

RHF-Active 100-400-50/60-20-A



Main

Product type	3-Level Topology active harmonic filter for reduction of the harmonic distortion of variable frequency drives or other non linear loads. This filter reduces the THD of the current from typically 35% to below 5%.
Type code	RHF-Active 100-400-50/60-20-A
Topology	3-Level Topology
Order code	35000007
Supply voltage	3 • 380 - 415V (+10% / -15%) 50Hz/60Hz (+/- 2%)
Compensation	Harmonic Mitigation of Harmonics 2nd to 50th order Power Factor Corection Imbalance compensation
Rated current	100A (compensation current)
Typical Drive Rat.	185kW (for 35% compensation ratio target 5%)
CT accuracy	0.5 or higher
Standards and requirements	IEC/EN 61000-2-2 / -4 IEC/EN 61000-3-2 / -4 / -12 IEEE 519-2014 G5/4
Humidity	5.....95% - (non-condensing) during operation
Ambient temp.	min. -10°C (14°F) max. 40 °C (104°F) derating above 45°C (113°F) = -3%/K (up to 50°C (122°F))
Altitude	<1000m derating above 1000m: -5%/1000m (up to 4000m)

specific data

Power loss	2078W
System Efficiency	99% (Based on nominal drive current and 33% Rating)
Weight	44kg

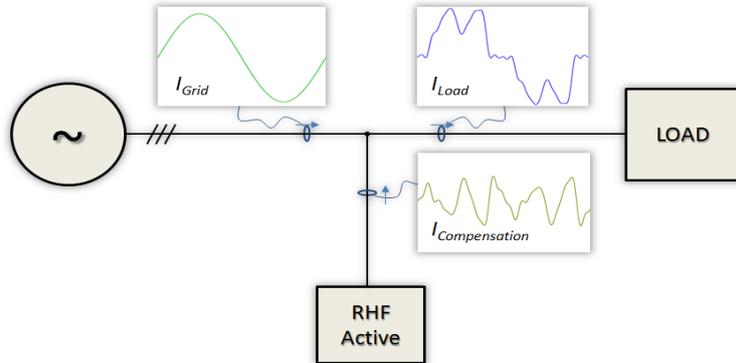
Electrical connections, controls and auxiliary supply

Main supply	bolted connection M6, 10-35mm ² (AWG 2-20) Tightening torque, min-max.: 2-2.5Nm
External Fan supply	not required

Physical dimensions filter RHF-Active 100-400-50/60-20-A

Active Harmonic Filters are parallel filter circuits injecting harmonics into the supply. These Harmonics have phase shift of 180° compared to the harmonics in the system. Therefore the injected Harmonics are eliminating the Harmonics seen from the mains supply. The following picture helps to verify the principle.

The REVCON RHF-Active, do not require any expensive commissioning on site. After power up, the unit will do self commissioning in order to reach the best possible performance, but of course individual settings are also possible. Beside harmonic mitigation of harmonics from the 2nd to 50th order, the RHF-Active offer compensation functions such as power factor correction and imbalance compensation.



Physical dimensions filter RHF-Active 100-400-50/60-20-A

