


APPLICATION GUIDE

The FIN 950 series Reactances are inductive components used in a differential mode configuration. Therefore in contrast to the FIN 900 chokes, they determine line voltage drops; the reactors must therefore have a low value, so as to not determine high line voltage drops compromising the possibility of motor speed control.

The Reactances are typically used in the following three applications.

Connection between the mains filter and the controller

The Reactance is installed between the mains filter and the SCR controller for wrapped field motors; such an application can appropriately reduce the low frequency electromagnetic interferences produced by the controller and improve, by levelling, the input current drawn. The typical voltage drop caused by the reactor used as such is around 2 to 4% of the nominal mains voltage.

Connection between the controller and the motor

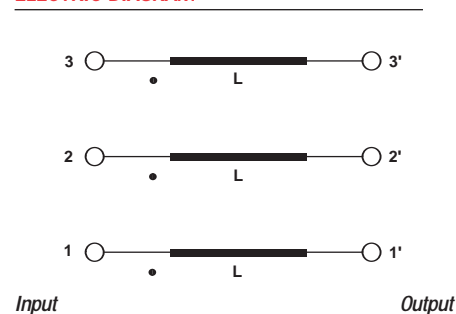
Installation of the reactor between the inverter and the motor properly de-couples the two devices.

Connection between the mains filter and the power supply

In systems with a single power supply for multiple axis or mandrel control devices, the reactor is installed between the mains filter and the power supply so as to decouple the latter from the mains.

ELECTRIC CHARACTERISTICS

Nominal Voltage	250 / 750 V _{Ac}
Frequency Range	45/60 Hz
Insulation class	H
Overheating class	H
Connection solution	<i>open</i>
Tropicalisation	<i>Total impregnation</i>
Finishing	<i>Red Enamelled</i>

ELECTRIC DIAGRAM


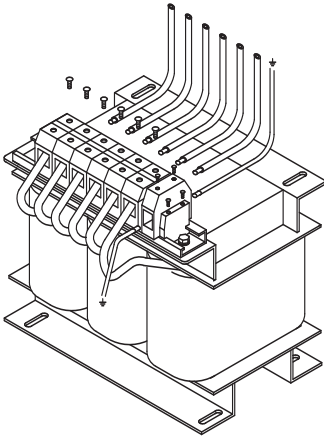
FIN 950	Nominal current at 40° C (A)	Saturation current	Inductances	Terminals	
				phase	ground
.030.M	30 A	60 A	0.75 mH	n° 6-6 mm ²	n° 1-6 mm ²
.080.M	80 A	160 A	0.45 mH	n° 6-35 mm ²	n° 1-35 mm ²
.110.M	110 A	220 A	0.30 mH	n° 6-35 mm ²	n° 1-35 mm ²
.160.M	160 A	320 A	0.25 mH	n° 6 SAKG 32	n° 1-35 mm ²
.250.M	250 A	500 A	0.22 mH	6 SAKG 46	1-35 mm ²

MECHANICAL DIMENSIONS (mm)

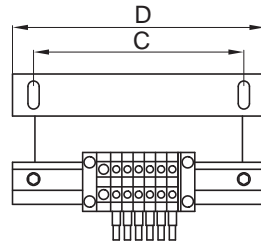
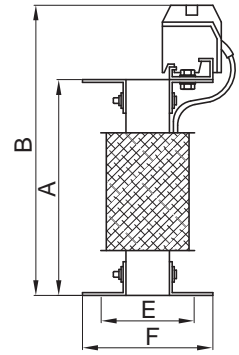
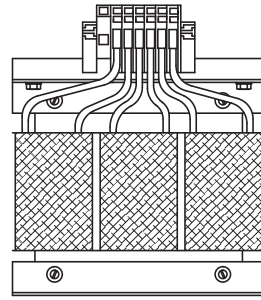
FIN 950	A	B	C	D	E	F	Weight Kg
.030.M	156	210	150	180	63	93	6
.080.M	209	281	200	240	101	132	22
.110.M	203	278	200	240	128	159	26

M = Terminals

ASSEMBLING



CASE

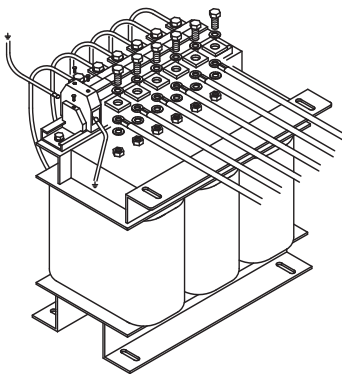


MECHANICAL DIMENSIONS (mm)

FIN 950	A	B	C	D	E	F	Weight Kg
.160.M	257	306	250	300	111	152	36
.250.M	307	366	260	360	114	148	58

M = Terminals

ASSEMBLING



CASE

