

LCL-TH

Harmonic filter for elevators



Description

The **LCL-TH** filter is an **LCL** filter that is regulated through static switching operations (thyristors) and which has been specially designed to compensate harmonics in 6-pulse power converters that work with fluctuating loads and require an instantaneous compensation, for example, lifts, cranes, etc.

Application

Reduction of the current wave's distortion towards the network and the rest of the installation.

Compliance with the **EN 12015, IEC 61000-3-4 and IEC 61000-3-12**

Energy savings with the reduction of the root mean square current (RMS), thus reducing the kV·A demand.

Increase of the working life of units above this location with the corresponding reduction of thermal losses generated.

Limits current transients, preventing damages caused to the converter and overvoltage trips that affect production processes.

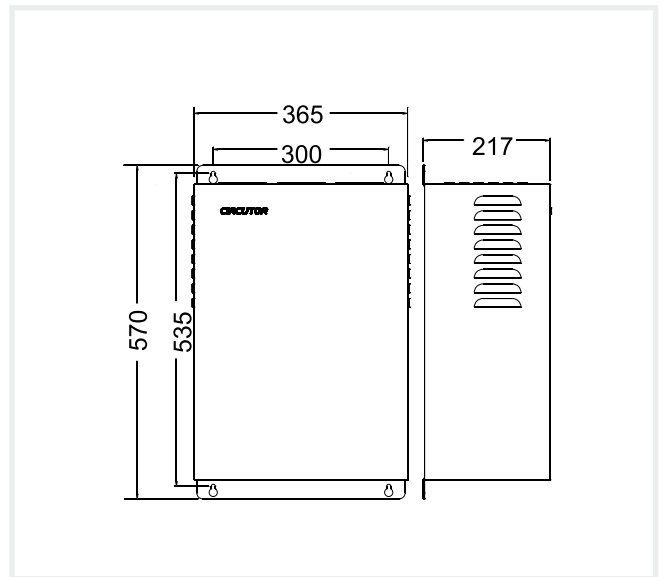
Features

Features	
Standard voltage (ph-ph)	400 V a.c. / 480 V a.c. (Others on request)
Frequency	50 Hz: LCL-35-xx types 60 Hz: LCL-36-xx types
Rated load current (I_c)	See table
Overload	1,5 I_c 1 min more 5 min with I_c (max. operating temperature)
Rated filtering current (I_f)	See table
residual THD	Aprox. 8 %
Voltage drop at rated current	< 2 %
Build features	
Cabinet material	Treated and painted steel Racks RAL 1013 Door RAL 3005
Degree of protection	IP 20
Locking system	Lock and key
Ventilation	Natural
Mounting	On the floor
Installation	Indoor
Environmental conditions	
Operating temperature	35 °C
Relative humidity	80 %
Standars	
EN 60439, EN 60831, EN 50081-1, EN 50081-2, class A	

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Dimensions



References

LCL-TH 400 - 415 V / 50 Hz

Load current I_c (A)	Q (kvar)	Dimensions (mm) width x height x depth	Type	Code
7	1,76	365 x 570 x 217	LCL-TH35-7A-400	R7K104
9	1,51	365 x 570 x 217	LCL-TH35-9A-400	R7K105
12	2,51	365 x 570 x 217	LCL-TH35-12A-400	R7K106
16	3,27	565 x 700 x 245	LCL-TH35-16A-400	R7K107
22	4,42	565 x 700 x 245	LCL-TH35-22A-400	R7K108

Connections

