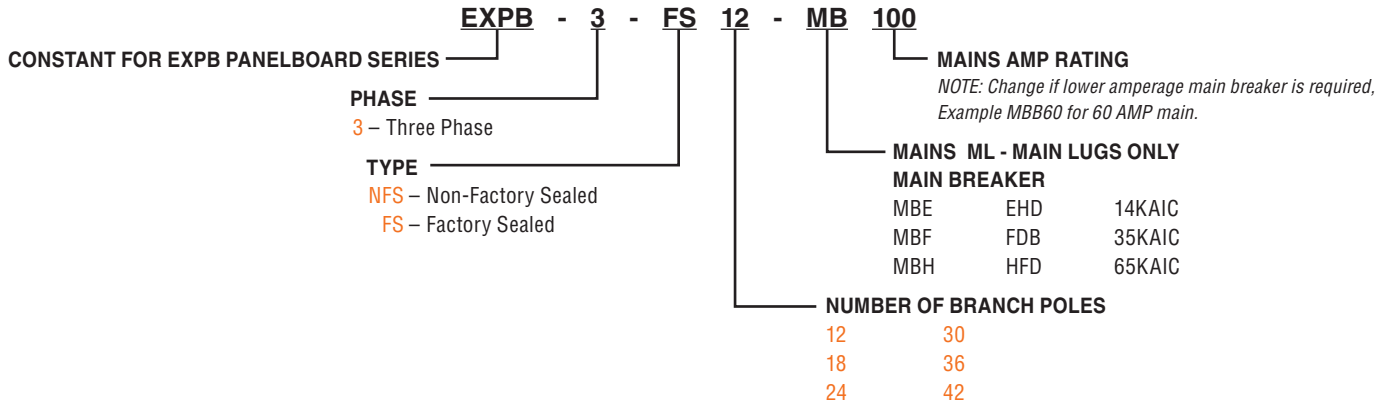
- 480 VAC, 3 Phase, 3 or 4 Wire
- 600 VAC, 3 Phase, 3 or 4 Wire
- 50/60 Hz
- 14K, 35K or 65K AIC Optional

DISTRIBUTION

EXPB3 POWER PANELBOARD



CATALOG LOGIC



EXPB3 FACTORY SEALED POWER PANELBOARD

MAIN LUG ONLY

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURE	MAIN WIRE RANGE	ENCLOSURE EXB	ENCLOSURE TERMINAL BOX
THREE PHASE 4 WIRE WITH SOLID NEUTRAL 480 VAC 250 VDC	12	100	EXPB3-FS-312-ML100	#14AWG-2/0	EXB-18368 N34	USF181808
	18	225	EXPB3-FS-318-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808
	24	225	EXPB3-FS-324-ML225	#6AWG-350MCM	EXB-18368 N34	USF242408
	30	225	EXPB3-FS-330-ML225	#6AWG-350MCM	EXB-24368 N34	USF242408
	36	225	EXPB3-FS-336-ML225	#6AWG-350MCM	EXB-24368 N34	USF242408
	42	225	EXPB3-FS-342-ML225	#6AWG-400MCM	EXB-24368 N34	USF242408

MAIN CIRCUIT BREAKER (MCCB)

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN CIRCUIT BREAKER		CATALOG NUMBER BASIC ENCLOSURE	INCOMING MAIN WIRE RANGE	ENCLOSURE EXB	ENCLOSURE TERMINAL BOX
		FRAME	AMPS				
THREE PHASE 4 WIRE WITH SOLID NEUTRAL 480 VAC 250 VDC	12	EHD	100	EXPB3-FS-312-MB100	#14AWG - 1/0	EXB-18368 N34	USF181808
	18	FD	225	EXPB3-FS-318-MB225	#4AWG - 4/0	EXB-18368 N34	USF 181808
	24	FD	225	EXPB3-FS-324-MB225	#4AWG - 4/0	EXB-24368 N34	USF181808
	30	FD	225	EXPB3-FS-330-MB225	#4AWG - 4/0	EXB-24368 N34	USF242408
	36	FD	225	EXPB3-FS-336-MB225	#4AWG - 4/0	EXB-24368 N34	USF242408
	42	FD	225	EXPB3-FS-342-MB225	#4AWG - 4/0	EXB-24368 N34	USF242408



