

Product data sheet

Product type

REVCON RHF-RA / RB

Passive harmonic filter RHF-RA / RHF-RB



Product description

Product type	Passive harmonic filter RHF-RA / RHF-RB
Product specification	Harmonic line filter for the reduction of the mains disturbances in connection with a REVCON power feedback module. The total harmonic distortion (THD I) of the mains current is reduced with this filter from ca. 40% to <16% (RHF-RA), ca 40% to <10% (RHF-RB) at nominal operation. For REVCON RFE/RLD/RHD Only in connection with option EST
[I _N] Nominal current	10-436A
[U _N] Nominal voltage	230V,380V,400V,460V,500V,600V,690V
Mains frequency	50Hz / 60Hz +/-2%
Cos phi	0,85 (75% of the nominal current) 0,99 (100% of the nominal current) 1 (150% of the nominal current)

Data

Number of phases	3-phase
Max. dynamic overload (60s)	1.6 x Nominal current
Efficiency	>98,0%-99,5%
Electrical connection AC	L1/L2/L3 terminals
Temperature monitoring	A/B Terminal ; 0,5-4mm ² NC= operation / OC= failure (max. switching capacity: 250V(VDE) 277V(UL) - 2A)
Electrical connection fan	L/N terminals
Standards and permission	IEC/EN 61000-3-2 IEC/EN 61000-3-12 IEC/EN 61000-3-4 IEC/EN 61000-2-2 IEC/EN 61000-2-4 IEEE 519 G5/4 Power Conversion Equipment - UL 508C (460V, 600V) Industrial Control Equipment - CSA-C22.2 No. 14 (460V, 600V)

Operating conditions

Degrees of protection IP code	IP 20 Filter
Resonance search	Base standard: DIN EN 60068-2-6 Test specification: 5 Hz,150 Hz, 3 directions (0,5 g, 0,1 g, 0,5 g)
Sine vibration test	Base standard: DIN EN 60068-2-6 Test specification: (5 Hz-13,2 Hz)-150 Hz (2 mm peak to peak 0,7 g)
Relative humidity	Humidity class F without condensation 5.....85% - Class 3K3 (non-condensing) during operation
Ambient temperature during full operation	5...45°C without current derating <45°C.....60°C with current derating 1,5% per °C
Ambient temperature during storage/transport	- 25°C...+65°C transport -25°C...+55°C storage
Operation altitude	1000m without derating > 1000m...4000m with current derating 5% per 1000m

Component part

Option	EST
Specification	Synchronisation terminals for the connection of a RHF-RA or RHF-RB harmonic line filter with phase interchanging protection