EJB Aluminium junction boxes gas group IIB+H₂

- Zone 1, 2, 21, 22
- Group IIB+H₂
- Aluminium junction boxes
- IP 66 / 67

Silicone gasket between body and lid

External earth screw in body

Internal earth screw in body

Stainless steel bolts

Mounting bracket

Warning labels

Hinges in stainless steel
EJB series junction boxes are suitable for installation in any areas of a plant where there is a risk of explosion and/or fire, or areas where combustible dust is present, classified as Zone 1, 2, 21, 22. The quality of this product is recognized and valued worldwide for its specific aluminium alloy and the mechanical property of its finishes. The EJB series is mostly used as a box to carry terminals and busbars, fuse carriers, transformers, reactors and barriers, though it is also used to produce control and signalling boards, light and power boards and surge arresters, and motor starter boxes with various configurations, which are custom made to the requirements of our customers worldwide.

Cortem Group labels its products with a non-removable adhesive label featuring a hologram and an alphanumerical univocal code, as a safety measure against the illegal sale of fakes so that all the products are guaranteed as original. Non-compliance with the International standards entails serious risks for the environment, especially for those working daily on the plants.

### Application sectors:
- **Oil refineries**
- Chemical and petrochemical plants
- Onshore plants
- Offshore plants
- Oil loading/offloading wharfs
- Low temperatures
- Presence of hydrogen
- 100% Cortem product

### CERTIFICATION DATA FOR EMPTY ENCLOSURES

<table>
<thead>
<tr>
<th>Classification: Group II</th>
<th>Category 2GD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation: EN 60079-14</td>
<td>zone 1 - zone 2 (Gas)</td>
</tr>
<tr>
<td>Marking: CE 0722 Ex II 2 GD - Ex db IIB+H2 Gb - Ex tb IIIC Db - IP66/67</td>
<td></td>
</tr>
<tr>
<td>Certification: ATEX CESI 00 ATEX 036U</td>
<td></td>
</tr>
<tr>
<td>IEC Ex CES 14.0017U</td>
<td></td>
</tr>
<tr>
<td>TR CU AVAILABLE</td>
<td></td>
</tr>
<tr>
<td>INMETRO DNV 16.0099U</td>
<td></td>
</tr>
</tbody>
</table>

### Ambient Temp.: 
-60°C +60°C

- With boxes complete with polycarbonate indicator on lid $T_a$ -40°C +60°C.

- -60°C +100°C

- On request only for EJB enclosures without accessories and control and signalling devices (except EJB-01 and AQS-1 versions).

- -60°C

- (Use indicator light series M-0457A1, M-0457A3, M-0457IN or M-0457IN/3)

### Degree of protection: 
- **IP66/67** For enclosures without control and signalling devices
- **IP66** For enclosures with Cortem M-0...-series control and signalling devices

This equipment can be used in an environment containing explosive atmosphere and with the presence of hydrogen.
## CERTIFICATION DATA FOR ENCLOSURES WITH TERMINALS

<table>
<thead>
<tr>
<th>Classification:</th>
<th>Group II</th>
<th>Category 2GD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation:</td>
<td>zone 1 - zone 2 (Gas)</td>
<td>zone 21 - zone 22 (Dust)</td>
</tr>
<tr>
<td>Marking:</td>
<td>CE 0722 II 2 GD - Ex d IIB+H2 T... Gb - Ex tb IIIC T...°C Db - IP66/67</td>
<td></td>
</tr>
<tr>
<td>Certification:</td>
<td>ATEX CESI 01 ATEX 026</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IEC Ex TSA 06.0011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TR CU AVAILABLE</td>
<td></td>
</tr>
</tbody>
</table>

**Certification:**

ATEX CESI 01 ATEX 026

**Marking:**

CE 0722 II 2 GD - Ex d IIB+H2 T... Gb - Ex tb IIIC T...°C Db - IP66/67

**Standards:**


**Ambient Temp.:**

-50°C +40°C With temperature class T6 and maximum surface temperature 185°C.

-50°C +55°C With temperature class T5 and maximum surface temperature 1100°C.

**Degree of protection:**

IP66/67

## CERTIFICATION DATA OF ENCLOSURES FOR CONTROL, MONITORING AND SIGNALLING UNITS

<table>
<thead>
<tr>
<th>Classification:</th>
<th>Group II</th>
<th>Category 2GD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation:</td>
<td>zone 1 - zone 2 (Gas)</td>
<td>zone 21 - zone 22 (Dust)</td>
</tr>
<tr>
<td>Marking:</td>
<td>CE 0722 II2GD - Ex db IIB+H2 T... Gb - Ex tb IIIC T...°C Db - IP66/67</td>
<td></td>
</tr>
<tr>
<td>Certification:</td>
<td>ATEX CESI 01 ATEX 027X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IEC Ex CES 16.0012X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TR CU AVAILABLE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INMETRO DNV 14.0140</td>
<td></td>
</tr>
</tbody>
</table>

**Certification:**

ATEX CESI 01 ATEX 027X

**Marking:**

CE 0722 II2GD - Ex db IIB+H2 T... Gb - Ex tb IIIC T...°C Db - IP66/67

**Standards:**


**Ambient Temp.:**

-20°C +40°C With temperature class T6 and maximum surface temperature 185°C.

-20°C +55°C With temperature class T5 and maximum surface temperature 1100°C.

**Degree of protection:**

IP66/67

**Degree of protection:**

For enclosures without control and signalling devices

For enclosures with Cortem M-0...-series control gear

**Ambient Temp.:**

-60°C on request. (Use indicator light series M-0457AL, M-0457AL/3, M-0457IN or M-0457IN/3)
CERTIFICATION DATA OF ENCLOSURES SERVING INTERFACE UNIT CONTROL AND MONITORING FUNCTION

<table>
<thead>
<tr>
<th>Classification:</th>
<th>Group II</th>
<th>Category 2GD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation:</td>
<td>EN 60079-14</td>
<td>zone 1 - zone 2 (Gas)</td>
</tr>
<tr>
<td>Marking:</td>
<td>CE 0722 Ex II2(1)GD - Ex db [ia Ga] IIB+H₂ T... Gb - Ex tb IIIC T...°C Db - IP66/67</td>
<td></td>
</tr>
<tr>
<td>Certification:</td>
<td>ATEX CESI 02 ATEX 073X</td>
<td>All IEC Ex certification data can be downloaded from <a href="http://www.cortemgroup.com">www.cortemgroup.com</a></td>
</tr>
</tbody>
</table>

Degree of protection: IP66/67 For enclosures without control and signalling devices

Ambient Temp.: 20°C ± 40°C With temperature class T6 and maximum surface temperature 185°C. 20°C ± 55°C With temperature class T5 and maximum surface temperature 110°C. -60°C on request. (Use indicator light series M-0457 AL, M-0457 AL/3, M-0457 IN or M-0457 IN/3)

