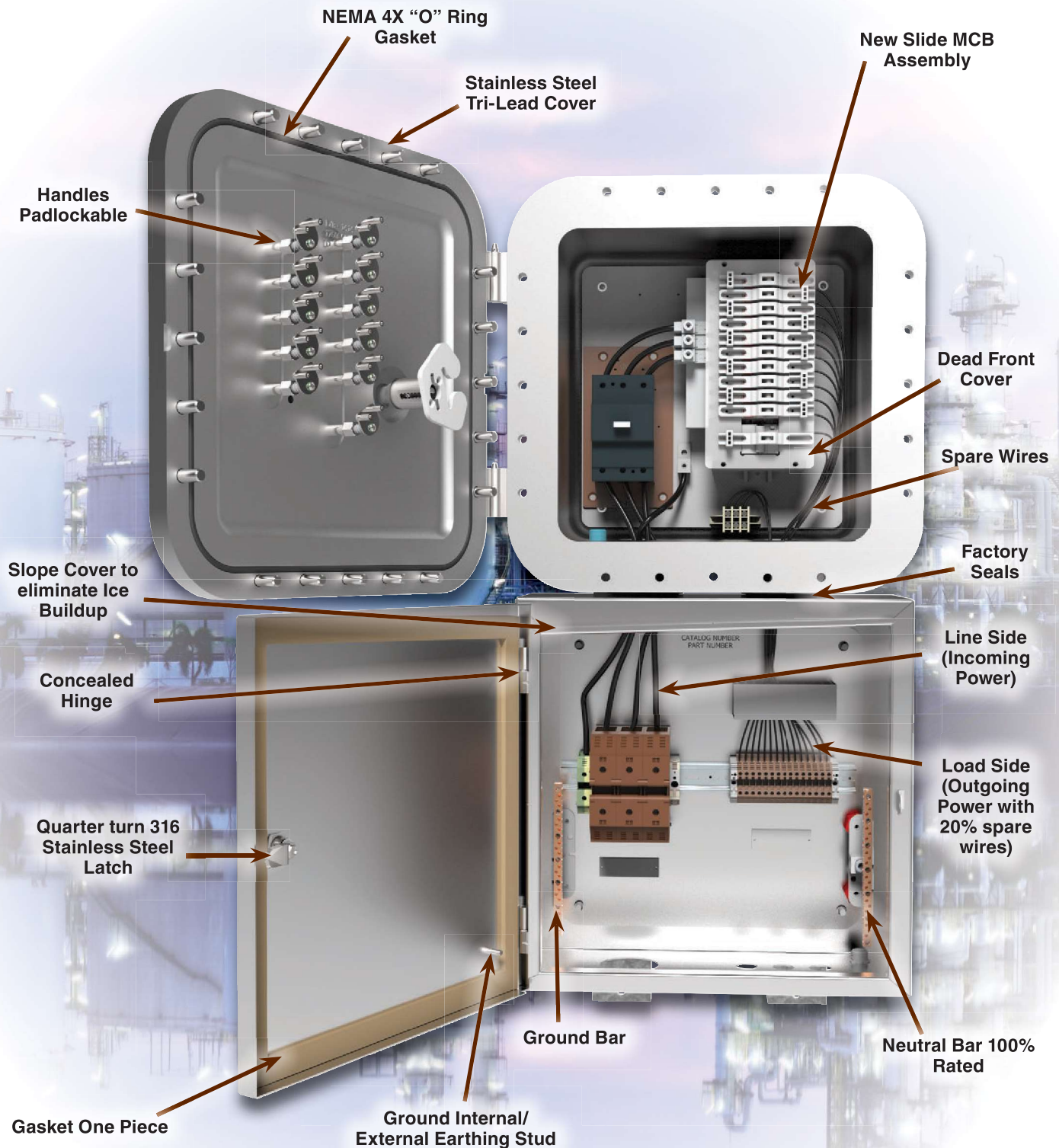


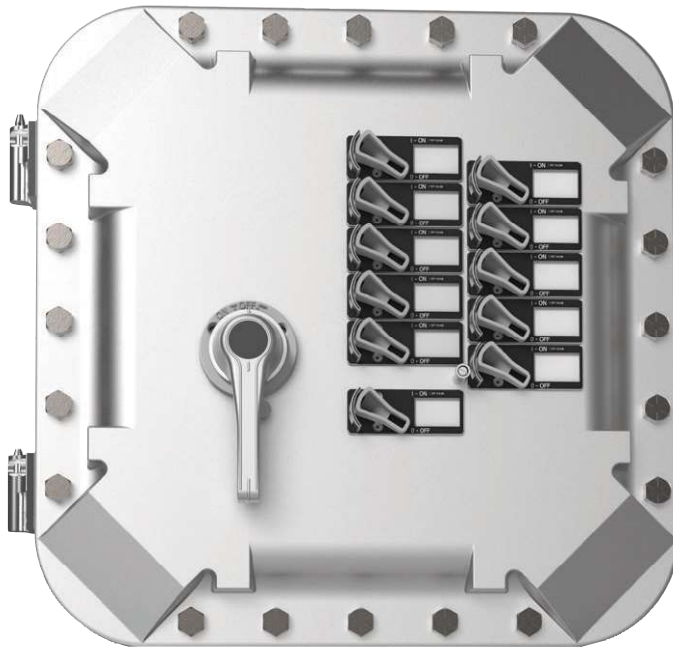


DISTRIBUTION EQUIPMENT
EXBLI/EXBSPI SERIES





IEC/NEC CIRCUIT BREAKER PANELBOARDS



ATEX Certified

Class I, Div. 1 & 2, Groups B₀, 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
Type 4, 4X, 7(B, C, D), 9(E, F, G)
CENELEC/ATEX/IEC - Ex
Ex d IIB + H2 T5 or T6
Ex tD A21 IP66
Ta < +70°C

Indoor/Outdoor



#UL1203 – Explosion Proof and Dust Ignition Proof Electrical Equipment. Files #E83969 & E12379



#C22.2 No. 30 – Explosion Proof Enclosure for use in Class I Hazardous Locations. File #LR11716



II 2 GD
 PTB 07 ATEX 1025U (Empty Housing)
 PTB 07 ATEX 1024x (Enclosures w/Controls)
 IEC Ex 07.0022U
 IEC Ex 07.0023

FEATURES-SPECIFICATIONS

Features

The IEC (UL1077) panel offers both single and three phase applications with or without switched neutrals. Branch MCB's in single, two, three and four pole, RCBO's for earth leakage detection are available in 30, 100 or 300mA Sensitivity.

The NEC (UL489) panel offer single and three phase applications, branch MCB's in single, two, three and four pole. This type can also offer a factory sealed arrangement using our USF 316L stainless steel wiring chamber with or without removable gland plates. All incoming "Line" and outgoing "Load" connections are made in the wiring chamber; this eliminates the need for seal fittings for Division 2 areas.

- All hardware is stainless steel, cover bolts are quick release Tri-Lead.
