

SITOP REDUNDANCY MODULE

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



Input	
Input	DC voltage
Supply voltage	
<ul style="list-style-type: none"> <li>at DC</li> </ul>	24 ... 24 V
Input voltage	
<ul style="list-style-type: none"> <li>at DC</li> </ul>	24 ... 28.8 V
Output	
Output	Controlled, isolated DC voltage
Rated voltage $V_{out}$ DC	24 V
Output voltage	$V_{in}$ - approx. 0.5 V
Product function Output voltage adjustable	No
Status display	Green LED for "both Input voltages > switching threshold"; red LED: for "at least one input voltage < switching threshold"
Signaling	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
Rated current value $I_{out}$ rated	40 A
Current range	40 A
<ul style="list-style-type: none"> <li>Note</li> </ul>	max. aggregate current 40 A; +60 ... +70 °C: derating 3%/K

Efficiency	
Efficiency at Vout rated, Iout rated, approx.	96.6 %
Power loss at Vout rated, Iout rated, approx.	34 W
Power loss [W] during no-load operation maximum	1.5 W

Safety	
Galvanic isolation	yes, SELV acc. to EN 60950-1 (relay contact)
Protection class	Class I
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	IECEX Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nAC IIC T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
FM approval	-
CB approval	No
Marine approval	ABS, DNV GL
Degree of protection (EN 60529)	IP20

EMC	
Emitted interference	EN 55022 Class B
Noise immunity	EN 61000-6-2

Operating data	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>— Note</li> <li>• during transport</li> <li>• during storage</li> </ul>	-25 ... +70 °C with natural convection -40 ... +85 °C -40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	
<ul style="list-style-type: none"> <li>• Supply input</li> <li>• Auxiliary</li> </ul>	Input, output and ground: 1 screw terminal each for 0.33 ... 10 mm <sup>2</sup> single-core/finely stranded Relay contact: 3 screw terminals for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded
Width of the enclosure	70 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Required spacing	
<ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	50 mm 50 mm 0 mm 0 mm
Weight, approx.	0.5 kg

Product feature of the enclosure housing for side-by-side mounting	Yes
Installation	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)