

EF3H
Passive harmonic filter

up to 110 kW



Approvals



Technical data

Rated power	2,2-110 kW
Rated voltage	380-415 V ±10%
Rated frequency	50 Hz
THDi	according to IEEE 519
Overload capability	110% P _n (continuous)
	160% P _n 1 min/h (momentary)
Capacitive power consumption at no load	≤20% P _n
Max ambient temperature	40°C – land design
	45°C – maritime design
	≥50°C – heavy duty design
Insulation class	F (2,2-75 kW, 155°C) H (90-110 kW, 180°C)
Winding material	copper
Standard equipment	NC temperature switch
Mounting	wall mounted
Degree of protection	IP20, IP00
Standards compatibility	PN-EN 60076-6

*- UL approved insulation system

Function

Mitigation of harmonics caused by non-linear loads is vital procedure if it comes to energy cost reduction. ElhandHF™ Harmonic filter allows to utilize system power capacity to maximum degree, protects against shortened installation life and equipment malfunction. Due to compact design, filter can be easily integrated with existing system and is ready to use right after installation. Compensation of harmonics by filter application helps to comply with IEEE 519, EN-61000-3 or other energy quality standards.

Benefits

- Lower input current RMS value
- Lower power losses
- Increased energy quality
- Extended lifetime of another devices installed in the system
- Very low capacitive input current in no load state

Application

- Electric drives
- 6-pulse rectifiers
- Energy chargers
- Systems sensitive to energy quality
- Light and heavy industry
- Marine equipment
- Oil & Gas

Dimensions

IP20

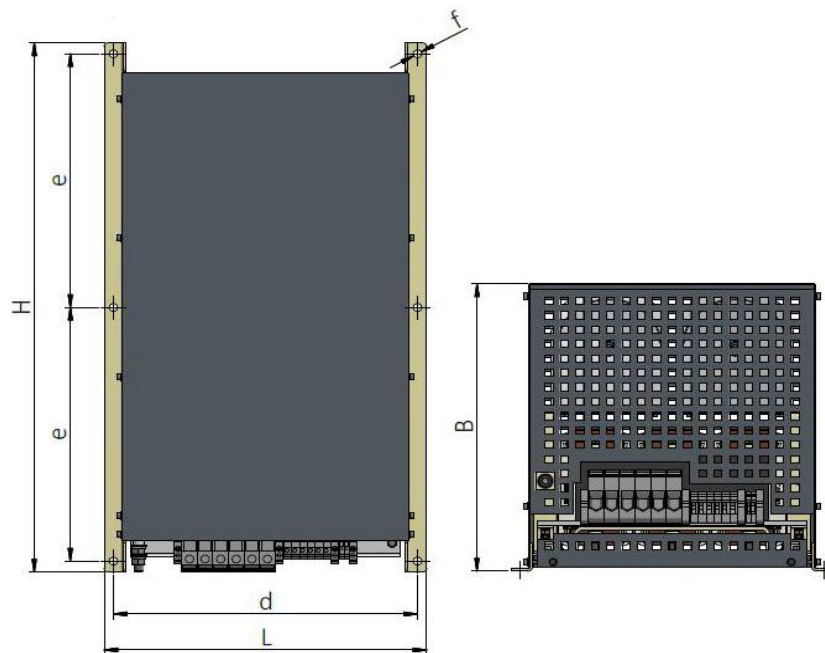
380-415 V, 50 Hz, IP00

No.	Type of filter	Power of drive	L	B	H	d	e	f	Weight
		[kW]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1	EF3H-2,2kW	2,2	230	252	358	212	300	4x7	15
2	EF3H-3kW	3	230	252	358	212	300	4x7	16
3	EF3H-4kW	4	230	252	358	212	300	4x7	19
4	EF3H-5,5kW	5,5	275	267	408	257	350	4x9	23
5	EF3H-7,5kW	7,5	275	267	408	257	350	4x9	27
6	EF3H-11kW	11	310	282	535	292	475	4x9	34
7	EF3H-15kW	15	310	282	535	292	475	4x9	44
8	EF3H-18,5kW	18,5	370	340	600	346	2x285	6x11	56
9	EF3H-22kW	22	370	340	600	346	2x285	6x11	64
10	EF3H-30kW	30	370	340	600	346	2x285	6x11	75
11	EF3H-37kW	37	420	400	735	396	2x352,5	6x11	88
12	EF3H-45kW	45	420	400	735	396	2x352,5	6x11	101
13	EF3H-55kW	55	420	400	735	396	2x352,5	6x11	123
14	EF3H-75kW	75	420	400	735	396	2x352,5	6x11	145
15	EF3H-90kW	90	460	420	990	436	2x480	6x11	183
16	EF3H-110kW	110	460	420	990	436	2x480	6x11	202

Manufacturer reserves the right to make changes resulting from the continuous development of products offered

