Description

The Model 411 MV junction box is designed to join two three phase circuits, up to 11 kV, using single or multicore MV power cables. There is sufficient space inside the enclosure to allow for MV cable termination and routing of cables. There are facilities for connection of cable ground conductors and ground straps from the stress control sleeves. With the door opened, ingress protection of IP2X is provided by an insulating cover over the terminals.

The junction box is certified as an increased safety (Ex e) enclosure. Ingress protection is IP66.

For power cables that include optical fibers, a fiber breakout facility is available.

All 400 series products are intended for use in Floating Production Systems (FPS). They are well suited for any application requiring a product that can withstand harsh marine conditions or require long life with minimal maintenance intervals. Designed and manufactured in our ISO 9001 facility under our project management system, products have a two year warranty and are provided with a complete document package.

All products can be modified to meet specific requirements. Installation, commissioning and service is available. Contact the factory for details.
## Specifications

### Electrical

<table>
<thead>
<tr>
<th>Terminals</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>11 kV</td>
</tr>
<tr>
<td>BIL</td>
<td>75 kV</td>
</tr>
<tr>
<td>Current</td>
<td>640 A</td>
</tr>
<tr>
<td>Fault current</td>
<td>30 kA - 1 sec.</td>
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</table>

**Terminals**
- Suitable for landing three cables
- M12 hardware supplied

**Grounding/bonding**
- Grounding balls on terminals
- Internal ground bar for stress control sleeves
- External ground connection

### Certifications

**Marine**
- ABS, DNV GL, LRS, BV

**Hazardous Area**
- Ex e II T4 Gb
- ATEX, IECEX, AEx, CSA, IEC

### Environmental

| Temperature | -20 °C to +60 °C (operating)  
| -20 °C to +85 °C (storage) |
|-------------|-----------------------------|
| Ingress     | IP66                        |
| Ship motion | 1 g in any direction        |

### Physical

| Height                  | 60" [1525 mm]  
<table>
<thead>
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<tbody>
<tr>
<td></td>
<td>72&quot; [1825 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>36&quot; [915 mm]</td>
</tr>
<tr>
<td>Depth</td>
<td>17&quot; [430mm]</td>
</tr>
</tbody>
</table>
| Weight                  | 450 lb [205 kg] (60")  
|                         | 470 lb [215 kg] (72") |

All dimensions depend on the configuration

**Material**
- 316 / 316L stainless steel

**Drawing**
- 411-0501-00

### Options

**Heater**
- Self-regulating heater
- 120 V or 220 V, 100 W
- Other wattages available

**Temperature sensor**
- PT100 typical with transmitter for 4-20 mA output

**Optical**
- Fiber breakouts and bushing brackets or splice trays are available for cables having optical fibers

**Accessories**
- Supply of stress control sleeves, lugs, glands, reducers, plugs as required

**Extended ratings**
- Voltages up to 11 kV
- Current up to 1000 A
- -40 °C to +80 °C
- This will affect the hazardous area certification

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1. Available on request.

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