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 PRODUCT-DETAILS

## CP-S.1 24/5.0

### CP-S.1 24/5.0 Power supply In:100-240VAC/100-250VDC Out:DC 24V/5A




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**General Information**

Extended Product Type	CP-S.1 24/5.0
Product ID	1SVR320561R1000
EAN	4013614561108
Catalog Description	CP-S.1 24/5.0 Power supply In:100-240VAC/100-250VDC Out:DC 24V/5A
Long Description	<p>The CP-S.1 24/5.0 is a power supply from the new generation CP-S.1 range. The primary switch mode power supply offers a wide range input of 85-264 V AC and 90-277 V DC, rated input voltage is 100-240 V AC, respectively 100-250 V DC. The rated output power is 120 W, rated output current is 5 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>

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**Ordering**

Minimum Order Quantity	1 piece
Customs Tariff Number	85044095

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**Popular Downloads**

Data Sheet, Technical Information	1SAC200138H0001
Instructions and Manuals	1SVC320360M0000
Wiring Diagram	9AKK107992A8774

## Dimensions

Product Net Width	35.5 mm
Product Net Height	129.4 mm
Product Net Depth / Length	127 mm
Product Net Weight	0.69 kg

## Container Information

Package Level 1 Width	64 mm
Package Level 1 Depth / Length	155 mm
Package Level 1 Height	169 mm
Package Level 1 Gross Weight	0.8 kg
Package Level 1 EAN	4013614561108
Package Level 1 Units	box 1 piece
Package Level 2 Width	393 mm
Package Level 2 Depth / Length	600 mm
Package Level 2 Height	190 mm
Package Level 2 Gross Weight	17.5 kg
Package Level 2 Units	carton 21 piece

## Technical

Function	Switch mode power supply
Number of Phases	1-phase
Rated Input Voltage ( $U_{IN}$ )	100 ... 240 V AC 100 ... 250 V DC
Input Voltage ( $U_{in}$ )	85 ... 264 V AC 90 ... 277 V DC
Typical Input Current	(115 V AC) 1.24 A (230 V AC) 0.67 A
Hold-up Time	(230 V AC) min. 20 ms
Rated Frequency (f)	50 / 60 Hz DC
Rated Frequency Limits	45 ... 65 Hz
Characteristic of Output	U/I characteristic curve with power reserve
Rated Output Power	120 W
Output Power	120 W
Rated Output Voltage	24 V DC
Output Voltage ( $U_{out}$ )	24 V DC
Output Current	5 A
Output Current Maximum ( $I_{out}$ )	7.5 A
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Input Circuit / Output Circuit 4 kV Input Circuit / PE 4 kV Input Circuit / Relay Contact 4 kV Output Circuit / PE 0.8 kV Output Circuit 0.8 kV
Rated Insulation Voltage ( $U_i$ )	Input Circuit / Output Circuit 300 V Input Circuit / PE 300 V Input Circuit / Relay Contact 300 V

	Output Circuit / PE 50 V
Degree of Protection	Housing IP20 Terminals IP20
Pollution Degree	2
Connecting Capacity Input Circuit	Flexible with Ferrule 0.5 ... 4.0 mm <sup>2</sup> Flexible 0.5 ... 4.0 mm <sup>2</sup> Rigid 0.5 ... 4 mm <sup>2</sup>
Connecting Capacity Output Circuit	Flexible with Ferrule 0.5 ... 4.0 mm <sup>2</sup> Flexible 0.5 ... 4.0 mm <sup>2</sup> Rigid 0.5 ... 4 mm <sup>2</sup>
Tightening Torque	Input Circuit 0.5 N·m Output Circuit 1.13 N·m
Wire Stripping Length	Auxiliary Circuit 7 mm Input Circuit 9 mm Output Circuit 9 mm
Recommended Screw Driver	PH1 0.8 x 4 Input Circuit / Output Circuit PH1
Minimum Mounting Distance	Other Device Same Type, Horizontal 30 mm 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 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 20-12 AWG Flexible 20-12 AWG Rigid 20-12 AWG
Connecting Capacity Output Circuit UL/CSA	Flexible with Ferrule 20-12 AWG Flexible 20-12 AWG Rigid 20-12 AWG
Tightening Torque UL/CSA	Input Circuit 4.4 in·lb Output Circuit 4.4 in·lb

### Electromagnetic Compatibility

Electrostatic Discharge (ESD Immunity) acc. to IEC 61000-4-2	Level 4 Air Discharge 15 kV 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 Level 4 Line-to-Line 2 kV
Electromagnetic Compatibility (EMC)	Immunity - Class B Emission - Class B

### Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	5000 m
Resistance to Damp Heat acc. to IEC 60068-2-30	Test Db: 55°C, 2 cycles
Resistance to Shock acc. to IEC 60068-2-27	30g 3 shocks 6 ms
Resistance to Vibrations	±0.15 mm 10 ... 58 Hz 10 Sweep Cycles Each Axis: 2g 58 ... 150 Hz

### Material Compliance

Conflict Minerals	9AKK108467A5658
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Reporting Template  
(CMRT)

REACH Declaration	1SVD982001-4501
RoHS Declaration	1SVD982001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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_2-029510
cULus Certificate	cULus61010-1_E174460 cULus121201_E523399
Declaration of Conformity - CE	1SVD982043-00
Declaration of Conformity - UKCA	1SVD982043-10
DNV Certificate	DNV_TAA0000300
SEMI Certificate	9AKK108470A0203

**External Classifications and Standards**

Object Classification Code	T
ETIM 9	EC002540 - DC-power supply
ETIM 10	EC002540 - DC-power supply
eClass	V11.0 : 27040701
UNSPSC	39121004
E-Number (Finland)	2712887
E-Number (Norway)	6608901
E-Number (Sweden)	5213655

**Categories**

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

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)