EXPB3 POWER PANELBOARD

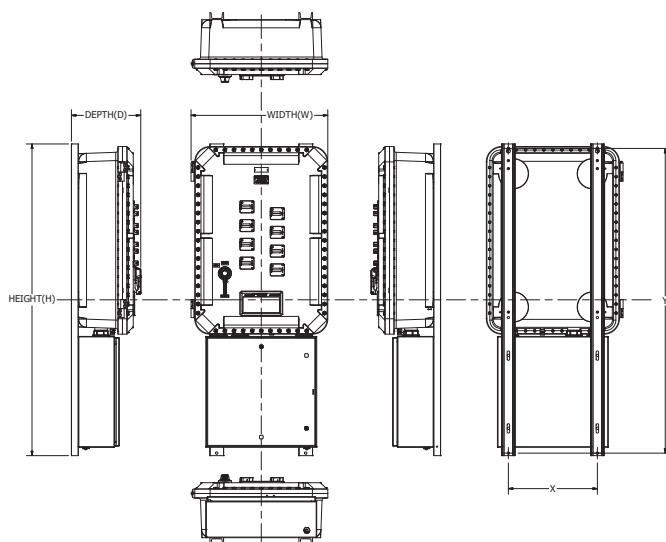
EXPB3 NON-FACTORY SEALED POWER PANELBOARD

MAIN LUG ONLY

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURE	MAIN WIRE RANGE	ENCLOSURE EXB
THREE PHASE 4 WIRE WITH SOLID NEUTRAL 480 VAC 250 VDC	12	100	EXPB3-NFS-312-ML100	#14AWG-2/0	EXB-18368 N34
	18	225	EXPB3-NFS-318-ML225	#6AWG-350MCM	EXB-18368 N34
	24	225	EXPB3-NFS-324-ML225	#6AWG-350MCM	EXB-18368 N34
	30	225	EXPB3-NFS-330-ML225	#6AWG-350MCM	EXB-24368 N34
	36	225	EXPB3-NFS-336-ML225	#6AWG-350MCM	EXB-24368 N34
	42	225	EXPB3-NFS-342-ML225	#6AWG-400MCM	EXB-24368 N34

MAIN CIRCUIT BREAKER (MCCB)

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN CIRCUIT BREAKER		CATALOG NUMBER BASIC ENCLOSURE	INCOMING MAIN WIRE RANGE	ENCLOSURE EXB
		FRAME	AMPS			
THREE PHASE 4 WIRE WITH SOLID NEUTRAL 480 VAC 250 VDC	12	EHD	100	EXPB3-NFS-312-MB100	#14AWG - 1/0	EXB-18368 N34
	18	FD	225	EXPB3-NFS-318-MB225	#4AWG - 4/0	EXB-18368 N34
	24	FD	225	EXPB3-NFS-324-MB225	#4AWG - 4/0	EXB-24368 N34
	30	FD	225	EXPB3-NFS-330-MB225	#4AWG - 4/0	EXB-24368 N34
	36	FD	225	EXPB3-NFS-336-MB225	#4AWG - 4/0	EXB-24368 N34
	42	FD	225	EXPB3-NFS-342-MB225	#4AWG - 4/0	EXB-24368 N34

