

Footprint and Block RFI filters for

OMRON

**JV, MV, JX, MX2, FV, HV, RV, PV, RX,
V1000, A1000, L1000A**

motor inverters

**and R88, Sigma-5, R7D R88D-GT, R88D-KT
servo drives**



MADE IN THE UK

Design and Test Criteria

Generally with motor drive systems, the emission levels are greatly affected by the length of the cable between the drive itself and the motor - longer cables will cause considerably higher emissions.

The inverter / filter combinations here have been designed and tested to achieve compliance to EN 61800-3:1996 and 2004.

Category C1 for drives with <25A input current, when fitted with up to 25m motor output cable

Category C2 for drives with >25A input current or when fitted with up to 50m motor output cable.

Earth Leakage Measurements

In single phase applications the earth leakage current is present all of the time.

For three phase applications under normal conditions with the three phases balanced, earth leakage currents are extremely small - the max values stated are worst possible values such as would occur momentarily during switch on or failure of one or two phases.

Use of Filters with 200V Three Phase Inverters

These filter ranges may also be used with 200V three phase inverters, but care should be taken in the filter selection. The equivalent 200V model of an inverter will require approximately twice the current of the 400V model. For example, the 3G3FV PFI 4012-E filter is suitable for the 3G3FV A2015 drive, but not the 3G3FV A2037, even though the latter will fit. Running a filter on under-voltage is perfectly acceptable, but running at over-current for any extended period is not advisable.

Technical Information

For more technical data, a separate data sheet is available for each filter model. This gives detailed dimensions, circuit diagram and electrical ratings.

Footprint and Block RFI filters for **OMRON** motor inverters and servo drives

Requirements

European legislation on EMC imposes limits on RF emissions from electrical equipment. These power line filters have been specifically developed for use with Omron motor drives, enabling systems incorporating them to meet the European RFI emissions standards for domestic or industrial use.

Ranges Covered

Inverters	200V Single Phase	200V Three Phase	400V Three Phase
JV	0.1 to 1.5kW - footprint type	0.1 to 4.0kW - footprint type	0.2 to 4.0kW - footprint type
MV	0.1 to 4.0kW - footprint type	0.1 to 7.5kW - footprint type	0.2 to 7.5kW - footprint type
JX	0.2 to 2.2kW - footprint type	0.2 to 7.5kW - footprint type	0.4 to 7.5kW - footprint type
MX2	0.1 to 2.2kW - footprint type	0.1 to 15kW - footprint type	0.4 to 15kW - footprint type
FV, HV			0.4 to 15kW - footprint type 18.5 to 300kW - block type
RV, PV		0.4 to 18.5kW - footprint type 22 to 110kW - block type	0.4 to 55kW - footprint type 22 to 300kW - block type
RX		0.4 to 11kW - footprint type 15 to 55kW - block type	0.4 to 30kW - footprint type 37 to 132kW - block type
V1000	0.1 to 4.0kW - footprint type	0.1 to 15kW - footprint type	0.2 to 15kW - footprint type
A1000		0.55 to 22kW - footprint type 22 to 110kW - block type	0.4 to 22kW - footprint type 22 to 355kW - block type
L1000A		4.0 to 18.5kW - footprint type 22 to 45kW - block type	4.0 to 18.5kW - footprint type 22 to 75kW - block type

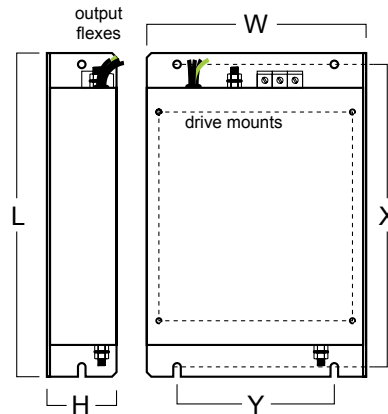
Servo Drives	200V Single Phase	200V Three Phase	400V Three Phase
R88D WT	0.03 to 1.5kW - footprint type		0.5 to 7.5kW - footprint type
Sigma-5	0.05 to 1.5kW - footprint type		0.5 to 15kW - footprint type
R7D	0.1 to 0.75kW - footprint type		
R88D-GT, KT	0.1 to 1.5kW - footprint type	2 to 5kW - footprint type	0.6 to 15kW - footprint type

JV



- The **3G3JV** range, especially for Omron 3G3JV Series inverters.
- Help to ensure EMC compliance of machinery and installations using 3G3JV drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- All filters are designed and manufactured to UL requirements.

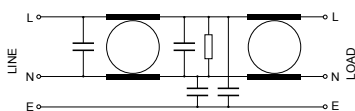
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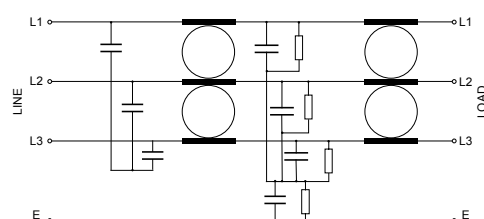
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
3G3JV AB001 3G3JV AB002 3G3JV AB004	3G3JV PFI 1010E	10A	1ph, 250V	7.0mA	169 x 71 x 45	156 x 51	M4
3G3JV AB007 3G3JV AB015	3G3JV PFI 1020E	20A	1ph, 250V	7.0mA	169 x 111 x 50	156 x 91	M4
3G3JV A2001 3G3JV A2002 3G3JV A2004 3G3JV A2007	3G3JV PFI 2010E	10A	3ph, 250V	0.3 / 16mA	194 x 82 x 50	181 x 62	M4
3G3JV A2015 3G3JV A2022	3G3JV PFI 2020E	16A	3ph, 250V	0.3 / 16mA	169 x 111 x 50	156 x 91	M4
3G3JV A2040	3G3JV PFI 2030E	26A	3ph, 250V	0.4 / 30mA	174 x 144 x 50	161 x 120	M4
3G3JV A4002 3G3JV A4004	3G3JV PFI 3005E	5A	3ph, 440V	0.5 / 29mA	169 x 111 x 50	156 x 91	M4
3G3JV A4007 3G3JV A4015 3G3JV A4022	3G3JV PFI 3010E	10A	3ph, 440V	0.5 / 29mA	169 x 111 x 50	156 x 91	M4
3G3JV A4030 3G3JV A4040	3G3JV PFI 3020E	15A	3ph, 440V	0.5 / 29mA	174 x 144 x 50	161 x 120	M4

Typical Circuit Schematics

Single Phase



Three Phase

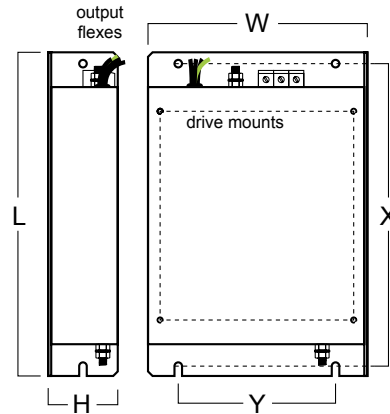


JV(LL)



- The **3G3JV(LL)** range, especially for Omron 3G3JV Series inverters.
- Low leakage current version.
- Help to ensure EMC compliance of machinery and installations using 3G3JV drives on short motor cables, if low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.

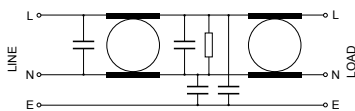
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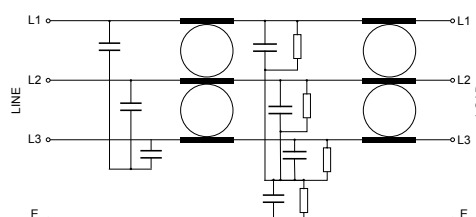
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
3G3JV AB001 3G3JV AB002 3G3JV AB004	3G3JV PFI 1010E(LL)	10A	1ph, 250V	3.5mA	169 x 71 x 45	156 x 51	M4
3G3JV AB007 3G3JV AB015	3G3JV PFI 1020E(LL)	20A	1ph, 250V	3.5mA	169 x 111 x 50	156 x 91	M4
3G3JV A2001 3G3JV A2002 3G3JV A2004 3G3JV A2007	3G3JV PFI 2010E(LL)	10A	3ph, 250V	0.2 / 9mA	194 x 82 x 50	181 x 62	M4
3G3JV A2015 3G3JV A2022	3G3JV PFI 2020E(LL)	16A	3ph, 250V	0.2 / 9mA	169 x 111 x 50	156 x 91	M4
3G3JV A2040	3G3JV PFI 2030E(LL)	26A	3ph, 250V	0.2 / 14mA	174 x 144 x 50	161 x 120	M4
3G3JV A4002 3G3JV A4004	3G3JV PFI 3005E(LL)	5A	3ph, 480V	0.3 / 14mA	169 x 111 x 50	156 x 91	M4
3G3JV A4007 3G3JV A4015 3G3JV A4022	3G3JV PFI 3010E(LL)	10A	3ph, 480V	0.3 / 14mA	169 x 111 x 50	156 x 91	M4
3G3JV A4030 3G3JV A4040	3G3JV PFI 3020E(LL)	15A	3ph, 480V	0.3 / 14mA	174 x 144 x 50	161 x 120	M4

Typical Circuit Schematics

Single Phase



Three Phase

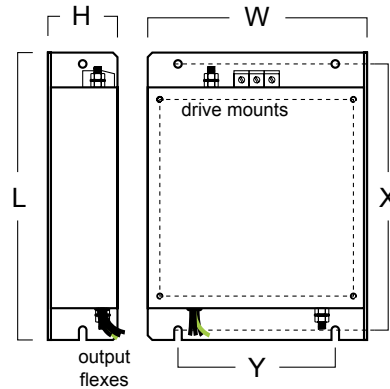


MV



- The **3G3MV** range, especially for Omron MV Series inverters.
- Help to ensure EMC compliance of machinery and installations using MV drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- All filters are designed and manufactured to UL requirements.

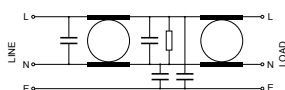
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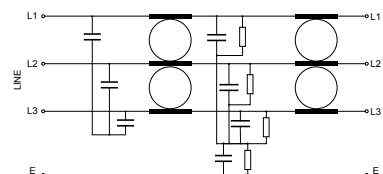
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
3G3MV AB001 3G3MV AB002 3G3MV AB004	3G3MV PFI 1010E	10A	1ph, 250V	7.0mA	169 x 71 x 45	156 x 51	M4
3G3MV AB007 3G3MV AB015	3G3MV PFI 1020E	20A	1ph, 250V	7.0mA	169 x 111 x 50	156 x 91	M4
3G3MV AB022 3G3MV AB040	3G3MV PFI 1030E 3G3MV PFI 1040E	30A 40A	1ph, 250V 1ph, 250V	3.5mA 3.5mA	174 x 144 x 50 174 x 174 x 50	161 x 120 161 x 150	M4 M4
3G3MV A2001 3G3MV A2002 3G3MV A2004 3G3MV A2007	3G3MV PFI 2010E	10A	3ph, 250V	0.3 / 26mA	194 x 82 x 50	181 x 62	M4
3G3MV A2015 3G3MV A2022	3G3MV PFI 2020E	16A	3ph, 250V	0.3 / 16mA	169 x 111 x 50	156 x 91	M4
3G3MV A2040	3G3MV PFI 2030E	26A	3ph, 250V	0.3 / 17mA	174 x 144 x 50	161 x 120	M4
3G3MV A2055 3G3MV A2075	3G3MV PFI 2050E	50A	3ph, 250V	0.6 / 57mA	304 x 184 x 56	288 x 150	M5
3G3MV A4002 3G3MV A4004 3G3MV A4007	3G3MV PFI 3005E	5A	3ph, 480V	0.5 / 29mA	169 x 111 x 45	156 x 91	M4
3G3MV A4015 3G3MV A4022	3G3MV PFI 3010E	10A	3ph, 480V	0.5 / 29mA	169 x 111 x 45	156 x 91	M4
3G3MV A4030 3G3MV 404P0	3G3MV PFI 3020E	15A	3ph, 480V	0.5 / 29mA	174 x 144 x 50	161 x 120	M4
3G3MV A4055 3G3MV A4075	3G3MV PFI 3030E	30A	3ph, 480V	0.7 / 60mA	304 x 184 x 56	288 x 150	M5

