Common mode choke with very high attenuation for reducing dV/dt

Datasheet 3/2019

APPROVALS:

RoHS CE

FIN930.(006 - 200).M

FEATURES

- Rated current from 6 to 200A
- Increases motor life
- Protects against voltage spikes on the motor

BENEFITS

- 5 Year warranty
- Safety terminal block connectors
- Helps pass immunity and emission tests for the IEC61000-6-2 and IEC61000-6-4 Standards

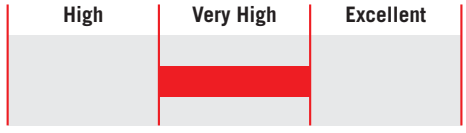
MARKETS

- Motors controlled by drives
- Pumps
- Conveyors
- Spindle motors closed loop

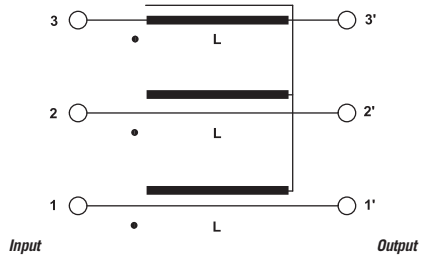
ORDERING CODE

FIN930	.055	.M
Model	Current (A)	Connection
		M = Terminal block

ATTENUATION INDICATOR



ELECTRIC DIAGRAM



TECHNICAL SPECIFICATIONS

Nominal voltage	0 / 600 Vac
Output frequency	50 - 3500 Hz
Rated current	6 to 200A
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

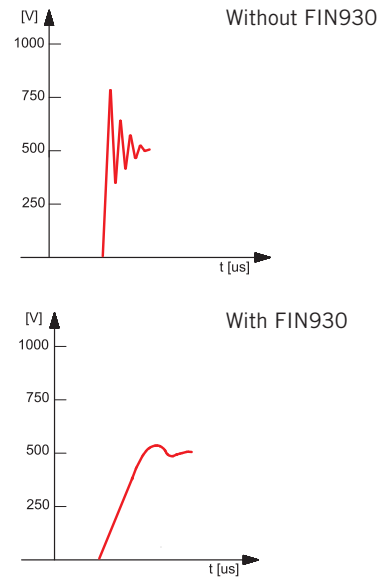
ELECTRICAL CHARACTERISTICS

FIN930	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.006.M	8	6	3
.012.M	14	12	3
.016.M	18	16	4
.025.M	28	25	4
.032.M	35	32	5
.042.M	50	42	7
.055.M	63	55	8
.070.M	80	70	13
.080.M	90	80	13
.100.M	110	100	15
.115.M	130	115	22
.150.M	175	150	25
.200.M	230	200	28

CONNECTIONS

	LINE			PE	
FIN930	Solid Cable (mm^2)	Stranded Cable (mm^2)	Terminal Torque (Nm)	d (mm)	Torque (Nm)
.006.M	0.2 - 10	0.2 - 6	1.2	M6	1.2
.012.M	0.2 - 10	0.2 - 6	1.2	M6	1.2
.016.M	0.2 - 10	0.2 - 6	1.2	M6	1.2
.025.M	0.2 - 10	0.2 - 6	1.2	M6	1.2
.032.M	0.2 - 10	0.2 - 6	1.2	M6	1.2
.042.M	0.5 - 16	0.5 - 10	1.8	M6	1.8
.055.M	0.5 - 16	0.5 - 10	1.8	M6	1.8
.070.M	4 - 25	6 - 35	4.5	M10	4.5
.080.M	4 - 25	6 - 35	4.5	M10	4.5
.100.M	10 - 50	10 - 50	4	M10	4
.115.M	10 - 50	10 - 50	4	M10	4
.150.M	35 - 95	35 - 95	20	M10	20
.200.M	35 - 95	35 - 95	20	M10	20

TYPICAL MEASUREMENT

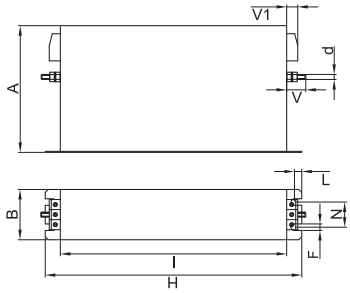


Example of measurement in a typical application using a servo drive

MECHANICAL DIMENSIONS mm

FIN930	A	B	V	V1	F	H	I	L	N	d	Weight Kg.	Case
.006.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.012.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.016.M	177	60	19	15	6	267	237	8	34	M6	1.7	1
.025.M	177	60	19	15	6	267	237	8	34	M6	2.3	1
.032.M	177	60	19	15	6	267	237	8	34	M6	2.3	1
.042.M	177	70	19	25	6	295	265	8	44	M6	3.4	1
.055.M	177	70	19	33	6	295	265	8	44	M6	3.5	1
.070.M	205	80	28	38	8	390	340	12	53	M10	6	1
.080.M	205	80	28	38	8	390	340	12	53	M10	6	1
.100.M	205	80	28	43	8	390	340	12	53	M10	7.1	1
.115.M	205	80	28	43	8	390	340	12	53	M10	7.1	1
.150.M	220	105	28	50	8	420	370	12	78	M10	8.5	1
.200.M	220	105	28	50	8	420	370	12	78	M10	8.5	1

CASE 1



ASSEMBLY CONNECTION "M"