

# DMP-024-V/1-JFR1

## SPD - for data, signalling and telecommunications lines / I&C / Supply (DP and DMP) - with signalling line

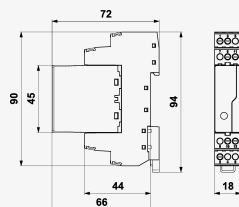
Surge protection for 3-core line (combination of signal and supply lines)

pluggable module, coupling impedance (R – resistance) in part of data, line separated from protective earth via GDT

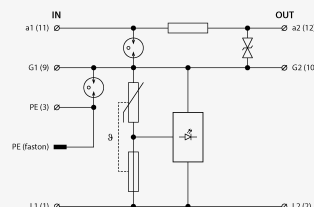
- surge protection of 3-core line comprehend signal transmission and supply
- installation close to protected equipment
- for protection of interfaces of I&C, electronic security and fire detection systems, etc., mainly for measuring circuits and sensors where signal and supply are transmitted in one cable, against surge voltage
- single common wire for power supply and signal transmission



Product dimensions



Basic circuit diagram



Parameter name	Parameter value
Cross-section of connected conductors solid (min)	0.14 mm <sup>2</sup>
Cross-section of connected conductors solid (max)	4.00 mm <sup>2</sup>
Cross-section of connected conductors stranded (min)	0.14 mm <sup>2</sup>
Cross-section of connected conductors stranded (max)	2.50 mm <sup>2</sup>
Fault indication	red indicator
Degree of protection	IP 20
Range of ambient temperatures (min/max)	-40 / 70 °C
Humidity	5 - 95 %

According to standard		<b>EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012</b>
ETIM Class		<b>EC001473</b>
Plug module		<b>DMP-024-V/1-J-0</b>
Nominal voltage	$U_n$	<b>24.00 V AC</b>
Maximum operating voltage	$U_c$	<b>25.00 V AC</b>
Maximum operating voltage	$U_c$	<b>36.00 V DC</b>
Nominal load current	$I_L$	<b>16.000 A</b>
Maximum overcurrent protection		<b>16 A gL/gG nebo B 16 A</b>
C2 nominal discharge current (8/20 $\mu$ s) core-core	$I_n$	<b>2.00 kA</b>
Test voltage L+(L-)-PE		<b>4.0 kV</b>
Test voltage M-PE		<b>4.0 kV</b>
voltage protection level L+(L-)-PE		<b>0.75 kV</b>
voltage protection level M-PE		<b>0.75 kV</b>
C2 voltage protection level mode M-PE at $I_n$		<b>750.00 V</b>
C2 voltage protection level mode core-PE at $I_n$	$U_p$	<b>750.00 V</b>
Response time L+(L-)-PE		<b>100 ns</b>
Response time M-PE		<b>100 ns</b>
Nominal voltage	$U_n$	<b>24.00 V DC</b>
Maximum operating voltage	$U_c$	<b>25.00 V AC</b>
Maximum operating voltage	$U_c$	<b>36.00 V DC</b>
Nominal load current	$I_L$	<b>1.000 A</b>
Threshold frequency core-core		<b>4.00 MHz</b>
Serial resistance per core	$R$	<b>0.80 <math>\Omega</math></b>
C2 nominal discharge current (8/20 $\mu$ s) GND-PE		<b>10.00 kA</b>
C2 nominal discharge current (8/20 $\mu$ s) core-PE	$I_n$	<b>10.00 kA</b>
C2 nominal discharge current (8/20 $\mu$ s) per core	$I_n$	<b>10.00 kA</b>
C3 nominal discharge current (10/1000 $\mu$ s) GND-PE		<b>10.00 A</b>
C3 nominal discharge current (10/1000 $\mu$ s) core-PE		<b>10.00 A</b>
C3 voltage protection level mode GND-PE at 1 kV/ $\mu$ s		<b>550.00 V</b>
C3 voltage protection level mode core-GND at 1 kV/ $\mu$ s		<b>46.00 V</b>
Response time core-GND		<b>1 ns</b>
Response time GND-PE		<b>100 ns</b>

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