



PRODUCT-DETAILS

CP-S.1 24/40.0

CP-S.1 24/40.0 Power supply In:110-240VAC/110-250VDC Out:DC 24V/40A



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | CP-S.1 24/40.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product ID            | 1SVR320861R1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EAN                   | 4013614561139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Catalog Description   | CP-S.1 24/40.0 Power supply In:110-240VAC/110-250VDC Out:DC 24V/40A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Long Description      | <p>The CP-S.1 24/40.0 is a power supply from the new generation CP-S.1 range. The primary switch mode power supply offers a wide range input of 99-264 V AC and 99-277 V DC, rated input voltage is 110-240 V AC, respectively 110-250 V DC. The rated output power is 960 W, rated output current is 40 A at an output voltage of 24 V DC. The output voltage is adjustable within a range of 24 to 28 V DC. The power supply provides a U/I output characteristic with a power reserve of up to 150 % for 5 s and allows parallel operation to increase capacity and to enable redundancy. Further features are: power factor correction acc. to EN 61000-3-2. Redundancy unit and buffer modules are available as accessories.</p> |

| Ordering               |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85044095 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SAC200141H0001 |
| Instructions and Manuals          | 1SVC320360M0000 |
| Wiring Diagram                    | 9AKK107992A8774 |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 125 mm   |
| Product Net Height         | 129.4 mm |
| Product Net Depth / Length | 127 mm   |
| Product Net Weight         | 2.49 kg  |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Width          | 178 mm         |
| Package Level 1 Depth / Length | 168 mm         |
| Package Level 1 Height         | 188 mm         |
| Package Level 1 Gross Weight   | 2.86 kg        |
| Package Level 1 EAN            | 4013614561139  |
| Package Level 1 Units          | box 1 piece    |
| Package Level 2 Width          | 350 mm         |
| Package Level 2 Depth / Length | 555 mm         |
| Package Level 2 Height         | 210 mm         |
| Package Level 2 Gross Weight   | 18.5 kg        |
| Package Level 2 Units          | carton 6 piece |

## Technical

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| Function                             | Switch mode power supply                    |
| Number of Phases                     | 1                                           |
| Rated Input Voltage ( $U_{IN}$ )     | 110 ... 240 V AC<br>110 ... 250 V DC        |
| Input Voltage ( $U_{in}$ )           | 99 ... 264 V AC<br>99 ... 277 V DC          |
| Typical Input Current                | (115 V AC) 9.5 A<br>(230 V AC) 5 A          |
| Hold-up Time                         | (230 V AC) min. 20 ms                       |
| Rated Frequency (f)                  | 50 / 60 Hz<br>DC                            |
| Rated Frequency Limits               | 45 ... 65 Hz                                |
| Characteristic of Output             | U/I characteristic curve with power reserve |
| Output Power                         | 960 W                                       |
| Rated Output Voltage                 | 24 V DC                                     |
| Output Voltage ( $U_{out}$ )         | 24 V DC                                     |
| Output Current                       | 40 A                                        |
| Output Current Maximum ( $I_{out}$ ) | 60 A                                        |
| Rated Impulse                        | Input Circuit / Output Circuit 4 kV         |

