



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	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. Redundancy unit and buffer modules are available as accessories

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85044095

Popular Downloads	
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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

	Rigid 0.5 ... 4 mm²
Connecting Capacity	Flexible with Ferrule 2.5 ... 10 mm²
Output Circuit	Flexible 2.5 ... 10 mm²
	Rigid 2.5 ... 16 mm²
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	Input Circuit / Output Circuit PH1
Driver	Input Circuit / Output Circuit 0.8 x 4
Minimum Mounting	Electrical Conductive Board, Horizontal 25 mm
Distance	Electrical Conductive Board, Vertical 25 mm
	Other Device Same Type, Horizontal 25 mm
	Other Device Same Type, Vertical 25 mm
Mounting Position	Position 1
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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	Flexible with Ferrule 20-12 AWG
Circuit UL/CSA	Flexible 20-12 AWG
	Rigid 20-10 AWG
Connecting Capacity	Flexible 12-8 AWG
Output Circuit UL/CSA	Rigid 12-6 AWG
Tightening Torque	Input Circuit 4.4 in·lb
UL/CSA	Output Circuit 10.5 in·lb

Electromagnetic Compatibility

Electrostatic Discharge	Level 4 Air Discharge 15 kV
(ESD Immunity) acc. to	Level 4 Contact Discharge 8 kV
IEC 61000-4-2	
Radiated Electromagnetic	Level 3 10 V/m
Field Immunity acc. to IEC	
61000-4-3	
Electrical Fast Transient	Level 4 Power Supply Port Signal 4 kV
(Burst Immunity) acc. to	
IEC 61000-4-4	
Surge Immunity acc. to	Level 4 Line-to-Ground 4 kV
IEC 61000-4-5	Level 4 Line-to-Line 2 kV
Conducted Disturbances	Level 3 10 V
Immunity acc. to IEC	
61000-4-6	
Electromagnetic	Immunity - Class B
Compatibility (EMC)	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-59135-A3-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

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)	2712545

Categories

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

