

Radio interference suppression filter, three-phase with neutral conductor **HFV 510**



General Data

Rated voltage 3 x 480 Vac
Voltage range 0 - 3 x 480 Vac
Rated current 3 x 16 - 3 x 80 A+N
Leakage current 15.00 - 22.00 mA
Degree of protection IP 20

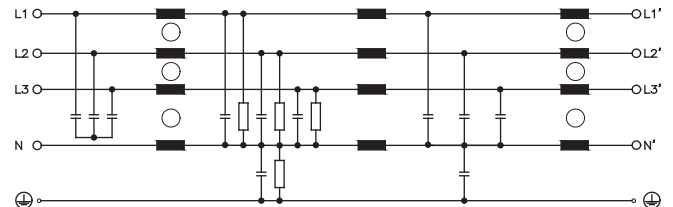
Advantages

For the highest requirements
Two 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 line-side interference suppression of single devices, frequency converters or as group interference suppression.

Sample application



Standards

Radio interference suppression filter to DIN EN 60939-2

Approvals



3 Reactors / EMI filters

Three-phase radio interference suppression filters with neutral conductor



Radio interference suppression filter, three-phase with neutral conductor

HFV 510

Typ	HFV 510-400/16	HFV 510-400/25	HFV 510-400/35	HFV 510-400/50	HFV 510-400/80
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 - 3 x 480 Vac	0 - 3 x 480 Vac	0 - 3 x 480 Vac	0 - 3 x 480 Vac	0 - 3 x 480 Vac
Rated current	3 x 16 A+N	3 x 25 A+N	3 x 35 A+N	3 x 50 A+N	3 x 80 A+N
Leakage current (50 Hz)*	15.00 mA	17.00 mA	22.00 mA	17.00 mA	19.00 mA
Leakage current (50 Hz)**	145.00 mA	161.00 mA	215.00 mA	161.00 mA	178.00 mA
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
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.	40 °C	40 °C	40 °C	40 °C	40 °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	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 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	HFV 510-400/16	HFV 510-400/25	HFV 510-400/35	HFV 510-400/50	HFV 510-400/80



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Mechanical data	Typ	Terminals phase/N	Terminals PE	Fixing method	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G
	HFV 510-400/16	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs with fixing holes	1.70 kg	1	305	55	142	290	30	295	6.5
	HFV 510-400/25	Screw clamp, 10 mm ²	Bolt, M5	Mounting lugs with fixing holes	1.80 kg	1	329	70	185	314	45	300	6.5
	HFV 510-400/35	Screw clamp, 10 mm ²	Bolt, M5	Mounting lugs with fixing holes	2.80 kg	1	329	70	185	314	45	300	6.5
	HFV 510-400/50	Screw clamp, 16 mm ²	Bolt, M8	Mounting lugs with fixing holes	3.10 kg	1	429	110	240	414	80	400	6.5
	HFV 510-400/80	Screw clamp, 25 mm ²	Bolt, M10	Mounting lugs with fixing holes	4.00 kg	1	633	110	240	618	80	600	6.5

Dimension pictures

