Switching Power Supply Redundant Module Type SPM2RM2410 DIN rail mounting





Product Description

This SPD additional module allows the connection of 1 power supply +1 or more additional redundant power supplies. In this case, the continuity of the 24VDC output is always guaranteed, even in case of failure of one power supply.

Ordering Key

supplies



Model
Enclosure (M = Modular DIN type)
Number of DIN modules
Redundant module
Output voltage
Maximum output current (A)

Approvals



Output Data

Output voltage drop	0.5V
Output maximum Current	10A
Max Reverse Voltage	30V

General Data

Operating temperature	-25°C+71°C
Storage temperature	-25°C+85°C
Relative Humidity	2095%RH
MTBF (Bellcore issue 6 @ 40°C, GB)	9.697.000h
Case material	Plastic
Cooling	Free air convection
Dimensions L x W x D	91 x 35 x 56.55mm
Weight	75g

Input Data

Rated input Voltage	2128VDC
Number of inputs	2
Maximum input current	10A

Approvals and EMC

Shock resistance	acc. to IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
Vibration resistance	acc. to IEC 60068-2-6 (Mounting by rail: 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)
CE	EN 55022 Class B, EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6, EN 61000-4-8, EN 61204-3

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Mechanical Drawings mm (inches)



Pin Assignement and Front Controls

Pin No.	Designation	Description	
1	Input A+	Positive Input power supply A	
2	Input A+	Positive Input power supply A	
3	Input B+	Positive Input power supply B	
4	Input B+	Positive Input power supply B	
5	Input -	Negative Input power supply	
6	Input -	Negative Input power supply	
7	Output +	Positive Output terminal	
8	Output +	Positive Output terminal	
9	Output +	Positive Output terminal	
10	Output -	Negative Output terminal	
11	Output -	Negative Output terminal	
12	Output -	Negative Output terminal	

Typical Application Notes

1.) 1+1 Redundancy: Using 1 more PS as the redundant unit.

2.) Single Use: Connecting only one PS to one SPD24RM20 to reduce the stress of the diodes and hence increase the reliability.



3.) 1+N Redundancy: Using more than one PS as redundant units to increase the reliability.



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Circuit Diagram



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Ventilation and cooling	Normal convection All sides 25mm free space for cooling is recommended
Screw terminals	10-24AWG flexible or solid cable 8mm stripping recommend
Max. torque for screws terminals Input terminals Output terminals	1.008Nm (9.0lb-in) 0.616Nm (5.5lb-in)
Plug-in connectors	10-24AWG flexible or solid cable 7mm stripping recommend
Max. torque for plug-in terminals Input terminals Output terminals	0.784Nm (7.0lb-in) 0.784Nm (7.0lb-in)

Installation