Radio interference suppression filter, three-phase
HFD 500

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General Data

Rated voltage 3 x 520 Vac
Voltage range 0 - 3 x 520 Vac
Rated current 3 x 8 - 3 x 110 A
Leakage current 18.00 - 66.00 mA
Degree of protection IP 20
Rail mounting

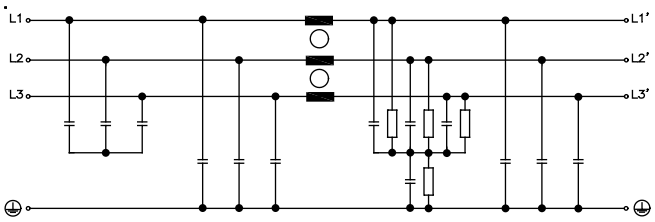
Advantages

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

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

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Electrical data

Typ	HFD 500/8	HFD 500/16	HFD 500/25	HFD 500/36	HFD 500/50	HFD 500/80
Operating data						
Rated voltage	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac
Voltage range	0 - 3 x 520 Vac	0 - 3 x 520 Vac	0 - 3 x 520 Vac	0 - 3 x 520 Vac	0 - 3 x 520 Vac	0 - 3 x 520 Vac
Rated current	3 x 8 A	3 x 16 A	3 x 25 A	3 x 36 A	3 x 50 A	3 x 80 A
Leakage current (50 Hz)*	18.00 mA	18.00 mA	34.00 mA	34.00 mA	34.00 mA	66.00 mA
Leakage current (50 Hz)**	6.00 mA	6.00 mA	175.00 mA	175.00 mA	175.00 mA	220.00 mA
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Overrating Capacity	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
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)	25/085/21 (in accordance with EN 60068-1)
Safety and protection						
Type	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure
Protection index	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Safety class (prepared)	I	I	I	I	I	I
Test voltage	2150 Vdc Phase/Phase, 2700 Vdc Phase/PE	2150 Vdc Phase/Phase, 2700 Vdc Phase/PE	2150 Vdc Phase/Phase, 2700 Vdc Phase/PE	2150 Vdc Phase/Phase, 2700 Vdc Phase/PE	2150 Vdc Phase/Phase, 2700 Vdc Phase/PE	2150 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 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	Leakage current by loss of two phases
Order numbers						
Order Number	**HFD 500/8**	**HFD 500/16**	**HFD 500/25**	**HFD 500/36**	**HFD 500/50**	**HFD 500/80**

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Electrical data

Typ	HFD 500/110
Operating data	
Rated voltage	3 x 520 Vac
Voltage range	0 - 3 x 520 Vac
Rated current	3 x 110 A
Leakage current (50 Hz)*	66.00 mA
Leakage current (50 Hz)**	220.00 mA
Rated frequency	50 - 60 Hz
Overrating Capacity	150 %, shortly
Environment	
Ambient temperature max.	40 °C
Climatic category	25/085/21 [in accordance with EN 60068-1]
Safety and protection	
Type	Metal enclosure
Protection index	IP 20
Safety class (prepared)	I
Test voltage	2150 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 by loss of two phases
Order numbers	
Order Number	**HFD 500/110**

Radio interference suppression filter, three-phase
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Mechanical data

Typ	Connections phase	Connections PE	Fixing method	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G	H
HFD 500/8	Screw clamp, 4 mm²	Bolt, M6	Mounting lugs	1.85 kg	2	219	115	60	85	180	100	115	6.5
HFD 500/16	Screw clamp, 4 mm²	Bolt, M6	Mounting lugs	3.10 kg	2	239	150	65	120	200	135	115	6.5
HFD 500/25	Screw clamp, 10 mm²	Bolt, M6	Mounting lugs	3.15 kg	2	250	150	65	120	200	135	115	6.5
HFD 500/36	Screw clamp, 10 mm²	Bolt, M6	Mounting lugs	3.22 kg	2	250	150	65	120	200	135	115	6.5
HFD 500/50	Screw clamp, 10 mm²	Bolt, M6	Mounting lugs	3.30 kg	2	250	150	65	120	200	135	115	6.5
HFD 500/80	Screw clamp, 25 mm²	Bolt, M6	Mounting lugs	9.50 kg	1	427	170	90	350	130	375	6.5	15
HFD 500/110	Screw clamp, 50 mm²	Bolt, M6	Mounting lugs	10.20 kg	1	436	170	100	350	130	375	6.5	15

Dimension pictures

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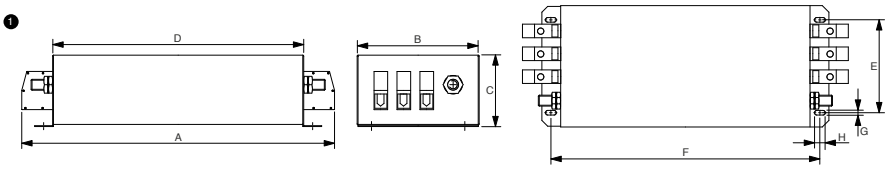

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