- All circuit breakers are pad lockable in the "ON" or "OFF" positions for up to three padlocks (to allow ease of lock out – tag out capabilities).
- Insulated copper bus bars mount on our Din Rail mounted branch breakers and the cover of the explosion proof enclosure is pre-drilled for future expansion or changing breakers in the field.

- Solid neutral (tin plated) standard for single and three phase.
- ABB circuit breakers have a wide temperature range from -20 to +70°C.
- Aluminum lacquer paint finish is standard

Materials

- Breaker enclosure: Cast copper free aluminum (less than 1/10 of 1%), Cover Bolts: Type 316 stainless steel quick turn (Tri-Lead), finish Aluminum Lacquer Paint.

| SUFFIX NUMBER | DESCRIPTION |
|---------------|---|
| SU-3B-4X | Drain & Breather installed, NEMA 4X/7 BCD |
| SU-10B-4X | Drain installed, NEMA 4X/7 BCD |
| SU-11B-4X | Breather installed NEMA 4X/7 BCD |
| SU-3ATEX | Drain & Breather installed ATEX Group B |
| EB | Eyebolt, Qty of 2 |
| TP | Toe Plate (recommended for larger panels) |
| GS150 | 150 Amp Ground Strap |
| SU1 | Stainless steel external hardware NEMA 4X |
| SU9PEEX | Grey powder polyester outer surface |
| SU9PEIO | Grey powder polyester in & out surface |
| SU9PESEX | Specify color outer surface (RAL number) |
| SU14 | Fungus proofing inner surface |
| SU93 | Do not paint |

Electrical Rating

EXBLI

- Single Phase – 120/240 VAC, 3 Wire, 60hz
- Three Phase – 120/208 VAC, 4 Wire, 60Hz

