

TOTAL HARMONIC DISTORSION ABATEMENT (THD)

POWER FACTOR CORRECTION (COS Φ)

FLICKER ABATEMENT

VOLTAGE DIPS COMPENSATION

IEC 61000-3-12 / EN 61000-3-12

From the experience of more than 15 years in RFI filters ENERDOOR developed a new harmonic filters line FINHRM; the range of products cover standard products currents up to 200 A with the option to develop custom solution for higher currents.

The typical value of THD is around 100%, in this case the effect of FIN HRM filters allows to reduce the THD up to 10%; with critical situation (THD 200%) FIN HRM filters reduce the THD up to around 15%.

The filters are based on a system of series impedance, this solution allows many advantages:

Easy design

Easy to determine the correct product: this can be done simply by evaluating the current value because it's not affected by the network impedance. The evaluation of the product can be done directly at the manufacturer or by simply evaluating the nominal current.

Compact dimension

A more compact solution compared to the existing solutions on the market.

Power factor correction

The filter is designed to guarantee a power factor more than 0.9 considering an initial value of 0.7. This allows to reduce the value of the power factor correction circuit for the end user.

The product allows to add an external capacitor to improve power factory correction.

Input filter

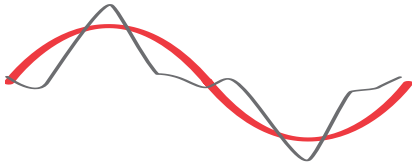
The series impedance design also allows to reduce the harmonic currents present in the power network that could cause problems in the component inside the cabinet.

Voltage dips and flicker

FIN HRM filter helps to reduce the effect of voltage dips less than 5 ms on the machine performance and also reduce flicker emission.

ELECTRIC CHARACTERISTICS

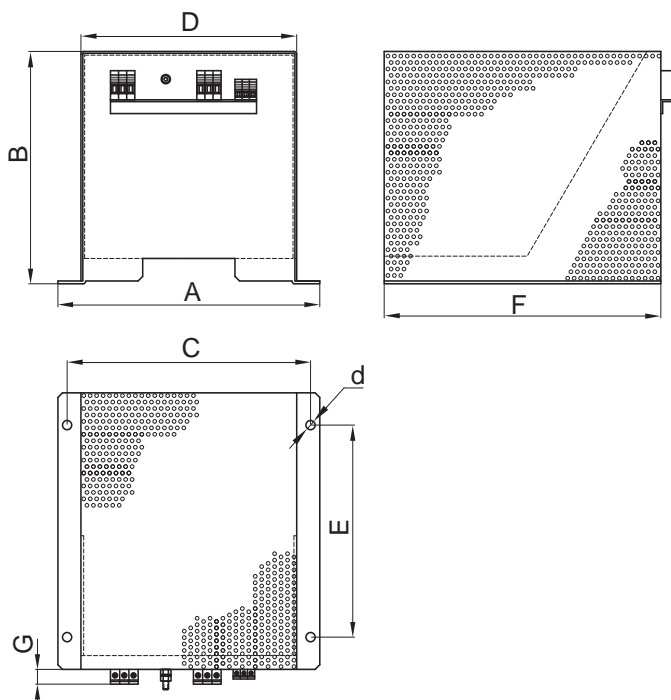
Nominal Voltage	440 Vac
THD Reduction	< 15%



FIN HRM	Nominal current at 40° C (A)	Power loss (W)
.016.M	3x16	50
.030.M	3x30	65
.050.M	3x50	70
.075.M	3x75	105
.100.M	3x100	145
.150.M	3x150	155

MECHANICAL DIMENSIONS (mm)

FIN HRM	A	B	C	D	E	F	d	G	Weight Kg
.016.M	280	252	260	234	230	322	10	16	25
.030.M	280	252	260	234	230	322	10	16	32
.050.M	380	282	360	334	350	402	10	32	48
.075.M	380	282	360	334	350	402	10	32	62
.100.M	440	312	420	394	440	492	10	43	80
.150.M	440	312	420	394	440	492	10	43	90

CASE

ASSEMBLING
