

Radio interference filter, single-phase, low leakage current **HLE 310**



General Data

Rated voltage 250 Vac
Voltage range 0 - 250 Vac
Rated current 4 - 55 A
Leakage current <3.00 mA
Degree of protection IP 20

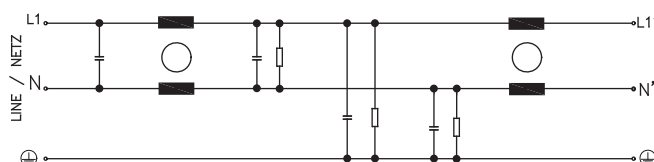
Advantages

For enhanced requirements
Low 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 to DIN EN 60939-2

Approvals



3 Reactors / EMI filters

Single-phase radio interference suppression filters



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Electrical data	Typ	HLE 310-230/4	HLE 310-230/8	HLE 310-230/12	HLE 310-230/16	HLE 310-230/20	HLE 310-230/25
	Special features						
	Characteristics	Suitable for the medical field	Suitable for the medical field	Suitable for the medical field	Suitable for the medical field	Suitable for the medical field	Suitable for the medical field
	Operating data						
	Rated voltage	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac
	Voltage range	0 - 250 Vac	0 - 250 Vac	0 - 250 Vac	0 - 250 Vac	0 - 250 Vac	0 - 250 Vac
	Rated current	4 A	8 A	12 A	16 A	20 A	25 A
	Leakage current (50 Hz)*	<3.00 mA	<3.00 mA	<3.00 mA	<3.00 mA	<3.00 mA	<3.00 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						
	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]
	Ambient temperature max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
	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	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 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 %
	Order numbers						
	Order Number	HLE 310-230/4	HLE 310-230/8	HLE 310-230/12	HLE 310-230/16	HLE 310-230/20	HLE 310-230/25



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Electrical data	Typ	HLE 310-230/30	HLE 310-230/42	HLE 310-230/55		
	Special features					
	Characteristics	Suitable for the medical field	Suitable for the medical field	Suitable for the medical field		
	Operating data					
	Rated voltage	250 Vac	250 Vac	250 Vac		
	Voltage range	0 - 250 Vac	0 - 250 Vac	0 - 250 Vac		
	Rated current	30 A	42 A	55 A		
	Leakage current (50 Hz)*	<3.00 mA	<3.00 mA	<3.00 mA		
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz		
	Overrating Capacity	150 %, shortly	150 %, shortly	150 %, shortly		
Environment	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]		
	Ambient temperature max.	50 °C	50 °C	50 °C		
Safety and protection	Safety and protection					
	Type	Metal enclosure	Metal enclosure	Metal enclosure		
	Protection index	IP 20	IP 20	IP 20		
	Safety class (prepared)	I	I	I		
	Test voltage	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE	1700 Vdc Phase/Phase, 2700 Vdc Phase/PE		
Notes	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 %		
Order numbers						
Order Number		HLE 310-230/30	HLE 310-230/42	HLE 310-230/55		



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Typ	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G	H
HLE 310-230/4	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	0.52 kg	1	160	38	75	-	19	136	150	5.5
HLE 310-230/8	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	0.58 kg	1	160	38	75	-	19	136	150	5.5
HLE 310-230/12	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	0.78 kg	1	190	38	75	-	19	166	180	5.5
HLE 310-230/16	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	0.78 kg	1	190	38	75	-	19	166	180	5.5
HLE 310-230/20	Screw clamp, 4 mm ²	Bolt, M5	Mounting lugs	M5	0.80 kg	1	190	38	75	-	19	166	180	5.5
HLE 310-230/25	Screw clamp, 10 mm ²	Bolt, M6	Mounting lugs	M6	1.30 kg	2	230	50	95	25	12.5	200	215	5.5
HLE 310-230/30	Screw clamp, 10 mm ²	Bolt, M6	Mounting lugs	M6	1.35 kg	2	230	50	95	25	12.5	200	215	5.5
HLE 310-230/42	Screw clamp, 10 mm ²	Bolt, M6	Mounting lugs	M6	1.45 kg	2	230	50	95	25	12.5	200	215	5.5
HLE 310-230/55	Screw clamp, 16 mm ²	Bolt, M6	Mounting lugs	M6	2.00 kg	5	225	85	95	60	12.5	230	210	5.5

Dimension pictures

