



SITOP PSE202U/REDUNDANCY M./DC24V/10A

SITOP PSE202U 10A Redundancy module Input/output: 24 V DC suitable for decoupling two SITOP power supplies with maximal per 5 A output current

Input

type of the power supply network	DC voltage
supply voltage	
• at DC	24 ... 24 V
input voltage	
• at DC	19 ... 29 V

Output

voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
formula for output voltage	$V_{in} - \text{approx. } 0.5 \text{ V}$
output voltage	
• at output 1 at DC rated value	24 V
product function output voltage adjustable	No
display version for normal operation	Green LED for "both Input voltages > switching threshold"; red LED: for "at least one input voltage < switching threshold"
type of signal at output	Isolated relay contact (contact rating 6 A/42 V AC, 30 V DC): Contact closed if both input voltages > switching threshold, setting range of switching threshold $20 \text{ V} \pm 0.5 \text{ V}$ to $25 \text{ V} \pm 0.5 \text{ V}$
output current	
• rated value	10 A
• rated range	10 A; max. aggregate current 10 A

Efficiency

efficiency in percent	97.1 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	3.6 W
• during no-load operation maximum	1 W

Safety

galvanic isolation	yes, SELV acc. to EN 60950-1 (relay contact)
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
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• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
• NEC Class 2	No
• ULhazloc approval	No

• FM registration	No
type of certification CB-certificate	No
certificate of suitability	
• EAC approval	Yes
• C-Tick	No
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No
• DNV GL	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
• during operation	-20 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	Input, output and ground: removable screw terminal, each 1 x 0.5 ... 2.5 mm ² single-core/finely stranded
• for auxiliary contacts	Relay contact: 2 screw terminals for 0.5 ... 2.5 mm ² single-core/finely stranded
width of the enclosure	30 mm
height of the enclosure	80 mm
depth of the enclosure	100 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.125 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	3 273 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