Typical Circuit Schematics

Single Phase



Three Phase

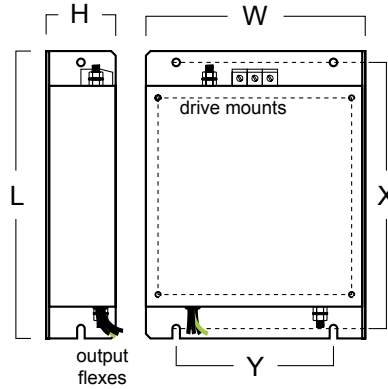


MV(LL)

- The **3G3MV(LL)** range, especially for Omron 3G3MV Series inverters.
- Low leakage current version.
- Help to ensure EMC compliance of machinery and installations using 3G3MV drives on short motor cables, if low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



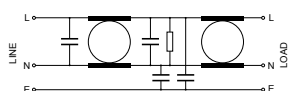
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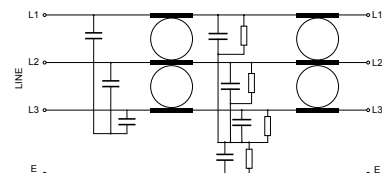
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
3G3MV AB001 3G3MV AB002 3G3MV AB004	3G3MV PFI 1010E(LL)	10A	1ph, 250V	3.5mA	169 x 71 x 45	156 x 51	M5
3G3MV AB007 3G3MV AB015	3G3MV PFI 1020E(LL)	20A	1ph, 250V	3.5mA	169 x 111 x 50	156 x 91	M5
3G3MV AB022 3G3MV AB040	3G3MV PFI 1030E(LL) 3G3MV PFI 1040E(LL)	30A 40A	1ph, 250V	1.8mA 1.8mA	174 x 144 x 50 174 x 174 x 50	161 x 120 161 x 150	M5
3G3MV A2001 3G3MV A2002 3G3MV A2004 3G3MV A2007	3G3MV PFI 2010E(LL)	10A	3ph, 250V	0.2 / 14mA	194 x 82 x 50	181 x 62	M5
3G3MV A2015 3G3MV A2022	3G3MV PFI 2020E(LL)	16A	3ph, 250V	0.2 / 9mA	169 x 111 x 50	156 x 91	M5
3G3MV A2040	3G3MV PFI 2030E(LL)	26A	3ph, 250V	0.2 / 9mA	174 x 144 x 50	161 x 120	M5
3G3MV A2055 3G3MV A2075	3G3MV PFI 2050E(LL)	50A	3ph, 250V	0.4 / 29mA	304 x 184 x 56	288 x 150	M6
3G3MV A4002 3G3MV A4004 3G3MV A4007	3G3MV PFI 3005E(LL)	5A	3ph, 480V	0.3 / 14mA	169 x 111 x 45	156 x 91	M5
3G3MV A4015 3G3MV A4022	3G3MV PFI 3010E(LL)	10A	3ph, 480V	0.3 / 14mA	169 x 111 x 45	156 x 91	M5
3G3MV A4030 3G3MV A4040	3G3MV PFI 3020E(LL)	15A	3ph, 480V	0.3 / 14mA	174 x 144 x 50	161 x 120	M5
3G3MV A4055 3G3MV A4075	3G3MV PFI 3030E(LL)	30A	3ph, 480V	0.5 / 29mA	304 x 184 x 56	288 x 150	M6

Typical Circuit Schematics

Single Phase



Three Phase

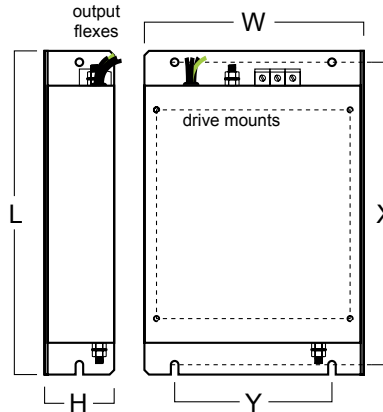


JX

- The **AX-FIJ** range, especially for Omron 3G3JX Series inverters.
- Help to ensure EMC compliance of machinery and installations using 3G3JX drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



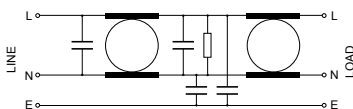
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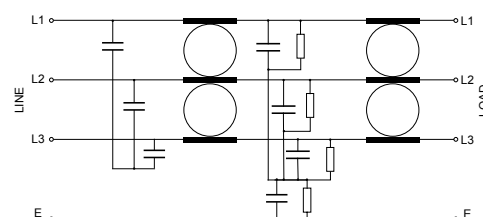
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3JX AE002 3G3JX AE004	AX-FIJ1006-RE	6A	1ph, 250V	7.0mA	193 x 81 x 40	183 x 57	M4	0.5
3G3JX AE007	AX-FIJ1010-RE	10A	1ph, 250V	7.0mA	226 x 112 x 47	216 x 88	M4	0.6
3G3JX AE015 3G3JX AE022	AX-FIJ1023-RE	23A	1ph, 250V	7.0mA	226 x 112 x 47	216 x 88	M4	0.8
3G3JX A2002 3G3JX A2004 3G3JX A2007	AX-FIJ2006-RE	6A	3ph, 250V	0.3 / 16mA	193 x 81 x 50	183 x 57	M4	1.0
3G3JX A2015 3G3JX A2022 3G3JX A2037	AX-FIJ2020-RE	20A	3ph, 250V	1.0 / 50mA	226 x 112 x 50	216 x 88	M4	1.3
3G3JX A2055 3G3JX A2075	AX-FIJ2040-RE	40A	3ph, 250V	1.3 / 65mA	289 x 182 x 55	279 x 150	M5	2.3
3G3JX A4004 3G3JX A4007 3G3JX A4015	AX-FIJ3005-RE	5A	3ph, 480V	0.6 / 70mA	226 x 112 x 45	216 x 88	M4	0.9
3G3JX A4022 3G3JX A4040	AX-FIJ3011-RE	11A	3ph, 480V	0.6 / 70mA	226 x 112 x 45	216 x 88	M4	1.1
3G3JX A4055 3G3JX A4075	AX-FIJ3020-RE	20A	3ph, 480V	0.3 / 40mA	289 x 182 x 50	279 x 150	M5	1.7

Typical Circuit Schematics

Single Phase



Three Phase

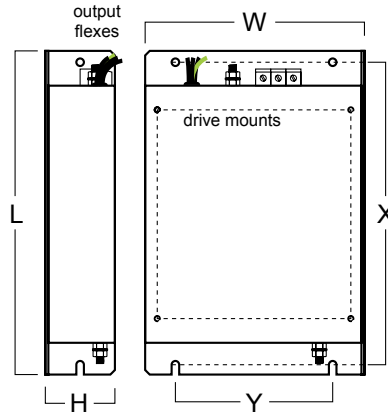


JX(LL)

- The **AX-FIJ(LL)** range, especially for Omron 3G3JX Series inverters.
- Low leakage current version.
- Help to ensure EMC compliance of machinery and installations using 3G3JX drives with short motor cables, if low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



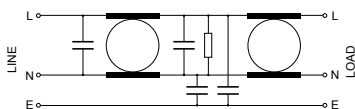
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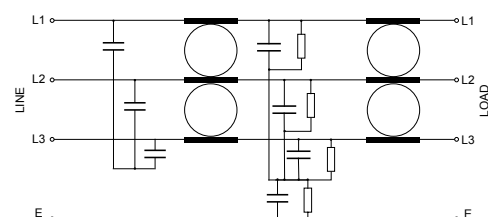
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3JX AE002 3G3JX AE004	AX-FIJ1006-RE-LL	6A	1ph, 250V	3.5mA	193 x 81 x 40	183 x 57	M4	0.5
3G3JX AE007	AX-FIJ1010-RE-LL	10A	1ph, 250V	3.5mA	226 x 112 x 47	216 x 88	M4	0.6
3G3JX AE015 3G3JX AE022	AX-FIJ1023-RE-LL	23A	1ph, 250V	3.5mA	226 x 112 x 47	216 x 88	M4	0.8
3G3JX A2002 3G3JX A2004 3G3JX A2007	AX-FIJ2006-RE-LL	6A	3ph, 250V	0.2 / 8mA	193 x 81 x 50	183 x 57	M4	1.0
3G3JX A2015 3G3JX A2022 3G3JX A2037	AX-FIJ2020-RE-LL	20A	3ph, 250V	0.6 / 25mA	226 x 112 x 50	216 x 88	M4	1.3
3G3JX A2055 3G3JX A2075	AX-FIJ2040-RE-LL	40A	3ph, 250V	0.7 / 33mA	289 x 182 x 55	279 x 150	M5	2.3
3G3JX A4004 3G3JX A4007 3G3JX A4015	AX-FIJ3005-RE-LL	5A	3ph, 480V	0.3 / 35mA	226 x 112 x 45	216 x 88	M4	0.9
3G3JX A4022 3G3JX A4040	AX-FIJ3011-RE-LL	11A	3ph, 480V	0.3 / 35mA	226 x 112 x 45	216 x 88	M4	1.1
3G3JX A4055 3G3JX A4075	AX-FIJ3020-RE-LL	20A	3ph, 480V	0.2 / 20mA	289 x 182 x 50	279 x 150	M5	1.7

Typical Circuit Schematics

Single Phase



Three Phase

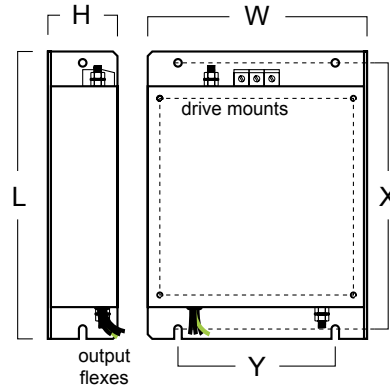


MX2

- The **AX-FIM** range, especially for Omron MX2 Series inverters.
- Help to ensure EMC compliance of machinery and installations using MX2 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



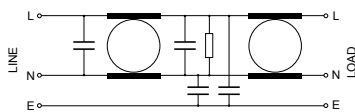
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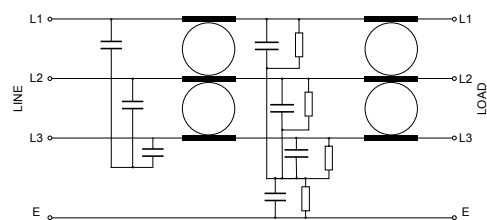
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3MX2-AB001-E 3G3MX2-AB002-E 3G3MX2-AB004-E	AX-FIM1010-RE	10A	1ph, 250V	7.0mA	169 x 71 x 45	156 x 51	M4	0.6
3G3MX2-AB007-E	AX-FIM1014-RE	14A	1ph, 250V	7.0mA	169 x 111 x 50	156 x 91	M4	0.8
3G3MX2-AB015-E 3G3MX2-AB022-E	AX-FIM1024-RE	24A	1ph, 250V	7.0mA	169 x 111 x 50	156 x 91	M4	0.8
3G3MX2-A4004-E 3G3MX2-A4007-E	AX-FIM3005-RE	5A	3ph, 480V	3.0 / 160mA	169 x 114 x 46	156 x 91	M4	1.0
3G3MX2-A4015-E 3G3MX2-A4022-E 3G3MX2-A4030-E	AX-FIM3010-RE	10A	3ph, 480V	3.0 / 160mA	169 x 114 x 46	156 x 91	M4	1.0
3G3MX2-A4040-E	AX-FIM3014-RE	14A	3ph, 480V	3.0 / 160mA	174 x 144 x 50	161 x 120	M4	1.1
3G3MX2-A4055-E 3G3MX2-A4075-E	AX-FIM3030-RE	30A	3ph, 480V	1.0 / 70mA	306 x 150 x 52	290 x 122	M5	2.0
3G3MX2-A4110-E 3G3MX2-A4150-E	AX-FIM3050-RE	50A	3ph, 480V	0.5 / 32mA	357 x 182 x 62	330 x 160	M5	2.8

