For all terminals.

4.0 x 0.8 mm (0.157 x 0.031)

Primary switch mode power supplies CP-PX range

Illustrations of the products

LED

Output voltage U_{in}

OUTPUT OK

User green

1.2 Nm (10.5 ft-lb)

0.3...4.0 mm² (22...10 AWG)

1.4 x 10 mm (0.56")

1.4 x 10 mm (0.56")

1.4 x 10 mm (0.56")

0.3...4.0 mm² (22...10 AWG)

0.3...4.0 mm² (22...10 AWG)

0.3...4.0 mm² (22...10 AWG)

For all terminals.

(EN) Safety instructions and warnings

Disconnect system from supply network!

Before any installation, maintenance or modification work: Disconnect the system from the supply network and protect against switching on.

Before start of operation:

Attention: Improper installation or operation may impair safety and cause operational difficulties or destruction of the unit. Before operation the following must be ensured:

- Connect to main according to the specific national regulations for case of protection I
- Cables and unit must be sufficiently fused. A disconnecting device has to be provided for the end product to stop the unit and supply cables from supply mains if required.
- The protective earth conductor must be connected to the terminal.
- Rate the output lines for the output current of the device and connect them with the correct polarity.
- In order to ensure sufficient air cooling the distance to other modules has to be considered (min. 20 mm).

In operation:

- Do not modify the installation (primary and secondary side). High current Risk of electric arcs and electric shock (danger to life).
- Risk of burns! Depending on the operation conditions the enclosure can become very hot.
- If the internal fuse blows, most probably the device is defective. In this case, an examination of the device by the manufacturer is necessary.

Warning: High voltage! Stored energy! Energy hazard at output!

The device contains components with high stored energy and circuits with high voltage! Do not introduce any objects into the device, and do not open the unit. With some devices of this range the output is capable of providing hazardous energy. Ensure that the service personal is protected against inadvertent contact with parts carrying energy.

Because of no PFC, CP-PX 24/10.5 and CP-PX 24/14.6 are not intended to be connected to public low-voltage distribution system according the national directive.

(EN) Operating and installation instructions

Note: These operating and installation instructions cannot claim to contain all detailed information of all types of this product range and can never consider every possible application of the products. All statements serve exclusively to describe the product and have not to be understood as contractually agreed characteristics.

Further information and data is obtainable from the catalogues and data sheets of this product, from the local ABB sales organisations as well as on the ABB homepage www.abb.com. Subject to change without prior notice. The English text applies in cases of doubt.

Warning! Hazardous voltage! Installation by person with electrotechnical expertise only and in accordance with the specific national regulations (e.g., VDE, etc). Before installing this unit, read these operating and installation instructions carefully and completely. The devices are maintenance-free chassis-mounted units.

0.3...4.0 mm² (22...10 AWG)

50.0±0.3 32.5±0.3

Ambient temperature [°C]

Output voltage U_{out} Output OK [°C]

Input voltage [V]

Characteristic curves of temperature

Output voltage U_{out} Input voltage [V]

Characteristic curves of input voltage U_{in} = 20°C

Characteristic curves of temperature

Characteristic curves of input voltage U_{in} = 20°C

Characteristic curves of temperature
Electrical connection:

Input side \([L, N, \ldots]\)

- Connect the input terminals \(L, N, \ldots\) (Fig. 1).
- The protective earth conductor must be connected (class of protection I).
- The installation must be executed acc. EN 60950, provide a suitable disconnecting device (e.g., line protection switch) in the supply line.

Output side \([+, +, -,-]\)

- Rate the lines for the maximum output current or provide a separate fuse protection.
- Fuse protection of the output side - see technical data.

Operating/Function:

Adjustment of the output voltage:

The output voltage can be adjusted in the range of 21.6 - 26.4 V DC by means of the potentiometer "V Out".

Technical data

Data at \(T_a = 25^\circ C, U_{in} = 230\) V AC and rated values, unless otherwise indicated

<table>
<thead>
<tr>
<th>Type</th>
<th>CP-PX 24/10.5</th>
<th>CP-PX 24/14.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input circuit - Supply circuit</td>
<td>L, N</td>
<td></td>
</tr>
<tr>
<td>Rated input voltage (U_{in})</td>
<td>115 - 230 V AC, by switch</td>
<td></td>
</tr>
<tr>
<td>Input voltage range</td>
<td>90 - 132 / 180-264 V AC, by switch</td>
<td></td>
</tr>
<tr>
<td>Frequency range AC</td>
<td>47-63 Hz</td>
<td></td>
</tr>
<tr>
<td>Typ. input current at 115 V AC</td>
<td>5 A</td>
<td>6.5 A</td>
</tr>
<tr>
<td>at 230 V AC</td>
<td>3 A</td>
<td>4 A</td>
</tr>
<tr>
<td>Typical power consumption at 230 V AC</td>
<td>250 W</td>
<td>407 W</td>
</tr>
<tr>
<td>Hold-up time at 115 V AC</td>
<td>14 ms</td>
<td></td>
</tr>
<tr>
<td>at 230 V AC</td>
<td>20 ms</td>
<td></td>
</tr>
<tr>
<td>Recommended backup fuse for wire protection at 1.5 mm²</td>
<td>1 pole miniature circuit breaker ABB type S 200, with B or C characteristic, max. rating 16 A</td>
<td></td>
</tr>
<tr>
<td>Output circuit - Power output</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Rated output power</td>
<td>250 W</td>
<td>350 W</td>
</tr>
<tr>
<td>Rated output voltage</td>
<td>24 V DC</td>
<td></td>
</tr>
<tr>
<td>Adjustment range of the output voltage</td>
<td>21.6 - 26.4 V DC</td>
<td></td>
</tr>
<tr>
<td>Rated output current (I_{out}) at (20^\circ C)</td>
<td>10.5 A</td>
<td>14.6 A</td>
</tr>
<tr>
<td>Current limiting at short circuit</td>
<td>Constant current, recovers automatically after fault condition is removed</td>
<td></td>
</tr>
<tr>
<td>Heatsink and switching peak acc. to IEC/EN 60747-6</td>
<td>120 mVp-p</td>
<td></td>
</tr>
<tr>
<td>General data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td>Typ. 88%</td>
<td></td>
</tr>
<tr>
<td>Degree of protection (IEC/EN 60529)</td>
<td>IP 20</td>
<td></td>
</tr>
<tr>
<td>Environmental data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient temperature ranges</td>
<td>operation: (-20...+60^\circ C), (-140^\circ F)</td>
<td>storage: (-40...+85^\circ C), (-40...+185^\circ F)</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Overvoltage category (EN 60724)</td>
<td>(&lt; 4000 V)</td>
<td>(&lt; 6000 V)</td>
</tr>
</tbody>
</table>

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