



 PRODUCT-DETAILS

CP-S.1 24/20.0

CP-S.1 24/20.0 Power supply In:100-240VAC/100-250VDC Out:DC 24V/20A



General Information

Extended Product Type	CP-S.1 24/20.0
Product ID	1SVR320761R1000
EAN	4013614561122
Catalog Description	CP-S.1 24/20.0 Power supply In:100-240VAC/100-250VDC Out:DC 24V/20A

Long Description	<p>The CP-S.1 24/20.0 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 480 W, rated output current is 20 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

Popular Downloads

Data Sheet, Technical Information	1SAC200140H0001
Instructions and Manuals	1SVC320360M0000
Wiring Diagram	9AKK107992A8774

Dimensions

Product Net Width	68 mm
Product Net Height	129.4 mm
Product Net Depth / Length	127 mm
Product Net Weight	1.355 kg

Container Information

Package Level 1 Width	119 mm
Package Level 1 Depth / Length	158 mm
Package Level 1 Height	188 mm
Package Level 1 Gross Weight	1.6 kg
Package Level 1 EAN	4013614561122
Package Level 1 Units	box 1 piece
Package Level 2 Width	375 mm
Package Level 2 Depth / Length	495 mm
Package Level 2 Height	210 mm
Package Level 2 Gross Weight	15.7 kg
Package Level 2 Units	carton 9 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) 4.85 A (230 V AC) 2.55 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	480 W
Output Power	480 W
Rated Output Voltage	24 V DC
Output Voltage (U_{out})	24 V DC
Output Current	20 A
Output Current Maximum (I_{out})	30 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 ² Flexible 0.5 ... 4.0 mm ² Rigid 0.5 ... 4 mm ²
Connecting Capacity Output Circuit	Flexible with Ferrule 0.5 ... 4.0 mm ² Flexible 0.5 ... 4.0 mm ² Rigid 0.5 ... 4 mm ²
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
SCIP	154206ab-cc6a-4d1d-b848-8637e7fc5a1f Germany
Simplified SCIP	084e71f1-2f40-4f6f-b5d1-b232658f5bed Belgium 15806d1d-1e31-430f-856c-1cec8a34598e Czech Republic 2160595e-3c9e-414f-ab40-62e2b1a88670 Norway 2bd2d658-5d34-442e-9596-65aa9861cff Sweden 3c6f9d2e-a7be-425d-847e-56c1b0575d0b Portugal 4adb4710-4434-429c-b13b-d25432c1e5e2 Germany 4b612490-c310-4258-a52d-60912f2572f2 Germany 56d536cb-2e2c-4b68-98b5-b42627ca01a2 Hungary 60da36c3-4dff-436f-9310-cb5a04ff7d1d Poland 6cdb1dbb-fccd-42f8-aa4a-8a745df3cf1d France 8595d650-5a7c-4e70-bab6-d06e0d4912ac Italy 8ec3ecc3-84be-4901-b93d-bf75d11bc9a3 Hungary 9b18635a-0d97-445f-a741-e874c158fdbf Germany 9dea6ecb-1427-411a-9235-8b3c2df77dd5 Belgium a26c82ec-eb8f-432b-ac9d-80d8a813ab67 Spain a7e57bd7-a3c3-41eb-9285-831dcebda077 Denmark b2137767-ad94-4046-8148-c735ee44e544 Netherlands b6cc3a0b-6b99-4191-8200-0605c865fe75 Croatia bccaad5b-b56a-44a7-88c8-c3a1402ec50d Poland c80c8b49-ebc2-41ed-a55d-fa508ac6ae42 France caa335b3-095a-454e-ba68-2fd31229df22 Finland e8cd7c7b-253f-488d-9c5c-0e56db240739 Estonia ebffd1f9-4a93-4186-88e9-2bf33eb87f74 Sweden f18df6c4-0d03-4380-81d6-4de04118adf9 Greece f6918158-863e-4392-9545-2557122b39a4 Germany fa8ae053-536e-472d-b925-75a884717d34 Bulgaria fb868a1a-8133-496c-9e71-f29f9e2227f7 Poland
Toxic Substances Control Act - TSCA	2CMT2023-006535
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_2-029956
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	9AKK108470A0206

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)	2712889
E-Number (Norway)	6608903
E-Number (Sweden)	5213657

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)

