

Radio interference suppression filter, three-phase
HFD 156



General Data

Rated voltage 3 x 480 Vac
Voltage range 0 - 480 Vac
Rated current 3 x 3 - 3 x 16 A
Leakage current 1.00 mA
Ambient temperature max. 45 °C
Degree of protection IP 20

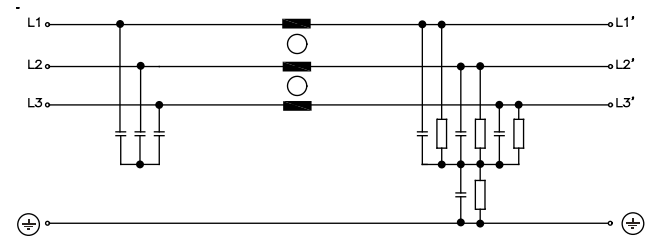
Advantages

For general requirements
Single-stage filter concept
Efficient filter effect against line-bound interference emissions
Increase in the interference immunity of the connected consumer
Rail mounting

Applications

Radio interference suppression filter for mains-side interference suppression of power supplies and electronic devices.

Sample application



Standards

Radio interference suppression filter to DIN EN 60939-2

Approvals **EAC**

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2

3 Reactors / EMI filters

Three-phase radio interference suppression filters



Radio interference suppression filter, three-phase

HFD 156



Typ	HFD 156-400/3	HFD 156-400/6	HFD 156-400/10	HFD 156-400/12	HFD 156-400/16
Electrical data					
Operating data					
Rated voltage	3 x 480 Vac	3 x 480 Vac	3 x 480 Vac	3 x 480 Vac	3 x 480 Vac
Voltage range	0 - 480 Vac	0 - 480 Vac	0 - 480 Vac	0 - 480 Vac	0 - 480 Vac
Rated current	3 x 3 A	3 x 6 A	3 x 10 A	3 x 12 A	3 x 16 A
Leakage current (50 Hz)**	9.00 mA	9.00 mA	9.00 mA	9.00 mA	9.00 mA
Leakage current (50 Hz)*	1.00 mA	1.00 mA	1.00 mA	1.00 mA	1.00 mA
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Power loss	2.2 W	2.7 W	4.7 W	6.1 W	7.9 W
Oversrating Capacity	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly
Environment					
Climatic category	25/085/21 (in accordance with EN 60068-1)	25/085/21 (in accordance with EN 60068-1)	25/085/21 (in accordance with EN 60068-1)	25/085/21 (in accordance with EN 60068-1)	25/085/21 (in accordance with EN 60068-1)
Ambient temperature max.	45 °C	45 °C	45 °C	45 °C	45 °C
Safety and protection					
Type	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure
Protection index	IP 20	IP 20	IP 20	IP 20	IP 20
Safety class (prepared)	I	I	I	I	I
Test voltage	2100 Vdc Phase/Phase, 2700 Vdc Phase/PE	2100 Vdc Phase/Phase, 2700 Vdc Phase/PE	2100 Vdc Phase/Phase, 2700 Vdc Phase/PE	2100 Vdc Phase/Phase, 2700 Vdc Phase/PE	2100 Vdc Phase/Phase, 2700 Vdc Phase/PE
Notes					
*	Leakage current measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %	Leakage current measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %	Leakage current measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %	Leakage current measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %	Leakage current measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %
**	Leakage current by loss of two phases	Leakage current by loss of two phases	Leakage current by loss of two phases	Leakage current by loss of two phases	Leakage current by loss of two phases
Order numbers					
Order Number	HFD 156-400/3	HFD 156-400/6	HFD 156-400/10	HFD 156-400/12	HFD 156-400/16

Typ	Connections phase	Connections PE	Fixing method	Weight	Dimension picture (in mm)	Dimension picture (in mm)					
						A	B	C	D	E	F
HFD 156-400/3	2.5 mm ² spring terminal	Tab connector, 6.3 x 0.8 mm	Rail mounting	0.48 kg		127	45	110	52	33	120
HFD 156-400/6	2.5 mm ² spring terminal	Tab connector, 6.3 x 0.8 mm	Rail mounting	0.49 kg		127	45	110	52	33	120
HFD 156-400/10	2.5 mm ² spring terminal	Tab connector, 6.3 x 0.8 mm	Rail mounting	0.49 kg		127	45	110	52	33	120
HFD 156-400/12	2.5 mm ² spring terminal	Tab connector, 6.3 x 0.8 mm	Rail mounting	0.72 kg		147	45	140	52	66	140
HFD 156-400/16	2.5 mm ² spring terminal	Tab connector, 6.3 x 0.8 mm	Rail mounting	0.73 kg		147	45	140	52	66	140

Dimension pictures