EXBSPI

- Single Phase – 277 VAC, 3 Wire, 60hz
- Three Phase – 277/480Y VAC, 4 Wire, 60Hz

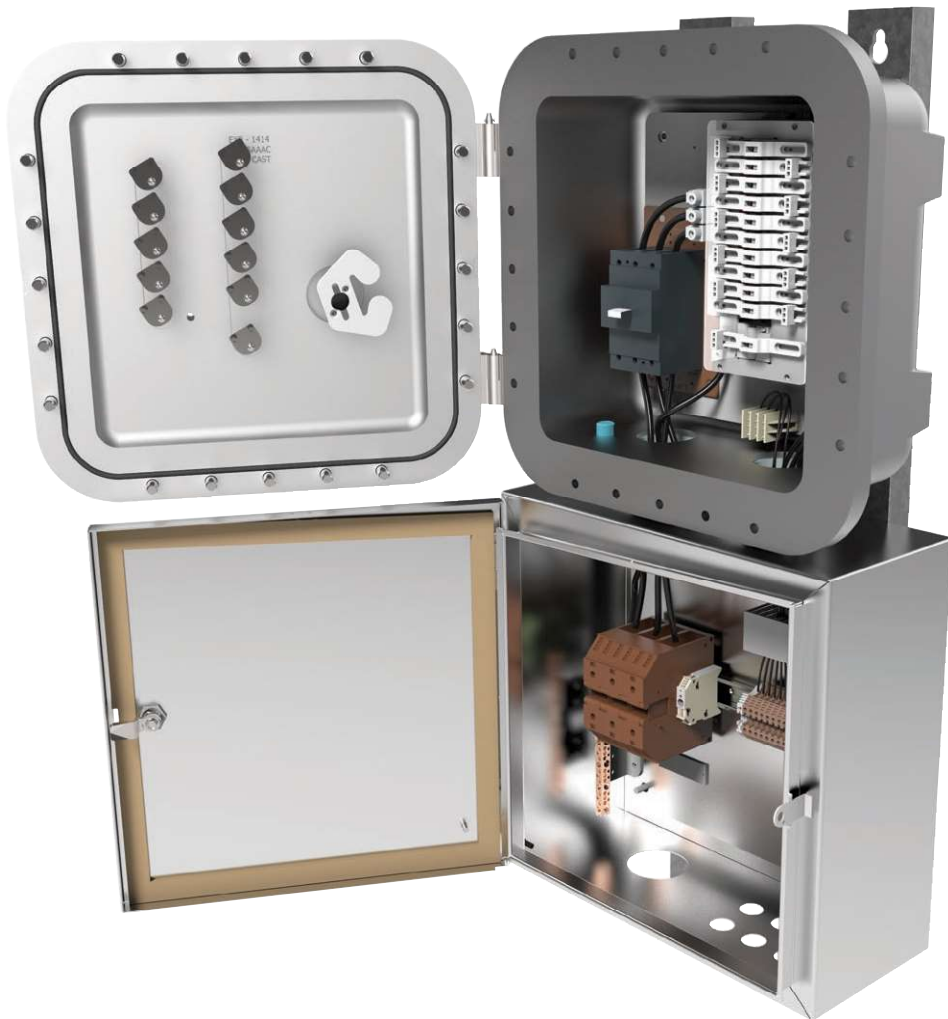
Panel Selection Factors

- Basic information required when specifying panelboards is as follows:
- Service Requirements – Voltage, phases and frequency
- Interrupting capacity
- Amperage Rating of Main (Lugs only or Breaker)
- Branch Breaker Requirements
 - » Type
 - » Number
 - » Poles
 - » Amperage
 - » RDC Requirements



