

External EMC Filters User Guide

Using EMC Filters

Most electronic equipment will generate electrical noise, small unwanted disturbances which may be conducted back onto the mains power supply. All Invertek products are designed to minimise this noise transfer, and offer high levels of Electro Magnetic Compatibility. Where required, additional EMC Filters may be added to further reduce the level of noise transferred back to the mains power supply, reducing the risk of other equipment being affected.

In general, most modern electronic devices have a high level of immunity to electro-magnetic noise, and thereby in many cases additional filters are not required, however where highly sensitive equipment is used, or a reduction in the electrical noise is required, these EMC filters can be fitted in line with the Optidrive to reduce the conducted noise emission.

Important Safety Information

This option is specifically designed to be used with the Optidrive variable speed drive product range and is intended for professional incorporation into complete equipment or systems. If installed incorrectly it may present a safety hazard. The Optidrive uses high voltages and currents, carries a high level of stored electrical energy, and is used to control mechanical plant that may cause injury. Close attention is required to system design and electrical installation to avoid hazards in either normal operation or in the event of equipment malfunction. Optidrives and the Options should be installed only by qualified electrical persons and in accordance with local and national regulations and codes of practice.

Electric shock hazard! Disconnect and ISOLATE the Optidrive before attempting any work on it. High voltages are present at the terminals and within the drive for up to 10 minutes after disconnection of the electrical supply.

Where the electrical supply to the drive is through a plug and socket connector, do not disconnect until 10 minutes have elapsed after turning off the supply.

It is the responsibility of the installer to ensure that the equipment or system into which the product is incorporated complies with the EMC legislation of the country of use. Within the European Union, equipment into which this product is incorporated must comply with 2004/108/EC, Electromagnetic Compatibility.

Within the European Union, all machinery in which this product is used must comply with the Directive 98/37/EC, Safety of Machinery. In particular, the equipment should comply with EN60204-1.

The manufacturer accepts no liability for any consequences resulting from inappropriate, negligent or incorrect installation.

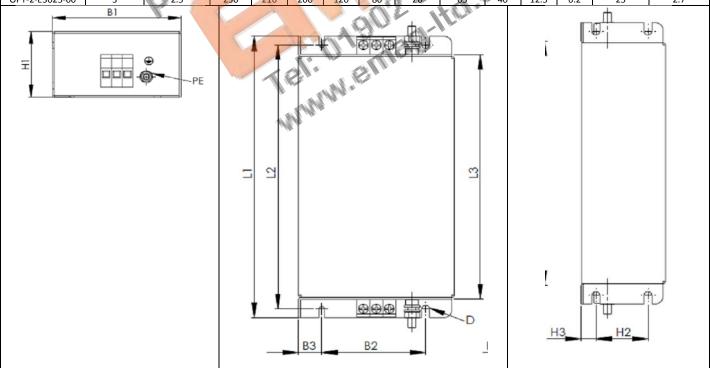
The contents of this User Guide are believed to be correct at the time of printing. In the interests of a commitment to a policy of continuous improvement, the manufacturer reserves the right to change the specification of the product or its performance or the contents of the User Guide without notice.

Dimensions – Panel Mount – Single Phase	•
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Part Number	Optidrive	PE	L1	L2	L3	B1	B2	B3	H1	H2	Н3	D	Rated	Weight
	Size	Connection	(mm)	Amps	(kg)									
OPT-2-E1010-00	1	2 x M6	180	166	150	70	45	12.5	65	40	12.5	6.2	10	1.5
OPT-2-E1025-00	2	2 x M6	250	236	220	70	45	12.5	65	40	12.5	6.2	25	2.8

Dimensions - Panel Mount - Three Phase - Frame Sizes 1 - 3

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Part Number	Optidrive	PE	11	L2	L3	B1	B2	В3	H1	H2	H3	D	Rated	Weight
	Size	Connection	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Amps	(kg)
OPT-2-E3006-00	1	2.5	210	196	180	85	55	15	60	40	10	6.2	6	2.7
OPT-2-E3016-00	2	2.5	230	216	200	120	80	20	65	40	12.5	6.2	16	2.7
OPT-2-F3025-00	3	75	230	216	200	120	80	20	65	40	12.5	6.2	25	2.7



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Dimensions – Pa	nel Mount		e – Frame Si	zes 4 - 7					_		
Part Number	Optidrive		L1	L2	L3	B1	B2	, B3	H1	D	Rated
	Size	Connection		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Amps
OPT-2-E3050-00	4	2 x M6	115	200	240	120	136	150	65	6.5	50
OPT-2-E3080-00	5	2 x M10	373	350	400	170	130	-	65	6.5	80
OPT-2-E3180-00	6	2 x M10	470	360	510	180	156	-	115	9	180
OPT-2-E3300-00	7	2 x M10	660	530	700	260	220	-	130	9	300
Size 4 - 6					Size 7						
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0 0 0 0 0 0 0 0 0 81 82 83		B2	F 17 17 17 17 17 17 17 17 17 17 17 17 17		• •	, D	252	B B B B B B B B B B B B B B B B B B B	Ф-	L1 L2 O	B4 B4
Dimensions – Er	alasad Cir	aala Dhaaa					•				
	Optidrive	PE	L1 L2 mm) (mm	L3 (mm)	B1 (mm)		B3 H1 (mm)		D A1	Rated	Weight
OPT-2-E1010-66	1		180 166	150	70		12.5 65		nm) (mm) 5.2 500		(kg) 1.5
OPT-2-E1025-66	2		250 2 36		70		12.5 65		6.2 500		2.8
•			230 230	220	70	43	2.5 05	40 12.5 (J.Z J00	23	2.0
Dimensions – End		- 4	A Com	V							
Part Number	Optidrive	PE	L1 L2	L3			B3 H1		D A1	Rated	Weight
			mm) (mm				mm) (mm)		nm) (mm		(kg)
OPT-2-L3006-66	1	ALC: NO	210 196		85		15 60		5.2 500		2.7
OPT-2-L3016-66	2		230 216	200	120		20 65	- The second sec	5.2 500		2.7
OPT-2-L3025-66	3	2.5	200 115	-	150	136	120 65	W W	5.2 500	25	2.7
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B2 B3	₽		D.		· f t) je	60			