|                                            |                                                                                                                                     |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Withstand Voltage (U <sub>imp</sub> )      | Input Circuit / PE 4 kV<br>Input Circuit / Relay Contact 4 kV<br>Output Circuit / PE 0.8 kV<br>Output Circuit 0.8 kV                |
| Rated Insulation Voltage (U <sub>i</sub> ) | Input Circuit / Output Circuit 300 V<br>Input Circuit / PE 300 V<br>Input Circuit / Relay Contact 300 V<br>Output Circuit / PE 50 V |
| Degree of Protection                       | Housing IP20<br>Terminals IP20                                                                                                      |
| Pollution Degree                           | 2                                                                                                                                   |
| Connecting Capacity Input Circuit          | Flexible with Ferrule 0.5 ... 10.0 mm <sup>2</sup><br>Flexible 0.5 ... 10.0 mm <sup>2</sup><br>Rigid 0.5 ... 10.0 mm <sup>2</sup>   |
| Connecting Capacity Output Circuit         | Flexible with Ferrule 0.5 ... 10 mm <sup>2</sup><br>Flexible 0.5 ... 10.0 mm <sup>2</sup><br>Rigid 0.5 ... 10.0 mm <sup>2</sup>     |
| Tightening Torque                          | 2.8 N·m<br>Input Circuit 1.47 N·m<br>Output Circuit 1.47 N·m                                                                        |
| Wire Stripping Length                      | Auxiliary Circuit 7 mm<br>Input Circuit 10 mm<br>Output Circuit 10 mm                                                               |
| Minimum Mounting Distance                  | Other Device Same Type, Horizontal 25 mm<br>Other Device Same Type, Vertical 50 mm                                                  |
| Mounting Position                          | 1                                                                                                                                   |
| Mounting on DIN Rail                       | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                      |

## Technical UL/CSA

|                                           |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| Connecting Capacity Input Circuit UL/CSA  | Flexible with Ferrule 20-8 AWG<br>Flexible 20-8 AWG<br>Rigid 20-8 AWG |
| Connecting Capacity Output Circuit UL/CSA | Flexible with Ferrule 20-8 AWG<br>Flexible 20-8 AWG<br>Rigid 20-8 AWG |
| Tightening Torque UL/CSA                  | Input Circuit 13 in·lb<br>Output Circuit 13 in·lb                     |

## Electromagnetic Compatibility

|                                                               |                                                               |
|---------------------------------------------------------------|---------------------------------------------------------------|
| Electrostatic Discharge (ESD Immunity) acc. to IEC 61000-4-2  | Level 4 Air Discharge 15 kV<br>Level 4 Contact Discharge 8 kV |
| Radiated Electromagnetic Field Immunity acc. to IEC 61000-4-3 | Level 3 10 V/m                                                |
| Surge Immunity acc. to IEC 61000-4-5                          | Level 4 Line-to-Ground 4 kV<br>Level 4 Line-to-Line 2 kV      |
| Electromagnetic Compatibility (EMC)                           | Immunity - Class B<br>Emission - Class B                      |

## Environmental

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Ambient Air Temperature                | Operation -25 ... +70 °C<br>Storage -40 ... +85 °C |
| Maximum Operating Altitude Permissible | 5000 m                                             |

|                                            |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| Resistance to Damp                         | Test Db: 55°C, 2 cycles                                              |
| Heat acc. to IEC 60068-2-30                |                                                                      |
| Resistance to Shock acc. to IEC 60068-2-27 | 30g 3 shocks 6 ms                                                    |
| Resistance to Vibrations                   | ±0.15 mm 10 ... 58 Hz<br>10 Sweep Cycles Each Axis: 2g 58 ... 150 Hz |

### Material Compliance

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                            |
| REACH Declaration                           | 1SVD982001-4501                                            |
| WEEE B2C / B2B                              | Business To Business                                       |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm) |

### Certificates and Declarations

|                                  |                          |
|----------------------------------|--------------------------|
| CB Certificate                   | CB_DE_2-029958-M1        |
| Declaration of Conformity - CE   | 1SVD982043-00            |
| Declaration of Conformity - UKCA | 1SVD982043-10            |
| DNV Certificate                  | DNV_TAA0000300           |
| EAC Certificate                  | EAC_RU_C-DE.MO05.B.01452 |

### Classifications

|                            |                            |
|----------------------------|----------------------------|
| Object Classification Code | T                          |
| ETIM 5                     | EC002540 - DC-power supply |
| ETIM 6                     | EC002540 - DC-power supply |
| ETIM 7                     | EC002540 - DC-power supply |
| ETIM 8                     | EC002540 - DC-power supply |
| eClass                     | V11.0 : 27040701           |
| UNSPSC                     | 39121004                   |
| E-Number (Finland)         | 2712890                    |
| E-Number (Sweden)          | 5213658                    |

### Categories

Low Voltage Products and Systems → Control Products → Power Supplies → CP-S.1