Typical Circuit Schematics

Single Phase



Three Phase

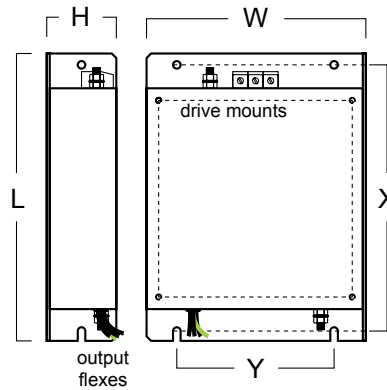


MX2(LL)

- The **AX-FIM-LL** range, especially for Omron MX2 Series inverters.
- Low leakage current version - **ONLY FOR INDUSTRIAL INSTALLATIONS.** C2 compliance only.
- Help to ensure EMC compliance of machinery and installations using MX2 drives on short motor cables, where low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



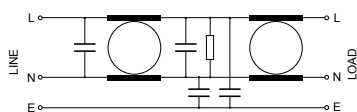
Dimensions



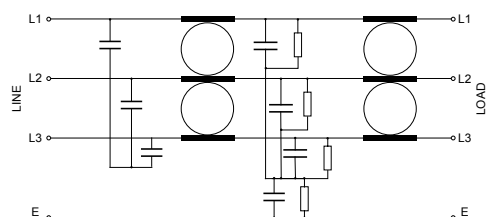
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3MX2-AB001-E 3G3MX2-AB002-E 3G3MX2-AB004-E	AX-FIM1010-RE-LL	10A	1ph, 250V	3.5mA	169 x 71 x 45	156 x 51	M4	0.6
3G3MX2-AB007-E	AX-FIM1014-RE-LL	14A	1ph, 250V	3.5mA	169 x 111 x 50	156 x 91	M4	0.8
3G3MX2-AB015-E 3G3MX2-AB022-E	AX-FIM1024-RE-LL	24A	1ph, 250V	3.5mA	169 x 111 x 50	156 x 91	M4	0.8
3G3MX2-A4004-E 3G3MX2-A4007-E	AX-FIM3005-RE-LL	5A	3ph, 480V	1.5 / 70mA	169 x 114 x 46	156 x 91	M4	1.0
3G3MX2-A4015-E 3G3MX2-A4022-E 3G3MX2-A4030-E	AX-FIM3010-RE-LL	10A	3ph, 480V	1.5 / 70mA	169 x 114 x 46	156 x 91	M4	1.0
3G3MX2-A4040-E	AX-FIM3014-RE-LL	14A	3ph, 480V	1.5 / 70mA	174 x 144 x 50	161 x 120	M4	1.1
3G3MX2-A4055-E 3G3MX2-A4075-E	AX-FIM3030-RE-LL	30A	3ph, 480V	0.3 / 16mA	306 x 150 x 52	290 x 122	M5	2.0
3G3MX2-A4110-E 3G3MX2-A4150-E	AX-FIM3050-RE-LL	50A	3ph, 480V	0.3 / 16mA	357 x 182 x 62	330 x 160	M5	2.8

Typical Circuit Schematics

Single Phase



Three Phase

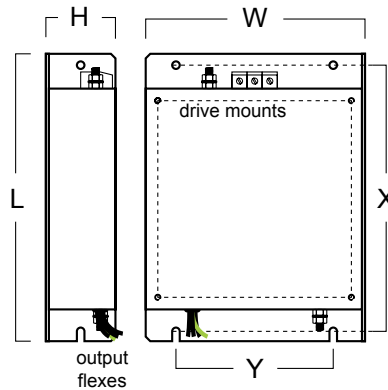


MX2 200V

- The **AX-FIM** range, especially for Omron MX2 Series 200V inverters.
- Help to ensure EMC compliance of machinery and installations using MX2 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.

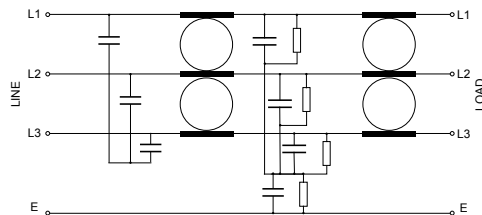


Dimensions



Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3MX2-A2001-E 3G3MX2-A2002-E 3G3MX2-A2004-E 3G3MX2-A2007-E	AX-FIM2010-RE	10A	3ph, 250V	1.0 / 45mA	194 x 82 x 50	181 x 62	M4	0.8
3G3MX2-A2015-E 3G3MX2-A2022-E	AX-FIM2020-RE	16A	3ph, 250V	0.3 / 26mA	169 x 111 x 50	156 x 91	M4	1.1
3G3MX2-A2037-E	AX-FIM2030-RE	30A	3ph, 250V	1.0 / 45mA	174 x 144 x 50	161 x 120	M4	1.2
3G3MX2-A2055-E 3G3MX2-A2075-E	AX-FIM2060-RE	60A	3ph, 250V	1.5 / 80mA	320 x 150 x 52	290 x 122	M5	2.8
3G3MX2-A2110-E	AX-FIM2080-RE	80A	3ph, 250V	1.0 / 45mA	362 x 188 x 62	330 x 160	M5	4.5
3G3MX2-A2150-E	AX-FIM2100-RE	100A	3ph, 250V	1.5 / 80mA	415 x 220 x 62	380 x 192	M6	4.5

Typical Circuit Schematic

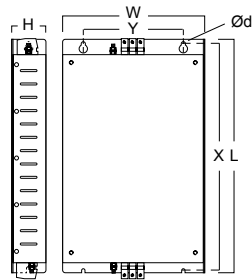


FV

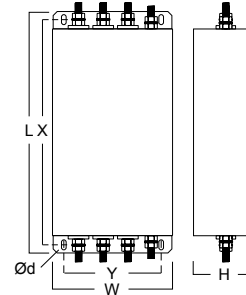
- The **3G3FV** range, especially for Omron 3G3FV and 3G3HV Series inverters.
- Help to ensure EMC compliance of machinery and installations using FV and HV drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets. Block type filters mount beside the inverter.
- All filters are designed and manufactured to UL requirements.



Footprint Dimensions



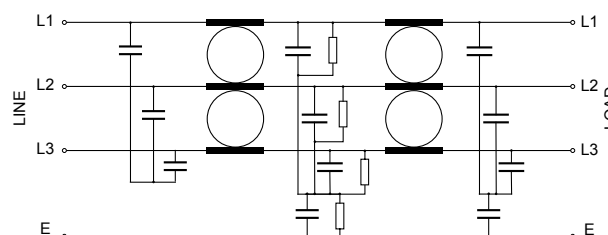
Block Type Dimensions



Three Phase 480Vac

Applied 3G3FV Inverter	Applied 3G3HV Inverter	Filter Part No	Rated Current	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing
3G3FV A4004 3G3FV A4007 3G3FV A4015 3G3FV A4022 3G3FV A4037	3G3HV A4037-E	3G3FV PFI 4012E	12A	0.5 / 40mA	320 x 143 x 46	309 x 90	M4
3G3FV A4055 3G3FV A4075	3G3HV A4055-E 3G3HV A4075-E	3G3FV PFI 4025E	25A	0.5 / 40mA	350 x 213 x 51	332 x 150	M6
3G3FV A4110 3G3FV A4150	3G3HV A4110-E 3G3HV A4150-E	3G3FV PFI 4040E	40A	0.5 / 40mA	435 x 268 x 56	415 x 200	M6
3G3FV B4185 3G3FV B4220 3G3FV B4300	3G3HV B4185-E 3G3HV B4220-E 3G3HV B4300-E	3G3FV PFI 4060E	60A	0.5 / 40mA	270 x 140 x 90	258 x 106	M6
3G3FV B4370	3G3HV B4370-E	3G3FV PFI 4100E	100A	0.5 / 40mA	362 x 180 x 90	338 x 146	M6
3G3FV B4450	3G3HV B4450-E	3G3FV PFI 4120E	120A	1.3 / 150mA	435 x 200 x 130	408 x 166	M6
3G3FV B4550	3G3HV B4550-E	3G3FV PFI 4150E	150A	1.3 / 150mA	435 x 200 x 130	408 x 166	M6
3G3FV B4750-E	3G3HV B4750-E	3G3FV PFI 4180E	180A	1.3 / 150mA	495 x 200 x 160	468 x 166	M6
3G3FV B411K-E	3G3HV B411K-E	3G3FV PFI 4280E	280A	1.3 / 150mA	495 x 200 x 160	468 x 166	M6
3G3FV B416K-E 3G3FV B418K-E	3G3HV B416K-E 3G3HV B418K-E	3G3FV PFI 4450E	450A	1.3 / 150mA	587 x 250 x 205	560 x 170	M6
3G3FV B422K-E	3G3HV B422K-E	3G3FV PFI 4600E	600A	3.0 / 250mA	688 x 364 x 180	648 x 300	M6
3G3FV B430K-E	3G3HV B430K-E	3G3FV PFI 4900E	900A	3.0 / 250mA	688 x 364 x 180	648 x 300	M8

Typical Circuit Schematic

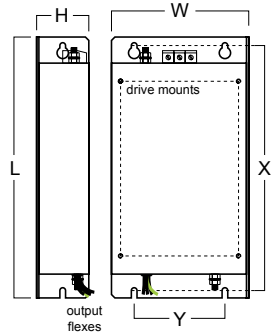


RV 400V

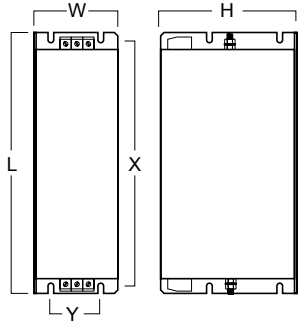


- The **3G3RV 400V** range, for Omron 3G3RV, 3G3PV and L7 400V Series inverters.
- 200V range also available for Omron 3G3RV and 3G3PV 200V Series inverters.
- Help to ensure EMC compliance of machinery and installations using RV, PV and L7 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets. Block type filters mount beside the inverter.
- All filters are designed and manufactured to UL requirements.