Drawings

IP20



Dimensions

IP00

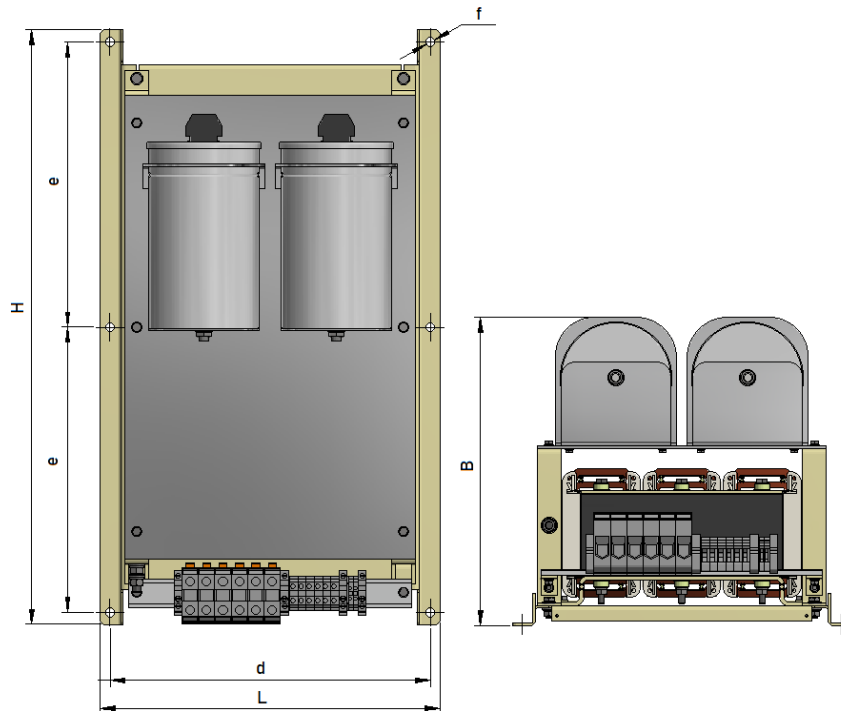
380-415 V, 50 Hz, IP00

No.	Type of filter	Power of drive	L	B	H	d	e	f	Weight
		[kW]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
1	EF3H-2,2kW	2,2	230	188	358	212	300	4x7	12
2	EF3H-3kW	3	230	188	358	212	300	4x7	13
3	EF3H-4kW	4	230	206	358	212	300	4x7	16
4	EF3H-5,5kW	5,5	275	211	408	257	350	4x9	19
5	EF3H-7,5kW	7,5	275	238	408	257	350	4x9	23
6	EF3H-11kW	11	310	253	535	292	475	4x9	28
7	EF3H-15kW	15	310	263	535	292	475	4x9	37
8	EF3H-18,5kW	18,5	370	269	600	346	2x285	6x11	47
9	EF3H-22kW	22	370	279	600	346	2x285	6x11	54
10	EF3H-30kW	30	370	324	600	346	2x285	6x11	64
11	EF3H-37kW	37	420	334	735	396	2x352,5	6x11	76
12	EF3H-45kW	45	420	344	735	396	2x352,5	6x11	87
13	EF3H-55kW	55	420	374	735	396	2x352,5	6x11	108
14	EF3H-75kW	75	420	384	735	396	2x352,5	6x11	129
15	EF3H-90kW	90	460	394	990	436	2x480	6x11	167
16	EF3H-110kW	110	460	404	990	436	2x480	6x11	186

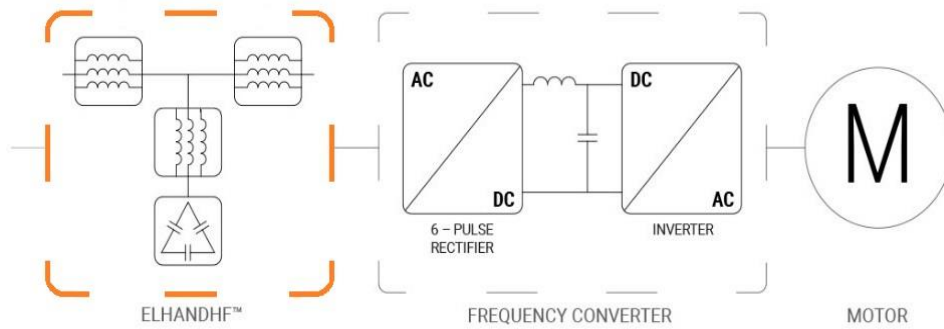
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Dimensional drawings

IP00



Typical application schematic diagram



Product code

E	F	3	H	900 kW	380-415V	50Hz	T40H	AL	IP20
Manufacturer symbol	Instrument type	Number of phases	Application type	Rated power of filter	Rated supply voltage	Rated frequency	Insulation class	Winding material Blank if copper	Protection degree Blank if IP00

Special execution

Products with parameters exceeding the catalog card can be made upon prior contact.

Contact

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