



### EMI/RFI Filter with very high attenuation for industrial applications

Datasheet 3/2017



**FIN1740ESM.(010 – 180).M**

#### FEATURES

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

#### MARKETS

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

#### APPROVALS:



UL1283  
CSA C22.2



**SCCR** by UL508A

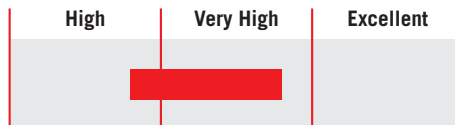
#### BENEFITS

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

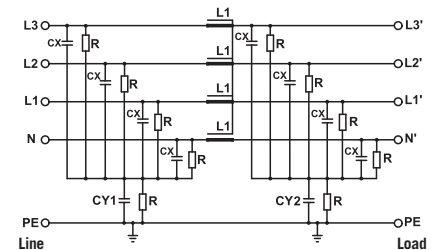
#### ORDERING CODE

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

#### ATTENUATION INDICATOR



#### ELECTRIC DIAGRAM



#### TECHNICAL SPECIFICATIONS

Nominal voltage	0 / 500 Vac
Frequency	50 – 60 Hz
Rated current	10 to 180A
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

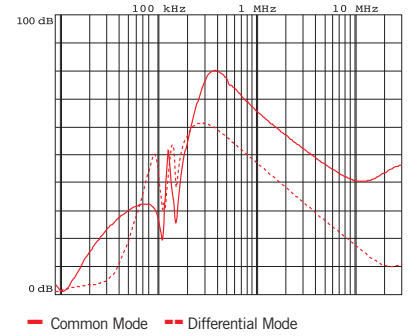
### ELECTRICAL CHARACTERISTICS

FIN1740ESM	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.010.M	10	9	5
.018.M	18	16	5
.036.M	36	32	18
.072.M	72	64	40
.100.M	100	90	102
.135.M	135	120	96
.180.M	180	160	98

### CONNECTIONS

LINE			PE	
Solid Cable (mm <sup>2</sup> )	Stranded Cable (mm <sup>2</sup> )	Terminal Torque (Nm)	d (mm)	Torque (Nm)
0.2 - 10	0.2 - 6	1.2	M6	6
0.2 - 10	0.2 - 6	1.2	M6	6
0.2 - 10	0.2 - 6	1.2	M6	6
0.5 - 16	0.5 - 10	1.8	M6	6
4 - 25	6 - 35	4.5	M10	18
10 - 50	10 - 50	4	M10	18
35 - 95	35 - 95	20	M10	18

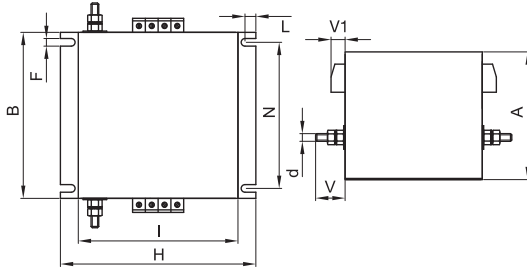
### TYPICAL ATTENUATION



### 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"

