Series BA

Specifications

Regulations: DIN VDE 0627, DIN VDE 0110, DIN EN 61 984

Approvals: UR, SEV, MEIE, EZÜ

Number of poles: 6, 12 (2 x 6) + PE

Electrical Data acc. to DIN EN 61 984:

<table>
<thead>
<tr>
<th>Operating current per contact (A)</th>
<th>Conductor cross section 4 mm²</th>
<th>Conductor cross section 6 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated current</td>
<td>35 A</td>
<td>35 A</td>
</tr>
<tr>
<td>Rated voltage conductor - earth</td>
<td>400/690 V</td>
<td>500 V</td>
</tr>
<tr>
<td>Rated surge</td>
<td>6 kV</td>
<td>6 kV</td>
</tr>
<tr>
<td>Pollution degree or</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Rated voltage acc. to UL/CSA: 600 V
(Tables with rated surges see chapter "Information")

Material: Glass-fibre reinforced polyamide

Temperature range: -40 °C to +125 °C

Flame class rating acc. to UL 94: V0

Mechanical operating life: ≥ 500 mating cycles

Contacts

Material: Copper alloy

Surface - hard silver plated: 3 µm Ag

Contact resistance: ≤ 0.5 mΩ

Screw terminal with wire protection: 6 mm² (10 AWG)

Torque/testing torque: 1.2 Nm

Wire stripping length: 10 mm

Application hint:
Industrial connectors are electrical devices which must not be connected or disconnected under load!

The derating diagram (corrected current capacity curve) acc. to DIN IEC 60 512 applies to such current which can - depending on ambient temperature and conductor size - circulate through each contact without exceeding the upper limiting temperature.
| Description                  | Part no. | Series BA 6 P +
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>35 A / 400/690 V</td>
<td>UL/CSA: 600 V</td>
<td></td>
</tr>
</tbody>
</table>

### Screw terminal inserts

- **Female insert**
  - screw terminal
  - with wire protection
  - 0.5-6 mm² (20-10 AWG)
  - Part no. 710 620

- **Male insert**
  - screw terminal
  - with wire protection
  - 0.5-6 mm² (20-10 AWG)
  - Part no. 710 621

### Contact arrangement

- Panel cut-out
- View from termination side

*Matching housings see page 119 - 126 / screw-mountable hoods see page 149*
### Screw terminal inserts

**Female insert**
- Screw terminal with wire protection 1 - 6
  - 0.5 - 6 mm² (20-10 AWG)
  - Part no.: 710 620
- Screw terminal with wire protection 7 - 12
  - 0.5 - 6 mm² (20-10 AWG)
  - Part no.: 710 692

**Male insert**
- Screw terminal with wire protection 1 - 6
  - 0.5 - 6 mm² (20-10 AWG)
  - Part no.: 710 621
- Screw terminal with wire protection 7 - 12
  - 0.5 - 6 mm² (20-10 AWG)
  - Part no.: 710 693

### Contact arrangement

View from termination side

- Female insert
- Male insert

Panel cut-out

► Matching housings see page 137/138