EMI/RFI Filter with very high attenuation for industrial applications

Datasheet 3/2017

APPROVALS:

c UL us E215863 UL1283 CSA C22.2 RoHS CE

SCCR by UL508A

FIN1700E.(007 - 230).M

FEATURES

- Rated current from 7 to 230A
- Very high differential and common mode attenuation
- Very low leakage current

BENEFITS

- 5 Year warranty
- Safety terminal block connector
- Very compact design

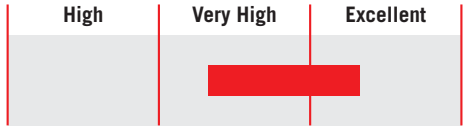
MARKETS

- Packaging machinery
- Printing machinery
- Variable frequency drives / servo drives
- Medical equipment

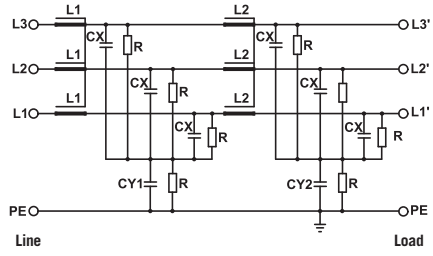
ORDERING CODE

FIN1700E	.070	.M
Model	Current (A)	Connection
		M = Terminal block

ATTENUATION INDICATOR



ELECTRIC DIAGRAM



TECHNICAL SPECIFICATIONS

Nominal voltage	0 / 500 Vac
Frequency	50 – 60 Hz
Rated current	7 to 230A
Potential test voltage phase to phase	2300 Vdc (2 sec.)
Potential test voltage phase to ground	3100 Vdc (2 sec.)
Leakage current normal conditions	< 3 mA *
Leakage current worst conditions	< 15 mA
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

* **Voltage 230 Vac phase to ground 50 Hz / 40°C**

FIN1700E

Three Phase Filter

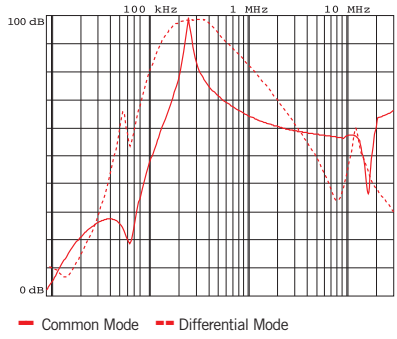
ELECTRICAL CHARACTERISTICS

FIN1700E	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.007.M	7	6	8
.013.M	13	12	12
.018.M	18	16	15
.027.M	27	25	20
.034.M	34	32	32
.040.M	40	36	23
.055.M	55	50	42
.070.M	70	64	55
.100.M	100	90	60
.110.M	110	100	90
.130.M	130	120	98
.150.M	150	135	103
.200.M	200	180	115
.230.M	230	210	120

CONNECTIONS

	LINE			PE	
	Solid Cable (mm^2)	Stranded Cable (mm^2)	Terminal Torque (Nm)	d (mm)	Torque (Nm)
.007.M	0.2 - 10	0.2 - 6	1.2	M6	6
.013.M	0.2 - 10	0.2 - 6	1.2	M6	6
.018.M	0.2 - 10	0.2 - 6	1.2	M6	6
.027.M	0.2 - 10	0.2 - 6	1.2	M6	6
.034.M	0.2 - 10	0.2 - 6	1.2	M6	6
.040.M	0.2 - 10	0.2 - 6	1.2	M6	6
.055.M	0.5 - 16	0.5 - 10	1.8	M6	6
.070.M	0.5 - 16	0.5 - 10	1.8	M6	6
.100.M	4 - 25	6 - 35	4.5	M10	18
.110.M	4 - 25	6 - 35	4.5	M10	18
.130.M	10 - 50	10 - 50	4	M10	18
.150.M	10 - 50	10 - 50	4	M10	18
.200.M	35 - 95	35 - 95	20	M10	18
.230.M	35 - 95	35 - 95	20	M10	18

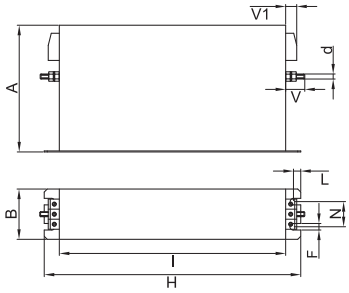
TYPICAL ATTENUATION



MECHANICAL DIMENSIONS mm

FIN1700E	A	B	V	V1	F	H	I	L	N	d	Weight Kg.	Case
.007.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.013.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.018.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.027.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.034.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.040.M	140	50	19	15	6	226	200	7	28	M6	1.7	1
.055.M	177	70	19	25	6	295	265	8	44	M6	3.7	1
.070.M	177	70	19	33	6	295	265	8	44	M6	5.2	1
.100.M	205	80	28.5	38	8	390	340	12	53	M10	6.5	1
.110.M	205	80	28.5	38	8	390	340	12	53	M10	6.5	1
.130.M	205	80	28.5	43	8	390	340	12	53	M10	7.1	1
.150.M	205	80	28.5	43	8	390	340	12	53	M10	7.1	1
.200.M	220	105	28.5	50	8	420	370	12	78	M10	8	1
.230.M	220	105	28.5	50	8	420	370	12	78	M10	8	1

CASE 1



ASSEMBLY CONNECTION "M"