DISTRIBUTION EQUIPMENT
EXBLI/EXBSPI SERIES

EXBLI LIGHTING PANELBOARD



OPTIONAL
 NEC (UL 489) Factory
 Sealed Panelboard

EXBLI LIGHTING PANELBOARD

| MAIN LUG ONLY | | | | |
|--|-----------------------|---------------------|-----------------------------|------------|
| ELECTRICAL RATING | NUMBER OF BRANCH POLE | MAIN LUG RATING AMP | CATALOG NUMBER BASIC NUMBER | PANEL SIZE |
| Single Phase 3 Wire with Solid Neutral 120/240VAC | 6 | 80 | EXBLI-16ML80 | H |
| | 12 | 130 | EXBLI-112ML130 | I |
| | 18 | 130 | EXBLI-118ML130 | J |
| | 24 | 260 | EXBLI-124ML260 | K |
| | 36 | 260 | EXBLI-136ML260 | L |
| | 54 | 260 | EXBLI-154ML260 | M |
| Three Phase 4 Wire with Solid Neutral 120/208VAC | 90 | 260 | EXBLI-172ML260 | N |
| | 6 | 80 | EXBLI-36ML80 | H |
| | 12 | 130 | EXBLI-312ML130 | I |
| | 18 | 130 | EXBLI-318ML130 | J |
| | 24 | 260 | EXBLI-324ML260 | K |
| | 36 | 260 | EXBLI-336ML260 | L |
| | 54 | 260 | EXBLI-354ML260 | M |
| | 90 | 260 | EXBLI-372ML260 | N |

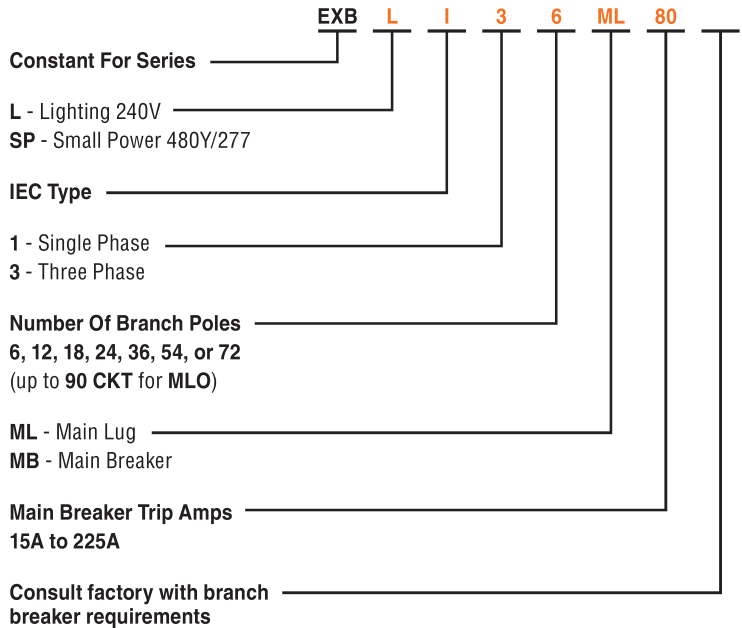
| MAIN CIRCUIT BREAKER | | | | |
|--|-----------------------|---------------------|-----------------------------|------------|
| ELECTRICAL RATING | NUMBER OF BRANCH POLE | MAIN LUG RATING AMP | CATALOG NUMBER BASIC NUMBER | PANEL SIZE |
| Single Phase 3 Wire with Solid Neutral 120/240VAC | 6 | 80 | EXBLI-16MB* | A |
| | 12 | 130 | EXBLI-112MB* | B |
| | 18 | 130 | EXBLI-118MB* | C |
| | 24 | 260 | EXBLI-124MB* | D |
| | 36 | 260 | EXBLI-136MB* | E |
| | 54 | 260 | EXBLI-154MB* | F |
| | 72 | 260 | EXBLI-172MB* | G |
| Three Phase 4 Wire with Solid Neutral 120/208VAC | 6 | 80 | EXBLI-36MB* | A |
| | 12 | 130 | EXBLI-312MB* | B |
| | 18 | 130 | EXBLI-318MB* | C |
| | 24 | 260 | EXBLI-324MB* | D |
| | 36 | 260 | EXBLI-336MB* | E |
| | 54 | 260 | EXBLI-354MB* | F |
| | 72 | 260 | EXBLI-372MB* | G |