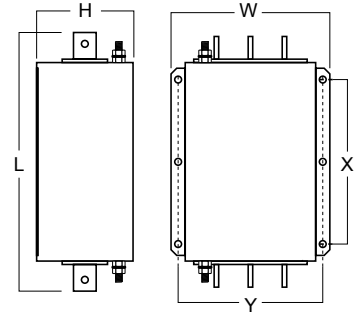
Footprint Dimensions



Book Type Dimensions



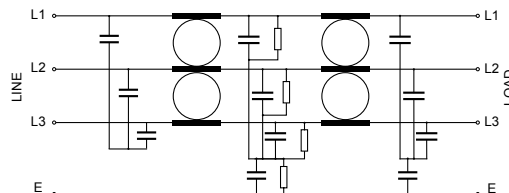
Block Type Dimensions



Three Phase 480Vac

Applied 3G3RV- 3G3PV- Inverter	Applied CIMR-L7 Inverter	Filter Part No	Rated Current	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing
A4004 A4007 A4015 A4022		3G3RV PFI 3010E	10A	0.3mA / 40mA	330 x 143 x 46	313 x 115	M4
A4037 A4055	43P7 45P5	3G3RV PFI 3018E	18A	0.3mA / 40mA	330 x 143 x 46	313 x 115	M4
A4075 A4110	47P5 4011	3G3RV PFI 3035E	35A	0.3mA / 40mA	355 x 213 x 51	336 x 175	M6
A4150 A4185	4015 4018	3G3RV PFI 3060E	60A	0.3mA / 40mA	408 x 238 x 60	390 x 205	M6
B4220 B4300	4022 4030	3G3RV PFI 3070-FP	70A	0.3mA / 40mA	508 x 275 x 65	490 x 220	M6
B4370 B4450	4037 4045	3G3RV PFI 3100-FP	100A	0.3mA / 40mA	631 x 330 x 65	609 x 260	M6
B4550	4055	3G3RV PFI 3130-FP	130A	3mA / 250mA	661 x 330 x 110	631 x 260	M6
B4220 B4300		3G3RV PFI 3070E	70A	0.6mA / 72mA	329 x 80 x 220	314 x 55	M6
B4370 B4450		3G3RV PFI 3100E	100A	1.3mA / 150mA	310 x 90 x 180	295 x 65	M6
B4550		3G3RV PFI 3130E	130A	1.3mA / 150mA	310 x 90 x 180	295 x 65	M6
B4750-E		3G3RV PFI 3170E	170A	2.5mA / 270mA	380 x 120 x 180	365 x 102	M6
B4900-E		3G3RV PFI 3200E	200A	2.5mA / 270mA	518 x 130 x 240	498 x 90	M8
B411K-E		3G3RV PFI 3250E	250A	2.5mA / 270mA	518 x 130 x 240	498 x 90	M8
B413K-E		3G3RV PFI 3320E	320A	10mA / 500mA	386 x 260 x 135	240 x 235	M10
B416K-E		3G3RV PFI 3400E	400A	10mA / 500mA	386 x 260 x 135	240 x 235	M10
B422K-E		3G3RV PFI 3600E	600A	10mA / 500mA	386 x 260 x 135	240 x 235	M10
B430K-E		3G3RV PFI 3800E	800A	10mA / 500mA	456 x 280 x 150	290 x 255	M10

Typical Circuit Schematic

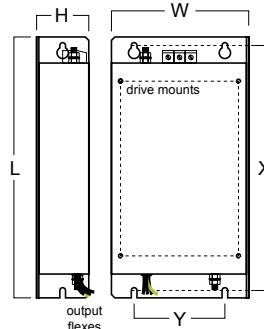


RV 400V(LL)

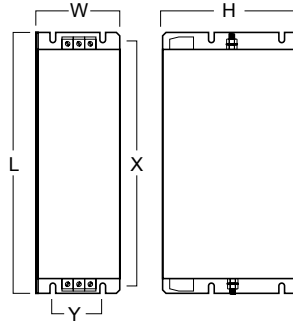


- The **3G3RV 400V** range, especially for Omron 3G3RV and 3G3PV 400V Series inverters.
- Low leakage current version
- Help to ensure EMC compliance of machinery and installations using RV and PV drives on short motor cables, if low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets. Block type filters mount beside the inverter.

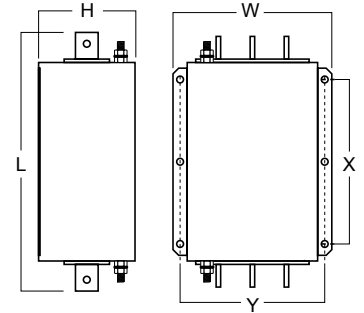
Footprint Dimensions



Book Type Dimensions



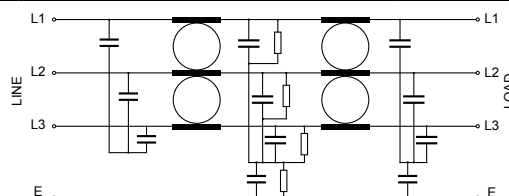
Block Type Dimensions



Three Phase 480Vac

Applied 3G3RV Inverter	Applied 3G3PV Inverter	Filter Part No	Rated Current	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing
3G3RV A4004 3G3RV A4007 3G3RV A4015 3G3RV A4022	3G3PV A4004 3G3PV A4007 3G3PV A4015 3G3PV A4022	3G3RV PFI 3010E(LL)	10A	0.2mA / 20mA	330 x 143 x 46	313 x 115	M4
3G3RV A4037 3G3RV A4055	3G3PV A4037 3G3PV A4055	3G3RV PFI 3018E(LL)	18A	0.2mA / 20mA	330 x 143 x 46	313 x 115	M4
3G3RV A4075 3G3RV A4110	3G3PV A4075 3G3PV A4110	3G3RV PFI 3035E(LL)	35A	0.2mA / 20mA	355 x 213 x 51	336 x 175	M6
3G3RV A4150 3G3RV A4185	3G3PV A4150 3G3PV A4185	3G3RV PFI 3060E(LL)	60A	0.2mA / 20mA	408 x 238 x 60	390 x 205	M6
3G3RV B4220 3G3RV B4300	3G3PV B4220 3G3PV B4300	3G3RV PFI 3070-FP(LL)	70A	0.2mA / 20mA	508 x 275 x 65	490 x 220	M6
3G3RV B4370 3G3RV B4450	3G3PV B4370 3G3PV B4450	3G3RV PFI 3100-FP(LL)	100A	0.2mA / 20mA	631 x 330 x 65	609 x 260	M6
3G3RV B4550	3G3PV B4550	3G3RV PFI 3130-FP(LL)	130A	2mA / 125mA	661 x 330 x 110	631 x 260	M6
3G3RV B4220 3G3RV B4300	3G3PV B4220 3G3PV B4300	3G3RV PFI 3070E(LL)	70A	0.3mA / 40mA	329 x 80 x 220	314 x 55	M6
3G3RV B4370 3G3RV B4450	3G3PV B4370 3G3PV B4450	3G3RV PFI 3100E(LL)	100A	0.8mA / 75mA	310 x 90 x 180	295 x 65	M6
3G3RV B4550	3G3PV B4550	3G3RV PFI 3130E(LL)	130A	0.8mA / 75mA	310 x 90 x 180	295 x 65	M6
3G3RV B4750-E	3G3PV B4750-E	3G3RV PFI 3170E(LL)	170A	1.3mA / 130mA	380 x 120 x 180	365 x 102	M6
3G3RV B4900-E	3G3PV B4900-E	3G3RV PFI 3200E(LL)	200A	1.3mA / 130mA	518 x 130 x 240	498 x 90	M8
3G3RV B411K-E	3G3PV B411K-E	3G3RV PFI 3250E(LL)	250A	1.3mA / 130mA	518 x 130 x 240	498 x 90	M8
3G3RV B413K-E	3G3PV B413K-E	3G3RV PFI 3320E(LL)	320A	5mA / 250mA	386 x 260 x 135	240 x 235	M10
3G3RV B416K-E	3G3PV B416K-E	3G3RV PFI 3400E(LL)	400A	5mA / 250mA	386 x 260 x 135	240 x 235	M10
3G3RV B422K-E	3G3PV B422K-E	3G3RV PFI 3600E(LL)	600A	5mA / 250mA	386 x 260 x 135	240 x 235	M10
3G3RV B430K-E	3G3PV B430K-E	3G3RV PFI 3800E(LL)	800A	5mA / 250mA	456 x 280 x 150	290 x 255	M10

Typical Circuit Schematic

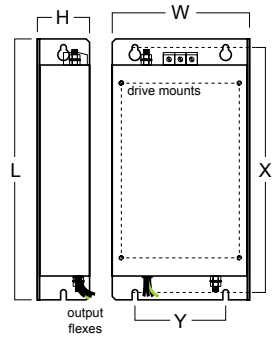


RV 200V

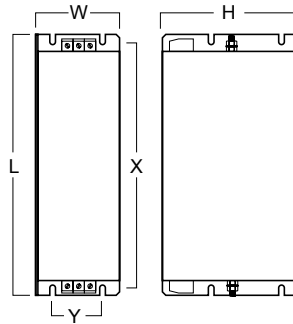


- The 3G3RV 200V range, especially for Omron 3G3RV, 3G3PV and L7 200V Series inverters.
- Help to ensure EMC compliance of machinery and installations using RV, PV and L7 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets. Block type filters mount beside the inverter.
- All filters are designed and manufactured to UL requirements.

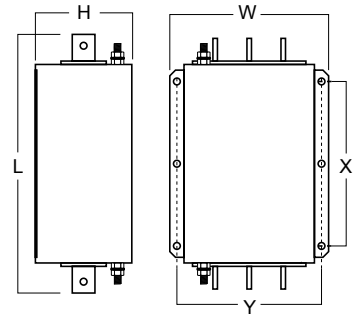
Footprint Dimensions



Book Type Dimensions



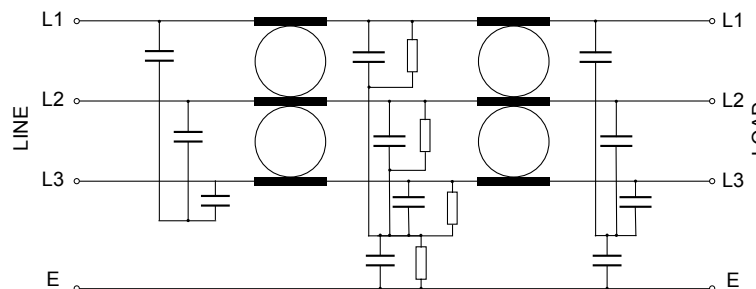
Block Type Dimensions



Three Phase 250Vac

Applied 3G3RV- 3G3PV-Inverter	Applied CIMR-L7 Inverter	Filter Part No	Rated Current	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing
A2004-E A2007-E A2015-E		3G3RV PFI 3010E	10A	0.2mA / 22mA	330 x 143 x 46	313 x 115	M4
A2022-E		3G3RV PFI 3018E	18A	0.2mA / 22mA	330 x 143 x 46	313 x 115	M4
A2037-E A2055-E	23P7 25P5	3G3RV PFI 2035E	35A	0.4mA / 45mA	330 x 143 x 46	313 x 115	M4
A2075-E A2110-E	27P5 2011	3G3RV PFI 2060E	60A	0.7mA / 80mA	355 x 213 x 60	336 x 175	M6
A2150-E A2185-E	2015 2018	3G3RV PFI 2100E	100A	0.7mA / 80mA	408 x 238 x 80	390 x 205	M6
x2220-E x2300-E	2022 2030	3G3RV PFI 2130E	130A	0.7mA / 80mA	310 x 90 x 180	295 x 65	M6
x2370-E	2037	3G3RV PFI 2160E	160A	1.3mA / 140mA	380 x 120 x 170	365 x 102	M6
x2450-E	2045	3G3RV PFI 2200E	200A	1.3mA / 140mA	518 x 130 x 240	498 x 90	M8
x2550-E	2055	3G3RV PFI 2250E	250A	1.3mA / 140mA	518 x 130 x 240	498 x 90	M8
x2750-E		3G3RV PFI 3320E	320A	5mA / 250mA	386 x 260 x 135	240 x 235	M10
x2900-E		3G3RV PFI 3400E	400A	5mA / 250mA	386 x 260 x 135	240 x 235	M10
B211K-E		3G3RV PFI 3600E	600A	5mA / 250mA	386 x 260 x 135	240 x 235	M10

Typical Circuit Schematic

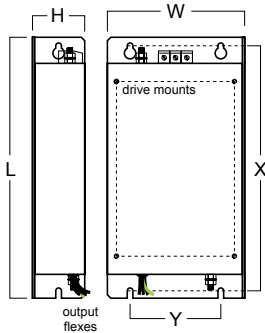


RX 200V

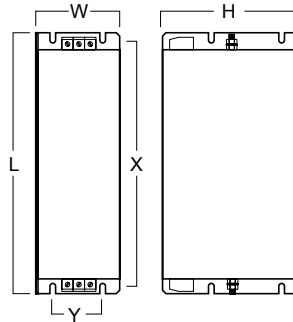
- The **AX-FIR** range, especially for Omron RX Series inverters.
- Help to ensure EMC compliance of machinery and installations using RX drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



