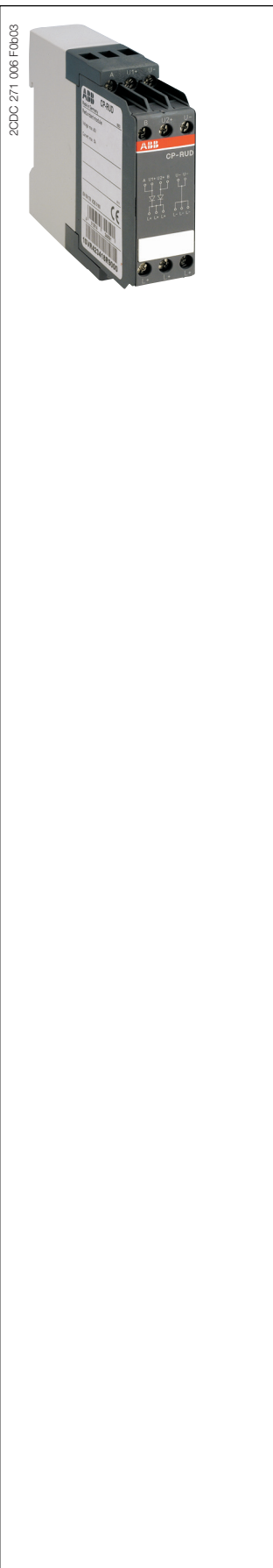


Redundancy unit CP-RUD

Accessory for CP-E range power supplies

Data sheet



Marks

Order data

Type	Description	Order code
CP-RUD	Redundancy unit The CP-RUD provides decoupling of two CP-E power supply units ≤ 35 V and < 5 A.	1SVR 423 418 R9000

Application

The redundancy unit CP-RUD provides decoupling of two CP-E power supply units ≤ 35 V and < 5 A. It has 2 inputs each up to 2.5 A and 1 output up to 5 A. It provides automatic redundant power supply operation for critical applications.

Redundancy unit CP-RUD

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Technical data

Data at $T_a = 25\text{ °C}$, $U_{in} = 230\text{ V AC}$ and rated values, unless otherwise indicated

Type		CP-RUD
Input circuit - Supply circuit		A: U1+/-U ; B: U2+/-U
Rated input voltage U_{in}		24 V DC
Input voltage range		5-35 V DC
Rated input current I_{in} per channel		0.5-2.5 A
Maximum input current per channel		10 A for 300 s
Transient overvoltage protection		no
Output circuit		L+, L+, L+, L-, L-, L-
Rated output voltage U_{out}		24 V DC
Voltage drop		typ. 0.6 V; max. 0.7 V
Rated output current I_{out}		0.5-5 A
Peak output current		20 A for 150 s
Resistance to reverse feed		< 35 V
General data		
Dimensions (W x H x D)		22.5 x 78 x 102 mm (0.89 x 3.07 x 4.02 in)
Weight		0.135 kg (0.30 lb)
Minimum distance to other units		horizontal / vertical 10 mm / 10 mm (0.39 in / 0.39 in)
Degree of protection		housing / terminals IP20 / IP20
Material of enclosure		housing shell / cover plastic / plastic
Protection class		-
Mounting		DIN rail (IEC/EN 60715)
Mounting position		horizontal
Electrical connection - Input circuit / Output circuit		
Wire size		
fine-strand with wire end ferrule		2 x 0.75-2.5 mm ² (2 x 18-14 AWG)
fine-strand without wire end ferrule		
rigid		2 x 0.5-4 mm ² (2 x 20-12 AWG)
Stripping length		7 mm (0.28 in)
Tightening torque		0.6-0.8 Nm
Environmental data		
Ambient temperature range		
operation		-20...+60 °C
rated load		-20...+60 °C
storage		-40...+85 °C
Damp heat (IEC/EN 60068-2-3)		93 % at 40 °C, no condensation
Climatic category (IEC/EN 60721)		-
Vibration (IEC/EN 60068-2-6)		
Shock (IEC/EN 60068-2-27)		
Isolation data		
Insulation voltage		between input / output / housing -
Pollution degree (EN 50178)		2
Standards		
Product standard		
EMC Directive		2014/30/EU
RoHS Directive		2011/65/EU
Electrical safety		EN 50178

Redundancy unit CP-RUD

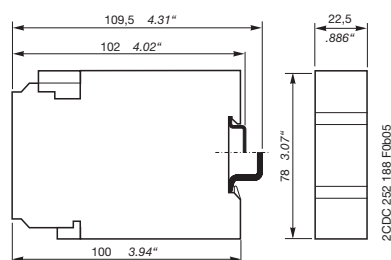
Accessory for CP-E range power supplies

Data sheet

Type	CP-RUD	
Electromagnetic compatibility		
Interference immunity to		IEC/EN 61000-6-2
electrostatic discharge	IEC/EN 61000-4-2	Level 3 (air discharge ± 8 kV, contact discharge ± 6 kV)
radiated, radio-frequency, electromagnetic field	IEC/EN 61000-4-3	Level 3 (10 V/m)
electrical fast transient / burst	IEC/EN 61000-4-4	Level 3 (± 2 kV)
surge	IEC/EN 61000-4-5	Level 1 (± 0.5 kV)
conducted disturbances, induced by radio-frequency fields	IEC/EN 61000-4-6	Level 3 (10 V)
Interference emission		IEC/EN 61000-6-3
high-frequency radiated	IEC/CISPR 22 / EN 55022	Class B
high-frequency conducted	IEC/CISPR 22 / EN 55022	Class B

Dimensions

in mm



CP-RUD

Further Documentation

Document title	Document type	Document number
Electronic Products and Relays	Technical catalogue	2CDC 110 004 C02xx
Power Supply Units	Application manual	2CDC 114 048 M020x
CP-E 5/3.0	Data sheet	2CDC 114 041 D0201
CP-E 12/2.5	Data sheet	2CDC 114 042 D0201
CP-E 24/0.75	Data sheet	2CDC 114 043 D0201
CP-E 24/1.25	Data sheet	2CDC 114 044 D0201
CP-E 24/2.5	Data sheet	2CDC 114 045 D0201

You can find the documentation on the internet at www.abb.com/lowvoltage
 -> Automation, control and protection -> Power supplies.

CAD system files

You can find the CAD files for CAD systems at <http://abb-control-products.partcommunity.com>
 -> Low Voltage Products & Systems -> Control Products -> Power Supplies.

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