Datasheet 3/2019

EMI/RFI Filter with excellent attenuation for industrial applications

APPROVALS:

c UL us UL1283 CSA C22.2 E215863 RoHS CE

SCCR by UL508A

FIN1500.(005 – 280).V

FEATURES

- Rated current from 5 to 3000A
- Excellent differential and common mode attenuation
- Low leakage current

BENEFITS

- 5 Year warranty
- Various connections
- Finger safe protection available
- Vertical bus bar available

MARKETS

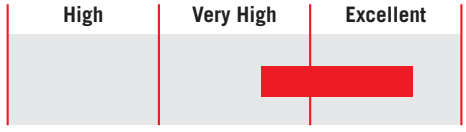
- Electrical equipment
- Machine tools
- Industrial automation
- Variable frequency drives / servo drives
- Regenerative system
- Renewable energy

ORDERING CODE

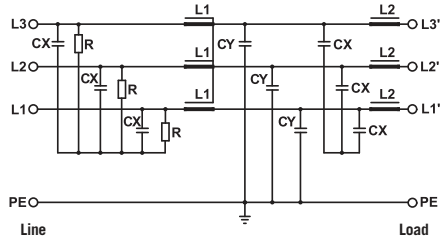
FIN1500(HV)	.100	.V
Model	Current (A)	Connection
HV = 600Vac		V = Screw
		BC = Bus bar

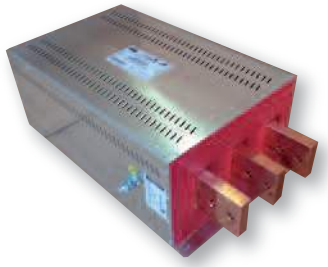
FIN1500.(280 – 1750).BC

ATTENUATION INDICATOR



ELECTRIC DIAGRAM





FIN1500.(1750 – 3000).BC

TECHNICAL SPECIFICATIONS	FIN1500	FIN1500HV
Nominal voltage	0 / 480 Vac	0 / 600 Vac
Frequency	50 – 60 Hz	
Rated current	5 to 3000A	
Potential test voltage phase to phase	2200 Vdc (2 sec.)	2400 Vdc (2 sec.)
Potential test voltage phase to ground	2900 Vdc (2 sec.)	3200 Vdc (2 sec.)
Leakage current normal conditions	<10 mA*	
Leakage current worst conditions	<35 mA	
IP Protection	IP20 up to 280A	
	IP00 over 280A	
	(IP 20 available with protection FINPRT)	
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 50Hz / 40°C**

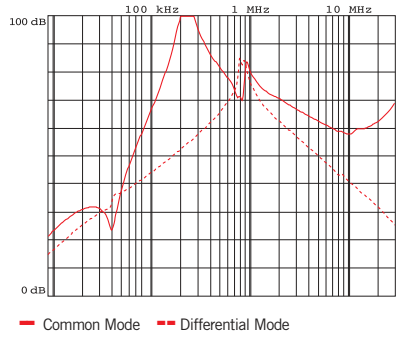
ELECTRICAL CHARACTERISTICS

FIN1500 FIN1500HV	Rated Current 40°C	Rated Current 50°C	Power Loss (W)
.005.V	5	4	5
.010.V	10	8	7
.016.V	16	14	14
.030.V	30	27	11
.050.V	50	46	10
.080.V	80	75	35
.100.V	100	90	42
.150.V	150	140	74
.200.V	200	190	90
.250.V	272	250	90
.280.V	290	280	80
.280.BC	297	280	78
.320.BC	330	320	80
.360.BC	390	360	105
.400.BC	435	400	110
.500.BC	545	500	102
.600.BC	654	600	108
.750.BC	800	750	96
.900.BC	940	900	80
.1000.BC	1050	1000	115
.1250.BC	1290	1250	101
.1500.BC	1550	1500	120
.1600.BC	1650	1600	130
.1750.BC	1800	1750	135
.2000.BC	2050	2000	138
.2250.BC	2300	2250	145
.2500.BC	2550	2500	170
.3000.BC	3000	2950	180

