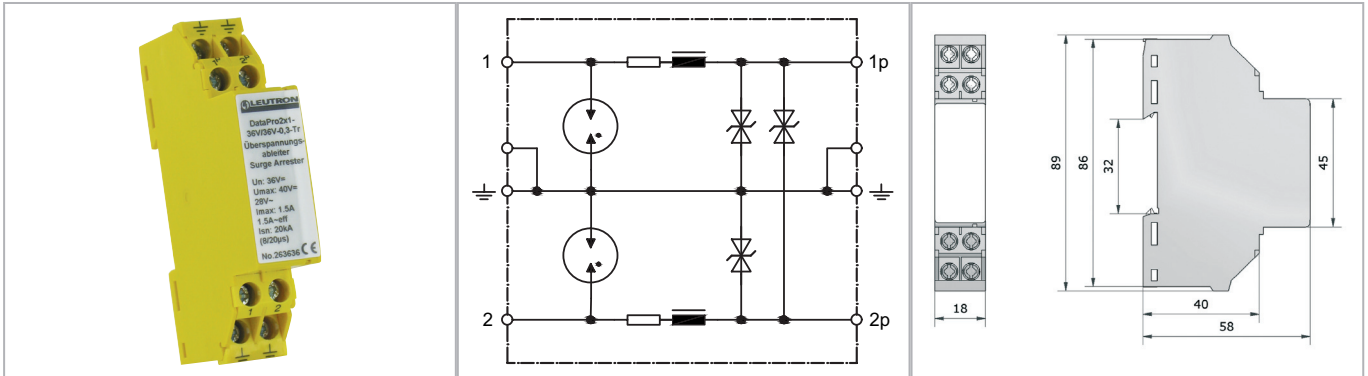


# Datasheet

## EMC filter with integrated surge protection

### MCR technology with integrated low-pass filter



EMC filter for data and signal lines combined with surge protection enables smooth operation of sensitive electronic equipment in rough environment. Lightning current and surge voltage protection for particularly long signal and bus lines. Thanks to the extremely low volume resistance (impedance only 0.3Ω) no noteworthy signal losses occur. It is a combined arrester to protect two single wires.

- Signal and data line protection with low-pass filter
- Very low volume resistance
- Protective circuit for 2 signal lines with common ground
- Maximum operating current 1.5 A
- Applicable at the boundaries LPZ 0A - 2 and higher
- Mounting on 35 mm DIN rail (EN 60715)
- Degree of protection according to IEC EN 60529: IP 20
- Space required for installation: 18 mm
- EAC certification

Technical Data		DP 2x1-36V/36V-0.3Ω -Tr
IEC category		D1 / C2 / C1 / C3
Nominal voltage DC	UN	36V=
Max. continuous operating voltage DC	Uc	40V=
Max. continuous operating voltage AC (50/60 Hz)	Uc	29V~
Nominal current	IL	1,5 A
Longitudinal impedance (DC resistance) per wire	Z	0,3 Ω
Series inductance, typ.	L	56 μH
Response time fine protection	tA	≤ 2 ns
D1 lightning impulse current (10/350 μs) per line	Iimp	2,5 kA
D1 lightning impulse current (10/350 μs) total	Itotal	5 kA
C2 nominal discharge current (8/20 μs)	In	10 kA
C2 nominal discharge current (8/20 μs) total	I <sub>max</sub>	20 kA
Protection level, residual voltage line-ground at I <sub>n</sub> resp. 1 kV/μs	Up	≤ 55 V
Capacitance, line-earth	C	≤ 1 nF
Max. operating frequency (-3 dB)	f <sub>G</sub>	600 kHz
Insulation resistance	R <sub>isol</sub>	>10 GΩ
Operating temperature range	TU	-25 - +85 °C
Type of connection		Screw terminals
Max. conductor cross section		2.5 mm <sup>2</sup> single-wire / 1.5 mm <sup>2</sup> flexible with sleeve
Max. connection torque for terminals		1,5 Nm

### Order Data

Product	DP 2x1-36V/36V-0.3Ω -Tr
Article-No.	26 36 36