



SITOP PSE202U/REDUNDANCY M./DC24V/40A

SITOP PSE202U redundancy module input/output: 24 V DC/40 A suitable for decoupling two SITOP power supplies with maximal per 20 A output current *Ex approval no longer available*

Input	
type of the power supply network	DC voltage
supply voltage	
• at DC	24 ... 24 V
input voltage	
• at DC	24 ... 28.8 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 (changeover contacts, rating 8 A/240 V AC, 24 V DC); Signals OK if both input voltages > switching threshold, setting range of threshold 20 ... 25 V
output current	
• rated value	40 A
• rated range	40 A; max. aggregate current 40 A; +60 ... +70 °C: derating 3%/K
Efficiency	
efficiency in percent	96.6 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	34 W
• during no-load operation maximum	1.5 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
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• 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	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	No
• DNV GL	Yes
• 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	-25 ... +60 °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: 1 screw terminal each for 0.33 ... 10 mm ² single-core/finely stranded
• for auxiliary contacts	Relay contact: 3 screw terminals for 0.5 ... 2.5 mm ² single-core/finely stranded
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.5 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	6 471 654 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

