



PRODUCT-DETAILS

CP-C.1 24/5.0-C

CP-C.1 24/5.0-C Power supply In:100-240VAC/90-300VDC Out:DC 24V/5A



General Information	
Extended Product Type	CP-C.1 24/5.0-C
Product ID	1SVR360563R2001
EAN	4013614503849
Catalog Description	CP-C.1 24/5.0-C Power supply In:100-240VAC/90-300VDC Out:DC 24V/5A
Long Description	The CP-C.1 24/5.0-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 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 22.5 to 28.5 V DC. The power supply provides a U/I output characteristic with a power reserve of up to 50 % 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

Data Sheet, Technical Information	2CDC114099D0201
Instructions and Manuals	1SVC360560M0000
Ex Operating Instructions	1SVC360560M9000

Dimensions

Product Net Width	40 mm
Product Net Height	129.4 mm
Product Net Depth / Length	136 mm
Product Net Weight	0.75 kg

Container Information

Package Level 1 Width	70 mm
Package Level 1 Depth / Length	168 mm
Package Level 1 Height	160 mm
Package Level 1 Gross Weight	0.87 kg
Package Level 1 EAN	4013614503849
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) 1.1 A (230 V AC) 0.6 A
Hold-up Time	(230 V AC) min. 50 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	120 W
Output Power	120 W
Rated Output Voltage	24 V DC
Output Voltage (U_{out})	24 V DC
Rated Output Current	-25 °C ... +60 °C 5 A -40 °C ... +40 °C 7.5 A
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 0.5 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 0.5 ... 2.5 mm ² Flexible 0.5 ... 2.5 mm ² Rigid 0.5 ... 4 mm ²
Tightening Torque	Auxiliary Circuit 0.5 N-m Input Circuit 0.5 N-m Output Circuit 0.5 N-m
Wire Stripping Length	Auxiliary Circuit 8 mm Input Circuit 8 mm Output Circuit 8 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 20-12 AWG Rigid 20-10 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
Electrical Fast Transient	Level 4 Power Supply Port Signal 4 kV

(Burst Immunity) acc. to IEC 61000-4-4	
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 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 Information	1SVD982001-4401
RoHS Status	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
ATEX Certificate	Type Examination Certificate_DEMKO_16_ATEX_1746X
CB Certificate	CB_DK_103485_UL
cULus Certificate	cULus508_20151021-E174460
cURus Certificate	cURus60950_E196145-A10-UL cURusANSI-12-12_20160629_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_4787851718

External Classifications and Standards

Object Classification	T
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Code	
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)	2712543
E-Number (Norway)	6609412

Categories

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



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