



SITOP RED1200/REDM./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
product function output voltage adjustable	No
output current	
• rated value	40 A
product feature	
• 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
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
• cCSAus, Class 1, Division 2	No
• ATEX	Yes
certificate of suitability	
• IECEX	Yes
• NEC Class 2	No
• ULhazloc approval	No
• FM registration	No
certificate of suitability shipbuilding approval	No

shipbuilding approval	available soon
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) DNV GL Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
EMC	
standard	
<ul style="list-style-type: none"> for emitted interference for interference immunity 	<p>EN 61000-6-3</p> <p>EN 61000-6-2</p>
environmental conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during transport during storage 	<p>-30 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	Push-in terminals
<ul style="list-style-type: none"> at input at output 	<p>In1, In2: each for 0.75 ... 16 mm²</p> <p>Out1: 0.75 ... 16 mm²</p>
width of the enclosure	45 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
<ul style="list-style-type: none"> top bottom left right 	<p>45 mm</p> <p>45 mm</p> <p>0 mm</p> <p>0 mm</p>
net weight	0.51 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	6 100 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