OTHER AVAILABLE CERTIFICATES (please contact the sales department for further information)

EXTENSION n° 07/12 to EC-type examination certificate CESI 01 ATEX 027 Equipment: EJB-series control, monitoring and signalling units EJB-55B enclosures with PDrac partial discharging monitoring units

EXTENSION n° 04/08 to EC-type examination certificate CESI 01 ATEX 027 Equipment: EJB-series control, monitoring and signalling units EJB-6 enclosures with RX and IBUC units

CESI 07 ATEX 047 CERTIFICATE EJB..AD and MU..AD switchgear Enclosures made from cast iron

CESI 11 ATEX 037 CERTIFICATE EJB-45 with actuators. "Hook release controller" for simultaneous release of hooks The actuators control 1, 2 or 3 push-pull controls that are fed out of the enclosure through certified RRC-01 bushes

EXTENSION n° 07/12 to EC-type examination certificate CESI 01 ATEX 027 Equipment: EJB-series control, monitoring and signalling units New type of equipment named Surge Protection Device has been added
**MECHANICAL FEATURES**

**Body and lid:** Low copper content aluminium alloy  
**Hinges:** Cast (except for EJB-01), stainless steel for new models  
**Lid handle:** Made of black painted steel for EJB-6, 6B and EJB-7, 7B models (see below). Made of black painted plastic for EJB-55, 55B models  
**Gasket:** Acid, hydrocarbon and high temperature-resistant silicone, located between body and lid  
**Certification label:** Adhesive label located inside on empty enclosures; aluminium label riveted onto lid on other versions  
**Bolts and screws:** Stainless steel  
**Earth screws:** M6 stainless steel. On inside and outside of body and on lid complete with anti-rotation brackets  
**Mounting brackets:** Electrogalvanized steel (cast aluminium feet for AQS-1)  
**Coating:** Polyester coating RAL 7035 (Light grey)  

The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN 60068-2-30 (hot/humid cycles) and EN 60068-2-11 (salt mist tests).

**ACCESSORIES AVAILABLE ON REQUEST/ SPECIAL REQUESTS**

Internal anti-condensation coating RAL 2004 (pure orange)  
External polyester coating in different colour (specify the RAL number)  
Breather valve Code ECD-210S  
Drain valve Code ECD-210S  
Round or rectangular windows on lid (see section Enclosures with windows for inspection and reading instruments)  
Hinges for enclosures EJB-01 Code K-0351  
Internal mounting plate: 2.5mm-thick aluminium (code BFE-…). See accessories section  
2.5mm-thick electrogalvanized steel (code BFE-…AC).  

Thread options:  
- NPT threads ANSI B1.20.1  
- GAS UNI ISO 7-1 thread  
- Metric threads ISO 261/965

Cortem manufactures any type of custom-made products according to customer specifications and in compliance with the certification data.
Cortem is introducing a new model of EJB enclosures that will replace the entire range. This new series will be provided with new stainless steel hinges and a new lid that will allow more flexibility in the supply of the product. Cortem will then be able to offer the best solution to customer needs.

**SELECTION CHART FOR ENCLOSURES WITH RIBBED LIDS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Outside dimensions</th>
<th>Inside dimensions</th>
<th>Mounting</th>
<th>Mounting with brackets</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A  B  C</td>
<td>a  b  c</td>
<td>s1  d</td>
<td>D  E  F</td>
<td></td>
</tr>
<tr>
<td>EJB-1</td>
<td>304 204 218</td>
<td>240 140 160</td>
<td>14 230 130 M8</td>
<td>230 210 9</td>
<td>9,4</td>
</tr>
<tr>
<td>EJB-2</td>
<td>424 224 218</td>
<td>360 160 159</td>
<td>14 350 150 M8</td>
<td>350 230 9</td>
<td>13,6</td>
</tr>
<tr>
<td>EJB-3</td>
<td>364 284 278</td>
<td>300 220 214</td>
<td>14 290 210 M8</td>
<td>290 290 9</td>
<td>17</td>
</tr>
<tr>
<td>EJB-3B</td>
<td>364 284 218</td>
<td>300 220 154</td>
<td>14 290 210 M8</td>
<td>290 290 9</td>
<td>14,2</td>
</tr>
<tr>
<td><em>EJB-7</em></td>
<td>1000 700 500</td>
<td>890 590 340</td>
<td>30 810 510 M16</td>
<td>810 655 18</td>
<td>248</td>
</tr>
<tr>
<td><em>EJB-7B</em></td>
<td>1000 700 400</td>
<td>890 590 240</td>
<td>30 810 510 M16</td>
<td>810 655 18</td>
<td>210</td>
</tr>
<tr>
<td>AQS-1</td>
<td>500 450 207</td>
<td>430 380 127</td>
<td>15 420 300 M12</td>
<td>- - -</td>
<td>31,5</td>
</tr>
</tbody>
</table>

* New model.

Dimensions in mm

The AQS-1 series junction boxes have been designed to contain distribution terminal blocks and control switches. Its particular compactness and the inward flange makes them ideal for all those applications in which it is necessary to realize control panels of small dimensions with the possibility of installing modular switches side by side with different types of poles and amperage. The standard hinged lid and silicone gasket make this junction box a qualitative, economical and compact choice.
Aluminium enclosures with solid lids are used when there is a need to install a greater number of control and signalling devices than can be accommodated on the same enclosure with a ribbed lid or when handles need to be installed in certain positions on the lid.

**SELECTION CHART FOR ENCLOSURES WITH SOLID LIDS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Outside dimensions</th>
<th>Internal dimensions</th>
<th>Mounting with brackets</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJB-01</td>
<td>282 182 105</td>
<td>214 113 60 14</td>
<td>160 123 M6</td>
<td>5,6</td>
</tr>
<tr>
<td>EJB-1A</td>
<td>304 204 218</td>
<td>240 140 153 14</td>
<td>230 130 M8</td>
<td>10,3</td>
</tr>
<tr>
<td>EJB-2A</td>
<td>424 224 218</td>
<td>360 160 153 14</td>
<td>350 150 M8</td>
<td>15,4</td>
</tr>
<tr>
<td>EJB-3A</td>
<td>364 284 278</td>
<td>300 220 213 14</td>
<td>290 210 M8</td>
<td>19,4</td>
</tr>
<tr>
<td>EJB-3BA</td>
<td>364 284 218</td>
<td>300 220 153 14</td>
<td>290 210 M8</td>
<td>16,4</td>
</tr>
<tr>
<td>* EJB-4</td>
<td>432 332 293</td>
<td>360 260 237 14</td>
<td>350 250 M10</td>
<td>25,4</td>
</tr>
<tr>
<td>* EJB-4B</td>
<td>432 332 223</td>
<td>360 260 167 14</td>
<td>350 250 M10</td>
<td>21,4</td>
</tr>
<tr>
<td>* EJB-45</td>
<td>567 387 298</td>
<td>490 305 229 14</td>
<td>360 236 M10</td>
<td>38,9</td>
</tr>
<tr>
<td>* EJB-45B</td>
<td>567 387 248</td>
<td>490 305 179 14</td>
<td>360 236 M10</td>
<td>35,3</td>
</tr>
<tr>
<td>* EJB-48A</td>
<td>507 432 271</td>
<td>435 360 203 16</td>
<td>350 425 M10</td>
<td>37,5</td>
</tr>
<tr>
<td>* EJB-5</td>
<td>632 432 341</td>
<td>560 360 275 16</td>
<td>350 550 M10</td>
<td>51</td>
</tr>
<tr>
<td>* EJB-5B</td>
<td>632 432 271</td>
<td>560 360 205 16</td>
<td>350 550 M10</td>
<td>43,4</td>
</tr>
<tr>
<td>EJB-55</td>
<td>632 432 397</td>
<td>560 360 330 16</td>
<td>350 550 M10</td>
<td>59,2</td>
</tr>
<tr>
<td>EJB-55B</td>
<td>710 510 356</td>
<td>630 430 273 17</td>
<td>600 400 M10</td>
<td>81,3</td>
</tr>
<tr>
<td>* EJB-6</td>
<td>870 650 480</td>
<td>760 540 353 28</td>
<td>680 460 M16</td>
<td>158,4</td>
</tr>
<tr>
<td>* EJB-6B</td>
<td>870 650 380</td>
<td>760 540 253 28</td>
<td>680 460 M16</td>
<td>138,5</td>
</tr>
</tbody>
</table>

* New model
As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive.

(*) 2 1/2” - 3” - 4” NPT holes can be drilled only on EJB-55…, EJB-6… and EJB-7…
### Thread Comparison Chart

<table>
<thead>
<tr>
<th>D1</th>
<th>ISO 228</th>
<th>G 3/8&quot;</th>
<th>G 1/2&quot;</th>
<th>G 3/4&quot;</th>
<th>-</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 261/965</td>
<td>M16x1.5</td>
<td>M20x1.5</td>
<td>M25x1.5</td>
<td>M32x1.5</td>
<td>M35x1.5</td>
<td>M40x1.5</td>
<td>M42x1.5</td>
<td></td>
</tr>
</tbody>
</table>

### Hole Drilling in Lid

<table>
<thead>
<tr>
<th>Type of Enclosure</th>
<th>Max. n°. of holes allowed for ribbed lids</th>
<th>Max. n°. of holes allowed for solid lids</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJB-1</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>EJB-2</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>EJB-3</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>EJB-4</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>EJB-45</td>
<td>-</td>
<td>28</td>
</tr>
<tr>
<td>EJB-5</td>
<td>-</td>
<td>40</td>
</tr>
<tr>
<td>EJB-55</td>
<td>-</td>
<td>54</td>
</tr>
<tr>
<td>EJB-6</td>
<td>-</td>
<td>60</td>
</tr>
<tr>
<td>EJB-7</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>EJB-01</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>AQS-1</td>
<td>24</td>
<td>-</td>
</tr>
</tbody>
</table>

*Notes:*
- The standard featured is for illustrative purposes only since it has been designed exclusively for M42 holes.
- Standard holes refer to mounting of Cortem control and signalling devices.
- 3/8" Ø holes for Cortem std. side-mounted handles centre-to-centre distance >70mm.
- 1/2" Ø holes for Cortem std. heavy-duty series side-mounted handles centre-to-centre distance >120mm.

### X-Sect. A - A

For solid lid

For ribbed lid

---

A.9

ED.2020
EJB-... series  Features of junction boxes with terminals

These enclosures are customized based on size, on the number of terminals or cables they are due to accommodate, or taking into account the number of cable entries and cabling requirements inside a system. Hence we can produce tailor-made solutions as long as you provide us with the appropriate parameters required at the quote request stage, such as the number of cable glands, unions or sealing fittings to be installed, so that we can determine the most suitable size of enclosure. All terminals can be fitted with your requested accessories and mounted on special rails that are fastened to the enclosure’s internal mounting frames. Terminal strips can be arranged in various ways, as specified by the customer and always within the limits allowed by the certificate. The options are vertical, horizontal, in a number of rows, or on different levels using suitable spacers.

**ELECTRICAL FEATURES**

| Rated voltage:  | 24 / 800 V |
| Rated frequency: | 50 / 60 Hz |

**Modular terminals**

- **Terminal cross-sectional area:** 2.5; 4; 6; 10; 25; 35; 70; 95; 120; 185; 240; 300 [mm²]
- **Rated current:** 12.5 - 452 [A]
- **Max. current density:** 1.5 - 7 [A/mm²]

**Multi-pole terminals**

- **Terminal cross-sectional area:** 3x16; 4x16; 3x25; 4x25; 3x40; 4x40; 3x70; 4x125; 4x125; 3x200; 4x200; 3x315 [mm²]
- **Rated current:** 48 - 252 [A]
- **Max. current density:** 0.8 - 3 [A/mm²]

**Busbars:**

- **Dimensions of busbars:** 20x5; 30x5; 40x5; 50x5; 60x5; 80x5; 100x4; 80x8; 100x5 [mm²]
- **Rated current:** 240 350 480 600 690 800 800 1000 1000 [A]

Data filled in:
1. year of manufacture
2. serial number
3. product code
4. temperature class:
   - T6 for ambient temperature +40°C
   - T5 for ambient temperature +55°C
5. maximum surface temperature:
   - T85°C with T6 temperature class
   - T100°C with T5 temperature class
6. ambient temperature:
   - -20°C +55°C (for IECEx only)
   - -50°C +55°C (for ATEX only)
7. electrical specs per certificate
### EJB-... series  Features of junction boxes with terminals

