

- **Allow the redundancy coupling of two alternative network**

- Available operating voltage 24Vac, 48Vac, 115Vac, 230Vac (400Vac in option)
- Improve the availability of installation
- Increase installation safety
- Ensure a redundancy without cutoff < 10ms
- Watchdog relays integrated
Signal the failure of one of power inputs
- Low voltage dropout < 0.2V
- For 6A max load, 16A peak
- Embedded EMC protection (varistor)

- **Application**

- Backed up system
- Installation needing a high level of availability



The redundancy module provide an effective protection against the failure of AC power supplies. Through de-coupling of two power supplies, the failure of one of them has no effect on output, the other taking automatically its function without interruption.

The redundancy module monitor continuously the power supplies and provide an alarm via a contact relay if a failure is detected (loss of redundancy).

Benefits

- improve the operational safety
- increase the availability of installations
- increase micro cut immunity

Inputs / Power supplies

- 2 AC voltage inputs, single-phase or bi-phase

Output

- Automatic selection of valid source.
(priority on input #1)
- Switching time < 8 ms
- admissible current of 6A rms. 16A peak
- EMC protection, varistor clipper embedded

Monitoring relays (Watchdog)

- Potential free contact (closed when input power is ok)
- 1 relay per channel, signal a faulty power supply

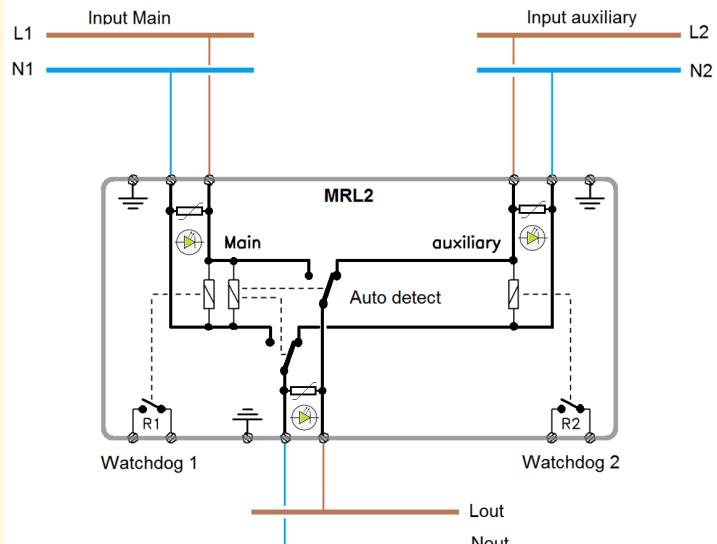
Signalisation

- One green LED for input #1
- One green LED for input #2
- One green LED for power out OK

Feature

- DIN rail mounting (symmetric according to EN50022)
- Screw terminal blocks (2.5 mm²)
- Protection rating : IP20 + conformal coating

MRL2 synoptic, using and implementation



Version and order code:

[Request a quote](#)

MRL2-U: Redundancy module for alternative voltage

U:	Rating voltage input <i>to be defined at order</i>	24Vac
		48Vac
		115Vac
		230Vac
		400Vac bi-phase

Option : 400Vac three-phase on request

INPUT / POWER SUPPLY		ENVIRONMENT	
Nominal voltage according to version	230 Vac +/- 25% 110-115 Vac +/- 25% 48 Vac +/- 25% 24 Vac +/- 25% 400 Vac +/- 20% (bi-phase)	Operating temperature:	-25 to 60 °C
		Storage temperature:	-40 to +85 °C
		Humidity:	85 % non condensed
		Protection rating (according to EN 60529):	IP20.
		Weight:	150 g.
		Dielectric strength (power supply / relay)	2500 Vac continuous
Voltage dropout	< 0.2V	MTBF (MIL HDBK 217F)	> 1 200 000 Hrs @ 25°C
Nominal current	6Aac	Life time	> 200 000 Hrs @ 30°C
Maximum admissible overcurrent	3 x In / 5 seconds	Shock IEC 60068-2-27 (operating)	5 G / 11 ms
Switching time	input #1 to input #2 < 5 ms (on loss of input #1) input #2 to input #1 < 12 ms (on input #1 comeback)	Bump IEC 60068-2-29 (transportation)	30 G / 6 ms
Clipper :	Varistor, withstand surge current 20uS : 4500A	Vibration IEC 60068-2-6 (operating)	1 G / 10 - 150 Hz
		Vibration CEI 60068-2-6 (transportation)	2 G / 10 - 150 Hz
MONITORING RELAYS			
Potential free contact (open on failure)			
Electromechanical relays, 8 A / 250 V, response time : 5 ms			
WIRING AND OUTLINE DIMENSIONS:			

WIRING AND OUTLINE DIMENSIONS:

