

Short description

When failures might cause cost extensive downtimes, you should design a redundant power supply by using several (N+1) identical power supplies.

. The redundancy module SLR02 is designed to create an N+1 redundancy in combination with the PULS 24...28V power supplies units SL10, SL20 or SL30 or other 24...28V power supplies with an output current of up to 30A (max. 35A). One SLR02 is required for two power supply units. The module decouples the power supply outputs from each other, so that in case of failure one power supply unit cannot overload the other power

Decoupling part

Voltage • nominal value • max. rated	24 V DC 35 V, short-term 45 V
Voltage drop	
$V_{in} \rightarrow V_{out}$	typ. 0.5 V
Current per input	
 nominal value 	20-30 A
 max. rated 	35 A
Output current	
 nominal value 	20-30 A
 max. rated 	35 A

Parallel operation for increasing the power is only permissible if the total output current cannot exceed the maximum rated value of 35A (danger of overloading).

Inverse battery protection	yes
Connection Connector size range 	via stable screw terminals solid: 0.5 - 6 mm ² flexible: 0.5-4 mm ²

Note: The GND connector on the module exclusively serves as intrinsic vlagus rewog

Construction / Mechanics*

Housing dimensions and Weight

WxHxD 48 mm x 124 mm x 102 mm (+ DIN Rail) above/below 10 mm recommended Free space for ventilation left/right 10 mm recommended Weight 625 g

Design advantages:

All connection blocks are easy to reach as mounted at the front panel

Order information

supply units.

A relay-changeover contact, picked up under normal conditions and dropped in case of failure, indicates the status of each connected power supply unit.

A Single Redundancy Module, the SLR01, is available to design a redundancy with one attached power supply unit and an output current of up to 40A (max. 50A). For smaller current values of 2.5A, 5A and 10A PULS also offers the SLR2, SLR5 and SLR10 power supplies with integrated redundancy modules.

Relay contacts

Relay type	Changeover contact, picked-up during normal operation
relay picks up ("ok")relay drops out	when V_{in} between V_{low} and V_{high} when $V_{in} < V_{low}$ or $V_{in} > V_{high}$
	Hysteresis
Upper limit V _{high} hysteresis 	30 V ± 5% fix appr. 0.7 V Not OK 30.7 V ↓ drops out 30.0 V ↓ picks up
Lower limit V _{low} • guaranteed range • preset	adjustable 1627 V 22 V ± 1% OK 22.0 V + picks up
 hysteresis 	appr. 0.7 V Not OK { 21.3 V + drops out
Contact load	28 V DC / 1 A or 120 V AC / 0.5 A
Connection connector size range 	via stable screw terminals solid: 0.5 - 6 mm ² flexible: 0.5-4 mm ²
LEDs on the front panel • for inputs • for output	green LED, when V _{in} between V _{low} and V _{high} green LED, when V _{out} > appr. 2.53.5 V

Note:

- All relay contacts are potential-free.
- The SLR02 includes two of these relay contacts, each per input.

Further information

Test voltage	
• relay cont., V _{in} , V _{out}	500 V AC
 V_{in}, V_{out} / housing 	500 V AC
Ambient temperature	Operation: -10°C+70°C
range T _{amb}	Storage: -25°C+85°C
Efficiency	> 97 %

*For further information see data sheets "The SilverLine", "SilverLine Family Branches"

Order number	Description
SLR02 SLZ02	Single Redundancy Module (Screw mounting set, two needed per unit)







Further information, especially about EMC, Connections, Safety, Approvals, Mechanics and Mounting, see page 2 of "The SilverLine" data sheet.

Unless otherwise stated, specifications are valid for AC 230V input voltage, +25°C ambient temperature, and 5 min. run-in time. They are subject to change without prior notice.

Your partner in power supply:







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