#### Example of terminal strips with minimum installation distances

<table>
<thead>
<tr>
<th>TYPE OF ENCLOSURE</th>
<th>MAXIMUM NUMBER OF TERMINALS HOUSED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TERMINAL CROSS-SECTIONAL AREA</td>
</tr>
<tr>
<td>EJB-1</td>
<td>2x28</td>
</tr>
<tr>
<td>EJB-2</td>
<td>2x38 2x28</td>
</tr>
<tr>
<td>EJB-3</td>
<td>3x38 3x35 3x28</td>
</tr>
<tr>
<td>EJB-3B</td>
<td>3x38 3x35 3x28</td>
</tr>
<tr>
<td>EJB-4</td>
<td>3x48 3x38 3x30 3x29 3x25 2x18</td>
</tr>
<tr>
<td>EJB-4B</td>
<td>3x48 3x38 3x30 3x29 3x25 2x18</td>
</tr>
<tr>
<td>EJB-45</td>
<td>3x70 3x65 3x50 3x35 3x25 2x20</td>
</tr>
<tr>
<td>EJB-4SB</td>
<td>3x70 3x65 3x50 3x35 3x25 2x20</td>
</tr>
<tr>
<td>EJB-5</td>
<td>3x80 3x70 3x60 3x50 3x40 2x28</td>
</tr>
<tr>
<td>EJB-5B</td>
<td>3x80 3x70 3x60 3x50 3x40 2x28</td>
</tr>
<tr>
<td>EJB-503</td>
<td>3x80 3x70 3x60 3x50 3x40 2x28</td>
</tr>
<tr>
<td>EJB-55</td>
<td>4x90 4x80 4x65 4x50 4x40 3x30</td>
</tr>
<tr>
<td>EJB-55B</td>
<td>4x90 4x80 4x65 4x50 4x40 3x30</td>
</tr>
<tr>
<td>EJB-6</td>
<td>4x120 4x100 4x80 4x60 4x50 3x35</td>
</tr>
<tr>
<td>EJB-6B</td>
<td>4x120 4x100 4x80 4x60 4x50 3x35</td>
</tr>
<tr>
<td>EJB-7</td>
<td>5x150 5x115 5x90 5x75 5x60 4x45</td>
</tr>
<tr>
<td>EJB-7B</td>
<td>5x150 5x115 5x90 5x75 5x60 4x45</td>
</tr>
<tr>
<td>AQS-1</td>
<td>3x54 3x40 3x35 3x32 3x26 2x18</td>
</tr>
<tr>
<td>EJB-01</td>
<td>20 20 15 12 10 3</td>
</tr>
</tbody>
</table>

Eg. 2x28 = 2 rows of 28 terminals (total 56 terminals). The maximum number of standard terminals refers to CABUR terminals.
Features of junction boxes for control, monitoring and signalling units

Control, monitoring and signalling units are used to produce control boards that, when positioned near the electrical equipment being controlled, enable the electrical system to operate correctly and guarantee the safety of personnel when maintenance is being performed on the system. Because they are fitted with a Manual/Automatic selector, they allow operators to select the appropriate conditions to enable work to be performed entirely safely. They offer protection and control for electrical equipment and control circuits located in explosion hazard areas and in particularly aggressive environments. They are used to hold electrical equipment, such as switches, indicators, contactors, transformers, analogue and digital components, etc... with the option of external control by using lid-mounted Cortem control and signalling devices, such as control levers, pushbuttons, indicator lights, etc.... Cortem designs, develops and supplies full cabling for one or more enclosures tailored to your specific requirements, producing panel boards - including even extremely complex solutions - and providing a full inspection and testing service on request.

ELECTRICAL FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage:</td>
<td>24 / 1000 Vac 12 / 250 Vdc</td>
</tr>
<tr>
<td>Max. current on contacts and fuses:</td>
<td>650 A</td>
</tr>
<tr>
<td>Rated frequency:</td>
<td>50 / 60Hz</td>
</tr>
<tr>
<td>Max. wattage for lamps:</td>
<td>5 W (for Ta +40°C) / 3 W (for Ta +55°C)</td>
</tr>
</tbody>
</table>

Electrical characteristics valid for size EJB-55, EJB-6, EJB-6B, EJB-7, EJB-7B. (T5 100°C).

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage:</td>
<td>up to 690 Vac</td>
</tr>
<tr>
<td>Max. current:</td>
<td>up to 1000 A</td>
</tr>
</tbody>
</table>

Electrical characteristics valid for size EJB-45, EJB-5, EJB-5B, EJB-55B. (T5 100°C).

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage:</td>
<td>up to 750 Vcc</td>
</tr>
<tr>
<td>Max. current:</td>
<td>up to 630 A</td>
</tr>
</tbody>
</table>

Features of equipment that can be installed in enclosures to produce control and monitoring units.

Table of electrical features of components that can be installed in enclosures to produce control, monitoring and signalling units.

(The values refer to the catalogs of the leading manufacturers of electrical/electronic components available on the market)

<table>
<thead>
<tr>
<th>COMPONENT TYPE</th>
<th>Max. V (Volts)</th>
<th>Max. I (Amperes)</th>
<th>Max. power (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analogue and digital instruments</td>
<td>660</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Electronic inverters/reactors</td>
<td>400</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>PLCs Multiplexers and amplifiers</td>
<td>240</td>
<td>-</td>
<td>80</td>
</tr>
<tr>
<td>Testing and measuring devices</td>
<td>240</td>
<td>-</td>
<td>100</td>
</tr>
<tr>
<td>Circuit breakers</td>
<td>660 / 650</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fuses</td>
<td>660 / 400</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Relays</td>
<td>500 / 10</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Electronic control devices</td>
<td>660 / 650</td>
<td>-</td>
<td>100</td>
</tr>
<tr>
<td>Contactors</td>
<td>660 / 650</td>
<td>-</td>
<td>30</td>
</tr>
<tr>
<td>Timers</td>
<td>240 / 10</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Twilight relays</td>
<td>240 / -</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Capacitors</td>
<td>660 / -</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Transformers</td>
<td>660 / -</td>
<td>-</td>
<td>200</td>
</tr>
<tr>
<td>Resistors</td>
<td>240 / -</td>
<td>-</td>
<td>300</td>
</tr>
<tr>
<td>Terminals</td>
<td>660 / -</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reactors</td>
<td>277 / 7.5</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

Minimum air gap between components

<table>
<thead>
<tr>
<th>Component voltage (V ac)</th>
<th>Min. air gap (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 - 250</td>
<td>6</td>
</tr>
<tr>
<td>250 - 380</td>
<td>8</td>
</tr>
<tr>
<td>380 - 500</td>
<td>10</td>
</tr>
<tr>
<td>500 - 660</td>
<td>12</td>
</tr>
<tr>
<td>660 - 1000</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component voltage (V dc)</th>
<th>Min. air gap (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 - 250</td>
<td>6</td>
</tr>
</tbody>
</table>

ED.2020
Features of junction boxes for control, monitoring and signalling units

Identification and description of special equipment that can be installed inside.

Enclosures with batteries
Option of installing low-capacity batteries ≤1.5Ah, for powering small electronic devices or backup memories. Whatever the case, the minimum distance of 20mm between the components installed and the inside walls of the enclosure must be met.

Enclosures with inverters
EJB-4, EJB-45, EJB-5, EJB-6, EJB-7 series enclosures, depending on the maximum ambient temperature (+40°C or +55°C), can be fitted with inverters (ABB ACS550 or similar types) provided maximum power dissipation falls within the permitted range (see table).

Enclosures with surge arresters
Option of installing PRD or similar types of surge arresters, with a maximum protection limit of 65kA; whatever the case, the minimum distance of 20 mm between the arrester and the inside walls of the enclosure must be met.

Enclosures with fibre-optic cables
The enclosures have provision for feeding multiple (not single) fibre-optic cables in and out. The permitted optical power and radiation limits for optical cables are:
- 35mW and 5mW/m² for T4 temperature class
- 15mW and 5mW/m² for T6 temperature class

Enclosures with power transformer
Option of installing single-phase transformers (and three-phase transformers with EJB-7 only) provided maximum power is within the limits allowed by the certificate.

