

Redundancy module **PELR**



General Data

Input rated voltage 12 - 24 Vdc
Output rated voltage 12 - 24 Vdc
Output rated current 2 x 5/1 x 10 A
Ambient temperature -25 °C to +55 °C
Efficiency typ. 97 %
Protection index IP 20

Advantages

Signalling via LEDs
Service-friendly spring-loaded connector system

Applications

Redundancy module for decoupling two power supplies for building a fail-safe supply system. Set of machines and equipment requiring high operational reliability.

Standards

Redundancy module
to UL 60950, UL 508

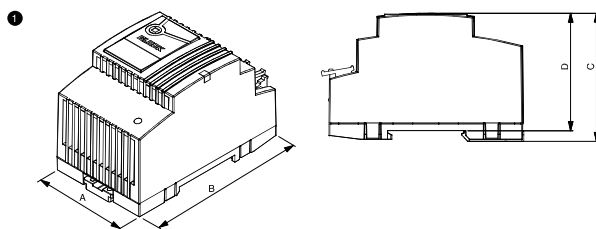
Safety:
EN 60950 (SELV), EN 60204 (PELV)

EMC:
EN 61000-6-3 (Interference emissions), EN 61000-6-2 (Interference immunity)



Mechanical data		30 mm	
Typ			
PELR 24/24-5	max. 2.5 mm²	max. 2.5 mm²	vertical
	Terminals input, (spring clamp terminal, pluggable)	Terminals output, (spring clamp terminal, pluggable)	Mounting position
			Fixing method
	Weight		
	Dimension picture (in mm)		
	A	B	C
	72	89	59
			D
			54

Dimension pictures



Redundancy module Power Compact PC RE



General Data

Input rated voltage 24 - 48 Vdc
Output rated voltage 24 - 48 Vdc
Output rated current 40 A
Ambient temperature -40 °C to +70 °C
Efficiency >99 %
Protection index IP 20

Advantages

High efficiency
Error message via relay contact and LEDs
Safe parallel operation to increase power
Fully compatible with Top and Power Boost for your power supplies
Active operation for minimal power loss even in the event of a short-circuit on the secondary side
Based on Mosfet technology

Applications

Redundancy module for decoupling from two power supplies on installation of a fail-safe power supply system. For machines and systems which place high requirements on operational safety.

Standards

Redundancy module
to UL 60950, UL 508

Safety:
EN 60950 (SELV), EN 60204 (PELV)

EMC:
EN 61000-6-3 (Interference emissions), EN 61000-6-2 (Interference immunity)

Approvals



UL 60950 (prepared), UL 508 (prepared), GL (prepared)



Redundancy module Power Compact PC RE



Electrical data	Typ	PC-0624-400-0	PC-0648-400-0
	Input		
	Input rated voltage	24 Vdc	48 Vdc
	Input voltage range	10 - 36 Vdc	33 - 56 Vdc
	Input rated current	2 x 20 A / 1 x 40 A	2 x 20 A
	Output		
	Output rated voltage	24 Vdc	48 Vdc
	Output voltage range	10 - 36 Vdc	33 - 56 Vdc
	Voltage drop	max. 100 mV	max. 100 mV
	Resistance to reverse feed max.	37 Vdc	58 Vdc
	Output rated current	40.00 A	40.00 A
	Internal fuse	No	No
	Power Boost	200 A, 50 ms / 120 A, 4 s / 100 A, 8 s	160 A, 50 ms / 60 A, 4 s / 50 A, 8 s
	Parallel connection	Yes	Yes
	max. Power loss idling/nominal load	1,5 W / 9,5 W	1,5 W / 9,5 W
	Efficiency	99,5%	99,5%
	Signaling		
	Power Good (DC OK)	Green LED per input	Green LED per input
	Potential free signal contact	N/O contact	N/O contact
	Approvals		
	Approvals	UL 60950/ UL508 (prepared), GL (prepared)	UL 60950/ UL508 (prepared), GL (prepared)
	Environment		
	Ambient temperature	-40 °C to +70 °C	-40 °C to +70 °C
	Storage temperature	-25 °C to +85 °C	-25 °C to +85 °C
	Derating	-	-1,5 %/K > +65 °C
	Climatic category	3k3	3k3
	Required minimum spacing (left/right)	0 mm	0 mm
	Type of cooling	convection	convection
	Required minimum spacing (over/under)	50 mm	50 mm
	Degree of pollution	2	2
	Relative humidity	5 - 96 %	5 - 96 %
	MTBF @ 50 °C/500 V (MIL-HB-217F)	>500.000h	>500.000h
	Safety and protection		
	Protection index	IP 20	IP 20
	Safety class (prepared)	III, without PE connection	III, without PE connection
	Reverse connection protection	Yes	Yes
	Order numbers		
	Order Number	PC-0624-400-0	PC-0648-400-0



Redundancy module Power Compact PC RE



Mechanical data	Typ	Terminals input (direct plug-in technology Push-in)	Terminals output (direct plug-in technology Push-in)	Terminals signalling	Fixing method	Mounting position	Weight	Dimension picture (in mm)						
									A	B	C	D	E	F
									1	2	3	4	5	6
	PC-0624-400-0	max. 16 mm²	max. 16 mm²	max. 2,5 mm²	DIN Rail system TS35	vertical	0.37 kg	1	127	63.5	5	42	120	112.5
	PC-0648-400-0	max. 16 mm²	max. 16 mm²	max. 2,5 mm²	DIN Rail system TS35	vertical	0.37 kg	2	127	63.5	5	42	120	112.5

Dimension pictures

