THE SMARTER CHOICE FOR
EXPLOSION PROTECTED
CIRCUIT BREAKER PANELS
Applications

- For Hazardous classified locations due to explosive gas atmospheres.
- Applications requiring over current and short circuit protection for power, lighting, and heat tracing.
- Petroleum refineries, oil sands, chemical and petrochemical facilities with indoor or outdoor processes.

Features

- 316L Stainless Steel housing provides high corrosion resistance; extending the life and safety of your system.
- Panel can be quickly opened in the field while energized for easier servicing.
- Optional external handles are extremely easy to operate. Simply actuate the breakers by turning the external handle.
- Lightweight and easy to install compared to traditional explosion proof cast and bolted systems. Expensive lift equipment often not needed.
- R. STAHL 8562 series circuit breakers meet all North American requirements including UL489.

Classifications

**NEC**
- Class I, Zone 2, IIB + H₂ T4
- Class I, Division 2, Groups B, C & D, T4

**CEC**
- Main Lug Only (Terminals)
  - Zone 2 Group IIC T4
  - Class I, Division 2 Groups B, C & D, T4
- With Main Breakers
  - Class I, Division 2 Groups C, D & T4

**Environmental Protection**
- Type 3, 4, 4X; IP66

Applications

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- Lightweight and easy to install compared to traditional explosion proof cast and bolted systems. Expensive lift equipment often not needed.
- R. STAHL 8562 series circuit breakers meet all North American requirements including UL489.

Features

- Main and Branch Breaker handles are padlockable in the OFF position.
- 5 mA and 30 mA GFCIs and GFEPS are also available for ground fault protection.
- Main Breakers available up to 225 Amps.
- Seamless Silicone Foam in place gaskets exclude contaminants and liquids ensuring long life of interior components.
- No cable or Conduit Seals are required, allowing for fast installation and lowering overall installed cost.
- Cable entries are easily punched in the field. No drilling and tapping required.
- Gland plates are available for field entries.

**SAVE INSTALLATION TIME**

- Avoid removing dozens of bolts as with traditional explosion proof cast aluminum systems.
- No expensive and labor intensive conduit seals.
- No drilling and tapping enclosures.
- Light weight design (No need for expensive lift equipment).

**LAST LONGER**

- 316L Stainless Steel, outlasts traditional cast aluminum enclosures in corrosive environments.

**WORK SAFER**

- Finger safe construction prevents accidental contact with live parts.
- Padlockable breaker and handles.
- Optional external handle mechanisms minimize the need to open the panel.

**BREAKERS TESTED TO UL489 AND ARE CERTIFIED TO CLASS 1, DIVISION 2 CLASS 1, ZONE 2**
# Circuit Breaker Panel

**Ordering Information**

Description: 36 Circuit Panel, 208/120V with a 225 Amp Main Breaker and (24) 1-pole 20 Amp Breaker, (2) 1-pole 20 Amp EPD, (2) 1-pole 30 Amp Breaker with a Drain, Internal Ground Bar and External Handles.

### Example

<table>
<thead>
<tr>
<th>5-</th>
<th>2-</th>
<th>MB225-</th>
<th>241P20-</th>
<th>21P20EPD-</th>
<th>21P30-</th>
<th>D-IGB-EH</th>
</tr>
</thead>
</table>

### Options

*Suffix for options must be listed.*

#### Main Breaker Option:
- Aux. Switch 1NO/1NC (AS1)
- Aux. Switch 2NO/2NC (AS2)
- Undervoltage Release (UV)
- Bell Alarm (BA)
- Shunt Trip (ST)

#### Panel Options:
- Breather \ Drain (D)
- Internal Ground Bar (IGB)
- External Grounding Stud (EGS)
- Mounting Hardware (MH)
- External Handles (EH)
- Load Side Wiring to Terminals (FW)
- Load Side Terminals only (LT)
- Gland Plate Top (GPT)
- Gland Plate Right (GPR)
- Gland Plate Left (GPL)
- Gland Plate Bottom (GPB)

#### Control Devices:
- Space Heater (SH)
- Thermostat (TS)

#### Main Panel Nameplate:
- Standard: Gravoply nameplate Size 2”x4” (SMPN)
- Option: Stainless nameplate size 2”x4” (OMPN)