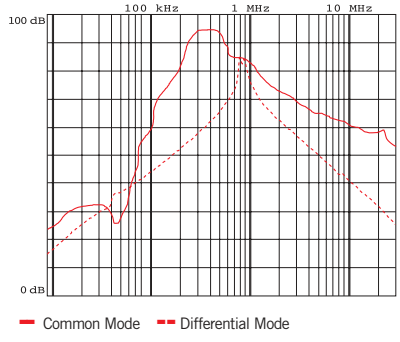
CONNECTIONS

LINE		PE	
d (mm)	Torque (Nm)	d1 (mm)	Torque (Nm)
M4	1.2	M4	1.2
M4	1.2	M4	1.2
M5	4	M5	4
M5	4	M5	4
M6	6	M5	4
M8	14	M8	14
M8	14	M8	14
M10	18	M10	18
M10	18	M10	18
M12	20	M10	18
M12	20	M10	18
M8	14	M10	18
M8	14	M10	18
M8	14	M10	18
M8	14	M10	18
M8	14	M10	18
M10	25	M10	18
M10	25	M10	18
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20
M12	50	M12	20

TYPICAL ATTENUATION



Typical attenuation 5A – 400A

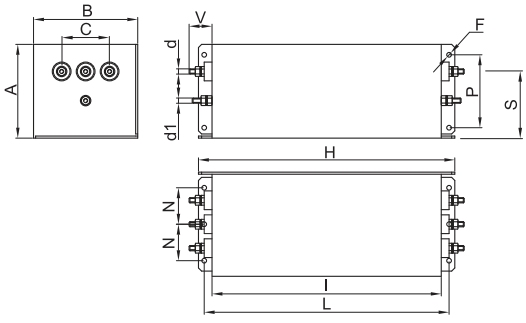


Typical attenuation 500A – 3000A

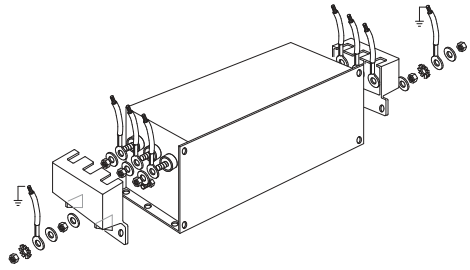
MECHANICAL DIMENSIONS mm

FIN1500 FIN1500HV	A	B	C	d	d1	V	F	H	I	L	N	P	S	Weight Kg.	Case
.005.V	58	86	44	M4	M4	14	4.5	186	160	176	30	40	38	2	1
.010.V	58	86	44	M4	M4	14	4.5	186	160	176	30	40	38	2	1
.016.V	90	100	46	M5	M5	28	4.5	246	220	235	35	70	64	3	2
.030.V	90	100	46	M5	M5	28	4.5	246	220	235	35	70	64	3	2
.050.V	90	100	46	M6	M5	28	4.5	246	220	235	35	70	64	3	3
.080.V	90	185	84	M8	M8	25	6.5	356	320	340	77.5	70	69	5	4
.100.V	90	185	84	M8	M8	25	6.5	356	320	340	77.5	70	69	5	4
.150.V	90	220	120	M10	M10	29	6.5	356	320	340	95	70	60	7	5
.200.V	90	220	120	M10	M10	29	6.5	356	320	340	95	70	60	7	5
.250.V	90	220	120	M12	M10	30	6.5	356	320	340	95	70	60	9	6
.280.V	90	220	120	M12	M10	30	6.5	356	320	340	95	70	60	9	6

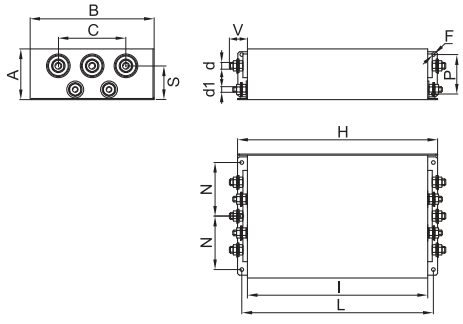
CASE 1, 2, 3, 4



ASSEMBLY CONNECTION “V”



CASE 5, 6



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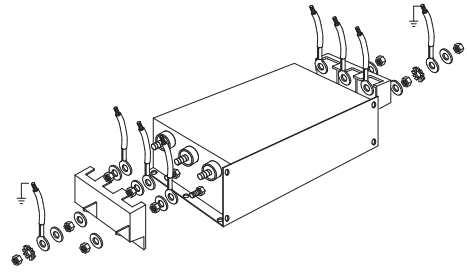
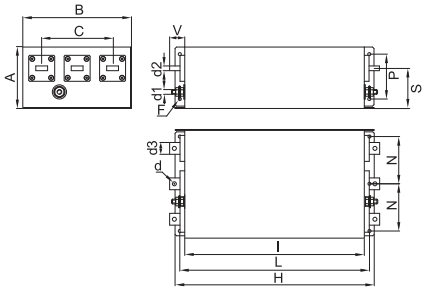


