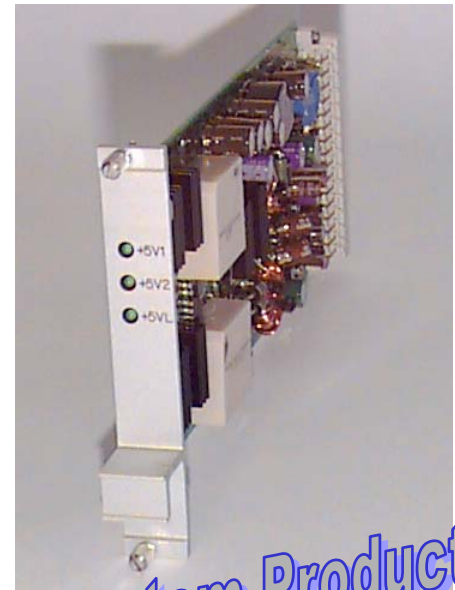


MPF 031 6 D 01

APPLICATION : RAILWAYS



Custom Product

INPUT VOLTAGE :	24V
OUTPUT VOLTAGE	
VO1 :	+5V @ 3A
VO2 :	+12V @ 0.4A
VO3 :	-12V @ 0.4A
VO4 :	+5V @ 0.3A
VO5 :	-5V @ 0.3A
VO6 :	+5V @ 0.6A
SIZES :	3U x 160 x 20mm (3U x 6.29 x 0.78")
EN 50 155	EN 50121-3-2

ELECTRICAL SPECIFICATIONS

Input

Nominal Input :	24V
Input range :	21.5V to 28.8V
Input Inrush current :	By NTC and MOS
EMI filter:	EN55022 Class A, EN 61000-4-2 8kV EN 61000-4-3, 10V/m EN 61000-4-4, 2kV EN 61000-4-5, 2kVCM 1kVDM
Dielectric strength:	2000VAC (Input to Output)
Isolation :	200MΩ under 500VDC
Efficiency :	>70% typical at 24V
Input Over voltage protection :	By tranzil 1.5KE

Output

	VO1	VO2	VO3	VO4	VO5	VO6
Output Voltage	+5V	+12V	-12V	+5.2V	-5.2V	+5V
Output Current	3A	0.4A	0.4A	0.3A	0.3A	0.6A
Load and line regulation	±2%	±4%	±4%	±2%	±2%	±2%
Ripple Noise	50mV	50mV	50mV	50mV	50mV	50mV

Output Over voltage protection :
By tranzil on VO1

Short Circuit Protection : Limitation of the primary power for VO1, VO2 and VO3.
Thermal protection for VO4, VO5 and VO6

MTBF requirement : >250.000 h at 25°C fixed ground

Input reverse voltage : By serial diode.

ENVIRONMENTAL

Humidity: Up to 95% non-condensing
Conform to EN50155

Salt fog : Conform to EN 50 155

Storage Temperature range : -40° to +85°C

Operating Temperature range : -5 to +70°C

Shocks and vibrations : Conform to EN 50 155

VO1 VO2 VO3 same 0V
VO4 VO5 same 0V

Mechanical sizes

High : 3U
Width : 20 mm (0.78")
Length : 220 mm (8.66")

Environmental Protection : IP00
Weight : < 300g or 0.66 pounds

Aluminium front panel with incolor anodic oxydation

Visual on front panel :

- 1 green led for VO1, VO2, VO3
- 1 green led for V04, V05
- 1 green led for V06

The 3 groups of output voltage are isolated from each other with 500VAC

NOTES

1. Specifications subject to change without notice.
2. All dimensions in mm.
3. Warranty: 1 year

CONNECTOR

Input / Output Connector : DIN 41 612 F48

Pinout F48

Pinout	Name (a)	Name (C)	Name (e)
2	+VIN	+VIN	+VIN
4	-VIN	-VIN	-VIN
6			
8			
10	+5V01	+5V01	+5V01
12	0V01	0V01	0V01
14	0V01	0V01	0V01
16	+12V02	0V02	-12V03
18			
20	+5V04	0V04	-5V05
22			
24	+5V06	0V06	+5V06
26	0V06	0V06	0V06
28			
22			
30			
32	MM	MM	MM

Written by : Guy GALLET		Checked by: Jean Pierre SCHNEE		Quality checked by :			
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