EXBSPI LIGHTING PANELBOARD



CATALOG LOGIC – FOR BASIC IEC PANELBOARD ENCLOSURES



EXBSPI LIGHTING PANELBOARD

| MAIN LUG ONLY | | | | | MAIN CIRCUIT BREAKER | | | | |
|--|-----------------------|---------------------|-----------------------------|------------|--|-----------------------|---------------------|-----------------------------|------------|
| ELECTRICAL RATING | NUMBER OF BRANCH POLE | MAIN LUG RATING AMP | CATALOG NUMBER BASIC NUMBER | PANEL SIZE | ELECTRICAL RATING | NUMBER OF BRANCH POLE | MAIN LUG RATING AMP | CATALOG NUMBER BASIC NUMBER | PANEL SIZE |
| Single Phase 3 Wire with Solid Neutral 277VAC | 6 | 80 | EXBSPI-16ML80 | H | Single Phase 3 Wire with Solid Neutral 277VAC | 6 | 80 | EXBSPI-16MB* | A |
| | 12 | 130 | EXBSPI-112ML130 | I | | 12 | 130 | EXBSPI-112MB* | B |
| | 18 | 130 | EXBSPI-118ML130 | J | | 18 | 130 | EXBSPI-118MB* | C |
| | 24 | 260 | EXBSPI-124ML260 | K | | 24 | 260 | EXBSPI-124MB* | D |
| | 36 | 260 | EXBSPI-136ML260 | L | | 36 | 260 | EXBSPI-136MB* | E |
| | 54 | 260 | EXBSPI-154ML260 | M | | 54 | 260 | EXBSPI-154MB* | F |
| Three Phase 4 Wire with Solid Neutral 277/480YVAC | 90 | 260 | EXBSPI-172ML260 | N | 72 | 260 | EXBSPI-172MB* | G | |
| | 6 | 80 | EXBSPI-36ML80 | H | Three Phase 4 Wire with Solid Neutral 277/480YVAC | 6 | 80 | EXBSPI-36MB* | A |
| | 12 | 130 | EXBSPI-312ML130 | I | | 12 | 130 | EXBSPI-312MB* | B |
| | 18 | 130 | EXBSPI-318ML130 | J | | 18 | 130 | EXBSPI-318MB* | C |
| | 24 | 260 | EXBSPI-324ML260 | K | | 24 | 260 | EXBSPI-324MB* | D |
| | 36 | 260 | EXBSPI-336ML260 | L | | 36 | 260 | EXBSPI-336MB* | E |
| 54 | 260 | EXBSPI-354ML260 | M | 54 | | 260 | EXBSPI-354MB* | F | |
| 90 | 260 | EXBSPI-372ML260 | N | 72 | 260 | EXBSPI-372MB* | G | | |

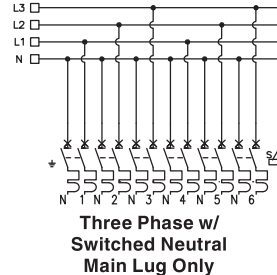
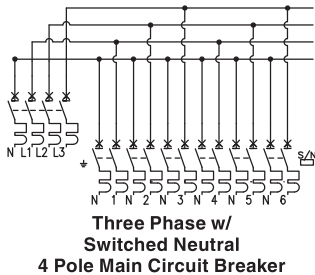
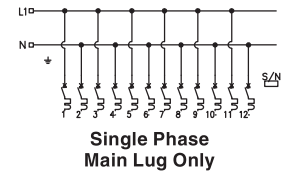
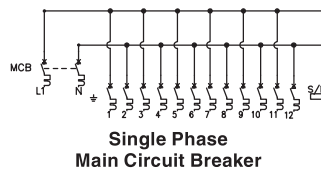
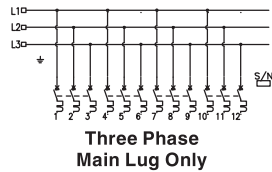
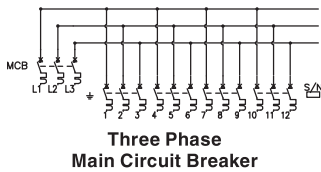


BREAKER RATINGS

| EXBLI & EXBSPI CIRCUIT BREAKER RATINGS, ABB | | | | | | | | |
|---|------|-----------|---------------------|-----------|------|-----------|---------------------|----------------|
| IEC (UL1077), MCB | | | | | | | | |
| TYPE | POLE | VOLTS VAC | AMPERES SYMMERTICAL | TYPE RCBO | POLE | VOLTS VAC | AMPERES SYMMERTICAL | SENSITIVITY |
| S200C | 1 | 277 | 6,000 AIC | DS201 | 1+N | 230 | 10,000 AIC | 30, 100, 300mA |
| | 2 | 277/480Y | 6,000 AIC | DS202 | 2 | 230 | 10,000 AIC | 30, 300mA |
| | 3 | 277/480Y | 6,000 AIC | | | | | |
| | 4 | 277/480Y | 6,000 AIC | | | | | |
| S200D | 1 | 277 | 6,000 AIC | | | | | |
| | 2 | 277/480Y | 6,000 AIC | | | | | |
| | 3 | 277/480Y | 6,000 AIC | | | | | |
| | 4 | 277/480Y | 6,000 AIC | | | | | |
| S200M | 1 | 277 | 10,000 AIC | | | | | |
| | 2 | 277/480Y | 10,000 AIC | | | | | |
| | 3 | 277/480Y | 10,000 AIC | | | | | |
| | 4 | 277/480Y | 10,000 AIC | | | | | |

| NEC (UL489), MCB, NOT RATED FOR SWITCHED NEUTRAL | | | |
|--|------|-----------|---------------------|
| TYPE | POLE | VOLTS VAC | AMPERES SYMMERTICAL |
| SU200MC | 1 | 240 | 10,000 AIC |
| | 2 | 277/480Y | 10,000 AIC |
| | 3 | 277/480Y | 10,000 AIC |
| | 4 | 277/480Y | 10,000 AIC |
| S200U-K | 1 | 240 | 10,000 AIC |
| | 2 | 240 | 10,000 AIC |
| | 3 | 240 | 10,000 AIC |
| | 4 | 240 | 10,000 AIC |
| S200UP-K | 1 | 277 | 10,000 AIC |
| | 2 | 277/480Y | 10,000 AIC |
| | 3 | 277/480Y | 10,000 AIC |
| | 4 | 277/480Y | 10,000 AIC |

| MAIN CIRCUIT BREAKER | | | | |
|----------------------|------|-----------|---------------------|----------|
| TYPE | POLE | VOLTS VAC | AMPERES SYMMERTICAL | AMP TRIP |
| Tmax XT1 | 3 | 347/600Y | 25, 35, 65,000 AIC | 15 - 125 |
| | 4 | 347/600Y | 25, 35, 65,000 AIC | 15 - 125 |
| Tmax XT2 | 3 | 600 | 25, 35, 65,000 AIC | 15 - 125 |
| | 4 | 600 | 25, 35, 65,000 AIC | 15 - 125 |
| Tmax XT3 | 3 | 347/600Y | 25, 35, 65,000 AIC | 60 - 225 |
| | 4 | 347/600Y | 25, 35, 65,000 AIC | 60 - 225 |
| Tmax XT4 | 3 | 600 | 25, 35, 65,000 AIC | 25 - 250 |
| | 4 | 600 | 25, 35, 65,000 AIC | 25 - 250 |





IEC CIRCUIT BREAKER PANELBOARDS

| EXB DIMENSIONS MAIN BREAKER | | | | | | | | | | | | | | |
|-----------------------------|-------------------------------|------------------------------|------|-------|---------------|-------------------------|-----------------|----------------|------------------------------|----------------|----------------|-----------------|----------|--------------|
| CATALOG NUMBER | # OF CIRCUITS W/ MAIN BREAKER | STD CONDUITS AT BOTTOM (NPT) | | | | EXTERNAL DIMENSION (NI) | | | MOUNTING DIMENSIONS (INCHES) | | | | | LBS (KG) |
| | | A | B | QTY B | QTY B RH SIDE | F WIDE | G HIGH | H DEEP | I | J | K | L | M | |
| EXB-10146 N34 | 6 | 1-1/2" | 3/4" | 3 | — | 15.25 (387.35) | 19.25 (488.95) | 8.90 (226.06) | 4.94 (125.98) | 8.94 (227.08) | 12.94 (328.68) | 16.94 (438.28) | 0.25 (6) | 119 (53.98) |
| EXB-16166 N34 | 12 | 1-1/2" | 3/4" | 6 | — | 20.38 (517.65) | 20.38 (517.65) | 9.19 (233.43) | 10.94 (277.88) | 10.94 (277.88) | 18.94 (481.08) | 18.94 (481.08) | 0.25 (6) | 195 (88.45) |
| EXB-12246 N34 | 18 | 1-1/2" | 3/4" | 9 | — | 16.38 (416.05) | 28.38 (720.85) | 9.32 (236.73) | 6.94 (176.28) | 18.88 (479.55) | 14.94 (379.43) | 26.88 (682.75) | 0.25 (6) | 196 (88.45) |
| EXB-16248 N34 | 24 | 1-1/2" | 3/4" | 12 | — | 21.25 (539.75) | 29.25 (742.95) | 12.00 (304.80) | 11.38 (289.05) | 19.38 (492.25) | 19.38 (492.25) | 27.38 (695.45) | 0.25 (6) | 220 (99.79) |
| EXB-18368 N34 | 36 | 1-1/2" | 3/4" | 18 | — | 22.38 (568.45) | 40.38 (1025.65) | 12.38 (314.45) | 13.25 (336.55) | 31.50 (800.10) | 21.25 (539.75) | 39.50 (1003.30) | 0.25 (6) | 410 (185.97) |
| EXB-24368 N34 | 54 | 2-1/2" | 3/4" | 20 | 7 | 29.25 (743) | 41.25 (1048) | 12.4 (315) | 19.56 (497) | 31.56 (802) | 27.56 (700) | 39.56 (1005) | 0.25 (6) | 560 (254.01) |
| EXB-24368 N34 | 72 | 2-1/2" | 3/4" | 30 | 6 | 29.25 (743) | 41.25 (1048) | 12.4 (315) | 19.56 (497) | 31.56 (802) | 27.56 (700) | 39.56 (1005) | 0.25 (6) | 560 (254.01) |