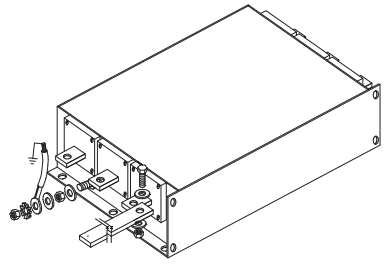
MECHANICAL DIMENSIONS mm

FIN1500 FIN1500HV	A	B	C	d	d1	d2	d3	V	F	H	I	L	N	P	S	Weight Kg.	Case
.280.BC	90	220	120	M8	M10	6	20	42	6.5	356	320	340	95	70	55	9	7
.320.BC	90	220	120	M8	M10	6	20	42	6.5	356	320	340	95	70	55	9	7
.360.BC	130	230	150	M8	M10	10	25	42	6.5	420	380	400	100	100	85	13.5	8
.400.BC	130	230	150	M8	M10	10	25	42	6.5	420	380	400	100	100	85	13.5	8
.500.BC	130	230	150	M8	M10	10	25	42	6.5	420	380	400	100	100	85	13.5	8
.600.BC	130	230	150	M12	M10	15	30	48	6.5	510	450	480	100	100	85	19	9
.750.BC	130	230	150	M12	M10	15	30	48	6.5	510	450	480	100	100	85	19	9
.900.BC	160	250	140	M12	M12	20	40	94	8.5	510	450	480	100	110	110	27	10
.1000.BC	160	250	140	M12	M12	20	40	94	8.5	510	450	480	100	110	110	27	10
.1250.BC	160	250	140	M12	M12	20	40	94	8.5	510	450	480	100	110	110	27	10
.1500.BC	180	300	200	M12	M12	20	60	97	8.5	560	500	530	125	130	117	30	11
.1600.BC	180	300	200	M12	M12	20	60	97	8.5	560	500	530	125	130	117	30	11
.1750.BC	180	300	200	M12	M12	20	60	97	8.5	560	500	530	125	130	117	30	11
.2000.BC	225	350	200	M12	M12	25	80	100	8.5	610	550	580	150	-	113	68	12
.2250.BC	225	350	200	M12	M12	25	80	100	8.5	610	550	580	150	-	113	68	12
.2500.BC	225	350	200	M12	M12	25	80	100	8.5	610	550	580	150	-	113	68	12
.3000.BC	225	350	200	M12	M12	25	80	100	8.5	610	550	580	150	-	113	68	12

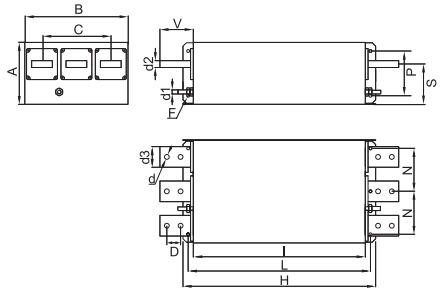
CASE 7, 8, 9



ASSEMBLY CONNECTION "BC"



CASE 10, 11



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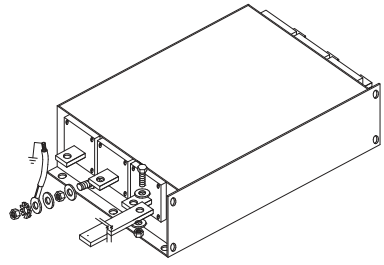
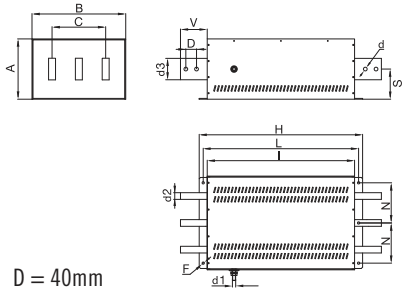


CASE 12



D = 40mm

ASSEMBLY CONNECTION "BC"