

20A DRR Module / 40A DRR Module



Features:

- Full corrosion resistance aluminium chassis even with deep scratches caused by rugged handling
- Ease of wire connection to terminals
- Wide Input & Output Range 22-60Vdc.
- Built-in 2 Channel DC OK signal
- Relay alarm indication
- RoHS compliant.



DRR-20A /40A

Summary

The new Redundancy Module DRR-20A/40A is the latest offering from one of the world's largest power supply manufacturers - Delta.


The product offers a variable input & output voltage from 22-60V, a wide operating temperature range from -40°C to +80°C.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC60068-2.

Due to the wide range input & output voltage range from 22Vdc to 60Vdc, the Delta's Redundancy module is able to support power supply in parallel operation.

The DRR module has an alarm relay contact as an indicator.

Technical Data

Redundancy Module	DRR- 20A	DRR- 40A
1.) INPUT DATA		
Nominal input voltage	24-48VDC	
Voltage range	22-60VDC	
Nominal current	20A max	40A max
Input voltage alarm / relay contacts	24V system: both Vin1 & Vin2 >18V +/- 5% or <30V max. relay contacts	48V system: both Vin1 & Vin2 >36V +/- 5% or <60V max. relay contacts
Note: The LED will turn on when The Vin1 & Vin2 > 18V +/- 5% (For 24V system) or > 36V +/- 5% (For 48V system) and not more than 30V (For 24V system) or not more than 60V (For 48V system), The relay contacts will be closed. If Vin1 & Vin2 is under or over this range, The LED will be turn off.		
2.) OUTPUT DATA		
Nominal output voltage U_N / tolerance	Vin-0.65V (Typ)	
Nominal current	20A max / 40A max	
Derating above +50 °C	> 50°C (2.5% / K.)	
Short circuit / Over Load Limit	(<25A for DRR- 20A)	(<50A for DRR- 40A)
Note: The overload condition must be controlled by The PSUs in parallel; The limit of input current would not more than 25A (For 20A module) or not more than 50A (For 60A module).		
Efficiency	> 97% typical.	
3.) CERTIFICATION / STANDARDS		
Electrical equipment of machines	IEC60204-1 (over voltage category III)	
Electrical safety (information technology equipment)	UR/cUR recognized to UL60950-1, SIQ BG to EN60950-1, CB test certificate and report to IEC60950-1 and CE.	
Industrial Control Equipment	UL/cUL recognize to UL508	
Electronic equipment for use in electrical power installations	EN50178 / IEC62103	
Safety entry low voltage	PELV (EN60204), SELV (EN60950)	
RoHS Compliant	Yes, RoHS directive, WEEE directive	
Protection against electric shock	DIN 57100-410	
4.) GENERAL DATA		
Isolation voltage: Input / PE output / PE	type test/routine test: type test/routine test:	1.5 KVAC / 1.5 KVAC 1.5 KVAC / 1.5 KVAC
Degree of protection	IP20	
Class of protection	Class II with PE connection	
MTBF	> 800,000hrs. as per BELL CORE STD or IEC61709	
Type of housing	Aluminium (AL1100F)	
Dimensions (W / H / D) + mounting rail	121 mm X 50 mm X 122.1 mm (L X W X H)	
Weight	0.375Kg	0.515Kg
LED (DC INPUT OK)	Vin1 OK and Vin2 OK (GREEN LED)	
5.) CLIMATIC DATA		
Ambient temperature (Operating)	- 40°C to 80°C (> 50°C derating)	
Ambient temperature (Storage)	- 40°C to 85°C	
Humidity at +25 °C, no condensation	< 95% RH	
Vibration (Non-Operating)	10Hz to 500Hz @ 30 m/S ² (3G peak); displacement of 0.35mm; 60min per axis for all X, Y, Z direction. Refer to IEC 60068-2-6. Note: all figures quoted are amplitudes (peak values)	
Shock (in all directions)	IEC60068-2-27, 30G (300m/s ²) for duration 18ms 1 Shock in 2 Directions tested with Fixture with EUT mounted on DINRAIL in Vertical and Horizontal position.	
Pollution degree	2 according to EN50178	
Climatic class	3K3 according to EN 60721	
 Conformance with EMC guideline 2004/108/EC and for low voltage guideline 2006/95/EC :	DRR-20A (EOE21010284)	DRR-40A (EOE21010285)
EMC (electromagnetic compatibility)		
Immunity to interference : According to EN 61000-6-2	CE (EMC and Low Voltage directive)	
• EN 61000-4-2 ¹⁾ Discharge of static electricity (ESD)	Housing: Contact discharge: Air Discharge:	LEVEL 4 8 KV 15 KV
• EN 61000-4-3 ¹⁾ Radiate Field Immunity	Housing: Frequency/Field intensity:	LEVEL 3 80MHz - 1GHz / 10V/M with 1kHz tone / 80% modulation
• EN 61000-4-8 ²⁾ Power frequency magnetic fields	Input: Current:	Level 3 10A/meter
EN55011 corresponds to CISPR11 / EN55022 corresponds to CISPR22 / EM 61000 corresponds to IEC 1000 1) Criterion A: Normal operating behavior within the defined limits. 2) Criterion B: Temporary impairment to operational behavior that is corrected by the device itself. 3) Symmetrical: Conductor to conductor. 4) Asymmetrical: Conductor to ground. 5) Class B: Area of application industry and residential.		