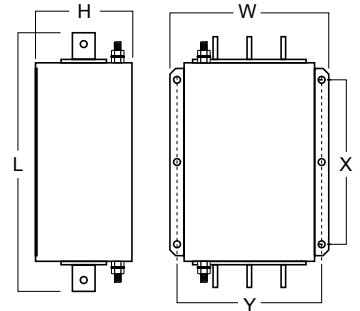
Footprint Dimensions



Book Type Dimensions

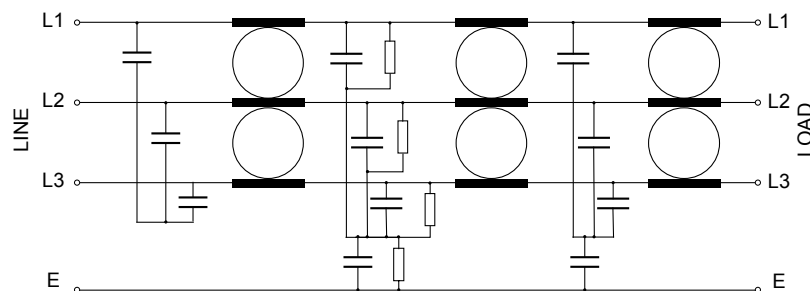


Block Type Dimensions



Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3RX A2004 3G3RX A2007 3G3RX A2015 3G3RX A2022 3G3RX A2037	AX-FIR2018-RE	18A	3ph, 250V	0.7mA / 40mA	305 x 152 x 45	290 x 110	M5	2.0
3G3RX A2055 3G3RX A2075 3G3RX A2110	AX-FIR2053-RE	53A	3ph, 250V	0.7mA / 40mA	320 x 212 x 56	296 x 189	M6	2.5
3G3RX A2150 3G3RX A2185 3G3RX A2220	AX-FIR2110-RE	110A	3ph, 250V	1.2mA / 70mA	486 x 110 x 240	414 x 80	-	8.0
3G3RX A2300	AX-FIR2145-RE	145A	3ph, 250V	1.2mA / 70mA	486 x 110 x 240	414 x 80	-	8.6
3G3RX A2370 3G3RX A2450	AX-FIR3250-RE	250A	3ph, 250V	6mA/300mA	386 x 260 x 135	240 x 235	-	13.0
3G3RX A2550	AX-FIR3320-RE	320A	3ph, 250V	6mA/300mA	386 x 260 x 135	240 x 235	-	13.2

Typical Circuit Schematic

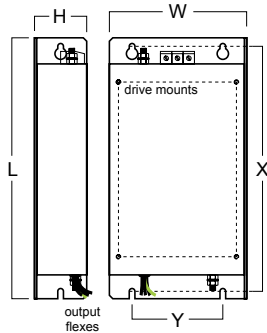


RX

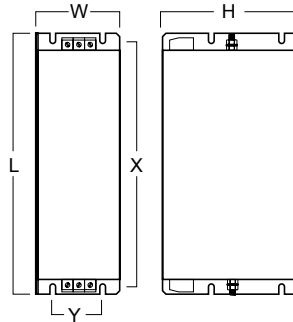
- The **AX-FIR** range, especially for Omron RX Series inverters.
- Help to ensure EMC compliance of machinery and installations using RX drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.



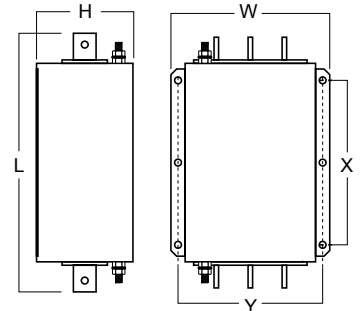
Footprint Dimensions



Book Type Dimensions

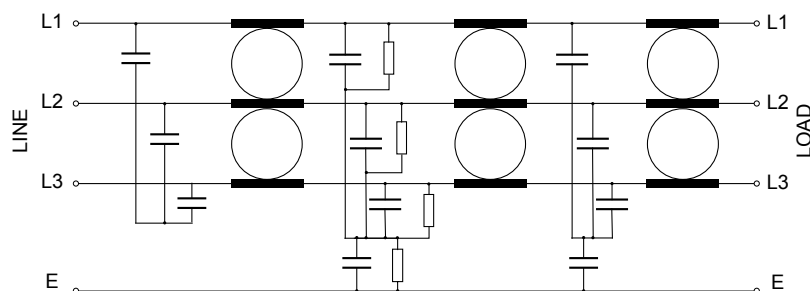


Block Type Dimensions



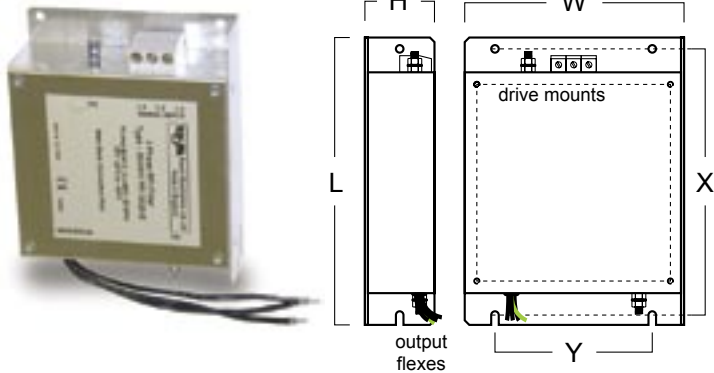
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
3G3RX A4004 3G3RX A4007 3G3RX A4015 3G3RX A4022 3G3RX A4040	AX-FIR3010-RE	10A	3ph, 480V	0.8mA / 70mA	305 x 152 x 45	290 x 110	M5	1.4
3G3RX A4055 3G3RX A4075 3G3RX A4110	AX-FIR3030-RE	30A	3ph, 480V	0.3mA / 40mA	312 x 212 x 50	296 x 189	M6	2.2
3G3RX A4150 3G3RX A4185 3G3RX A4220	AX-FIR3053-RE	53A	3ph, 480V	0.8mA / 70mA	451 x 252 x 60	435 x 229	M6	4.5
3G3RX A4300	AX-FIR3064-RE	64A	3ph, 480V	3mA / 160mA	598 x 310 x 70	578 x 265	M8	7.0
3G3RX A4370	AX-FIR3100-RE	100A	3ph, 480V	3mA / 160mA	486 x 110 x 240	414 x 80	-	8.0
3G3RX A4450 3G3RX A4550	AX-FIR3130-RE	130A	3ph, 480V	3mA / 160mA	486 x 110 x 240	414 x 80	-	8.6
3G3RX A4750 3G3RX A4900	AX-FIR3250-RE	250A	3ph, 480V	10mA/500mA	386 x 260 x 135	240 x 235	-	13.0
3G3RX A41100 3G3RX A41320	AX-FIR3320-RE	320A	3ph, 480V	10mA/500mA	386 x 260 x 135	240 x 235	-	13.2

Typical Circuit Schematic



V1000

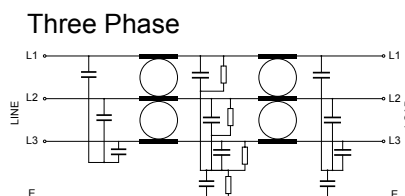
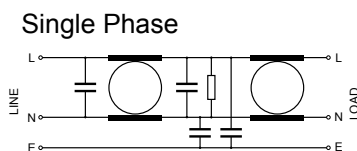
Dimensions



- The **A1000-FIV** range, especially for Omron V1000 Series inverters.
- Help to ensure EMC compliance of machinery and installations using V1000 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- All filters are designed and manufactured to UL requirements.

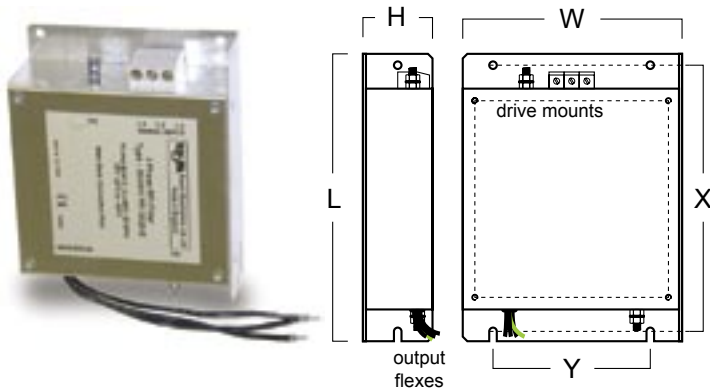
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
VZAB0P1 VZAB0P2 VZAB0P4	A1000-FIV1010-RE	10A	1ph, 250V	7.0mA	169 x 71 x 45	156 x 51	M4
VZAB0P7 VZAB1P5	A1000-FIV1020-RE	20A	1ph, 250V	7.0mA	169 x 111 x 50	156 x 91	M4
VZAB2P2	A1000-FIV1030-RE	30A	1ph, 250V	3.5mA	174 x 144 x 50	161 x 120	M4
VZAB4P0	A1000-FIV1040-RE	40A	1ph, 250V	3.5mA	174 x 174 x 50	161 x 150	M4
VZA20P1 VZA20P2 VZA20P4 VZA20P7	A1000-FIV2010-RE	10A	3ph, 250V	0.3 / 26mA	194 x 82 x 50	181 x 62	M4
VZA21P5 VZA22P2	A1000-FIV2020-RE	16A	3ph, 250V	0.3 / 26mA	169 x 111 x 50	156 x 91	M4
VZA24P0	A1000-FIV2030-RE	26A	3ph, 250V	1.0 / 45mA	174 x 144 x 50	161 x 120	M4
VZA25P5 VZA27P5	A1000-FIV2060-RE	60A	3ph, 250V	1.0 / 45mA	320 x 150 x 52	290 x 122	M5
VZA2011	A1000-FIV2080-RE	80A	3ph, 250V	1.0 / 45mA	362 x 188 x 62	330 x 160	M5
VZA2015	A1000-FIV2100-RE	100A	3ph, 250V	1.0 / 45mA	415 x 220 x 62	380 x 192	M6
VZA40P2 VZA40P4 VZA40P7	A1000-FIV3005-RE	5A	3ph, 480V	0.5 / 29mA	169 x 111 x 45	156 x 91	M4
VZA41P5 VZA42P2 VZA43P0	A1000-FIV3010-RE	10A	3ph, 480V	0.5 / 29mA	169 x 111 x 45	156 x 91	M4
VZA44P0	A1000-FIV3020-RE	15A	3ph, 480V	1.0 / 70mA	174 x 144 x 50	161 x 120	M4
VZA45P5 VZA47P5	A1000-FIV3030-RE	30A	3ph, 480V	1.0 / 70mA	306 x 150 x 52	290 x 122	M5
VZA4011 VZA4015	A1000-FIV3050-RE	50A	3ph, 480V	0.5 / 32mA	357 x 182 x 62	330 x 160	M5

Typical Circuit Schematics



V1000(LL)

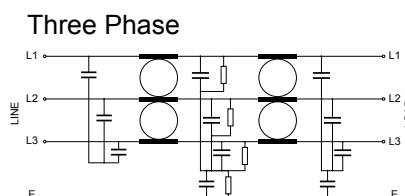
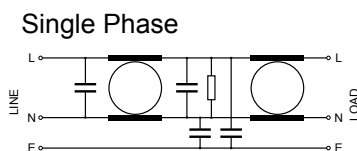
Dimensions



- The **A1000-FIV** range, especially for Omron V1000 Series inverters.
- Low leakage current version.
- Help to ensure EMC compliance of machinery and installations using V1000 drives on short motor cables, if low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.

