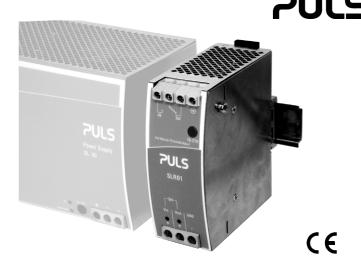
When failure is not an option: 40 A Redundancy Module

SLR01

- Easy set-up of N+1 redundancies on the DIN-Rail
- Decoupling diode
- Ready relay contact
- For use with 24...28V power supplies up to max. 50A



Short description

Data sheet

When failures might cause costly extensive downtimes, a design solution is a redundant power supply that uses several (N+1) identical power supplies.

The redundancy module SLR01 is designed to create an N+1 redundancy in combination with the PULS power supply SL40 or other 24...28V power supplies with an output current of up to 40A (max. 50A). One SLR01 is required for each power supply. The module decouples the output of the connected power supply from the others so that in the event of

Decoupling part

Voltage nominal value	24 V DC
max. rated	35 V, short-term 45 V
Voltage drop	
$V_{in} \rightarrow V_{out}$	typ. 0.6 V
Current per in- and out	put
 nominal value 	40 A
 max. rated 	50 A
Protection against polarity reversal	yes
Connection	via stable screw terminals

range

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

solid: 0.5 - 16 mm²

power supply

Construction/ Mechanics*

Housing dimensions and Weight

W x H x D
 Free space for ventilation
 Weight
 Wa mm x 124 mm x 117 mm (+ DIN Rail)
 Wabbelle w 10 mm recommended
 Weight
 Weight
 Wabbelle w 124 mm x 117 mm (+ DIN Rail)
 In many commended
 Weight

Design advantages:

Connector size

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

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

failure one power supply unit cannot overload the other units. A relay-changeover contact, picked up under normal conditions and dropped in the event of failure, indicates the status of the connected power supply unit.

A Dual Redundancy Module, SLR02, is available to provide redundancy with two attached power supply units, each with an output current of up to 30A (max. 35A). 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 typerelay picks up ("ok")relay drops out	Changeover contact, picked-up du operation when V_{in} between V_{low} and V_{high} when $V_{in} < V_{low}$ or $V_{in} > V_{high}$	3
Upper limit V	30 V ± 5% fix	Hysteresis
Upper limit V_{high}hysteresis	appr. 0.7 V Not OK 30.7 V 30.0 V	†† drops out
riysteresis	30.0 V	♦ picks up
Lower limit V _{low}	adjustable OK	
 guaranteed range 	1627 V	ſ
preset	22 V ± 1% > 22.0 V	♦ picks up
 hysteresis 	22 V ± 1% 22.0 V appr. 0.7 V Not OK 21.3 V	drops out
 relay delay 	typ. 50 ms at undervoltage	
Contact load	48 V DC/1 A or 230 V AC/0.5	4
Connection	via stable screw terminals	
connector size	solid: 0.5 - 6 mm ² flexible: 0.1	5-4 mm ²
range		
LEDs on the front panel	l	

for input green LED, when V_{in} between V_{low} and V_{high} for output green LED, when $V_{out} > appr. 2.5...3.5 V$

Note:

flexible: 0.5-10 mm²

• All relay contacts are potential-free

Further information

Test voltage	
 relay cont., V_{in}, V_{out} 	3 kV
 relay contacts/PE 	2.5 kV
 V_{in}, V_{out}/PE 	500 V AC
Ambient temperature	Operation: -10°C+70°C
range T _{amb}	Storage: -25°C+85°C
Efficiency	> 97 %

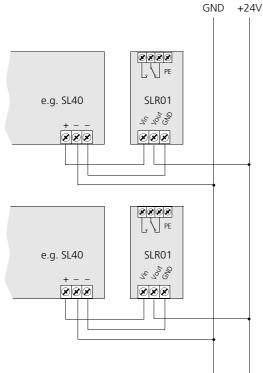
Order information

	Order number	Description
2	SLR01	40A Redundancy Modul
9	SLZ01	(Screw mounting set, two needed per unit)

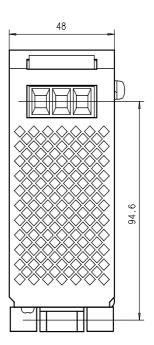
slr01e / 030521 1/2

Power wiring SLR01

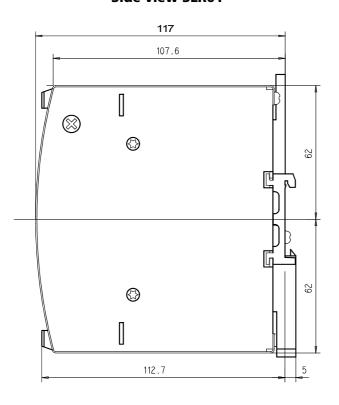
PULS



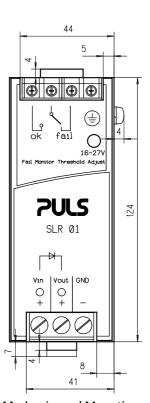
Bottom view SLR01



Side view SLR01



Front view SLR01



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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