Enclosures with radio-frequency sources
Option of installing components with radio-frequency sources in the 9kHz to 60GHz range that can be used for continuous and pulsed transmission of signals. Antennas can be installed inside or outside the enclosure and must:
- comply with one of the protection types indicated in standard EN 60079-0
- be installed outside the hazardous area.

For more information, refer to extension 05/10 CESI 01 ATEX 027.
Table with maximum power dissipation values for EJB and AQS series enclosures.

The temperature classes and maximum surface temperatures of control and monitoring unit enclosures depend on the size of the enclosure, ambient temperature and power dissipation inside the enclosure.

### Enclosure type

<table>
<thead>
<tr>
<th>Enclosure type</th>
<th>Maximum power dissipation (Watts) with ambient temperature of +40°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T6 class without indicator lights. Only indicator LEDs are allowed.</td>
</tr>
<tr>
<td>EJB-01</td>
<td>30</td>
</tr>
<tr>
<td>EJB-1</td>
<td>45</td>
</tr>
<tr>
<td>EJB-2</td>
<td>60</td>
</tr>
<tr>
<td>EJB-3</td>
<td>75</td>
</tr>
<tr>
<td>EJB-3B</td>
<td>55</td>
</tr>
<tr>
<td>EJB-4</td>
<td>100</td>
</tr>
<tr>
<td>EJB-4B</td>
<td>75</td>
</tr>
<tr>
<td>EJB-45</td>
<td>140</td>
</tr>
<tr>
<td>EJB-45B</td>
<td>120</td>
</tr>
<tr>
<td>EJB-5</td>
<td>210</td>
</tr>
<tr>
<td>EJB-5B</td>
<td>170</td>
</tr>
<tr>
<td>EJB-503</td>
<td>230</td>
</tr>
<tr>
<td>EJB-55</td>
<td>260</td>
</tr>
<tr>
<td>EJB-55B</td>
<td>210</td>
</tr>
<tr>
<td>EJB-6</td>
<td>600</td>
</tr>
<tr>
<td>EJB-6B</td>
<td>490</td>
</tr>
<tr>
<td>EJB-7</td>
<td>770</td>
</tr>
<tr>
<td>EJB-7B</td>
<td>600</td>
</tr>
<tr>
<td>AQS-1</td>
<td>100</td>
</tr>
</tbody>
</table>

### Enclosure type

<table>
<thead>
<tr>
<th>Enclosure type</th>
<th>Maximum power dissipation (Watts) with ambient temperature of +55°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T6 class without indicator lights. Only indicator LEDs are allowed.</td>
</tr>
<tr>
<td>EJB-01</td>
<td>25</td>
</tr>
<tr>
<td>EJB-1</td>
<td>34</td>
</tr>
<tr>
<td>EJB-2</td>
<td>45</td>
</tr>
<tr>
<td>EJB-3</td>
<td>56</td>
</tr>
<tr>
<td>EJB-3B</td>
<td>40</td>
</tr>
<tr>
<td>EJB-4</td>
<td>75</td>
</tr>
<tr>
<td>EJB-4B</td>
<td>56</td>
</tr>
<tr>
<td>EJB-45</td>
<td>105</td>
</tr>
<tr>
<td>EJB-45B</td>
<td>90</td>
</tr>
<tr>
<td>EJB-5</td>
<td>160</td>
</tr>
<tr>
<td>EJB-5B</td>
<td>130</td>
</tr>
<tr>
<td>EJB-503</td>
<td>176</td>
</tr>
<tr>
<td>EJB-55</td>
<td>200</td>
</tr>
<tr>
<td>EJB-55B</td>
<td>160</td>
</tr>
<tr>
<td>EJB-6</td>
<td>460</td>
</tr>
<tr>
<td>EJB-6B</td>
<td>370</td>
</tr>
<tr>
<td>EJB-7</td>
<td>590</td>
</tr>
<tr>
<td>EJB-7B</td>
<td>460</td>
</tr>
<tr>
<td>AQS-1</td>
<td>75</td>
</tr>
</tbody>
</table>
EJB-... series Features of junction boxes with interface units

**ELECTRICAL FEATURES**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage:</td>
<td>24 / 1000 Vac 12 / 250 Vdc</td>
</tr>
<tr>
<td>Max. current on contacts and fuses:</td>
<td>400 A</td>
</tr>
<tr>
<td>Rated frequency:</td>
<td>50 / 60Hz</td>
</tr>
<tr>
<td>Max. wattage for lamps:</td>
<td>5 W (for Ta +40°C) 3 W (for Ta +55°C)</td>
</tr>
</tbody>
</table>

**GENERAL INSTALLATION INFORMATION**

The maximum power dissipation inside the enclosure depends on the maximum current on contacts and fuses, the size of the enclosure, the temperature class (or maximum surface temperature for 2GD category) and ambient temperature, as specified in the maximum power dissipation tables (see previous page).

The maximum power dissipation must not exceed the values given in the table when non-'Ex i' components and 'Ex i' components (with 1.1W maximum power dissipation) are installed together.

The maximum power dissipation possible inside the enclosure will also depend on the maximum power dissipation of terminals, contacts and cables; whatever the case, the current density value allowed in the enclosure is prescribed by EN 60439-1, IEC 60439-1.

Details of barrier mounting inside enclosures

The "omega" rail, in accordance with EN 60079-11, is suitable for mounting barriers inside 'Ex d' enclosures.

Barriers are mounted (according to the manufacturer's directions) 7.5 mm away from the base of the enclosure and are secured to the DIN rail with 2 earth terminals (nominal cross-sectional area 6-10 mm) and 2 standard terminals for omega rails (EN 60079-11).

Up to how many barriers can be installed in the enclosures will depend on the properties of the barriers in question; in addition, the maximum number of barriers must not exceed the limit allowed by the certificate in any case.

Associated equipment can also be mounted on a DIN rail; when it is mounted on the enclosure's internal mounting plate, reference must be made to the minimum prescribed distances. Whether mounted on a rail or mounting plate, associated equipment must meet the following requirements:

**Separators**

When separators are used, they must be appropriately sized; their thickness and fastening inside the enclosure must be suitably determined and separators must allow air to circulate inside the enclosure.

**Incoming cables**

Incoming cables for 'Ex i' circuits must be suitably labelled or the area around the entry must be coloured blue RAL 5015. 'Ex i' entries must be clearly identified.

**Installation of 'Ex i' and non-'Ex i' components inside the enclosure.**

Ex d IIB certified enclosures complete with accessories can contain only Ex ia IIB/IIC associated equipment; in this case, the resulting version becomes Ex d [ia] IIB.

**Connection of internal cables**

Cables are connected inside the enclosure to the barriers in accordance with EN 60079-11, with one side for connecting 'Ex i' cables and the opposite side for connecting non-'Ex i' cables.

