

## Radio interference filter, three-phase **HFD 510**



### General Data

Rated voltage 3 x 480 - 3 x 520 Vac
Voltage range 0 - 3 x 480 - 520 Vac
Rated current 3 x 8 - 3 x 180 A
Leakage current 4.00 - 43.00 mA
Degree of protection IP 20

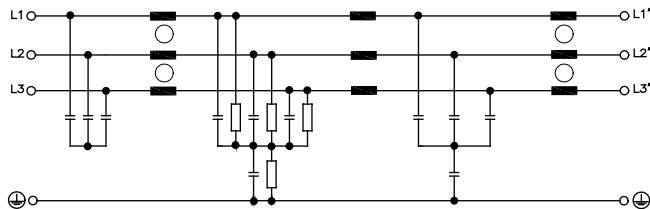
### Advantages

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

Leakage current measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %.

### Sample application



### Standards

Radio interference suppression filter to DIN EN 60939-2

### Approvals



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 filter, three-phase **HFD 510**

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	Typ	HFD 510-500/8	HFD 510-500/16	HFD 510-500/25	HFD 510-500/50	HFD 510-500/80	HFD 510-500/130
<b>Operating data</b>							
Electrical data	Rated voltage	3 x 520 Vac					
	Voltage range	0 - 3 x 520 Vac					
	Rated current	3 x 8 A	3 x 16 A	3 x 25 A	3 x 50 A	3 x 80 A	3 x 130 A
	Leakage current (50 Hz)*	4.00 mA	20.00 mA	18.00 mA	20.00 mA	33.00 mA	42.00 mA
	Leakage current (50 Hz)**	40.00 mA	193.00 mA	175.00 mA	188.00 mA	320.00 mA	402.00 mA
	Rated frequency	50 - 60 Hz					
	OVERRATING CAPACITY	150 %, shortly					
<b>Environment</b>							
Climatic category		25/085/21 [in accordance with EN 60068-11]					
Ambient temperature max.		40 °C					
<b>Safety and protection</b>							
Type	Metal enclosure						
Protection index	IP 20						
Safety class (prepared)	I	I	I	I	I	I	I
Test voltage	2150 Vdc Phase/Phase, 2700 Vdc Phase/PE						
<b>Notes</b>							
*	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 measured against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %
**	Leakage current by loss of two phases						
<b>Order numbers</b>							
Order Number	<b>HFD 510-500/8</b>	<b>HFD 510-500/16</b>	<b>HFD 510-500/25</b>	<b>HFD 510-500/50</b>	<b>HFD 510-500/80</b>	<b>HFD 510-500/130</b>	



## Radio interference filter, three-phase **HFD 510**

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Electrical data	Typ	HFD 510-500/180						
	Operating data							
	Rated voltage	3 x 520 Vac						
	Voltage range	0 - 3 x 520 Vac						
	Rated current	3 x 180 A						
	Leakage current (50 Hz)*	43.00 mA						
	Leakage current (50 Hz)**	417.00 mA						
	Rated frequency	50 - 60 Hz						
	Oversizing Capacity	150 %, shortly						
	Environment							
Climatic category	25/085/21 [in accordance with EN 60068-11]							
Ambient temperature max.	40 °C							
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 510-500/180**

Mechanical data	Typ	Connections phase	Connections PE	Fixing method	Weight	Dimension picture [in mm]							
						A	B	C	D	E	F	G	
	HFD 510-500/8	Screw clamp, 4 mm <sup>2</sup>	Bolt, M5	Mounting lugs	1.10 kg	②	255	125	50	225	240	25	6.5
	HFD 510-500/16	Screw clamp, 4 mm <sup>2</sup>	Bolt, M5	Mounting lugs	1.90 kg	②	305	142	55	275	290	27	6.5
	HFD 510-500/25	Screw clamp, 10 mm <sup>2</sup>	Bolt, M5	Mounting lugs	1.90 kg	②	329	185	70	300	314	45	6.5
	HFD 510-500/50	Screw clamp, 16 mm <sup>2</sup>	Bolt, M8	Mounting lugs	3.10 kg	①	429	240	110	400	414	80	6.5
	HFD 510-500/80	Screw clamp, 50 mm <sup>2</sup>	Bolt, M10	Mounting lugs	4.00 kg	①	429	240	110	400	414	80	6.5
	HFD 510-500/130	Screw clamp, 95 mm <sup>2</sup>	Bolt, M10	Mounting lugs	6.80 kg	①	438	240	110	400	414	80	6.5
	HFD 510-500/180	Screw clamp, 95 mm <sup>2</sup>	Bolt, M10	Mounting lugs	7.00 kg	①	536	300	116	500	512	90	8.5

### Dimension pictures

