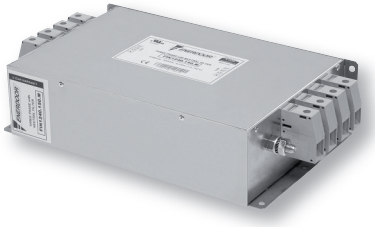
EMI/RFI Filter with excellent attenuation for industrial applications

Datasheet 3/2017

APPROVALS:

c UL us E215863 UL1283 CSA C22.2 RoHS CE

SCCR by UL508A



FIN1240.(005 - 150).M

FEATURES

- Rated current from 5 to 2000A
- Excellent differential and common mode attenuation
- Very low leakage current

BENEFITS

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

MARKETS

- Semiconductor machines
- Medical machines
- Automated machines

ORDERING CODE

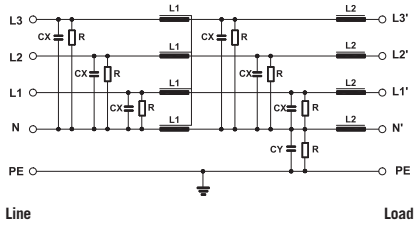
FIN 1240	.150	.M
Model	Current (A)	Connection
		M = Terminal block
		V = Screws
		B = Bus bar

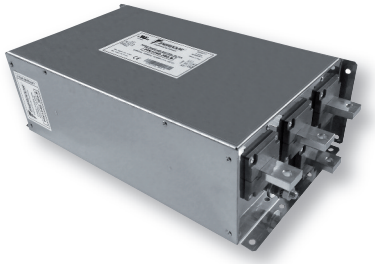
FIN1240.200.V

ATTENUATION INDICATOR

High	Very High	Excellent

ELECTRIC DIAGRAM





FIN1240.(360 - 1000).B

Models available with current ratings up to 2000A

TECHNICAL SPECIFICATIONS

Nominal voltage	0 / 480 Vac
Frequency	50 – 60 Hz
Rated current	5 to 1000A
Potential test voltage phase to phase	2200 Vdc (2 sec.)
Potential test voltage phase to ground	2900 Vdc (2 sec.)
Leakage current normal conditions	< 3 mA *
Leakage current worst conditions	< 10 mA
IP Protection	IP20
	IP00 over 200A **
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
** Protection cover available

FIN1240

Three Phase + Neutral Filter

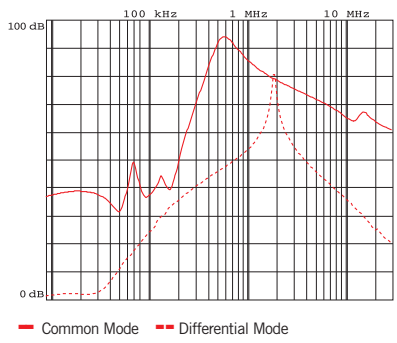
ELECTRICAL CHARACTERISTICS

FIN1240	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.005.M	6	5	5
.010.M	12	10	7
.016.M	18	16	14
.030.M	34	30	11
.050.M	54	50	10
.080.M	85	80	35
.100.M	106	100	42
.150.M	155	150	74

CONNECTIONS

LINE			PE	
Solid Cable (mm^2)	Stranded Cable (mm^2)	Terminal Torque (Nm)	d1 (mm)	Torque (Nm)
0.2 - 10	0.2 - 6	1.2	M4	2
0.2 - 10	0.2 - 6	1.2	M4	2
0.2 - 10	0.2 - 6	1.2	M5	4
0.2 - 10	0.2 - 6	1.2	M5	4
0.5 - 16	0.5 - 10	1.8	M6	6
4 - 25	6 - 35	4.5	M8	14
4 - 25	6 - 35	4.5	M8	14
35 - 95	35 - 95	20	M10	18

TYPICAL ATTENUATION



FIN1240	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.200.V	206	200	75
.360.B	370	360	96
.500.B	515	500	101
.750.B	770	750	103
.1000.B	1050	1000	115

LINE		PE	
d (mm)	Torque (Nm)	d1 (mm)	Torque (Nm)
M10	18	M10	18
M8	14	M10	18
M8	14	M10	18
M10	25	M10	18
M12	50	M12	20

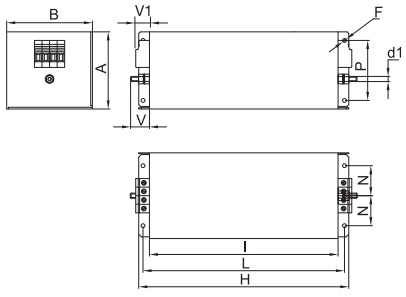
FIN1240

Three Phase + Neutral Filter

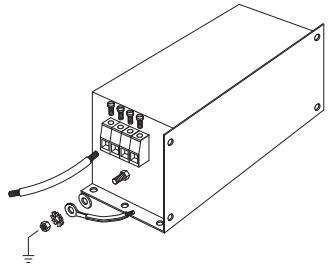
MECHANICAL DIMENSIONS mm

FIN1240	A	B	V	V1	F	H	I	L	N	d1	P	Weight Kg.	Case
.005.M	58	86	19	11	4.5	186	160	176	30	M4	40	1.5	1
.010.M	58	86	19	11	4.5	186	160	176	30	M4	40	1.5	1
.016.M	90	100	19	15	4.5	246	220	235	35	M5	70	2	2
.030.M	90	100	19	15	4.5	246	220	235	35	M5	70	2.5	2
.050.M	90	100	20	25	4.5	246	220	235	35	M6	70	3	3
.080.M	90	185	25	38	6.5	356	320	340	77.5	M8	70	12	4
.100.M	90	185	25	38	6.5	356	320	340	77.5	M8	70	13	4
.150.M	90	220	28	42	6.5	356	320	340	95	M10	70	15	5

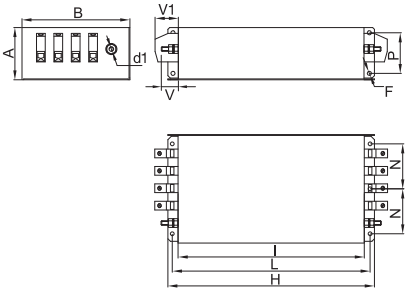
CASE 1, 2, 3



ASSEMBLY CONNECTION “M”



CASE 4, 5



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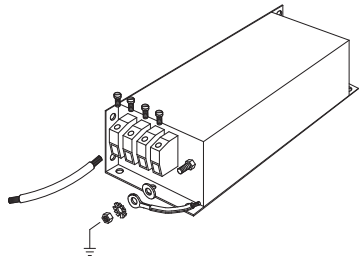
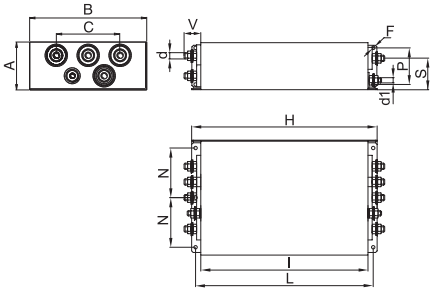


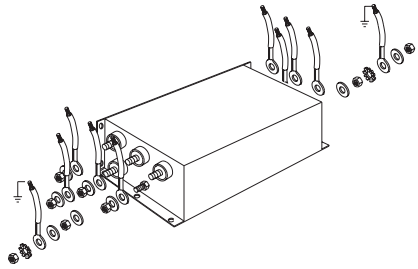
MECHANICAL DIMENSIONS mm

FIN1240	A	B	C	d	d1	d2	d3	V	F	H	I	L	N	P	S	Weight Kg.	Case
.200.V	90	220	120	M10	M10	-	-	30	6.5	356	320	340	95	70	60	20	6
.360.B	130	230	150	M8	M8	10	25	42	6.5	420	380	400	100	100	90	27	7
.500.B	130	230	150	M8	M8	15	30	48	6.5	510	450	480	100	100	90	33.5	8
.750.B	160	250	140	M10	M10	20	40	94	8.5	510	450	480	100	110	110	37	9
.1000.B	210	350	200	M12	M12	20	60	97	8.5	610	550	580	150	160	147	55	10

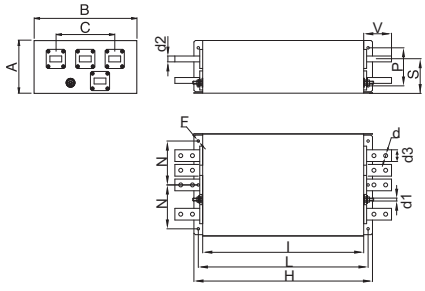
CASE 6



ASSEMBLY CONNECTION "V"



CASE 7, 8, 9, 10



ASSEMBLY CONNECTION "B"