Connection in 'Ex i' circuits must be made using insulated cables only; there must be no connections to non-'Ex i' circuits and no more than one cable can be connected to a single terminal. 'Ex i' cables cannot be grouped together with non-'Ex i' cables; in addition, 'Ex i' cables and non-'Ex i' cables must be kept separated. The minimum distance between the 2 types of cables must be 8 mm. The minimum insulation level for non-'Ex i' cables must be greater than 1.5 kV; the minimum insulation level for 'Ex i' cables must be greater than 0.5 kV.

**Internal connections**

When routing cables belonging to 'Ex i' circuits, the cables must be identified in one of the following ways:

- cables must have blue insulation (as long as there are no other cables inside the enclosure with this colour).
- 'Ex i' cables must be kept separate from non-'Ex i' cables with blue cable raceways.
- 'Ex i' cables must be grouped together, using a tie, for example, and the area identified with a blue label.

**Warning 'Ex i' circuits**

- cables for power circuits must have a cross-sectional area of at least 1.5 mm².
- 'Ex i' circuits must be kept at a distance of 50 mm from non-'Ex i' circuits.
- the earth connection must meet European standard EN 60079-14.
The number of items of equipment mounted inside the enclosures and their layout will vary based on the following:

- in accordance with EN 60079-1 and IEC 60079-1, the equipment contained inside the enclosure can be arranged in any way provided that at least 20% of the surface area of each section is left free.
- equipment must be set at a suitable distance to accommodate cable wiring.

### Maximum dimensions of 'Ex ia' equipment that can be installed inside enclosures.

<table>
<thead>
<tr>
<th>Model</th>
<th>d</th>
<th>e</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJB-01</td>
<td>140</td>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>EJB-1</td>
<td>160</td>
<td>60</td>
<td>110</td>
</tr>
<tr>
<td>EJB-2</td>
<td>280</td>
<td>80</td>
<td>110</td>
</tr>
<tr>
<td>EJB-3</td>
<td>150</td>
<td>140</td>
<td>170</td>
</tr>
<tr>
<td>EJB-3B</td>
<td>150</td>
<td>140</td>
<td>110</td>
</tr>
<tr>
<td>EJB-4</td>
<td>280</td>
<td>180</td>
<td>190</td>
</tr>
<tr>
<td>EJB-4B</td>
<td>280</td>
<td>180</td>
<td>120</td>
</tr>
<tr>
<td>EJB-45</td>
<td>410</td>
<td>225</td>
<td>170</td>
</tr>
<tr>
<td>EJB-45B</td>
<td>410</td>
<td>225</td>
<td>120</td>
</tr>
<tr>
<td>EJB-5</td>
<td>480</td>
<td>280</td>
<td>220</td>
</tr>
<tr>
<td>EJB-5B</td>
<td>480</td>
<td>280</td>
<td>150</td>
</tr>
<tr>
<td>EJB-55</td>
<td>550</td>
<td>350</td>
<td>340</td>
</tr>
<tr>
<td>EJB-55B</td>
<td>550</td>
<td>350</td>
<td>240</td>
</tr>
<tr>
<td>EJB-6</td>
<td>670</td>
<td>450</td>
<td>300</td>
</tr>
<tr>
<td>EJB-6B</td>
<td>670</td>
<td>450</td>
<td>200</td>
</tr>
<tr>
<td>AQS-1</td>
<td>350</td>
<td>300</td>
<td>90</td>
</tr>
</tbody>
</table>

### Examples of installation of associated equipment - minimum distances.

- Ex i' components
- non-'Ex i' components

- The active and passive barriers that can be installed in the enclosures must have their own ATEX certificate.
- The maximum voltage entering barriers on non-'Ex i' circuits must be less than 250 V.

