

• For parallel coupling of power supplies

Increases system availability and safety

Allowing the replacement of one supply without cutoff

MPA3 : 20A nominal, 30A maxi (natural convection)

MPA3-3 : version with 3 inputs 30A maxi

MPAD : 2 circuits with common anode and cathode

MPA4 : 40A rating current, 50A maxi (ventilated model)

MPA5 : 80A rating current, 100A maxi (ventilated model)

MPA6 : 200A rating current, 250A maxi (ventilated model)

Monitoring relay in option

• DIN rail or surface mounting

• Application rescued system

or installation requiring a high level of availability.



The MPA provide an effective protection against the power supplies failure.

Through decoupling of two power supplies, the failure of one of them has no effect on the output, the other taking automatically its function without interruption.

The MPA monitor continuously the two power supplies, and provide an alarm via a contact relay if a failure is detected.

Benefit

- Significantly improves the operational safety,
- Increases the availability of installations,
- Increases the immunity against power voltage dips

Inputs

2 or 3 inputs with common ground.

Output

equal to the higher input voltage - 1.2V

Monitoring relay (MPAx/R)

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

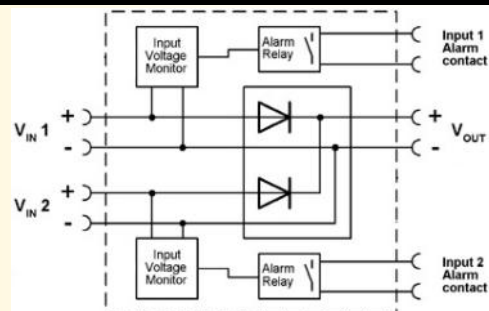
Extended protection for harsh environment (option - MOV)

- EMC protection, varistor surge protector.

Feature

- Surface or DIN rail mounting (symmetric according to EN50022)
- MPA3 : pluggable screw terminal blocks, 6mm² section
- MPA4 : fixed screw terminal blocks, 25mm² section
- MPA5 : fixed screw terminal blocks, 35mm² section
- MPA6 : wiring on 8mm threaded brass rod
- Protection rating: IP20

Internal synoptic



Version and order code:

MPA3: Version with 2 inputs, 30A maxi
MPA3 – ICC1200-20ms: peak current up to 1200A (single pulse, 20ms)
MPA3B: Version with balanced current input
MPA3D: Version with common anode and cathode
MPA3D-NV version of MPA3D without ventilation, natural convection
MPA3-3: Version with 3 inputs, 30A maxi
 (Operating voltage range 20Vdc to 280Vdc)

MPA3/R-MOV-RTE: Version 127Vdc nominal / 30A with monitoring relay and varistor protection (model for RTE customers)

MPA4: Version 50A max (voltage to defined)
MPA4D: Version with common anode and cathode
MPA4 – ICC1200-20ms: peak current up to 1200A (single pulse, 20ms)
MPA5: Version 100A max (voltage to defined 150V max)
MPA6: Version 250A max (voltage to defined 150V max)

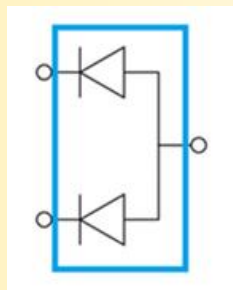
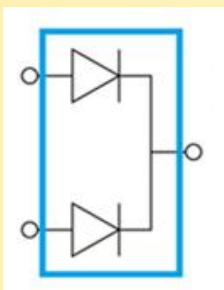
(Rated voltage must be defined at order)

Option :
 /R input voltage monitoring relay
 -AC Diode mounted in common Anode
 -MOV varistor surge protector

note : options can be cumulated (no option for **MPA3-3** model)

PA standard
common cathode

MPA-AC
common anode



INPUT / POWER SUPPLY

MPA3	Voltage	20...280Vdc
	20A rated current, 30A @45°C maxi	
MPA4	Voltage	20...280Vdc
	40A rated current, 50A @45°C maxi	
MPA5	Voltage	20...150Vdc
	80A rated current, 100A @45°C maxi	
MPA6	Voltage	20...150Vdc
	200A Rated current, 250A @45°C maxi	

Reverse polarity protected

OUTPUT

Typical voltage	= input voltage - 1.6V @ rated current
Maxi overcurrent supported	3 x I / 5 sec.
Reverse leakage current	< 200uA
Switching time	< 250nsec

MONITORING RELAY (MPAx/R)

Potential free contact (open on failure)	
switching capacity :	5A / 250V
response time :	5ms

ENVIRONMENT

Operating temperature:	-25°C to 60°C
Storage temperature:	-40°C to 85°C
Humidity:	85 % non condensed
Protection rating (according to EN 60529):	IP20
Weight:	950 g
Dielectric strength (power supply / relay)	2500Vac continuous
MTBF (MIL HDBK 217F)	> 1 200 000 Hrs @ 25°C
life time	> 200 000 Hrs @ 30°C (natural convection)
	> 50 000 Hrs @ 30°C (ventilated)

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments and power station
EN 61000-6-2 / EN 61000-6-5Emission standard for industrial environments
EN 61000-6-4

EN 61000-4-2 ESD	EN 61000-4-8 AC MF
EN 61000-4-3 RF	EN 61000-4-9 pulse MF
EN 61000-4-4 EFT	EN 61000-4-11 AC dips
EN 61000-4-5 CWG	EN 61000-4-12 ring wave
EN 61000-4-6 RF	EN 61000-4-29 DC dips

EN 55011
group 1
class A

WIRING AND OUTLINE DIMENSIONS: MPA3

