

SIPPLUS PSE202U REDUNDANZMODUL  
 SIPLUS PS E202U redundancy module for medical exposure with conformal coating based on 6EP1961-3BA21 . Input/output: 24 V DC/40 A suitable for decoupling two SITOP power supplies with max. 20 A output current each



Figure similar

Input	
Input	DC voltage
Supply voltage	
• at DC	24 ... 24 V
Input voltage	
• at DC	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
• Note	max. aggregate current 40 A; +60 ... +70 °C: derating 3%/K
<b>Efficiency</b>	
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
<b>Safety</b>	
Galvanic isolation	yes, SELV acc. to EN 60950-1 (relay contact)
Protection class	Class III
Degree of protection (EN 60529)	IP20
<b>Approvals</b>	
CE mark	Yes
<b>EMC</b>	
Emitted interference	EN 55022 Class B
Noise immunity	EN 61000-6-2
<b>environmental conditions</b>	
Ambient temperature in horizontal mounting position during operation	0 ... 60; with natural convection
Ambient temperature during storage and transport	-40 ... +85
Installation altitude at height above sea level maximum	6 000 m
Ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
Relative humidity with condensation acc. to IEC 60068-2-38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation
Chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air
Resistance to biologically active substances conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
Resistance to chemically active substances conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
Resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust
Resistance to biologically active substances conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
Resistance to chemically active substances conformity acc. to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
Resistance to mechanically active substances conformity acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust
Coating for equipped printed circuit board acc. to EN 61086	Yes; Class 2 for high availability

Type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection
Type of test of the coating acc. to MIL-I-46058C	Yes; Discoloration of the coating during service life possible
Product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal Coating, Class A

## Mechanics

Connection technology	screw-type terminals
Connections	
• Supply input	Input, output and ground: 1 screw terminal each for 0.33 ... 10 mm <sup>2</sup> single-core/finely stranded
• Auxiliary	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	120 mm
Required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	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)