



SITOP RED1200/Red.M./DC24/48V/2X20A/EX

SITOP RED1200 redundancy module EX input/output: 24/48V DC/40 A Suitable for decoupling two SITOP power supplies with maximal per 20 A output current

input	
type of the power supply network	DC voltage
supply voltage at DC	12 ... 48 V
input voltage at DC	10 ... 58 V
output	
voltage curve at output	Controlled DC voltage
number of outputs	1
output voltage at DC rated value	24 V
formula for output voltage	$V_{in} - \text{approx. } 0.6 \text{ V}$
output voltage	
• at output 1 at DC rated value	24 V
output voltage adjustable	No
output current	
• rated value	40 A
bridging of equipment	No
efficiency	
efficiency in percent	97.5 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	25 W
• during no-load operation maximum	0.1 W
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
EMC	
standard	
• for emitted interference	EN 61000-6-3
• for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• CSA approval	Yes; CSA C22.2 No. 62368-1
• UKCA marking	Yes
• NEC Class 2	No
type of certification	
• CB-certificate	Yes
MTBF at 40 °C	6 100 000 h
standards, specifications, approvals hazardous environments	

certificate of suitability	
• IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • UKEX • CCC for hazardous zone according to GB standard • FM registration	Yes; IECEx Ex ec IIC T4 Gc Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc Yes Yes Yes Yes No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS)	No No No; in preparation No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total • during manufacturing • during operation • after end of life	805.5 kg 46.4 kg 281.6 kg 0.74 kg
ambient conditions	
ambient temperature	
• during operation • during transport • during storage	-40 ... +70; with natural convection -40 ... +85 -40 ... +85
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	push-in terminals
• at input • at output	In1, In2: each for 0.75 ... 16 mm² Out1: 0.75 ... 16 mm²
mechanical data	
width × height × depth of the enclosure	45 × 135 × 125 mm
installation width × mounting height	45 mm × 225 mm
required spacing	
• top • bottom • left • right	45 mm 45 mm 0 mm 0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
• standard rail mounting • S7 rail mounting • wall mounting	Yes No No
housing can be lined up	Yes
net weight	0.51 kg
further information internet links	
internet link	
• to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAX-Download-Manager • to website: Industry Online Support	https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval	For use in hazardous locations
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[Manufacturer Declaration](#)



For use in hazardous locations	Marine / Shipping	Environment
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[CCC-Ex](#)



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