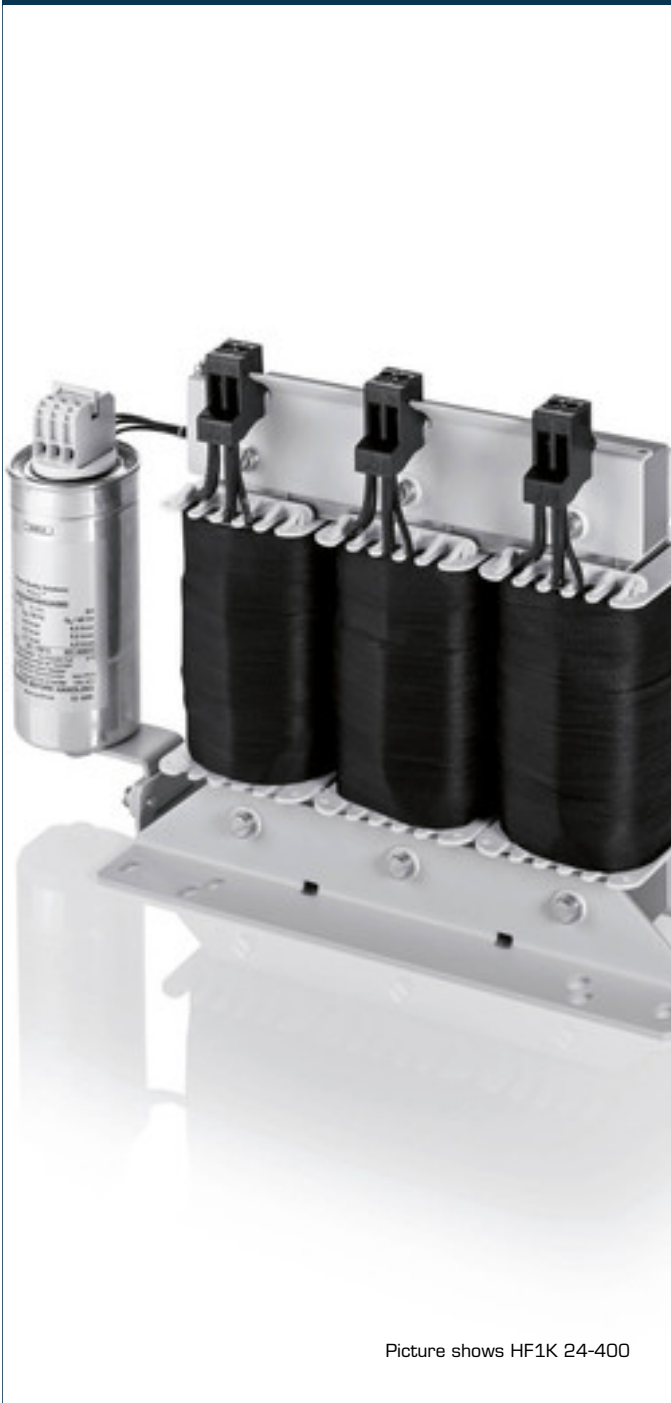


## Harmonic filter **HF1K 18-400**



Picture shows HF1K 24-400

### Advantages

Sinusoidal current consumption from the main in devices with uncontrolled 6SU 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
Hardly any intermediate circuit voltage dip by comparison with a 4 % uK line reactor
Harmonic filter with minimum capacitive idle reactive power
Very good corrosion protection and low noise due to vacuum impregnation
Operation at 50 - 60 Hz possible
Use of the HF1K as a central hum filter for multiple converters possible

### Applications

Harmonic filter module to ensure sinusoidal main currents, reduction of main 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



UL 506, CSA 22.2



## Harmonic filter HF1K 18-400

Type	HF1K 18-400
<b>Electrical data</b>	
<b>Operating data</b>	
Rated voltage	3 x 400 Vac
Voltage range	360-440 Vac
Rated current	3 x 26 A
THD-I	8 % (nominal load)
Rated load power	20.12 HP
Description of the load	Symmetrical loading by converters with B6U input rectifiers
Overrating Capacity	150 % for 60 sec. every 10 min.
Efficiency	99 %
Power loss	180 W
Capacitive idle power	2.9 kVAr
<b>Input</b>	
Rated frequency	50 - 60 Hz
<b>Approvals</b>	
Approvals	cURus
<b>Environment</b>	
Ambient temperature	14 °F to 113 °F, without condensation
Type of cooling	Air natural
MTBF @ 122 °F/500 V (Mil-HB-217F)	>500.000 h @ 40°C/400Vac
<b>Safety and protection</b>	
Type	Open type
Insulation class	H
Protection index	IP 00
Safety class	I
<b>Notes</b>	
*	IE2 efficiencies of the motors and an efficiency >96 % assumed
<b>Order numbers</b>	
<b>Order Number</b>	<b>HF1K 18-400</b>

Type	HF1K 18-400
<b>Mechanical data</b>	
<b>Terminal and mounting</b>	
Terminals phase	Screw clamp, 10 mm <sup>2</sup>
Connection type	Bolt, M6
Fixing method	Mounting lugs
<b>Measures and weights</b>	
Weight	68.34 lbs

### Dimensions in inch