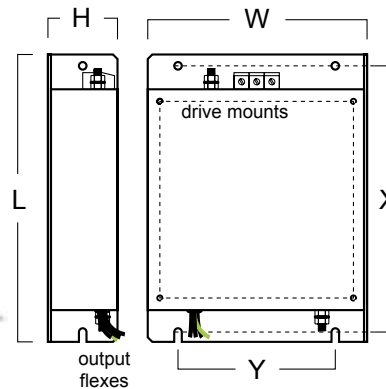
Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
VZAB0P1 VZAB0P2 VZAB0P4	A1000-FIV1010-RE(LL)	10A	1ph, 250V	3.5mA	169 x 71 x 45	156 x 51	M4
VZAB0P7 VZAB1P5	A1000-FIV1020-RE(LL)	20A	1ph, 250V	3.5mA	169 x 111 x 50	156 x 91	M4
VZAB2P2	A1000-FIV1030-RE(LL)	30A	1ph, 250V	1.8mA	174 x 144 x 50	161 x 120	M4
VZAB4P0	A1000-FIV1040-RE(LL)	40A	1ph, 250V	1.8mA	174 x 174 x 50	161 x 150	M4
VZA20P1 VZA20P2 VZA20P4 VZA20P7	A1000-FIV2010-RE(LL)	10A	3ph, 250V	0.2 / 13mA	194 x 82 x 50	181 x 62	M4
VZA21P5 VZA22P2	A1000-FIV2020-RE(LL)	16A	3ph, 250V	0.2 / 13mA	169 x 111 x 50	156 x 91	M4
VZA24P0	A1000-FIV2030-RE(LL)	26A	3ph, 250V	0.3 / 23mA	174 x 144 x 50	161 x 120	M4
VZA25P5 VZA27P5	A1000-FIV2060-RE(LL)	60A	3ph, 250V	0.3 / 23mA	320 x 150 x 52	290 x 122	M5
VZA2011	A1000-FIV2080-RE(LL)	80A	3ph, 250V	0.3 / 23mA	362 x 188 x 62	330 x 160	M5
VZA2015	A1000-FIV2100-RE(LL)	100A	3ph, 250V	0.3 / 23mA	415 x 220 x 62	380 x 192	M6
VZA40P2 VZA40P4 VZA40P7	A1000-FIV3005-RE(LL)	5A	3ph, 480V	0.3 / 15mA	169 x 111 x 45	156 x 91	M4
VZA41P5 VZA42P2 VZA43P0	A1000-FIV3010-RE(LL)	10A	3ph, 480V	0.3 / 15mA	169 x 111 x 45	156 x 91	M4
VZA44P0	A1000-FIV3020-RE(LL)	15A	3ph, 480V	0.5 / 35mA	174 x 144 x 50	161 x 120	M4
VZA45P5 VZA47P5	A1000-FIV3030-RE(LL)	30A	3ph, 480V	0.3 / 16mA	306 x 150 x 52	290 x 122	M5
VZA4011 VZA4015	A1000-FIV3050-RE(LL)	50A	3ph, 480V	0.3 / 16mA	357 x 182 x 62	330 x 160	M5

Typical Circuit Schematics



V1000(IT)

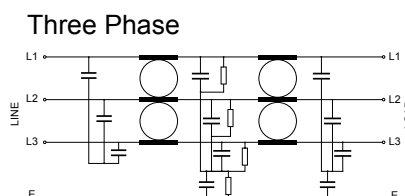
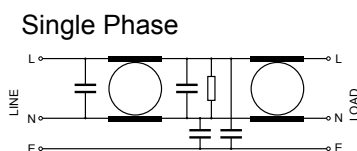
Dimensions



- The **A1000-FIV** range, especially for Omron V1000 Series inverters.
- Very low leakage current version for IT networks.
- Help to reduce emissions of machinery and installations using V1000 drives on IT networks, where very low leakage current is required.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.

Applied Inverter	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing
VZAB0P1 VZAB0P2 VZAB0P4	A1000-FIV1010-RE(IT)	10A	1ph, 250V	20µA	169 x 71 x 45	156 x 51	M4
VZAB0P7 VZAB1P5	A1000-FIV1020-RE(IT)	20A	1ph, 250V	20µA	169 x 111 x 50	156 x 91	M4
VZAB2P2	A1000-FIV1030-RE(IT)	30A	1ph, 250V	20µA	174 x 144 x 50	161 x 120	M4
VZAB4P0	A1000-FIV1040-RE(IT)	40A	1ph, 250V	20µA	174 x 174 x 50	161 x 150	M4
VZA20P1 VZA20P2 VZA20P4 VZA20P7	A1000-FIV2010-RE(IT)	10A	3ph, 250V	2 / 200µA	194 x 82 x 50	181 x 62	M4
VZA21P5 VZA22P2	A1000-FIV2020-RE(IT)	16A	3ph, 250V	2 / 200µA	169 x 111 x 50	156 x 91	M4
VZA24P0	A1000-FIV2030-RE(IT)	26A	3ph, 250V	2 / 120µA	174 x 144 x 50	161 x 120	M4
VZA25P5 VZA27P5	A1000-FIV2060-RE(IT)	60A	3ph, 250V	3 / 220µA	320 x 150 x 52	290 x 122	M5
VZA2011	A1000-FIV2080-RE(IT)	80A	3ph, 250V	3 / 220µA	362 x 188 x 62	330 x 160	M5
VZA2015	A1000-FIV2100-RE(IT)	100A	3ph, 250V	3 / 220µA	415 x 220 x 62	380 x 192	M6
VZA40P2 VZA40P4 VZA40P7	A1000-FIV3005-RE(IT)	5A	3ph, 480V	2 / 200µA	169 x 111 x 45	156 x 91	M4
VZA41P5 VZA42P2 VZA43P0	A1000-FIV3010-RE(IT)	10A	3ph, 480V	2 / 200µA	169 x 111 x 45	156 x 91	M4
VZA44P0	A1000-FIV3020-RE(IT)	15A	3ph, 480V	3 / 200µA	174 x 144 x 50	161 x 120	M4
VZA45P5 VZA47P5	A1000-FIV3030-RE(IT)	30A	3ph, 480V	5 / 400µA	306 x 150 x 52	290 x 122	M5
VZA4011 VZA4015	A1000-FIV3050-RE(IT)	50A	3ph, 480V	5 / 400µA	357 x 182 x 62	330 x 160	M5

Typical Circuit Schematics

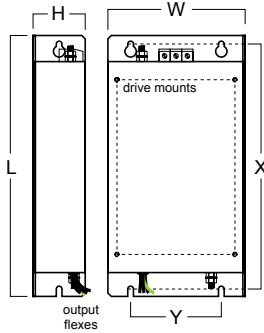


A1000

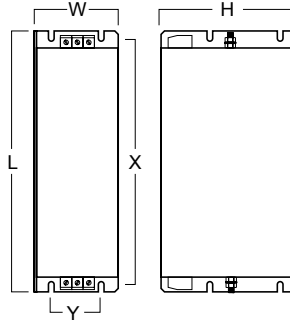
- The **A1000-FIA** range, especially for Omron A1000 Series inverters.
- Help to ensure EMC compliance of machinery and installations using A1000 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- Book-style filters mount beside the inverter.



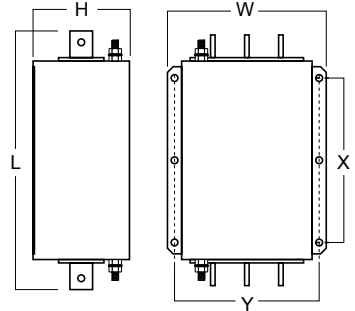
Footprint Dimensions



Book Type Dimensions

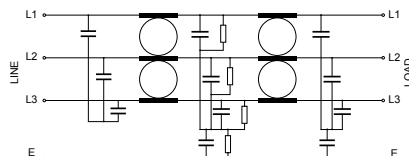


Block Type Dimensions



Inverter CIMR-AC Normal Duty	Inverter CIMR-AC Heavy Duty	Motor kW	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
4A0002	4A0002	0.4	A1000-FIA3024-RE	24A	3ph, 480V	1.0 / 70mA	306 x 150 x 52	290 x 122	M5	2.0
4A0004	4A0004	0.75								
4A0005	4A0005	1.5								
4A0007	4A0007	2.2								
4A0009	4A0009	3.0								
4A0011	4A0011	4.0								
4A0018	4A0018	5.5								
4A0023	4A0023	7.5								
4A0023	4A0023	11								
4A0031	4A0031	11	A1000-FIA3044-RE	44A	3ph, 480V	0.5 / 32mA	357 x 182 x 62	330 x 160	M5	2.8
4A0038	4A0038	15								
4A0044	4A0044	18.5	A1000-FIA3052-RE	52A	3ph, 480V	2.0 / 150mA	415 x 220 x 62	380 x 192	M6	3.9
4A0044	4A0044	22								
4A0058	4A0058	22	A1000-FIA3071-RE	71A	3ph, 480V	0.7 / 70mA	329 x 80 x 220	314 x 55	M6	5.3
4A0072	4A0072	30								
4A0088	4A0088	37	A1000-FIA3105-RE	105A	3ph, 480V	0.7 / 70mA	379 x 90 x 220	364 x 65	M6	6.5
4A0103	4A0103	45								
4A0139	4A0139	55	A1000-FIA3170-RE	170A	3ph, 480V	1.3 / 130mA	429 x 110 x 240	414 x 80	M6	9
4A0165	4A0165	75								
4A0208	4A0208	90								
4A0250	4A0250	110	A1000-FIA3300-RE	300A	3ph, 480V	10 / 500mA	386 x 260 x 135	120 x 235	M10	13.2
4A0296	4A0296	132								
4A0362	4A0362	160	A1000-FIA3480-RE	480A	3ph, 480V	10 / 500mA	386 x 260 x 135	120 x 235	M10	13.6
4A0414	4A0414	185								
4A0515	4A0515	220								
4A0675	4A0675	250	A1000-FIA3660-RE	660A	3ph, 480V	10 / 500mA	456 x 280 x 170	290 x 255	M10	23.7
4A0675	4A0675	355								

Typical Circuit Schematic

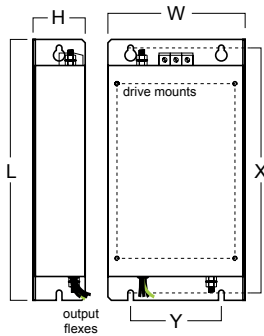


A1000 200V

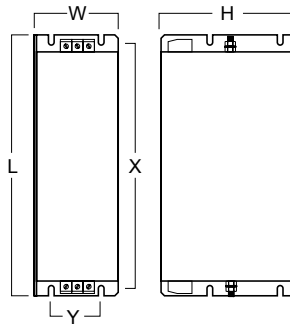
- The **A1000-FIA** range, especially for Omron A1000 Series inverters.
- Help to ensure EMC compliance of machinery and installations using A1000 drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- Book-style filters mount beside the inverter.