### Example of interface unit (with associated equipment)

- complete with separator

### Example of interface unit without separator

- separator made from insulating material or metal
- cable tray fastened to lid

NOTES

(*) 50 mm is the minimum safe distance between 'Ex i' components and non-'Ex i' components (and/or conducting parts).
EJB series junction boxes are used as enclosures for electrical equipment that requires a visual interface with the outside. Voltmeters, ammeters and other analogue and digital measuring instruments are typical examples of installations that require a window for taking direct readings. These enclosures are also used to house monitoring instruments such as infra-red photoelectric cells and twilight sensors that provide pulses for control and signalling equipment (opening/closing, alarms, etc.). Our technical department will decide what size enclosures to use based on your requirements and determine the internal layout so that all the dimensional and electrical parameters prescribed by the certificate are met. We can install equipment to your specifications within the technical limits allowed by the certificate and based on our standard control and signalling devices.
<table>
<thead>
<tr>
<th>Code</th>
<th>Outside dimensions A</th>
<th>B</th>
<th>C</th>
<th>Inside dimensions a</th>
<th>b</th>
<th>c</th>
<th>N° of windows</th>
<th>Size of windows H</th>
<th>G</th>
<th>i</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJB-2/1W0</td>
<td>424</td>
<td>224</td>
<td>218</td>
<td>360</td>
<td>160</td>
<td>153</td>
<td>1</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-3/1W0</td>
<td>364</td>
<td>284</td>
<td>278</td>
<td>300</td>
<td>220</td>
<td>213</td>
<td>1</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-3B/1W0</td>
<td>364</td>
<td>284</td>
<td>218</td>
<td>300</td>
<td>220</td>
<td>153</td>
<td>1</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-4/2W0</td>
<td>432</td>
<td>332</td>
<td>299</td>
<td>360</td>
<td>260</td>
<td>233</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>EJB-4B/2W0</td>
<td>432</td>
<td>332</td>
<td>229</td>
<td>360</td>
<td>260</td>
<td>163</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>EJB-4/1W2</td>
<td>432</td>
<td>332</td>
<td>299</td>
<td>360</td>
<td>260</td>
<td>233</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-4B/1W2</td>
<td>432</td>
<td>332</td>
<td>229</td>
<td>360</td>
<td>260</td>
<td>163</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-4/2W0</td>
<td>560</td>
<td>380</td>
<td>298</td>
<td>490</td>
<td>305</td>
<td>229</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>EJB-4B/2W0</td>
<td>560</td>
<td>380</td>
<td>253</td>
<td>490</td>
<td>305</td>
<td>179</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>EJB-4/1W2</td>
<td>560</td>
<td>380</td>
<td>298</td>
<td>490</td>
<td>305</td>
<td>229</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-4B/1W2</td>
<td>560</td>
<td>380</td>
<td>253</td>
<td>490</td>
<td>305</td>
<td>179</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-5/2W0</td>
<td>632</td>
<td>432</td>
<td>341</td>
<td>560</td>
<td>360</td>
<td>275</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>EJB-5B/2W0</td>
<td>632</td>
<td>432</td>
<td>271</td>
<td>560</td>
<td>360</td>
<td>205</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>EJB-5/1W2</td>
<td>632</td>
<td>432</td>
<td>341</td>
<td>560</td>
<td>360</td>
<td>275</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-5B/1W2</td>
<td>632</td>
<td>432</td>
<td>271</td>
<td>560</td>
<td>360</td>
<td>205</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-5/1W3</td>
<td>632</td>
<td>432</td>
<td>341</td>
<td>560</td>
<td>360</td>
<td>275</td>
<td>1</td>
<td>180</td>
<td>15</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-5B/1W3</td>
<td>632</td>
<td>432</td>
<td>271</td>
<td>560</td>
<td>360</td>
<td>205</td>
<td>1</td>
<td>180</td>
<td>15</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-503/2W0</td>
<td>632</td>
<td>432</td>
<td>397</td>
<td>560</td>
<td>360</td>
<td>330</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>EJB-503/1W2</td>
<td>632</td>
<td>432</td>
<td>397</td>
<td>560</td>
<td>360</td>
<td>330</td>
<td>1</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-503/1W3</td>
<td>632</td>
<td>432</td>
<td>397</td>
<td>560</td>
<td>360</td>
<td>330</td>
<td>1</td>
<td>180</td>
<td>15</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-55/3W0</td>
<td>710</td>
<td>510</td>
<td>356</td>
<td>630</td>
<td>430</td>
<td>273</td>
<td>3</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-55B/3W0</td>
<td>710</td>
<td>510</td>
<td>256</td>
<td>630</td>
<td>430</td>
<td>173</td>
<td>3</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-55/2W2</td>
<td>710</td>
<td>510</td>
<td>356</td>
<td>630</td>
<td>430</td>
<td>273</td>
<td>2</td>
<td>140</td>
<td>12</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>EJB-55B/2W2</td>
<td>710</td>
<td>510</td>
<td>256</td>
<td>630</td>
<td>430</td>
<td>173</td>
<td>2</td>
<td>140</td>
<td>12</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>EJB-55/2W3</td>
<td>710</td>
<td>510</td>
<td>356</td>
<td>630</td>
<td>430</td>
<td>273</td>
<td>2</td>
<td>180</td>
<td>15</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>EJB-55B/2W3</td>
<td>710</td>
<td>510</td>
<td>256</td>
<td>630</td>
<td>430</td>
<td>173</td>
<td>2</td>
<td>180</td>
<td>15</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>EJB-6/2W0</td>
<td>870</td>
<td>650</td>
<td>480</td>
<td>760</td>
<td>540</td>
<td>353</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-6B/2W0</td>
<td>870</td>
<td>650</td>
<td>380</td>
<td>760</td>
<td>540</td>
<td>253</td>
<td>2</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-6/2W2</td>
<td>870</td>
<td>650</td>
<td>480</td>
<td>760</td>
<td>540</td>
<td>353</td>
<td>2</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-6B/2W2</td>
<td>870</td>
<td>650</td>
<td>380</td>
<td>760</td>
<td>540</td>
<td>253</td>
<td>2</td>
<td>140</td>
<td>12</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-6/1W3</td>
<td>870</td>
<td>650</td>
<td>480</td>
<td>760</td>
<td>540</td>
<td>353</td>
<td>1</td>
<td>180</td>
<td>15</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-6B/1W3</td>
<td>870</td>
<td>650</td>
<td>380</td>
<td>760</td>
<td>540</td>
<td>252</td>
<td>1</td>
<td>180</td>
<td>15</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-7/3W0</td>
<td>1000</td>
<td>700</td>
<td>500</td>
<td>890</td>
<td>590</td>
<td>340</td>
<td>3</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EJB-7B/3W0</td>
<td>1000</td>
<td>700</td>
<td>400</td>
<td>890</td>
<td>590</td>
<td>240</td>
<td>3</td>
<td>90</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
EJB-... series  Junction boxes with viewing windows

We can provide standard windows to meet your requirements for the various enclosure types for such purposes as viewing analogue or digital instruments, indicators of various kinds.

DIMENSIONAL DRAWING OF ENCLOSURES WITH RECTANGULAR WINDOWS (tempered glass).
Position of standard window in centre.
Non-standard window positions or dimensions on request.

ENCLOSURES WITH STANDARD 300x200 CAST WINDOWS
(drawning 2)

DETAIL
EJB-4/3020
EJB-4B/3020

DETAIL
EJB-45/3020
EJB-45B/3020

DETAIL
EJB-5/3020
EJB-5B/3020

DETAIL
EJB-5/3020C
EJB-5B/3020C
### EJB-... series  Junction boxes with viewing windows

<table>
<thead>
<tr>
<th>Code</th>
<th>Outside dimensions</th>
<th>Internal dimensions</th>
<th>Window size</th>
<th>Positioning of window</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>EJB-1/1508</td>
<td>304</td>
<td>204</td>
<td>218</td>
<td>240</td>
<td>140</td>
</tr>
<tr>
<td>EJB-2/2508</td>
<td>424</td>
<td>224</td>
<td>218</td>
<td>360</td>
<td>160</td>
</tr>
<tr>
<td>EJB-3/2015</td>
<td>364</td>
<td>284</td>
<td>278</td>
<td>300</td>
<td>220</td>
</tr>
<tr>
<td>EJB-3B/2015</td>
<td>364</td>
<td>284</td>
<td>218</td>
<td>300</td>
<td>220</td>
</tr>
<tr>
<td>EJB-4/3020</td>
<td>432</td>
<td>332</td>
<td>299</td>
<td>360</td>
<td>260</td>
</tr>
<tr>
<td>EJB-4B/3020</td>
<td>432</td>
<td>332</td>
<td>229</td>
<td>360</td>
<td>260</td>
</tr>
<tr>
<td>EJB-45/3020SP</td>
<td>560</td>
<td>380</td>
<td>298</td>
<td>490</td>
<td>305</td>
</tr>
<tr>
<td>EJB-45B/3020SP</td>
<td>560</td>
<td>380</td>
<td>248</td>
<td>490</td>
<td>305</td>
</tr>
<tr>
<td>EJB-5/3020SP</td>
<td>632</td>
<td>432</td>
<td>341</td>
<td>560</td>
<td>360</td>
</tr>
<tr>
<td>EJB-5B/3020SP</td>
<td>632</td>
<td>432</td>
<td>271</td>
<td>560</td>
<td>360</td>
</tr>
<tr>
<td>EJB-503/3020SP</td>
<td>632</td>
<td>432</td>
<td>397</td>
<td>560</td>
<td>360</td>
</tr>
<tr>
<td>EJB-55/3020</td>
<td>710</td>
<td>510</td>
<td>356</td>
<td>630</td>
<td>430</td>
</tr>
<tr>
<td>EJB-55B/3020</td>
<td>710</td>
<td>510</td>
<td>256</td>
<td>630</td>
<td>430</td>
</tr>
<tr>
<td>EJB-6/3020</td>
<td>870</td>
<td>650</td>
<td>480</td>
<td>760</td>
<td>540</td>
</tr>
<tr>
<td>EJB-6B/3020</td>
<td>870</td>
<td>650</td>
<td>380</td>
<td>760</td>
<td>540</td>
</tr>
<tr>
<td>EJB-7/2010</td>
<td>1000</td>
<td>700</td>
<td>500</td>
<td>890</td>
<td>590</td>
</tr>
<tr>
<td>EJB-7B/2010</td>
<td>1000</td>
<td>700</td>
<td>400</td>
<td>890</td>
<td>590</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Enclosures with standard machined windows**

Central as illustrated in “drawing 1”.

