

Representative Image

Catalog No. 1SVR360663R2001

Description: CP-C.1 24/10.0-C Power supply In:100-240VAC/90-300VDC Out:DC 24V/10A

UPC No 4013614503856

Home > Controls & Protective Relays > Power Supplies

The CP-C.1 24/10.0-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 240 W, rated output current is 10 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. Further features are: power factor correction acc. to EN 61000-3-2. Redundancy unit and buffer modules are available as accessories.

Descriptors

Category	Power Supplies

Specifications

Product Main Type	CP-C.1
Number of phases	1
Input Voltage	85 ... 264 V AC 90 ... 300 V DC
Output Voltage	24 V DC
Output Current	10 A
Output Power	240 W
Function	Switch mode power supply
Rated Input Voltage	100 ... 240 V AC 90 ... 300 V DC
Typical Input Current	(115 V AC) 2.3 A (230 V AC) 1.2 A
Hold-up Time	(230 V AC) min. 40 ms
Rated Frequency	50 Hz 60 Hz
Rated Frequency Limits	45 ... 65 Hz
Characteristic of Output	U/I characteristic curve with power reserve
Rated Output Power	240 W
Rated Output Voltage	24 V DC
Rated Output Current	-25 °C ... +60 °C 10 A -40 °C ... +40 °C 15 A
Output Current Maximum	15 A
Rated Impulse Withstand Voltage	Input Circuit 4 kV Output Circuit 4 kV Input Circuit 4 kV PE 4 kV Input Circuit 4 kV Relay Contact 4 kV Output Circuit 0.5 kV PE 0.5 kV Output Circuit 0.5 kV
Rated Insulation Voltage	Input Circuit / Output Circuit 300 V Input Circuit / PE 300 V Input Circuit / Relay Contact 300 V Output Circuit / PE 50 V

by ABB

Specifications

Degree of Protection	Housing Terminals IP20 IP20
Pollution Degree	2
Connecting Capacity Input Circuit	Flexible with Ferrule 0.5 ... 2.5 mm² Flexible 0.5 ... 2.5 mm² Rigid 0.5 ... 4 mm²
Connecting Capacity Output Circuit	Flexible with Ferrule 0.5 ... 2.5 mm² Flexible 0.5 ... 2.5 mm² Rigid 0.5 ... 4 mm²
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 PH1 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 EN 50581 IEC/EN 60079-0 IEC/EN 60079-15 IEC/EN 60079-7 IEC/EN 60950-1 IEC/EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 61204 UL508
Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +85 °C
Resistance to Vibrations acc. to IEC 60068-2-6	10-58 Hz, ±0.15 mm, 58-150 Hz, 2g, 10 sweep cycles each axis
Resistance to Shock acc. to IEC 60068-2-27	30g / 3 shocks / 6 ms
Resistance to Damp Heat acc. to IEC 60068-2-30	Test Db: 55°C, 2 cycles
RoHS Status	Following EU Directive 2011/65/EU
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	Output Circuit 4.4 in-lb
Object Classification Code	T

Classifications

ETIM 5.0	EC002540 - DC-power supply
ETIM 6.0	EC002540 - DC-power supply
ETIM 7	EC002540 - DC-power supply

Dimensions

Product Net Width	60 mm
Product Net Height	129.4 mm
Product Net Depth / Length	136 mm
Product Net Weight	1.09 kg

Package Information

Package Level 1 Width	90 mm
Package Level 1 Depth / Length	168 mm
Package Level 1 Height	160 mm
Package Level 1 Gross Weight	1.24 kg
Package Level 1 EAN	4013614503856
Package Level 1 Units	1 piece

Ordering

Minimum Order Quantity	1
Customs Tariff Number	85044090
ECCN	N
ECN	N

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-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