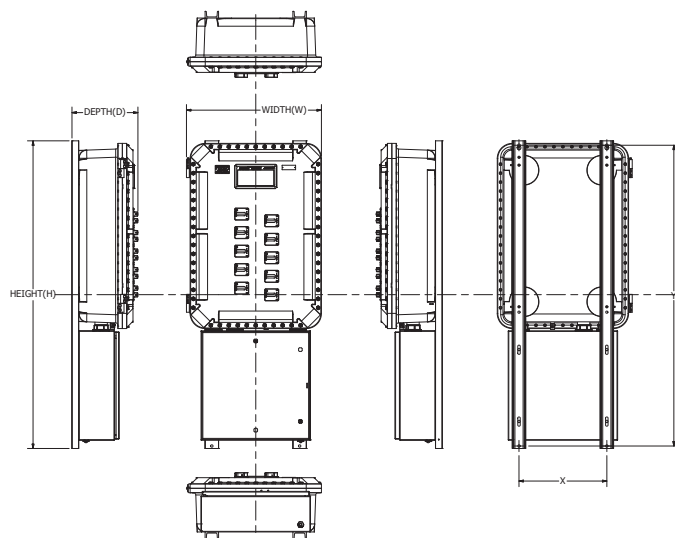


EXPB3FS-MB

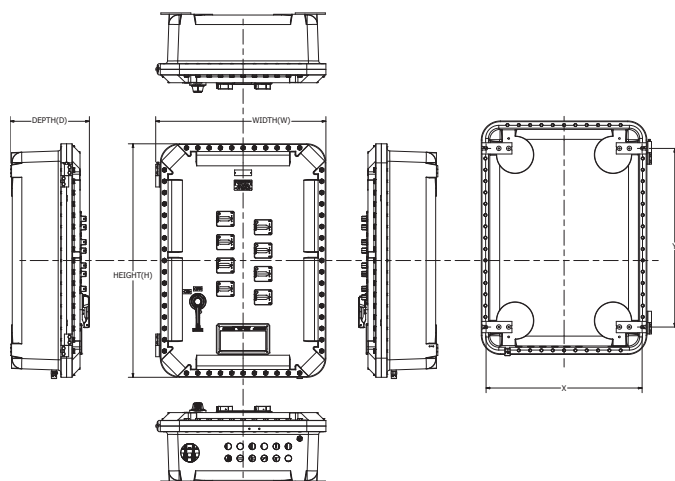
CIRCUITS	EXB	USF	OVERALL			MOUNTING	
			HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18368	USF-18188	63 (1600)	23.19 (589)	15.31 (389)	13.25 (337)	61.75 (1568)
18	EXB-18368	USF-18188	63 (1600)	23.19 (589)	15.29 (388)	13.25 (337)	61.75 (1568)
24	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	15.25 (387)	19.56 (497)	67 (1702)
30	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	15.25 (387)	19.56 (497)	67 (1702)
36	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	15.25 (387)	19.56 (497)	67 (1702)
42	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	15.25 (387)	19.56 (497)	67 (1702)

DISTRIBUTION

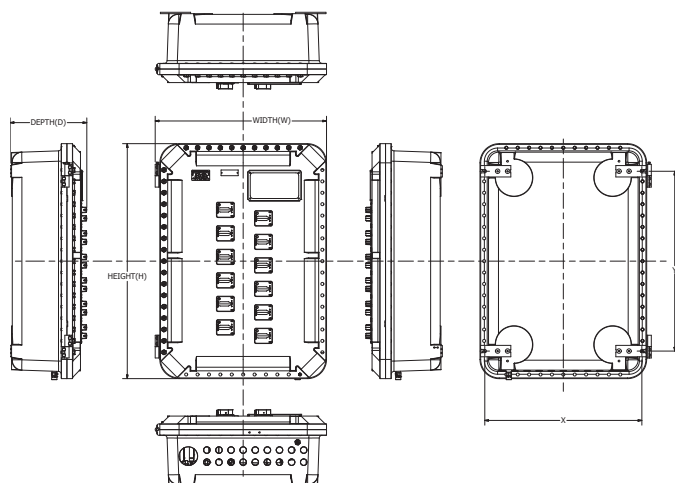
EXPB3 POWER PANELBOARD



EXPB3FS-ML							
CIRCUITS	EXB	USF	OVERALL			MOUNTING	
			HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18368	USF-18188	63 (1600)	23.19 (589)	14.76 (375)	13.25 (337)	61.75 (1568)
18	EXB-18368	USF-18188	63 (1600)	23.19 (589)	14.76 (375)	13.25 (337)	61.75 (1568)
24	EXB-18368	USF-24248	68.53 (1741)	24.38 (619)	14.76 (375)	13.25 (337)	67 (1702)
30	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	14.70 (373)	19.56 (497)	67 (1702)
36	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	14.70 (373)	19.56 (497)	67 (1702)
42	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	14.70 (373)	19.56 (497)	67 (1702)



EXPB3NFS-MB						
CIRCUITS	EXB	OVERALL			MOUNTING	
		HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18368	40.38 (1026)	23.19 (589)	14.06 (357)	21.25 (540)	31.50 (800)
18	EXB-18368	40.38 (1026)	23.19 (589)	14.06 (357)	21.25 (540)	31.50 (800)
24	EXB-24368	41.25 (1048)	30.06 (764)	14.00 (356)	27.56 (696)	31.56 (801)
30	EXB-24368	41.25 (1048)	30.06 (764)	14.00 (356)	27.56 (696)	31.56 (801)
36	EXB-24368	41.25 (1048)	30.06 (764)	14.00 (356)	27.56 (696)	31.56 (801)
42	EXB-24368	41.25 (1048)	30.06 (764)	14.00 (356)	27.56 (696)	31.56 (801)



EXPB3NFS-ML						
CIRCUITS	EXB	OVERALL			MOUNTING	
		HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18368	40.38 (1026)	23.19 (589)	13.51 (343)	21.25 (540)	31.50 (800)
18	EXB-18368	40.38 (1026)	23.19 (589)	13.51 (343)	21.25 (540)	31.50 (800)
24	EXB-18368	40.38 (1026)	23.19 (589)	13.51 (343)	21.25 (540)	31.50 (800)
30	EXB-24368	41.25 (1048)	30.06 (764)	13.45 (342)	27.56 (696)	31.56 (801)
36	EXB-24368	41.25 (1048)	30.06 (764)	13.45 (342)	27.56 (696)	31.56 (801)
42	EXB-24368	41.25 (1048)	30.06 (764)	13.45 (342)	27.56 (696)	31.56 (801)

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Harsh & Hazardous

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