Non-standard window positioning or dimensions on request.

**Enclosures with standard cast windows**

Central as illustrated in “drawing 2”.

---

**DON’T FORGET TO ORDER THE ACCESSORIES**

Example: Enclosure type EJB-55 + Internal mounting plate BFE-55 + Hinges 218-9301 + other...see key

---

ED.2020
## EJB-... series Accessories available on request and spare parts

<table>
<thead>
<tr>
<th>ILLUSTRATION</th>
<th>DESCRIPTION</th>
<th>MODEL</th>
<th>FEATURES</th>
<th>CODE</th>
<th>KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Internal mounting plates" /></td>
<td>Internal mounting plates</td>
<td>EJB-01</td>
<td>Thickness 2.5mm</td>
<td>BFE-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-1</td>
<td>Aluminium (BFE-...)</td>
<td>BFE-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-2</td>
<td>Galvanized steel (BFE-...AC)</td>
<td>BFE-2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-3/3B</td>
<td>Stainless steel (BFE-...SS)</td>
<td>BFE-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-4/4B</td>
<td></td>
<td>BFE-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-45/45B</td>
<td></td>
<td>BFE-45</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-48BA</td>
<td></td>
<td>BFE-48</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-5/5B</td>
<td></td>
<td>BFE-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-55/55B</td>
<td></td>
<td>BFE-55</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-6/6B</td>
<td></td>
<td>BFE-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-7/7B</td>
<td></td>
<td>BFE-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AQS-1</td>
<td></td>
<td>K-171</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Breather and drain valve" /></td>
<td>Breather and drain valve</td>
<td>EJB-01</td>
<td>Thread diameter ISO 7-R 3/8&quot;</td>
<td>ECD-210S</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Hinges" /></td>
<td>Hinges (2 per enclosure)</td>
<td>EJB-01</td>
<td>Material: stainless steel</td>
<td>K-0351</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Cable glands and unions" /></td>
<td>Cable glands and unions</td>
<td></td>
<td>For models and codes, visit <a href="http://www.cortemgroup.com">www.cortemgroup.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Sealed bushings" /></td>
<td>Sealed bushings</td>
<td></td>
<td>For models and codes, visit <a href="http://www.cortemgroup.com">www.cortemgroup.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Lid-mounted control and signalling devices" /></td>
<td>Lid-mounted control and signalling devices</td>
<td>EJB-...</td>
<td>For control and signalling device models and codes, see control and monitoring device chapter</td>
<td>M-0...</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="N°2 hinges per enclosure (n°3 per EJB-6, EJB-7)" /></td>
<td>N°2 hinges per enclosure (n°3 per EJB-6, EJB-7)</td>
<td>EJB-...</td>
<td>Material: stainless steel</td>
<td>218-9301</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-6 / EJB-7</td>
<td></td>
<td>218-9303</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Mounting brackets" /></td>
<td>Mounting brackets</td>
<td>EJB-01</td>
<td>Material: galvanized steel</td>
<td>K01-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-1</td>
<td></td>
<td>K1-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-2</td>
<td></td>
<td>K2-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-3/3B</td>
<td></td>
<td>K3-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-4/4B</td>
<td></td>
<td>K4-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-45/45B</td>
<td></td>
<td>K45-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-48BA</td>
<td></td>
<td>K5-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-5/5B</td>
<td></td>
<td>K55-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-55/55B</td>
<td></td>
<td>K6-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-6/6B</td>
<td></td>
<td>K7-237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-7/7B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="O-ring between body and lid" /></td>
<td>O-ring between body and lid</td>
<td>EJB-01</td>
<td>Material: red-coloured silicone</td>
<td>K01-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-1</td>
<td></td>
<td>K1-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-2</td>
<td></td>
<td>K2-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-3/3B</td>
<td></td>
<td>K3-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-4/4B</td>
<td></td>
<td>K4-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-45/45B</td>
<td></td>
<td>K45-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-48BA</td>
<td></td>
<td>K48-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-5/5B</td>
<td></td>
<td>K5-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-55/55B</td>
<td></td>
<td>K55-131S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-6/6B</td>
<td></td>
<td>K6-131/1S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EJB-7/7B</td>
<td></td>
<td>K61-131S</td>
<td></td>
</tr>
</tbody>
</table>
EJB-... series  Accessories available on request and spare parts

Dimensional drawings of internal mounting plates and mounting brackets

<table>
<thead>
<tr>
<th>Enclosures</th>
<th>Internal mounting plates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>EJB-01</td>
<td>205</td>
</tr>
<tr>
<td>EJB-1</td>
<td>220</td>
</tr>
<tr>
<td>EJB-2</td>
<td>340</td>
</tr>
<tr>
<td>EJB-3 /3B</td>
<td>280</td>
</tr>
<tr>
<td>EJB-4 /4B</td>
<td>340</td>
</tr>
<tr>
<td>EJB-45 /45B</td>
<td>460</td>
</tr>
<tr>
<td>EJB-48BA</td>
<td>400</td>
</tr>
<tr>
<td>EJB-5 /5B</td>
<td>530</td>
</tr>
<tr>
<td>EJB-55 /55B</td>
<td>600</td>
</tr>
<tr>
<td>EJB-6 /6B</td>
<td>720</td>
</tr>
<tr>
<td>EJB-7 /7B</td>
<td>850</td>
</tr>
<tr>
<td>AQS-1</td>
<td>400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enclosures</th>
<th>Mounting brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>EJB-1</td>
<td>230</td>
</tr>
<tr>
<td>EJB-2</td>
<td>250</td>
</tr>
<tr>
<td>EJB-3 /3B</td>
<td>310</td>
</tr>
<tr>
<td>EJB-4 /4B</td>
<td>350</td>
</tr>
<tr>
<td>EJB-45 /45B</td>
<td>376</td>
</tr>
<tr>
<td>EJB-48BA</td>
<td>450</td>
</tr>
<tr>
<td>EJB-5 /5B</td>
<td>510</td>
</tr>
<tr>
<td>EJB-55 /55B</td>
<td>510</td>
</tr>
<tr>
<td>EJB-6 /6B</td>
<td>620</td>
</tr>
<tr>
<td>EJB-7 /7B</td>
<td>690</td>
</tr>
</tbody>
</table>

Example of control panel with floor-mounting system and detail of connection with sealed bushings.