

## Harmonic filter HF1P 0,59-230



### Advantages

Sinusoidal current consumption from the mains in devices with uncontrolled B2U diode rectifiers
Compliance with EN 61000-3-2, EN 61000-3-12
Support in the compliance with IEEE 519, D-A-CH-CZ
Power factor >0,95 at rated current
Operation at 50 - 60 Hz possible
Use of the HF1P as a central hum filter for multiple converters possible

### Applications

Harmonic filter module to ensure sinusoidal mains currents, reduction of mains harmonic currents, increase in system service life and system reliability and compliance with power quality standards such as IEEE 519, TEC 61000-3-2, IEC 61000-3-12.

### Standards

Harmonic filter in accordance with  
EN 61558 Part 1, EN 61558 Part 20, UL 508 17th Ed, CSA 22.2 No. 14-10

### Approvals



## Harmonic filter HF1P 0,59-230



### Electrical data

Type	HF1P 0,59-230
Operating data	
Rated voltage	230 Vac
Voltage range	207-253 Vac
Rated current	2.50 A
Rated frequency	50 Hz
THD-I	10 % at 50 Hz, 18 % at 60 Hz (nominal load)
Rated load power*	0.42 kW
Description of the load	Symmetrical loading by converters with B2U input rectifiers
Overrating Capacity	150 % for 60 sec. every 10 min.
Power loss	27.0 W
Efficiency	95.5 %
Capacitive idle reactive power	0.3 kVar
Environment	
Ambient temperature	-10° C to +40° C, without condensation
Cooling method	AN
MTBF @ 50°C/500 V (Mil-HB-217F)	>500.000 h @ 40°C/400Vac
Safety and protection	
Type	Metal enclosure
Class of Insulation System	H
Protection index	IP 20
Safety class	I
Notes	
*	IE2 efficiencies of the motors and an efficiency >96 % assumed
Order numbers	
Order Number	HF1P 0,59-230



### Mechanical data

Type	HF1P 0,59-230
Terminal and mounting	
Connections phase	Screw clamp, 16 mm <sup>2</sup>
Connections PE	Bolt, M6
Fixing method	Mounting lugs
Measures and weights	
Weight	3.90 kg

