初级开关电源 CP-PX 范围

操作与安装指南

注意: 这些操作和安装指南不能声称包含所有技术数据和全部应用说明, 所有数据只是具有对产品特性进行说明的作用, 因此不具备法律效应。详细说明请参阅技术样本或联络 ABB 销售组织。如更改恕不通知。

安全指示和警告

确保维护人员可以防护由于疏忽碰触到高能量器件。

电源包含有高能量存储元件 请严禁开盖! 因为电源带危险能量, 回路带高电压! 严禁在电源中放入其它物体

警告: 高电压! 存储能量! 输出端危险!

• 运行中:
  • 不更改安装(初级和次级)! 高电流! 电弧和电击危险 (生命危险)!
  • 灼热危险: 运行环境可能会使外壳非常热。
  • 不要更改安装(初级和次级)! 高电流! 电弧和电击危险 (生命危险)!
  • 保护地导线必须接。
  • 电源电缆和系统元件必须有熔断器保护。在主回路和电源之间必须安装断开设备(用作电源从主回路断开)。根据国家标准(一级保护)将电源连接到主回路。
  • 按国家标准(一级保护)将电源连接到主回路。
  • 如果内部熔断器熔断, 电源很可能被损坏。必须由生产商检测。

• 注意: 电源输出电流的极性, 正确连接输出导线。
• 运行中: 请仔细且全部阅
### Technical Data

**Type** | CP-PX 5/5.0 | CP-PX 24/1.1
---|---|---

**Input circuit - Supply circuit**
- Rated input voltage $U_{in}$
- Input voltage range
- Frequency range
- Typ. input current
- Typical power consumption
- Hold-up time
- Recommended backup fuse for wire protection at 1.5 mm²
- Protection class (IEC/EN 61140)

**Output circuit - Power output**
- Rated output power
- Rated output voltage
- Adjustment range of the output voltage
- Rated output current
- Current limiting at short circuit
- Output circuit - Power output
- General data
- Environmental data
- Insulation data

**Adjustment of the output voltage**
- The output voltage can be adjusted in the range of 4.5 - 5.5 V DC (CP-PX 5/5.0) or 21.6 - 26.4 V DC (CP-PX 24/1.1) by means of the potentiometer “V Out”.

**Hiccup mode:**
- If there is a short circuit or overload, power supply automatically switches off. After a period of time, power supply tries to restart. If the fault still exists, power supply switches off again. This procedure repeats until the fault is cleared.

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**Electrical connection:**

**Input side [L, N, ▼]**
- Connect the input terminals [L, N, ▼] (Fig. 1).
- Cable cross sections, stripping length of the cable, tightening torque etc. - see technical data.
- The protective earth conductor must be connected (class of protection I).
- The installation must be executed acc. EN 62368-1, 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.
- We recommend choosing the cable cross section as large as possible in order to minimize voltage drops.
- Observe the polarity.
- The power supplies are supplied with short-circuit-proof fuse protection.

**Mounting:**
- 1. Screw installation
- 2. DIN-rail installation

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**Compact Power Supplies**

- CP-PX 5/5.0
- CP-PX 24/1.1
- Rated input voltage $U_{in}$
- Input voltage range
- Frequency range
- Typ. input current
- Typical power consumption
- Hold-up time
- Recommended backup fuse for wire protection at 1.5 mm²
- Protection class (IEC/EN 61140)

**Rated input voltage**
- $U_{in}$: 100-240 V AC
- Input voltage range: 90-264 V AC
- Frequency range: AC 47-63 Hz
- Typ. input current: 0.45 A at 115 V AC, 0.55 A at 230 V AC
- Typical power consumption: 33 W at 230 V AC
- Hold-up time: 14 ms at 115 V AC, 20 ms at 230 V AC
- Recommended backup fuse: 1 A miniature circuit breaker ABB type S 200, with B or C characteristic, max. rating 16 A

**Adjustment of the output voltage**
- The output voltage can be adjusted in the range of 4.5 - 5.5 V DC (CP-PX 5/5.0) or 21.6 - 26.4 V DC (CP-PX 24/1.1) by means of the potentiometer “V Out”.

**Hiccup mode:**
- If there is a short circuit or overload, power supply automatically switches off. After a period of time, power supply tries to restart. If the fault still exists, power supply switches off again. This procedure repeats until the fault is cleared.

**Mounting:**
- 1. Screw installation
- 2. DIN-rail installation

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**Troubleshooting:**
- If the power supply is not working, check the following:
  1. Power supply is connected.
  2. Input voltage is within the specified range.
  3. Fuse is not blown.
  4. Output voltage is set correctly.

**Technical Data:**

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

**Electrical connection:**

- Input side [L, N, ▼]
- Connect the input terminals [L, N, ▼] (Fig. 1).
- Cable cross sections, stripping length of the cable, tightening torque etc. - see technical data.
- The protective earth conductor must be connected (class of protection I).
- The installation must be executed acc. EN 62368-1, 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.
- We recommend choosing the cable cross section as large as possible in order to minimize voltage drops.
- Observe the polarity.
- The power supplies are supplied with short-circuit-proof fuse protection.

**Operating/Function:**

- Adjustment of the output voltage:
- The output voltage can be adjusted in the range of 4.5 - 5.5 V DC (CP-PX 5/5.0) or 21.6 - 26.4 V DC (CP-PX 24/1.1) by means of the potentiometer “V Out”.

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**Technical Data**

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<th>CP-PX 24/1.1</th>
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<td></td>
</tr>
</tbody>
</table>

**Output circuit - Power output**

- Rated output power | 25 W | 25 W |
- Rated output voltage | 5 V DC | 24 V DC |
- Adjustment range of the output voltage | 4.5 - 5.5 V DC | 21.6 - 26.4 V DC |
- Rated output current | 5.0 A | 1.1 A |
- Current limiting at short circuit | 200°C |
- Output circuit - Power output
- General data
- Degree of protection (IEC/EN 60529) | Typ. 75% | Typ. 79% |
- Protection class (IEC/EN 61140) | I |
- Environmental data
- Ambient temperature range | operation | -20...+100°C (4...+212°F) |
- Storage | -20...+40°C (-40...104°F) |
- Insulation data
- Pollution degree | 2 |
- Overvoltage category (EN 62368-1) | ≥ 1000 V |

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