



Datasheet 202605

EMI/RFI Filter with very high attenuation for industrial applications



FIN1740ESM.(010 – 180).M

FEATURES

- Rated current from 10 - 180 A
- Very high differential and common mode attenuation
- Low leakage current

MARKETS

- Conveyors
- Automated machinery
- 3D printers
- Medical equipment

APPROVALS:



BENEFITS

- 5 Year warranty
- Suitable for medical applications
- Compact design

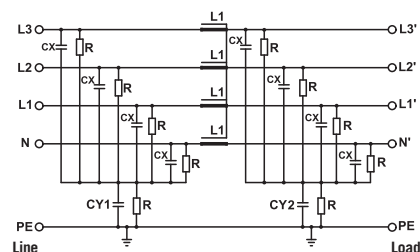
ORDERING CODE

FIN 1740ESM .072 .M
Model Current (A) Connection
M = Terminal block

ATTENUATION INDICATOR

High	Very High	Excellent

ELECTRIC DIAGRAM



TECHNICAL SPECIFICATIONS

Nominal voltage	0 - 500 Vac
Frequency	50/60 Hz
Rated current	10 - 180 A
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 to 85°C
MTBF at 40°C	250,000 Hours

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

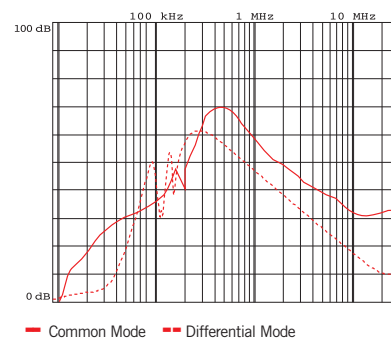
ELECTRICAL CHARACTERISTICS

FIN1740ESM	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.010.M	10	9	4
.018.M	18	16	6
.036.M	36	32	18
.072.M	72	64	32
.100.M	100	90	34
.135.M	135	120	42
.180.M	180	160	38

CONNECTIONS

LINE			PE	
Solid Cable (mm²)	Stranded Cable (mm²)	Terminal Torque (Nm)	d (mm)	Torque (Nm)
0.5 - 10	0.5 - 10	1.2	M6	6
0.5 - 10	0.5 - 10	1.2	M6	6
0.5 - 10	0.5 - 10	1.2	M6	6
0.5 - 16	10 - 25	2.2	M6	6
6 - 16	10 - 35	4.5	M10	18
16 - 50	16 - 50	4	M10	18
35 - 95	35 - 95	20	M10	18

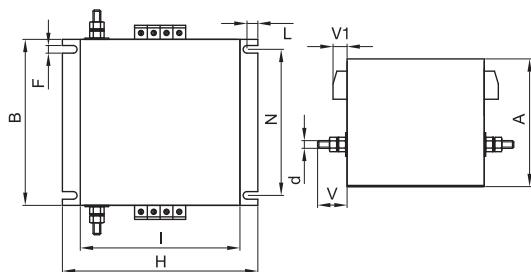
TYPICAL ATTENUATION



MECHANICAL DIMENSIONS mm

FIN1740ESM	A	B	V	V1	F	H	I	L	N	d	Weight Kg.	Case
.010.M	100	130	22.5	16	6.5	153	125	8.5	90	M6	1	1
.018.M	100	130	22.5	16	6.5	153	125	8.5	90	M6	1	1
.036.M	100	130	22.5	16	6.5	153	125	8.5	90	M6	1.1	1
.072.M	125	118	22.5	32.5	6.5	153	128	8.5	50	M6	1.6	1
.100.M	140	180	30	39	6.5	170	140	8.5	65	M10	3.4	1
.135.M	140	180	30	43	6.5	170	140	8.5	65	M10	4.5	1
.180.M	160	200	30	51.5	6.5	170	140	8.5	75	M10	4.8	1

CASE 1



ASSEMBLY CONNECTION "M"

