Power supplies and transformers
Regulated switch mode power supplies
Phaseo Universal range: Function modules
Redundancy solution

Technical characteristics

Type of Function module				Redundancy ABL 8RED24400
Certifications				CB scheme IEC/EN 60950-1, UL, cCSAus, C-Tick, CE
Conformity to standards	Safety			IEC/EN 60950-1, IEC/EN 61204
	EMC			IEC/EN 61000-6-2, EN 61000-6-3
Input circuit				
Input values	Nominal voltage (U_{in})		**V**	24...28.8 ⎓
	Limit voltage		**V**	22...30 ⎓
	Input limit current		**A**	20 per input
	Protection against reverse polarity			Yes
Output circuit				
Nominal output values	Output voltage (U_{Out})		**V**	U_{In} - 0.2
	Max. current (I_{Out})		**A**	40
Number of channels				1
Protection	Against short-circuits			Provided by the power supplies
	Against overloads			Provided by the power supplies
Operating and environmental characteristics				
Connections	Input		**mm²**	2 x 0.5...10 (20...8 AWG)
	Output		**mm²**	2 x 0.5...10 (20...8 AWG)
	Diagnostic relay		**mm²**	2.5
Mounting	On ⊓ rail			35 x 7.5 mm and 35 x 15 mm
Operating position	Vertical plane			Vertical or horizontal position
Connections	Series			–
	Parallel			Yes for 2 x 40 A
Degree of protection	Conforming to IEC/EN 60529			IP 10
Environment	Temperature	Operation	**°C**	- 25…+ 60
		Storage	**°C**	- 40…+ 85
	Relative humidity	Operation		90%
		Storage		95%
	Vibrations acc. to IEC/EN 61131-2			3...11.9 Hz amplitude 3.5 mm; 11.9... 150 Hz acceleration 2 g
Protection class according to VDE 0106 1				Class II
Diagnostics	Via LED			1 LED per input Green: power supply operational
	Via relay			Closed: 2 power supplies operational
Dielectric strength 50 Hz for 1 min	Input/output		**V rms**	No isolation
	Input/ground		**V rms**	500 ∿
	Output/ground		**V rms**	500 ∿
Emissions according to EN 61000-6-3				EN 50081-1 (generic)
	Conducted/radiated			EN 55022 - Class B
Immunity according to IEC/EN 61000-6-2	Electrostatic discharge			IEC/EN 61000-4-2 (6 kV contact/8 kV air)
	Radiated electromagnetic fields			IEC/EN 61000-4-3 level 3 (10 V/m)
	Induced electromagnetic fields			IEC/EN 61000-4-6 level 3 (10 V/m)
	Rapid transients			IEC 61000-4-4 level 3 (2 kV)
	Surges			IEC/EN 61000-4-5 level 2 (1 kV)

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