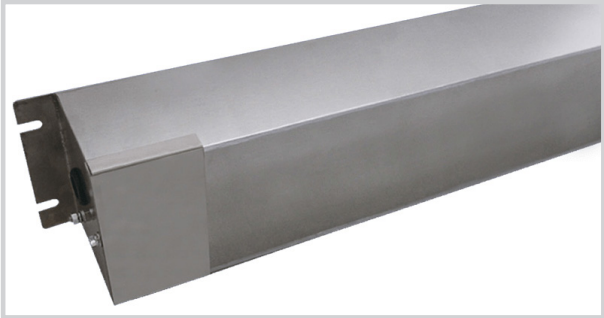
8030 - Power line filters with line legs at load side



The 8030 series power line filters with line legs at load side is capable of providing an insertion transmission loss of 100 dB at 14 kHz up to 40 GHz. The leakage current is in milliampere level and the voltage drop is less than 1V.

Applications

- Shielded rooms
- Shielded chambers
- Anechoic chambers
- Military applications
- Medical applications

Advantages

- Applicable in very low frequency (VLF) applications
- Can be delivered EMP-proof
- Suitable for use under extreme conditions (military applications)
- Wear resistant
- Insensitive to corrosion

Technical data

Rate voltage VR for two-line filters	250VAC/500VDC	line-line or line-case
Rate voltage VR for four-line filters	440VAC	line-line
	220VAC	line-case
Rated Frequency fR	DC -60 Hz	
Rate Current IR	See characteristics	referred to +40°C ambient temperature
Number of lines	2/4	
Test voltage	1200Vdc/2s	Line- Line or line-case
Voltage drop/phase ΔV	<1%	of VR at 50Hz and IR
Leakage current I Leakage	See characteristics	at 380V/220V and 50Hz
Reactive Current I Reactive	See characteristics	at 380V/220V and 50Hz
Discharge Time to Below 34V	30S	
Climatic category	25/070/21	

Product range

			Terminal connection		
Part number	**IR (A)**	**I Leakage (A)***	**In**	**Out**	**Shielding effectivenes (dB)**
8030-2-6	2×6	0.02	Line legs	Line legs	
8030-2-16	2×16	0.02	M6 Screw	Line legs	
8030-2-32	2×32	0.02	M6 Screw	Line legs	
8030-2-63	2×63	0.15	M6 Screw	Line legs	
8030-2-100	2×100	0.15	M12 Screw	Line legs	
8030-2-200	2×200	0.15	M12 Screw	Line legs	
8030-2-250	2×250	0.15	M12 Screw	Line legs	100dB, 14k-40GHz
8030-4-16	4×16	0.005	M6 Screw	Line legs	
8030-4-32	4×32	0.005	M6 Screw	Line legs	
8030-4-63	4×63	0.005	M6 Screw	Line legs	
8030-4-100	4×100	0.05	M12 Screw	Line legs	
8030-4-200	4×200	0.05	M12 Screw	Line legs	
8030-4-250	4×250	0.05	M12 Screw	Line legs	
* If voltage between neutral and earth is 0V					

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Dimensional Diagrams

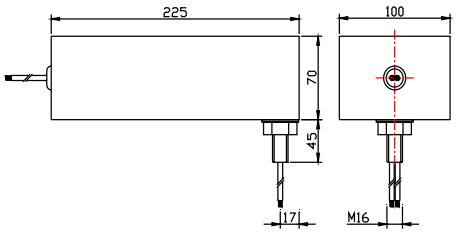

Diagram 1

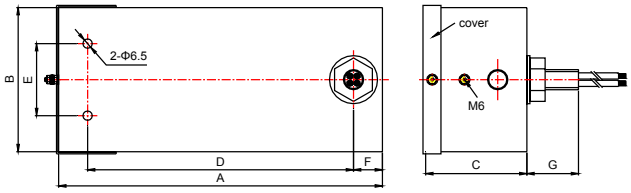

Diagram 4

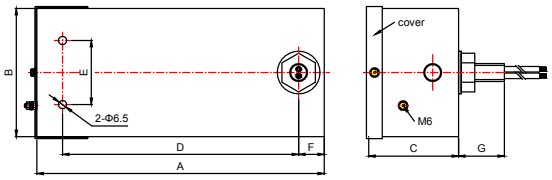

Diagram 2

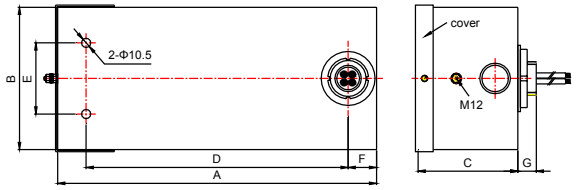

Diagram 5

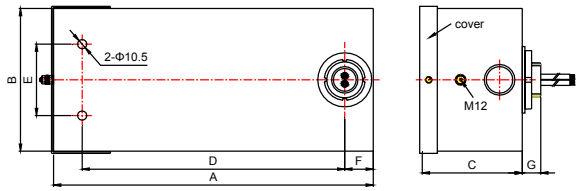

Diagram 3

Available dimensions

Part number	A	B	C	D	E	F	G	installation instructions	Outline drawing
8030-2-6								M16 conduit screw	1
8030-2-16	620	120	80	535	60	50	45	M33 conduit screw	2
8030-2-32	620	120	80	535	60	50	45	M33 conduit screw	2
8030-2-63	800	160	120	715	80	50	45	M33 conduit screw	2
8030-2-100	880	200	150	790	120	50	33	M60 conduit screw	3
8030-2-200	880	200	150	790	120	50	33	M60 conduit screw	3
8030-2-250	880	200	150	790	120	50	33	M60 conduit screw	3
8030-4-16	720	240	80	635	140	50	45	M33 conduit screw	4
8030-4-32	720	240	80	635	140	50	45	M33 conduit screw	4
8030-4-63	900	320	120	815	160	50	45	M33 conduit screw	4
8030-4-100	900	320	150	790	180	50	33	M60 conduit screw	5
8030-4-200	900	320	150	790	180	50	33	M60 conduit screw	5
8030-4-250	900	320	150	790	180	50	33	M60 conduit screw	5

How to order

When you want to order the 8030 please specify the following.

Series	Numbers of lines	Rated current (A)
8030	**2**	**16**
	2 : 2 lines **4** : 4 lines	**16** : 16 ampere **32** : 32 ampere **63** : 63 ampere **100** : 100 ampere **200** : 200 ampere **250** : 250 ampere