

3-phase, one-stage
to EN 133200

with neutral

EMC filters

MEF 3/1 N

snap-on

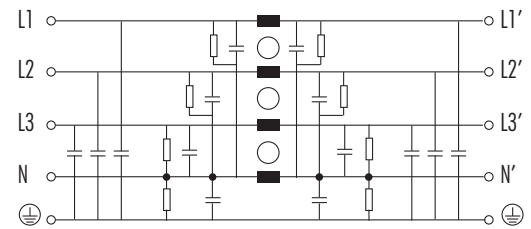
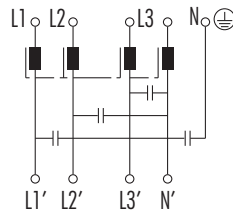


MEF 3/1 N HD

with increased attenuation



Circuit diagram



Ordering data

Nominal current I_N (at 40 °C)

	Art.-No.	Art.-No.
3 A	10510	
6 A	10511	
10 A	10512	
16 A		10372
20 A	10513	
25 A		10373
36 A		10374
50 A		10375
80 A		10377
110A		10378

Technical data

Supply voltage	max. 3 x 440 V AC	max. 3 x 440 V AC
Supply frequency	50...60 Hz	50...60 Hz
Max. leakage current at 440 V AC	< 3 mA	< 5 mA
Test voltage (to EN 133000)	L → N = 2.7 kV DC, 2 s / L → L = 2.1 kV DC, 2 s	L → N = 2.8 kV DC, 2 s; L → L = 1.7 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)	1.5 x I_N t < 1 min. (1 x per hour)

General data

Wiring method	rising-clamp screw terminals	rising-clamp screw terminals
Wire cross-section	0.2...6 mm ² single core AWG24...9, 0.2...4 mm ² multiple core AWG 24...11	Art.-No. 10372 ≤ 4 mm ² /AWG11; Art.-No. 10373 ≤ 6 mm ² /AWG9 Art.-No. 10374, 10375 ≤ 10 mm ² /AWG7 Art.-No. 10377 ≤ 25 mm ² /AWG3; Art.-No. 10378 ≤ 50 mm ² /AWG0

Climatical category 25/85/21 (EN 60068-1)

Mounting method DIN-rail mounting to EN 60715 (TH 35) screw fixing, M6

Description

Dimensions vertical mounting

Art.-No.	H x W x D (mm)	Weight (kg)
10510... 10513	107 x 65 x 39	0.45
10372, 10373	151 x 241 x 66	3.0
10374, 10375	151 x 251 x 66	3.5
10377	151 x 378 x 81	7.6
10378	387 x 150 x 81	7.8

Application

The 3-phase and one-stage EMC filters MEF 3/1 are used in the range range 0.1...30 MHz and dampen interferences found in cables from the mains, supply units and control systems. 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. They reduce symmetrical and asymmetrical interferences, that regularly appear with electronically controlled three phase units through mains influences.

Notes

Attenuation curves on request.

**3-phase
to EN 133200**

Book form

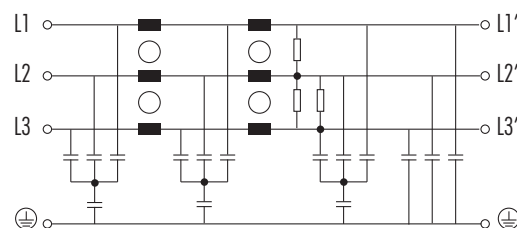
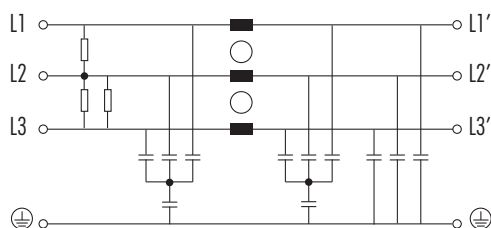
MEF 3/1
one-stage



MEF 3/2
2-stage



Circuit diagram



Ordering data

Art.-No.

Art.-No.

Nominal current I_N (at 40 °C)

8 A	10531	10550
12 A		10551
16 A	10532	10552
25 A	10533	10553
36 A	10534	10554
50 A	10535	10555
80 A	10537	10556
110 A	10538	
180 A	10539	

Technical data

Supply voltage	max. 3 x 600 V AC	max. 3 x 500 V AC
Supply frequency	50 ... 60 Hz	50 ... 60 Hz
Max. leakage current at 250 V AC	< 10 mA	< 15 mA
Test voltage (to EN 133000)	L → N = 3.3 kV DC, 2 s / L → L = 3.1 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	Art.-No.	single core/mm ²	multi core/mm ²	Art.-No.	single core/mm ²	multi core/mm ²
	10531...10533	0.2...10 /AWG24...7	0.2...6 /AWG24...11	10550...10554	0.2...10 /AWG24...7	0.2...6 /AWG24...9
	10534...10535	0.5...16 /AWG20...5	0.5...10 /AWG20...7	10555	0.5...16 /AWG20...5	0.5...10 /AWG20...7
	10537	6.0...35 /AWG9...2	10...25 /AWG7...2	10556	0.5...25 /AWG20...3	0.5...16 /AWG20...5
	10538	16...50 /AWG5...0	16...50 /AWG5...0			
	10539	25...35 /AWG3...0000	35...95 /AWG2...0000			

Climatical category	25/85/21 (EN 60068-1)	
Mounting method	screw fixing, M5 to 50 A, M6	screw fixing, M6

Description

Dimensions

Application

Art.-No.	H x W x D (mm)	Weight (kg)
10531... 10533	250 x 90 x 100	1.3
10534	250 x 90 x 100	1.5
10535	250 x 90 x 100	1.7
10537	270 x 85 x 135	2.2
10538	270 x 90 x 150	3.2
10539	380 x 120 x 170	5.1
10550... 10554	226 x 50 x 140	1.7
10555, 10556	295 x 70 x 177	5.1

The 3-phase and one-stage EMC filters MEF 3/1 resp. 3/2 0.1 ... 30 MHz and dampen interferences found in cables from the mains, supply units and control systems. They are suitable for TN-C- and IT mains. 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. They reduce symmetrical and asymmetrical interferences, that regularly appear with electronically controlled three phase units through mains influences.

Notes

Attenuation curves on request.