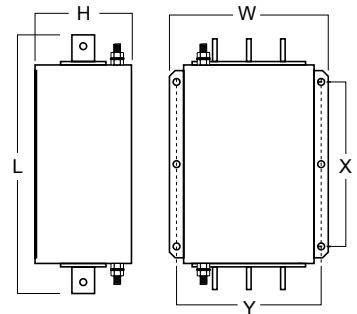
Footprint Dimensions



Book Type Dimensions

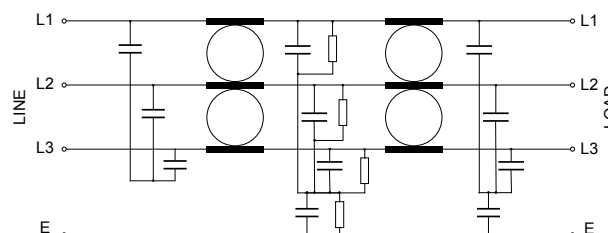


Block Type Dimensions



Inverter CIMR-AC Normal Duty	Inverter CIMR-AC Heavy Duty	Motor kW	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
2A0004 2A0006	2A0004 2A0006	0.55 1.1	A1000-FIA3024-RE	24A	3ph, 480V	1.0 / 40mA	306 x 150 x 52	290 x 122	M5	2.0
2A0010 2A0012	2A0010 2A0012	1.5 2.2 3.0 4.0 5.5								
2A0021	2A0021									
2A0030 2A0040	2A0030 2A0040	5.5 7.5 11								
2A0056	2A0056	11 15								
2A0069 2A0081	2A0069 2A0081	15 18.5 22								
2A0110 2A0138 2A0169	2A0110 2A0138 2A0169 2A0211	22 30 37 45	A1000-FIA3170-RE	170A	3ph, 480V	1.0 / 80mA	429 x 110 x 240	414 x 80	M6	9.0
2A0211 2A0250	2A0250 2A0312	55 75	A1000-FIA3300-RE	300A	3ph, 480V	6 / 300mA	386 x 260 x 135	120 x 235	M10	13.2
2A0312 2A0360 2A0415	2A0360 2A0415	90 110	A1000-FIA3480-RE	480A	3ph, 480V	6 / 300mA	386 x 260 x 135	120 x 235	M10	13.6

Typical Circuit Schematic

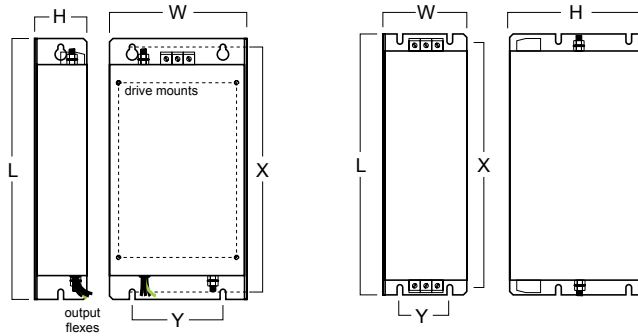


L1000A

- The **A1000-FIA** range, for Omron L1000A Series inverters.
- Help to ensure EMC compliance of lift installations using L1000A drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- Book-style filters mount beside the inverter.

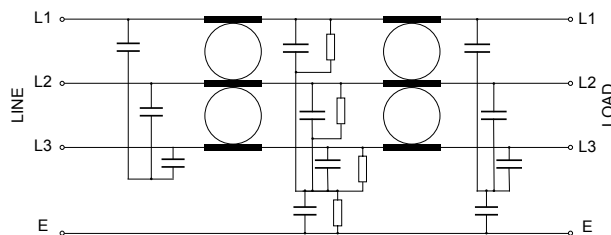


Dimensions



Inverter CIMR-LC	Motor kW	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
4A0009 4A0015 4A0018	4.0 5.5 7.5	A1000-FIA3024-RE	24A	3ph, 480V	1.0 / 70mA	306 x 150 x 52	290 x 122	M5	2.0
4A0024 4A0031	11 15	A1000-FIA3044-RE	44A	3ph, 480V	0.5 / 32mA	357 x 182 x 62	330 x 160	M5	2.8
4A0039	18.5	A1000-FIA3052-RE	52A	3ph, 480V	2.0 / 150mA	415 x 220 x 62	380 x 192	M6	3.9
4A0045 4A0060 4A0075	22 30 37	A1000-FIA3071-RE	71A	3ph, 480V	0.7 / 70mA	329 x 80 x 220	314 x 55	M6	5.3
4A0091 4A0112	45 55	A1000-FIA3105-RE	105A	3ph, 480V	0.7 / 70mA	379 x 90 x 220	364 x 65	M6	6.5
4A0150	75	A1000-FIA3170-RE	170A	3ph, 480V	1.3 / 130mA	429 x 110 x 240	414 x 80	M6	9

Typical Circuit Schematic

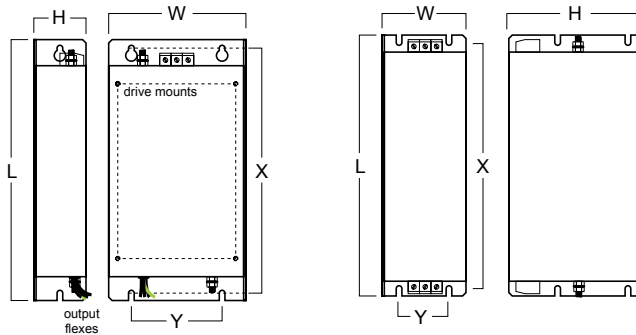


L1000A 200V

- The **A1000-FIA** range, for Omron L1000A Series inverters.
- Help to ensure EMC compliance of lift installations using L1000A drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- Book-style filters mount beside the inverter.

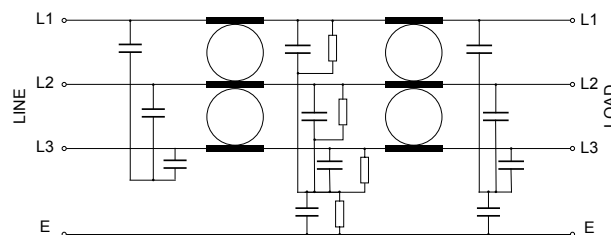


Dimensions



Inverter CIMR-LC	Motor kW	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	wt (kg)
2A0018	4.0	A1000-FIA3024-RE	24A	3ph, 480V	1.0 / 40mA	306 x 150 x 52	290 x 122	M5	2.0
2A0025 2A0033	5.5 7.5	A1000-FIA2052-RE	52A	3ph, 250V	1.0 / 45mA	320 x 150 x 52	290 x 122	M5	2.4
2A0047	11	A1000-FIA2068-RE	68A	3ph, 250V	1.0 / 45mA	362 x 188 x 62	330 x 160	M5	4.2
2A0060 2A0075	15 18.5	A1000-FIA2096-RE	96A	3ph, 250V	1.0 / 45mA	415 x 220 x 62	380 x 192	M6	4.4
2A0085	22	A1000-FIA3105-RE	105A	3ph, 480V	0.5 / 40mA	379 x 90 x 220	364 x 65	M6	6.5
2A0115 2A0145 2A0180	30 37 45	A1000-FIA3170-RE	170A	3ph, 480V	1.0 / 80mA	429 x 110 x 240	414 x 80	M6	9

Typical Circuit Schematic

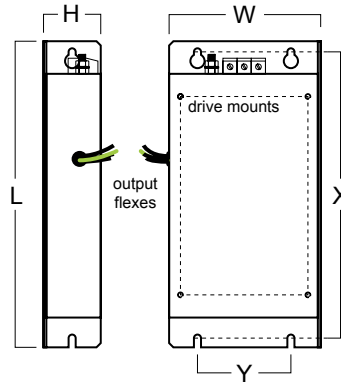


R88



- The **R88A FIW** range, especially for Omron R88D WT Series AC servo drives.
- Help to ensure EMC compliance of machinery and installations using R88 drives.
- Footprint filters mount between the servo drive and the panel, saving valuable space inside wiring cabinets.
- All filters are designed and manufactured to UL requirements.

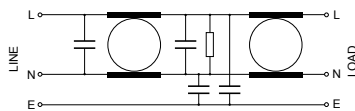
Dimensions



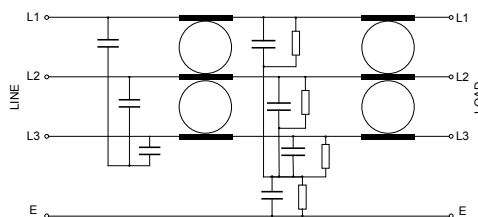
Applied Servo Drive	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing	wt (kg)
R88D WTA3H R88D WTA5H R88D WT01H R88D WT02H	R88A FIW 104E	4A	1ph, 250V	3.5mA	202 x 55 x 32	192 x 33	M4	0.4
R88D WT04H	R88A FIW 107E	7A	1ph, 250V	3.5mA	202 x 75 x 32	192 x 50	M4	0.5
R88D WT08HH	R88A FIW 115E	15A	1ph, 250V	3.5mA	202 x 90 x 32	192 x 60	M4	0.6
R88D WT15HH	R88A FIW 125E	25A	1ph, 250V	3.5mA	291 x 118 x 35	281 x 80	M4	1.1
R88D WT05HF R88D WT10HF R88D WT15HF	R88A FIW 4006E	6A	3ph, 480V	0.3mA / 33mA	202 x 118 x 32	192 x 80	M4	0.7
R88D WT20HF R88D WT30HF	R88A FIW 4010E	10A	3ph, 480V	0.3mA / 33mA	291 x 118 x 35	281 x 80	M4	1.1
R88D WT50HF	R88A FIW 4018E	18A	3ph, 480V	0.3mA / 40mA	291 x 143 x 45	281 x 105	M4	2.0
R88D WT60HF R88D WT75HF	R88A FIW 4024E	24A	3ph, 480V	0.3mA / 40mA	400 x 230 x 52	390 x 160	M6	2.8

Typical Circuit Schematics

Single Phase



Three Phase

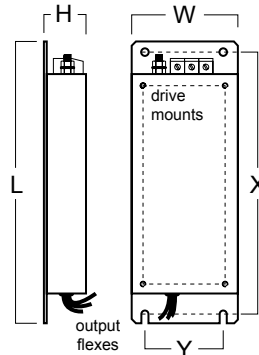


Sigma-5

- The **R88A-FI5** range, especially for Omron Sigma-5 Series AC servo drives.
- Help to ensure EMC compliance of machinery and installations using Sigma-5 servo drives.
- Footprint filters mount between the servo drive and the panel, saving valuable space inside wiring cabinets.



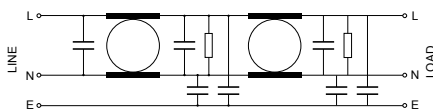
Dimensions



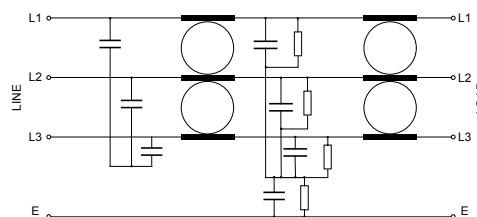
Servo Drive SGDV-	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing	wt (kg)
A5A 01A 02A 04A	R88A-FI5-1005-RE	5A	1ph, 250V	3.5mA	200 x 44 x 30	190 x 20	M4	0.4
08A	R88A-FI5-1009-RE	9A	1ph, 250V	3.5mA	200 x 72 x 30	190 x 50	M4	0.5
15A	R88A-FI5-1016-RE	16A	1ph, 250V	3.5mA	220 x 104 x 40	210 x 80	M4	0.6
05D 10D 15D	R88A-FI5-3004-RE	4A	3ph, 480V	0.3mA / 29mA	200 x 114 x 40	190 x 90	M4	0.9
20D 30D	R88A-FI5-3008-RE	8A	3ph, 480V	0.3mA / 28mA	290 x 116 x 40	279 x 90	M5	1.1
50D	R88A-FI5-3012-RE	12A	3ph, 480V	0.3mA / 28mA	290 x 141 x 45	279 x 115	M5	1.2
60D 75D	R88A-FI5-3022-RE	22A	3ph, 480V	0.3mA / 40mA	400 x 230 x 50	385 x 180	M6	2.5
1AD 1ED	R88A-FI5-3044-RE	44A	3ph, 480V	0.3mA / 40mA	456 x 230 x 52	441 x 180	M6	3.4

Typical Circuit Schematics

Single Phase



Three Phase

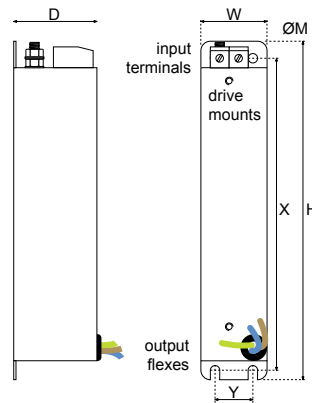


R7D

- The **R7A-FIB** range, especially for Omron R7D Series AC servo drives.
- Help to ensure EMC compliance of machinery and installations using R7D drives.
- Footprint filters mount between the servo drive and the panel, saving valuable space inside wiring cabinets.

