



High frequency differential choke with excellent attenuation to reduce dV/dt

Datasheet 3/2017

APPROVALS:

 UL508
CSA C22.2

FIN5983.(012 - 060).M
FEATURES

- Rated current from 12 to 60A
- Increases motor life
- Protects against voltage spikes to the motor

BENEFITS

- Safety terminal block connectors
- Low power loss up to 1 kHz frequency output

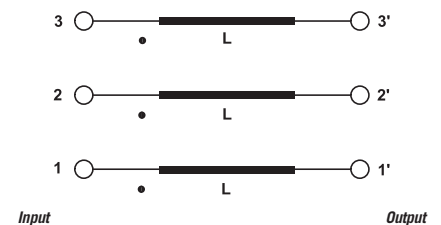
MARKETS

- Motors controlled by drives
- Woodworking equipment
- Closed loop motor applications

ORDERING CODE

FIN 5983	.030	.M
Model	Current (A)	Connection
		M = Terminal block

ATTENUATION INDICATOR

ELECTRIC DIAGRAM

TECHNICAL SPECIFICATIONS

Nominal voltage	0 / 600 Vac
Output frequency	0 – 1000 Hz
Rated current	12 to 60A
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
Overload capability	4 x Rated current (Switch ON) 2 x In 10 seconds 1.5 In for 10 minutes
Climatic class	-40 / +85° C
MTBF at 40°C	250.000 Hrs.

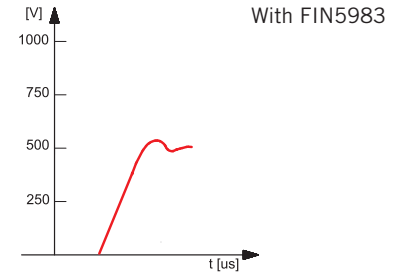
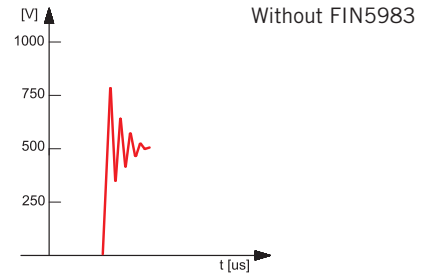
ELECTRICAL CHARACTERISTICS

FIN5983	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.012.M	12	10	1.2 (2.7)
.030.M	30	25	1.8 (4.7)
.040.M	45	37	3 (7)
.060.M	60	50	8 (16.8)

CONNECTIONS

Solid Cable (mm ²)	LINE		Terminal Torque (Nm)	PE
	Stranded Cable (mm ²)			Torque (Nm)
0.5 - 16	0.5 - 10		1.8	1.8
0.5 - 16	0.5 - 10		1.8	1.8
0.5 - 16	0.5 - 10		1.8	1.8
4 - 25	6 - 35		4.5	4.5

TYPICAL MEASUREMENT

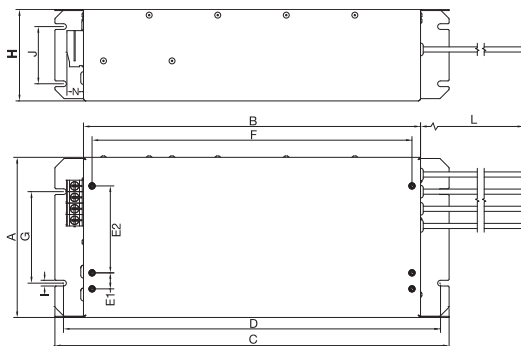


Example of measurement in a typical application using a servo drive

MECHANICAL DIMENSIONS mm

FIN5983	A	B	C	D	E1	E2	F	G	H	J	L	I	N	Weight Kg.	Case
.012.M	140	295	345	330	14	76	280	80	80	50	300	5	33	2.2	1
.030.M	140	295	345	330	14	76	280	80	80	50	300	5	33	2.5	1
.040.M	200	295	345	330	-	160	280	120	80	50	300	5	38	3.2	1
.060.M	200	295	345	330	-	160	280	120	80	50	300	5	38	4	1

CASE 1



ASSEMBLY CONNECTION "M"

