

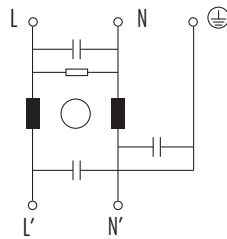
Single-phase, one-stage
to EN 133200

Snap-on
2-lines, also for DC

MEF 1/1
for universal application



Circuit diagram



Ordering data

	Art.-No.
Nominal current I_N (at 40 °C)	
10 A	10415
20 A	10416

Technical data

Supply voltage	max. 250 V AC, 300 V DC
Supply frequency	0...60 Hz
Max. leakage current at 250 V AC	< 5 mA
Test voltage (to EN 133000)	L → N 2.7 kV DC, 2 s / L → L 2.1 kV DC, 2 s
Overload current	1.8 x I_N t < 0.5 ms; 1.5 x I_N t < 1 min. (1 x per hour)

General data

Wiring method	rising-clamp screw terminals
Wire cross-section	0.2...6 mm ² single core AG24...9, 0.2...4 mm ² multiple core AWG24...11
Climatical category	25/85/21 (EN 60068-1)
Mounting method	DIN-rail mounting to EN 60715 (TH 35)
Weight	0.45 kg
Dimensions H x W x D	107 x 65 x 39 mm

Description/Application

The single-phase, one-stage EMC filters MEF 1/1 are used in the range 0.1...30 MHz to suppress cable carried interference in power and control cabling. The best results are obtained with short connection cables (example: earth connection < 10 cm) of the largest possible cross-section.

The EMC filters are bi-directional.

Voltage interferences irrespective of where they originate, either **voltage input** or **modules**, are suppressed. The filter with over voltage protection has an additional transient function.

Typical usage: — good filter performance is achieved when applied to the bridge rectifier
i.e.:



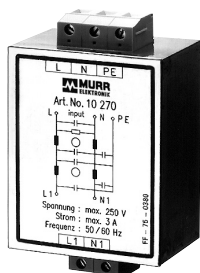
Notes

Attenuation curves on request.

Single-phase, 2-stage
to EN 133200

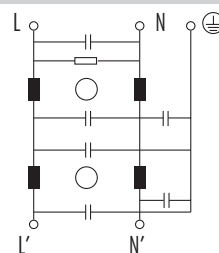
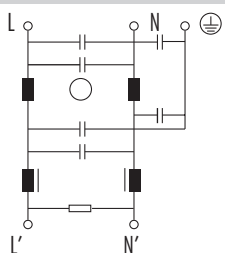
Snap-on
2-lines, also for DC

MEF 1/2 SY
against symmetrical interference



MEF 1/2 AS
against asymmetrical interference

Circuit diagram



Ordering data

	Art.-No.	Art.-No.
Nominal current I_N (at 40 °C)		
1 A	10460	
2 A	10461	
3 A	10462	10470
4 A	10463	
6 A	10464	10471
10 A		10472
16 A	10466	

Technical data

Supply voltage	max. 250 V AC, 300 V DC
Supply frequency	0...60 Hz
Max. leakage current at 250 V AC	< 5 mA
Test voltage (to EN 133000)	L → N 2.7 kV DC, 2 s / L → L 2.1 kV DC, 2 s
Overload current	18 x I_N t < 0.5 ms; 1.5 x I_N t < 1 min (1 x per hour)

General data

Wiring method	rising-clamp screw terminals
Wire cross-section	0.2...6 mm ² single core AWG24...9, 0.2...4 mm ² multiple core AWG24...11
Climatical category	25/85/21 (EN 60068-1)
Mounting method	DIN-rail mounting to EN 60715 (TH 35)
Weight	0.45 kg
Dimensions H x W x D	107 x 65 x 39 mm

Description/Application

The single-phase 2-stage EMC filters MEF 1/2 are used in the range 0.1...30 MHz to suppress cable carried interference on mains- and control cables. The best filter performance is achieved by using short connection wires (suggestion: earth connection < 10 cm) and the largest possible diameter. The EMC filters work bi-directionally (in both directions). The filters are for demanding applications. The filters are designed for use with fixed modules. One step of the filter is always for the suppression of asymmetrical interferences (magnetically compensated suppression). The second step is, dependant on application for symmetrical or asymmetrical interferences.

Application:

symmetrical interferences: – units with high repetitions of the switching process
– switch mode P.S.U's
– phase controllers
– supply of universal motors
– to transformers

asymmetrical interferences: – units with high switching freq. and rapid repetitions
– switch mode P.S.U's
– in DC-mains
– for transformers
– frequency inverter

Notes

Attenuation curves on request.