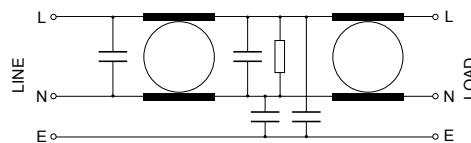


Dimensions



Applied Servo Drive	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External H x W x D (mm)	Mount Dims X x Y (mm)	Filter Fixing	wt (kg)
R7D-BP01H R7D-BP04H	R7A-FIB104-RE	4A	1ph, 250V	3.5mA	179 x 40 x 44	165 x 20	M4	0.3
R7D-BP08H	R7A-FIB108-RE	8A	1ph, 250V	3.5mA	? x ? x ?	? x ?	M4	

Typical Circuit Schematic



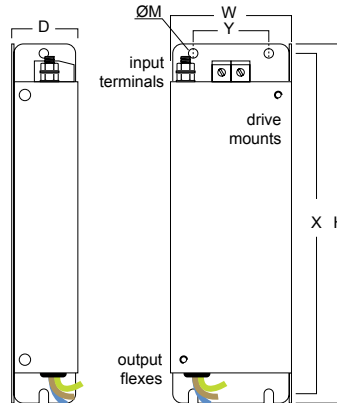
R88-GT

R88-KT

- The **R88A-FIK** range, especially for Omron R88D-GT and R88D-KT Series AC servo drives.
- Help to ensure EMC compliance of machinery and installations using R88D-GT or R88D-KT servo drives.
- Footprint filters mount between the servo drive and the panel, saving valuable space inside wiring cabinets.



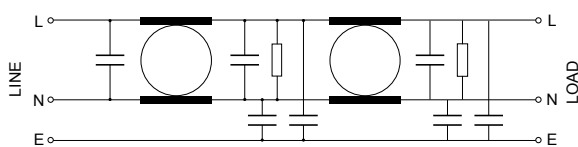
Dimensions



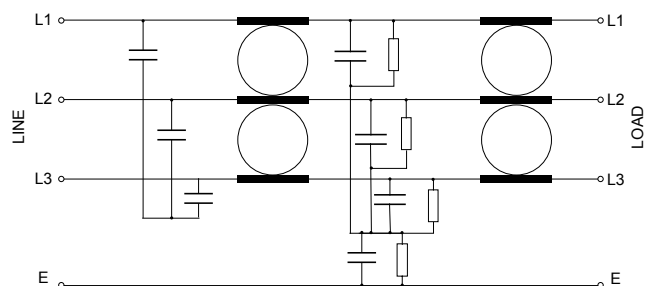
Servo Drive R88D-	Servo Drive R88D-	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External H x W x D (mm)	Mount Dims X x Y (mm)	Filter Fixing	wt (kg)
GT01H GT02H	KT01H KT02H	R88A-FIK102-RE	2.4A	1ph, 250V	3.5mA	190 x 42 x 44	180 x 20	M4	0.3
GT04H	KT04H	R88A-FIK104-RE	4.1A	1ph, 250V	3.5mA	190 x 57 x 30	180 x 30	M4	0.35
GT08H	KT08H	R88A-FIK107-RE	6.6A	1ph, 250V	3.5mA	190 x 64 x 35	180 x 40	M4	0.4
GT10H GT15H	KT10H KT15H	R88A-FIK114-RE	14.2A	1ph, 250V	3.5mA	190 x 86 x 35	180 x 60	M4	0.5
	KT06F KT10F KT15F	R88A-FIK304-RE	4A	3ph, 480V	0.3mA / 32mA	196 x 92 x 40	186 x 70	M4	0.7
	KT20F	R88A-FIK306-RE	6A	3ph, 480V	0.3mA / 32mA	238 x 94 x 40	228 x 70	M4	0.8
	KT30F KT50F	R88A-FIK312-RE	12.1A	3ph, 480V	0.3mA / 32mA	291 x 130 x 40	278 x 100	M5	1.0
	KT75F	R88A-FIK330-RE	22A	3ph, 480V	0.3mA / 40mA	310 x 233 x 50	293 x 180	M5	2.4
	KT30F KT50F	R88A-FIK350-RE	44A	3ph, 480V	2mA / 130mA	506 x 261 x 52	491 x 200	M6	4.8

Typical Circuit Schematics

Single Phase



Three Phase



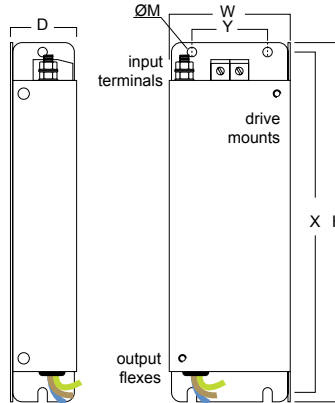
R88-KT 200V

The **R88A-FIK** range, especially for Omron R88D-KT Series AC servo drives.

- Help to ensure EMC compliance of machinery and installations using R88D-KT servo drives.
- Footprint filters mount between the servo drive and the panel, saving valuable space inside wiring cabinets.



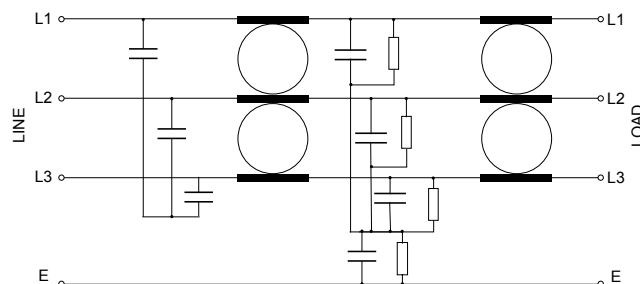
Dimensions



Servo Drive R88D-	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External H x W x D (mm)	Mount Dims X x Y (mm)	Filter Fixing	wt (kg)
KT20H	R88A-FIK212-RE	12A	3ph, 250V	0.3mA / 20mA	238 x 85 x 40	228 x 60	M4	0.9
KT30H KT50H	R88A-FIK222-RE	22A	3ph, 250V	0.3mA / 20mA	291 x 130 x 45	278 x 100	M5	1.1

Typical Circuit Schematics

Three Phase

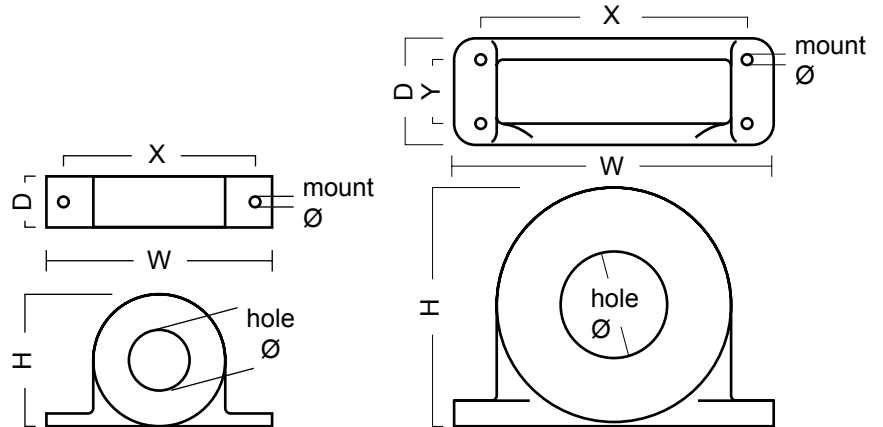


Output Chokes

- A range of ferrite chokes with many uses in wiring panels.
- Recommended for use on long motor cables, to reduce radiated emissions.
- Also useful on other cables, where RF interference needs to be reduced.
- Insulated case with mounting feet, for tidy installation on panels.

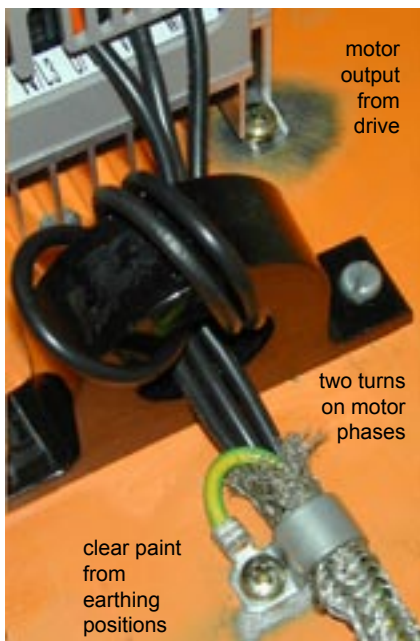


Dimensions



Part Number	Part Number	max Motor rating (kW)	cable hole Ø (mm)	A _L (µH)	External W x H x D (mm)	Mount Dims X x Y (mm)	Fixing Ø (mm)	wt (kg)
3G3IV-PFO-OC/1	AX-FER2102-RE	2.2	21	9	85 x 46 x 22	90	5.0	0.1
3G3IV-PFO-OC/2	AX-FER2815-RE	15	28.5	12	106 x 62 x 24	70	5.0	0.2
3G3IV-PFO-OC/3	AX-FER5045-RE	45	50	14	150 x 112 x 50	125 x 30	5.0	0.7
3G3IV-PFO-OC/4	AX-FER6055-RE	>45	60	14	200 x 170 x 65	180 x 45	6.0	1.7

Typical Installation



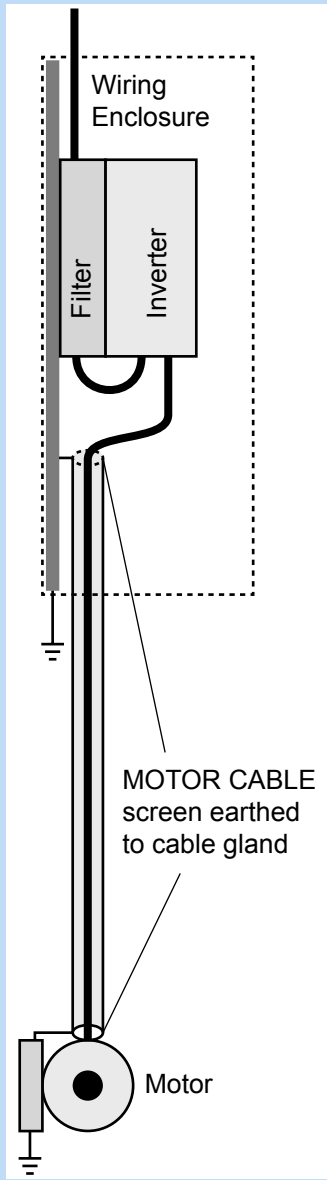
The picture shows typical installation of an OC/2 choke.

The phase wires only of the drive output cable are passed through the choke twice.

The cable screen/armour is not passed through the choke as it is earthed at both panel and motor ends.

The screen can be passed through the choke on control cables **ONLY IF** it is not earthed at one end.

UL approval documentation
and EMC Test Certificates
from Independent Test House



Filter Installation Notes

To conform to EMC directives, it is essential that good wiring practice is observed and that all installation recommendations are followed.

- ◆ The usual safety procedures when working with electrical equipment must be followed and all electrical connections to the filter, inverter & motor must be made by a qualified electrical technician.
- ◆ Filters should be fitted as closely as possible to the incoming mains supply of the wiring enclosure, usually directly after the enclosures circuit breaker or supply switch.
- ◆ Care should be taken to remove any paint etc. from filter and inverter mounting holes and face area of the panel to ensure the best possible earthing of the units.
- ◆ All lead lengths should be kept as short as possible and incoming mains, outgoing motor cables and control cables should be kept well separated. Cable earth screens should only be stripped back as far as necessary to make connections - screens should be securely earth bonded to the wiring panel.

DUE TO CONTINUAL PRODUCT DEVELOPMENT, SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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