



 PRODUCT-DETAILS

CP-C.1 24/20.0-C

CP-C.1 24/20.0-C Power supply In:100-240VAC/90-300VDC Out:DC 24V/20A



General Information

Extended Product Type	CP-C.1 24/20.0-C
Product ID	1SVR360763R2001
EAN	4013614503863
Catalog Description	CP-C.1 24/20.0-C Power supply In:100-240VAC/90-300VDC Out:DC 24V/20A
Long Description	<p>The CP-C.1 24/20.0-C is a power supply from the CP-C.1 range with coated PCBA. The primary switch mode power supply offers a wide range input of 85-264 V AC and 90-300 V DC, rated input voltage is 110-240 V AC. 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 22.5 to 28.5 V DC. The power supply provides a U/I output characteristic with a power reserve of up to 30 % and allows parallel operation to increase capacity and to enable redundancy. ATEX and IECEx approvals are available to be used in hazardous area applications. Further features are: power factor correction acc. to EN 61000-3-2.</p> <p><u>Redundancy unit and buffer modules are available as accessories</u></p>

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85044095

Popular Downloads

Data Sheet, Technical Information	2CDC114106D0201
Instructions and Manuals	1SVC360560M0000
Ex Operating Instructions	1SVC360560M9000

Dimensions

Product Net Width	82 mm
Product Net Height	129.4 mm
Product Net Depth / Length	136 mm
Product Net Weight	1.59 kg

Container Information

Package Level 1 Width	110 mm
Package Level 1 Depth / Length	168 mm
Package Level 1 Height	160 mm
Package Level 1 Gross Weight	1.72 kg
Package Level 1 EAN	4013614503863
Package Level 1 Units	box 1 piece

Technical

Function	Switch mode power supply
Number of Phases	1
Rated Input Voltage (U_{IN})	100 ... 240 V AC 90 ... 300 V DC
Input Voltage (U_{in})	85 ... 264 V AC 90 ... 300 V DC
Typical Input Current	(115 V AC) 4.6 A (230 V AC) 2.3 A
Hold-up Time	(230 V AC) min. 40 ms
Rated Frequency (f)	50 / 60 Hz
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
Rated Output Current	-25 °C ... +60 °C 20 A -40 °C ... +40 °C 26 A
Output Current	20 A
Output Current Maximum (I_{out})	26 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 0.5 kV Output Circuit 0.5 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 ... 2.5 mm ² Flexible 0.5 ... 2.5 mm ²

Connecting Capacity Output Circuit	Rigid 0.5 ... 4 mm ² Flexible with Ferrule 2.5 ... 10 mm ² Flexible 2.5 ... 10 mm ² Rigid 2.5 ... 16 mm ²
Tightening Torque	Auxiliary Circuit 0.5 N·m Input Circuit 0.5 N·m Output Circuit 1.2 N·m
Wire Stripping Length	Auxiliary Circuit 8 mm Input Circuit 8 mm Output Circuit 10 mm
Recommended Screw Driver	Input Circuit / Output Circuit PH1 Input Circuit / Output Circuit 0.8 x 4
Minimum Mounting Distance	Electrical Conductive Board, Horizontal 25 mm Electrical Conductive Board, Vertical 25 mm Other Device Same Type, Horizontal 25 mm Other Device Same Type, Vertical 25 mm
Mounting Position	Position 1 7
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
Standards	CAN/CSA C22.2 No. 107.1 IEC/EN 63000 IEC/EN 60079-0 IEC/EN 60079-15 IEC/EN 60079-7 IEC/EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 61204 UL 508 UL 61010-1 UL 61010-2-201 IEC/EN 61010-1

Technical UL/CSA

Connecting Capacity Input Circuit UL/CSA	Flexible with Ferrule 20-12 AWG Flexible 20-12 AWG Rigid 20-10 AWG
Connecting Capacity Output Circuit UL/CSA	Flexible 12-8 AWG Rigid 12-6 AWG
Tightening Torque UL/CSA	Input Circuit 4.4 in·lb Output Circuit 10.5 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
Electrical Fast Transient (Burst Immunity) acc. to IEC 61000-4-4	Level 4 Power Supply Port Signal 4 kV
Surge Immunity acc. to IEC 61000-4-5	Level 4 Line-to-Ground 4 kV Level 4 Line-to-Line 2 kV
Conducted Disturbances Immunity acc. to IEC 61000-4-6	Level 3 10 V
Electromagnetic Compatibility (EMC)	Immunity - Class B Emission - Class B

Environmental

Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +85 °C
Maximum Operating	5000 m

Altitude Permissible

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 Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD982001-4501
RoHS Information	1SVD982001-4401
RoHS Status	Following EU Directive 2011/65/EU
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

ABS Certificate	ABS_17-HG1591548-2-PDA
ATEX Certificate	Type Examination Certificate DEMKO_16_ATEX_1746X
CB Certificate	CB_DK_103862_A2_UL
cULus Certificate	cULus508_20161102-E174460
cURus Certificate	cURus60950_E196145-A11-UL cURusANSI-12-12_20161122_E317914
Declaration of Conformity - CE	1SVD982042-00
Declaration of Conformity - UKCA	1SVD982042-10
DNV GL Certificate	DNV_GL_TAA00000YB_1
IECEX Certificate	IECEX_ULD_170031X
SEMI Certificate	SEMI F47 4787681819-2

External Classifications and Standards

Object Classification Code	T
ETIM 7	EC002540 - DC-power supply
ETIM 8	EC002540 - DC-power supply
ETIM 9	EC002540 - DC-power supply
eClass	V11.0 : 27040701
UNSPSC	39121004
E-Number (Finland)	2712545
E-Number (Norway)	6609433

Categories

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