| EXB DIMENSIONS MAIN LUG ONLY | | | | | | | | | | | | | | |
|------------------------------|-----------------------------|------------------------------|------|-------|---------------|-------------------------|----------------|----------------|------------------------------|----------------|----------------|----------------|----------|--------------|
| CATALOG NUMBER | # OF CIRCUITS MAIN LUG ONLY | STD CONDUITS AT BOTTOM (NPT) | | | | EXTERNAL DIMENSION (NI) | | | MOUNTING DIMENSIONS (INCHES) | | | | | LBS (KG) |
| | | A | B | QTY B | QTY B RH SIDE | F WIDE | G HIGH | H DEEP | I | J | K | L | M | |
| EXB-8126 N34 | 6 | 1-1/2" | 3/4" | 3 | — | 13.25 (336.55) | 17.25 (438.15) | 8.70 (220.98) | 3.82 (97.03) | 7.82 (198.63) | 10.38 (263.65) | 14.38 (365.25) | 0.25 (6) | 160 (72.57) |
| EXB-12186 N34 | 12 | 1-1/2" | 3/4" | 6 | — | 16.38 (416.05) | 22.38 (568.45) | 9.06 (230.12) | 6.94 (176.28) | 12.88 (327.15) | 14.94 (379.43) | 20.88 (530.35) | 0.25 (6) | 195 (88.45) |
| EXB-12186 N34 | 18 | 1-1/2" | 3/4" | 9 | — | 16.38 (416) | 22.38 (568) | 9.06 (230) | 6.94 (176) | 12.88 (327) | 14.94 (379) | 20.88 (530) | 0.25 (6) | 195 (88.45) |
| EXB-16248 N34 | 24 | 1-1/2" | 3/4" | 12 | — | 21.25 (539.75) | 29.25 (742.95) | 12.00 (304.80) | 11.38 (289.05) | 19.38 (492.25) | 19.38 (492.25) | 27.38 (695.45) | 0.25 (6) | 270 (122.46) |
| EXB-18248 N34 | 36 | 1-1/2" | 3/4" | 16 | 2 | 22.38 (568.45) | 28.38 (720.85) | 11.75 (298.45) | 13.00 (330.70) | 19.50 (492.60) | 21.00 (533.40) | 27.00 (685.80) | 0.25 (6) | 290 (131.54) |
| EXB-24368 N34 | 54 | 2-1/2" | 3/4" | 18 | 7 | 29.25 (743) | 41.25 (1048) | 12.4 (315) | 19.56 (497) | 31.56 (802) | 27.56 (700) | 39.56 (1005) | 0.25 (6) | 560 (254.01) |
| EXB-24368 N34 | 72 | 2-1/2" | 3/4" | 18 | 18 | 29.25 (743) | 41.25 (1048) | 12.4 (315) | 19.56 (497) | 31.56 (802) | 27.56 (700) | 39.56 (1005) | 0.25 (6) | 560 (254.01) |
| EXB-24368 N34 | 90 | 2-1/2" | 3/4" | 18 | 18 | 29.25 (743) | 41.25 (1048) | 12.4 (315) | 19.56 (497) | 31.56 (802) | 27.56 (700) | 39.56 (1005) | 0.25 (6) | 560 (254.01) |

