



 PRODUCT-DETAILS

CP-C.1 24/20.0

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



General Information

Extended Product Type:	CP-C.1 24/20.0
Product ID:	1SVR360763R1001
EAN:	4013614503832
Catalog Description:	CP-C.1 24/20.0 Power supply In:100-240VAC/90-300VDC Out:DC 24V/20A
Long Description:	The CP-C.1 24/20.0 is a power supply from the CP-C.1 range. 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. Further features are: power factor correction acc. to EN 61000-3-2. Redundancy unit and buffer modules are available as accessories
Display Name:	CP-C.1 24/20.0

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85044095

Popular Downloads

Data Sheet, Technical Information:	2CDC114106D0201
Instructions and Manuals:	1SVC360560M0000

Dimensions

Product Net Width:	82 mm
Product Net Height:	129.4 mm
Product Net Depth / Length:	136 mm
Product Net Weight:	1.57 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:	1.7 kg
Package Level 1 EAN:	4013614503832
Package Level 1 Units:	box 1 piece

Technical

Function:	Switch mode power supply
Number of Phases:	1-phase
Rated Input Voltage (U_{IN}):	100 ... 240 V AC 100 ... 270 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 ... +40 °C 26 A -25 °C ... +60 °C 20 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 mm ²
Connecting Capacity Output Circuit:	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 61000-6-2 IEC/EN 61000-6-3 IEC/EN 61204 UL 508 IEC/EN 61010-1 UL 61010-1 UL 61010-2-201

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 -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 Reporting Template (CMRT):	9AKK108467A5658
REACH Declaration:	1SVD982001-4501
RoHS Declaration:	1SVD982001-4401
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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
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:	1SVD982010-00
Declaration of Conformity - UKCA:	1SVD982010-10

DNV GL Certificate: DNV_GL_TAA0000YB_1
SEMI Certificate: SEMI_F47_4787681819-2

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):	2712542
E-Number (Norway):	6609455
E-Number (Sweden):	5213181

Categories

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

