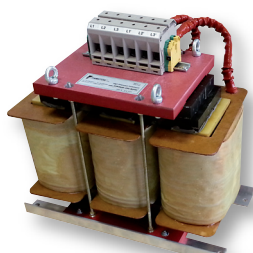




Datasheet 202605

High frequency differential mode choke with excellent attenuation for high speed motors

APPROVALS:



FIN960F.(010 - 1000).M

FEATURES

- Rated current from 10 to 1000A
- Increases motor life
- Protects against voltage spikes on the motor
- Customizable per motor specifics to optimize the system

BENEFITS

- Low power loss with frequency output up to 30 kHz
- No ventilation required
- Excellent performance versus frequency and current
- Available in open frame or enclosure

MARKETS

- High speed motors
- CNC machinery
- Woodworking machinery

ORDERING CODE

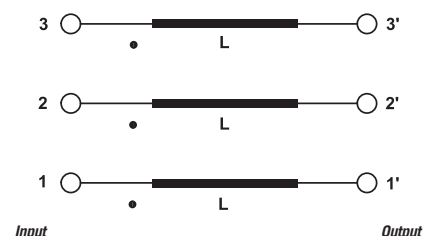
FIN960F	.050	.M	040	.021
Model	Current (A)	Connection M = Terminal block	Inductance value (L)	Model

Custom nominal current and inductance value combinations are available to accommodate specific motor characteristics and working cycles.

ATTENUATION INDICATOR

High	Very High	Excellent

ELECTRIC DIAGRAM



TECHNICAL SPECIFICATIONS

Nominal voltage	0 - 750 Vac
Motor frequency	0 - 2 kHz
Rated current	10 - 1000 A
Carrier frequency (PWM)	0 - 16 kHz
Potential test voltage phase to phase	2400 Vdc (2 sec.)
Potential test voltage phase to ground	3200 Vdc (2 sec.)
IP Protection	IP20
Saturation current	4 x Rated current (Switch ON) 2 x In 10 seconds 1.5 In for 10 minutes 1.5 x Nominal current
Climatic class	-40 to 85°C
MTBF at 40°C	250,000 Hours

ELECTRICAL CHARACTERISTICS

FIN960F	Rated Current S1 (A)	Peak Current S6 (A)	L (mH)	Power Loss (W)
.075.M020.007	75	94	0.2	95
.050.M040.021	50	62	0.4	75
.080.M040.050	80	100	0.4	105
.140.M030.104	140	175	0.3	135
.160.M040.128	160	200	0.4	180
.170.M060.168	170	212	0.6	420
N.200.M080.278	200	250	0.8	620

CONNECTIONS

LINE		PE	
Cable (mm²)	Terminal Torque (Nm)	Cable (mm²)	Terminal Torque (Nm)
16-50	5.6	1.5-35	3.5-6.9
1.5-35	3.5-6.9	1.5-16	2.0-3.4
16-50	5.6	1.5-35	3.5-6.9
35-95	10.2	16-50	5.6
35-95	10.2	16-50	5.6
35-95	10.2	16-50	5.6
35-95	10.2	16-50	5.6

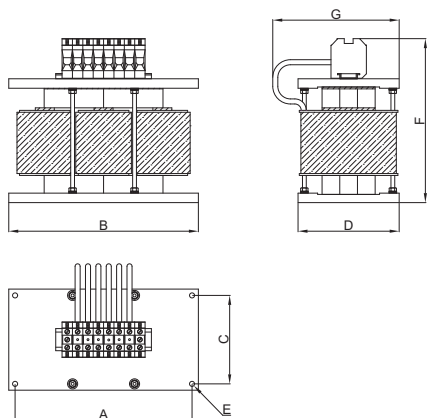
Custom nominal current and inductance value combinations are available to accommodate specific motor characteristics and working cycles.

S1 (100%) at 40C° - S6 (40% 2 min) at 40C°

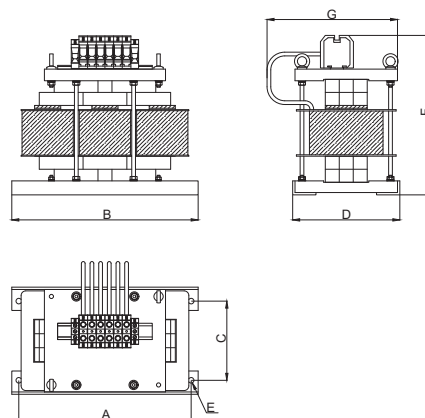
MECHANICAL DIMENSIONS mm

FIN960F	A	B	C	D	E	F	G	Weight Kg.	Case
.075.M020.007	230	250	80	100	7	270	120	6	1
.050.M040.021	240	260	110	140	7	270	150	18	1
.080.M040.050	370	400	170	230	12	350	250	37	2
.140.M030.104	240	260	110	140	7	270	150	20	3
.160.M040.128	500	540	200	260	12	500	300	75	3
.170.M060.168	500	540	200	260	12	500	300	65	3
N.200.M080.278	280	300	140	160	8	280	180	19	4

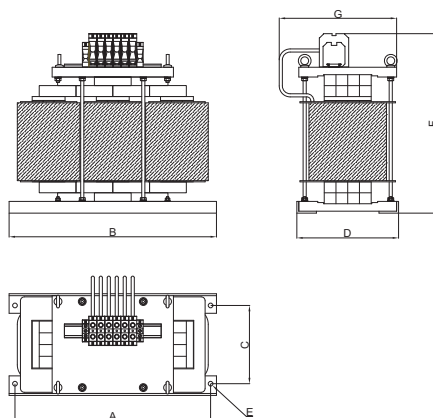
CASE 1



CASE 2



CASE 3



CASE 4

