Radio interference suppression filter, threephase, low leakage current

HLD 710



General Data

Rated voltage 3 x 520 Vac

Voltage range 0 - 3 x 520 Vac

Rated current 3 x 8 - 3 x 250 A

Leakage current 6.00 - 7.00 mA

Ambient temperature max. 50 °C

Degree of protection IP 20

Advantages

For enhanced requirements

Reduced leakage current

Single-stage filter concept

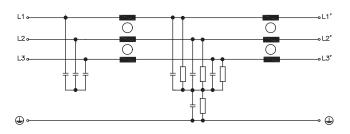
Efficient filter effect against line-bound interference emissions

Increase in the interference immunity of the connected consumer

Applications

Radio interference suppression filter for line-side interference suppression of single devices, frequency converters or as group interference suppression.

Sample application



Standards

Radio interference suppression filter complying with DIN EN 60939-2, UL 1283, CSA C22.2 No.8 $\,$

Approvals







Radio interference suppression filter, threephase, low leakage current **HLD 710**

Тур	HLD 710-500/8	HLD 710-500/12	HLD 710-500/16	HLD 710-500/30	HLD 710-500/42	HLD 710-500/55	
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 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	
Rated current	3 x 8 A	3 x 12 A	3 x 16 A	3 x 30 A	3 x 42 A	3 x 55 A	
Leakage current (50 Hz)*	6.00 mA	6.00 mA	6.00 mA	6.50 mA	6.50 mA	6.50 mA	
Leakage current (50 Hz)**	60.00 mA	60.00 mA	60.00 mA	63.00 mA	63.00 mA	63.00 mA	
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	
Power loss	6.0 W	9.0 W	12.0 W	15.0 W	22.0 W	30.0 W	
Overrating Capacity	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly	150 %, shortly	
Approvals							
Approvals	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th editio CSA 22.2 No.8		
Environment							
Climatic category	25/085/21 (in accordance with EN 60068-1)	25/085/21 Iin accordance with EN 60068-11	25/085/21 (in accordance with EN 60068-1)	25/085/21 lin accordance with EN 60068-11	25/085/21 (in accordance with EN 60068-1)		
Ambient temperature max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 ℃	
Safety and protection							
SCCR***	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	
Туре	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)	1	I	I	I	I	1	
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 measurer against the maximum permissible input voltage fluctuation in accordance with IEC 38 ±10 %	
**	Leakage current by loss of two phases two phases Leakage current by loss of two phases two phases two phases two phases two phases two phases		Leakage current by loss of two phases	Leakage current by loss of two phases	Leakage current by loss of two phases		
***	with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse	
Order numbers							
Order Number	HLD 710-500/8	HLD 710-500/12	HLD 710-500/16	HLD 710-500/30	HLD 710-500/42	HLD 710-500/55	



Radio interference suppression filter, threephase, low leakage current **HLD 710**

•	Тур	HLD 710-500/75	HLD 710-500/100	HLD 710-500/130	HLD 710-500/180	HLD 710-500/250		
	Operating data							
	Rated voltage	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac	3 x 520 Vac		
	Voltage range	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac		
	Rated current	3 x 75 A	3 x 100 A	3 x 130 A	3 x 180 A	3 x 250 A		
	Leakage current (50 Hz)*	6.50 mA	6.50 mA	6.50 mA	7.00 mA	7.00 mA		
	Leakage current (50 Hz)**	63.00 mA	63.00 mA	63.00 mA	65.00 mA	65.00 mA		
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz		
	Power loss	35.0 W	60.0 W	90.0 W	150.0 W	180.0 W		
	Overrating Capacity	150 %, shortly 150 %, shortly 150 %, s		150 %, shortly	150 %, shortly	150 %, shortly		
	Approvals							
	Approvals	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8	cURus, UL 1283 5th edition, CSA 22.2 No.8		
	Environment							
	Climatic category	25/085/21 (in accordance with EN 60068-1)	25/085/21 lin accordance with EN 60068-11	25/085/21 lin accordance with EN 60068-11	25/085/21 (in accordance with EN 60068-1)			
	Ambient temperature max.	50 °C	50 °C	50 °C	50 °C	50 °C		
	Safety and protection							
	SCCR***	100 kA	100 kA 100 kA		100 kA	100 kA		
	Туре	Metal enclosure Metal enclosure		Metal enclosure	Metal enclosure	Metal enclosure		
	Protection index	IP 20 IP 20 I		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		
***		with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse	with corresponding preliminary fuse		
	Order numbers							
	Order Number	HLD 710-500/75	HLD 710-500/100	HLD 710-500/130	HLD 710-500/180	HLD 710-500/250		



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ınical data	Тур	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	В	С	D	E	F
Ĭ ⊦	HLD 710-500/8	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	0.78 kg	0	190	45	75	20	180	166
H	HLD 710-500/12	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	1.00 kg	0	220	45	75	20	210	190
H	HLD 710-500/16	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	1.20 kg	0	250	45	75	20	240	220
H	HLD 710-500/30	Screw clamp, 10 mm ²	Bolt, M5	Mounting lugs	M5	1.80 kg	0	270	55	95	30	255	240
H	HLD 710-500/42	Screw clamp, 10 mm ²	Bolt, M6	Mounting lugs	M5	2.10 kg	0	310	55	95	30	295	280
H	HLD 710-500/55	Screw clamp, 16 mm ²	Bolt, M6	Mounting lugs	M5	2.50 kg	9	250	85	95	60	235	255
H	HLD 710-500/75	Screw clamp, 35 mm ²	Bolt, M8	Mounting lugs	M6	4.50 kg	9	270	85	135	60	255	310
H	HLD 710-500/100	Screw clamp, 50 mm ²	Bolt, M10	Mounting lugs	M6	5.20 kg	9	270	95	150	65	255	325
H	HLD 710-500/130	Screw clamp, 50 mm ²	Bolt, M10	Mounting lugs	M6	5.60 kg	9	270	95	150	65	255	325
H	HLD 710-500/180	Screw clamp, 95 mm ²	Bolt, M10	Mounting lugs	M6	9.20 kg	9	380	130	181	102	365	440
H	HLD 710-500/250	Screw clamp, 150 mm ²	Bolt, M12	Mounting lugs	M6	12.20 kg	9	450	155	220	125	435	525

Dimension pictures