#### Branch Breaker Nameplate:
- Standard: Gravoply nameplate (SBBN)
- Option: Stainless nameplate (OBBN)

#### Back Fed Main (BF)*

*Takes 2 circuits

### Number of Circuits = Enclosure Size

<table>
<thead>
<tr>
<th>1 = 12</th>
<th>2 = 18</th>
<th>3 = 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 = 30</td>
<td>5 = 36</td>
<td>6 = 42</td>
</tr>
</tbody>
</table>

### Wiring System

<table>
<thead>
<tr>
<th>1 = 240 / 120V (1PH - 3W)</th>
<th>2 = 208 / 120V (3PH - 4W)</th>
<th>3 = 480 / 277V (3PH - 4W)</th>
</tr>
</thead>
</table>

### Main Lug / Main Breaker Size

- MLO100 = 100 Amp Main Lug Only (Terminals)
- MLO150 = 150 Amp Main Lug Only (Terminals)
- MLO225 = 225 Amp Main Lug Only (Terminals)
- MB100 = 100 Amp Main Breaker
- MB150 = 150 Amp Main Breaker
- MB225 = 225 Amp Main Breaker
- MBxxx = xxx Amp Main Breaker (Specify Amp Rating)

### Branch Breaker (QTY, Poles, AMP)

<table>
<thead>
<tr>
<th>xx = Number of Breakers</th>
<th>EPD = 30 mA Breaker *</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P = 1 Pole Breaker</td>
<td>GFCI = 5mA Breaker *</td>
</tr>
<tr>
<td>2P = 2 Pole Breaker</td>
<td></td>
</tr>
<tr>
<td>3P = 3 Pole Breaker</td>
<td></td>
</tr>
</tbody>
</table>

*yy = Amp Rating of Breaker

*Takes 2 circuits

*Subtract the required space from number of circuits in system, 40A maximum.
External Handle Option

LIFTING HOOKS
Standard in all panels.

316L STAINLESS STEEL
Superior corrosion resistance.

CAM LOCK FASTENERS
For easy opening. Eliminate the need for bolts found on heavy cast explosion proof enclosures.

LOCKOUT CAPABILITY
Optional self aligning external circuit breaker handle.

LIGHTWEIGHT
Stainless steel enclosure eliminates the need for heavy cast enclosures.

LOCKABLE HANDLE
Robust external main breaker handle.
CERTIFIED BREAKERS
Breakers are tested and certified to UL489. Class I, Div 2, Groups A,B,C,D. Available in 1-, 2-, and 3-pole.

LOAD SIDE TERMINAL BLOCKS
Optional top, bottom or top and bottom terminal blocks.

INSULATED BUS
*Finger safe protection.

SELF ALIGNING HANDLES
Optional external handles.

NO NEED FOR CONDUIT SEALS
Gland plate can be punched in the field, or pre-punched.

LINE SIDE LUGS
Cable from top or bottom entry. Accepts #6-350 MCM.

LOAD SIDE TERMINAL BLOCKS
Optional top, bottom or top and bottom terminal blocks.

*Finger safe protection for the bus bar not shown.
**Standard Dead Front Option**

**LIFTING HOOKS**
Standard in all panels.

**LIGHTWEIGHT**
Stainless steel enclosure eliminates the need for heavy cast enclosures.

**CAM LOCK FASTENERS**
For easy opening. Eliminate the need for bolts found on heavy cast explosion proof enclosures.

**LOCKABLE HANDLE**
Robust external main breaker handle.

**316L STAINLESS STEEL**
Superior corrosion resistance.

**DEADFRONT COVER**
Complete and removable dead front cover.
### Main Lug Only

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Frame</th>
<th>Dimensions (Inches)</th>
<th>Line</th>
<th>Load*</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
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<td>30</td>
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<tr>
<td>18</td>
<td>100</td>
<td>30</td>
<td>25</td>
<td>36.5</td>
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<tr>
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<td>30</td>
<td>25</td>
<td>42.5</td>
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<tr>
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<tr>
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*When ordered with suffix LT or FW.

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