

# 3G3M1

## Premium features in a compact size

- Multiple ratings: HHD 150 %/1 min and HND 120 %/1 min.
- Torque control for IM in OLV/CLV, PM in CLV.
- Speed, Position and Gear function.
- Built-in 1 encoder / pulse counter input.
- Safe Stop 0 (STO SIL3 PLe)
- USB programming port.
- Modbus RS-485
- Program download without power supply
- Predictive maintenance drive parameters.
- Energy saving dedicated functionality.
- PC configuration tool: Sysmac Studio IDE
- Coated PCB for dust and moisture resistance.
- 10 years 24/7 Maintenance Free operation
- CE,UKCA, cULus, KC, RCM and RoHS.

### Ratings:

200 V Class single-phase 0.2 to 3.7 KW

200 V Class three-phase 0.2 to 18.5 KW

400 V Class three-phase 0.4 to 22 KW



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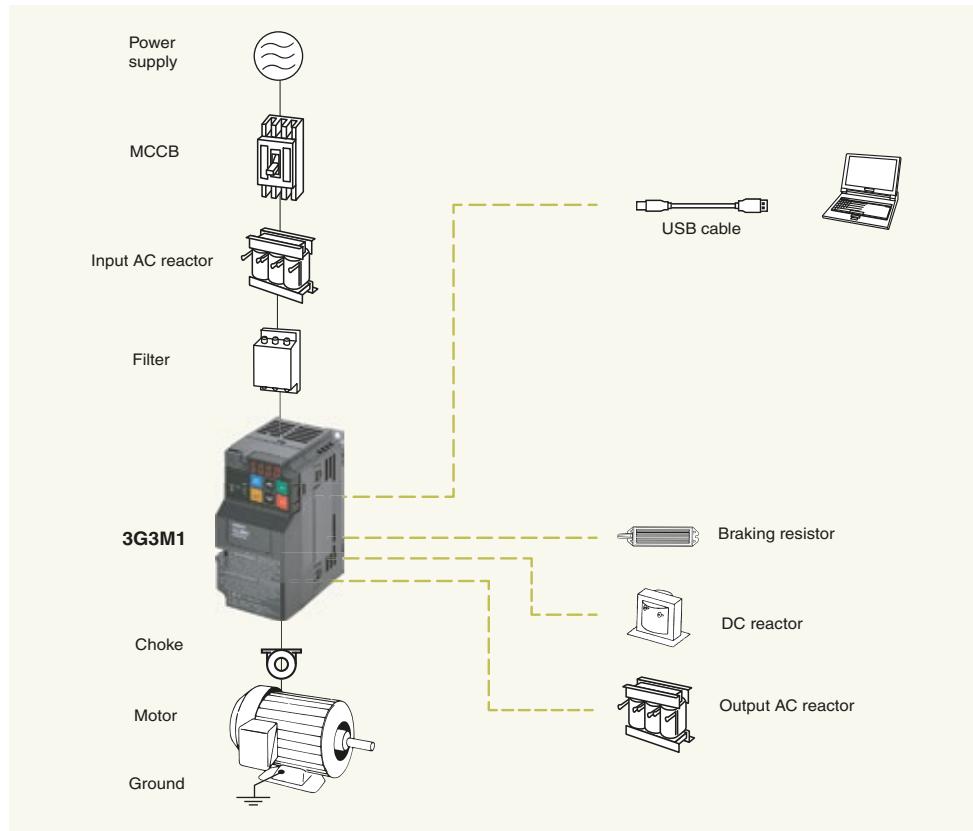


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## System configuration



## Type designation

3G3M1 - A 4 0 0 2

Drive

Series

IP20 protection

Voltage:

B: Single-phase 200 VAC

2: Three-phase 200 VAC

4: Three-phase 400 VAC

Rated power:

1-phase 200 VAC: 0.2 to 3.7 KW

3-phase 200 VAC: 0.2 to 18.5 KW

3-phase 400 VAC: 0.4 to 22 KW

Single-phase 200 V: 3G3M1-A□		Duty rating	B002	B004	B007	B015	B022	B037		
Max. applicable motor output (kW)	HHD	0.2	0.4	0.75	1.5	2.2	3.7			
	HND	0.4	0.55	1.1	2	2.7	—			
Drive capacity (kVA) 200 V	HHD	0.6	1	1.7	2.8	3.8	6.1			
	HND	0.7	1.2	2.1	3.3	4.2	—			
Drive capacity (kVA) 240 V	HHD	0.7	1.2	2.1	3.3	4.6	7.3			
	HND	0.8	1.5	2.5	4	5	—			
Rated output current (A)	HHD	1.6	3	5	8	11	17.5			
	HND	1.9	3.5 <sup>*1</sup>	6.0 <sup>*1</sup>	9.6 <sup>*1</sup>	12 <sup>*1</sup>	—			
Overload tolerance		HHD: 150% of the rated output current for 60 seconds or 200% 0.5s HND: 120% of the rated output current for 60 seconds								
Carrier frequency (no-derating)		HND: 4 kHz HHD: 8kHz					HHD: 8kHz			
Max. output voltage		Three-phase 200 to 240 V (with AVR)								
Max. output frequency		590.0 Hz								
Power supply	Rated voltage and frequency		1-phase AC power supply 200-240 V at 50/60 Hz DC power supply 270-340 VDC							
	Allowable voltage fluctuation		−15% to +10%							
	Allowable frequency fluctuation		±5%							
Braking	Rated Input current	HHD	3.3	5.4	9.7	16.4	22	45.4		
		HND	4.9	7.3	13.8	20.2	26	—		
	Rated Input current DC reactor	HHD	2.0	3.5	6.4	11.6	17.5	31.8		
		HND	3.7	4.6	9.4	17.9	25.0	—		
	Rated power capacity	HHD	0.4	0.7	1.3	2.4	3.5	6.4		
		HND	0.8	1.0	1.9	3.6	5.5	—		
	Natural deceleration braking torque (%) without resistor	HHD		100		70	40	40		
		HND		73	68	48	29	—		
	Minimum connectable resistor (Ohms)					40				
	Weight (kg)		0.5	0.6	0.9	1.4	1.7	3.8		

<sup>\*1</sup>. Values for 40°C ambient temperature

**Note:** "Applicable motor" represents standard three-phase motors. When using other types of motors, make sure that the rated current of the motor does not exceed that of the inverter.

Output voltage cannot exceed the power supply voltage.

For higher carrier frequency confirm with carrier derating tables in manual

The value is calculated assuming that the inverter is connected with a power supply with the capacity of 500 kVA (or 10 times the inverter capacity if the inverter capacity exceeds 50 kVA) and %X is 5%.

Three-phase 200 V: 3G3M1-A□		Duty rating	2002	2004	2007	2015	2022	2037	2055	2075	2110	2150	2185						
<b>Max. applicable motor output (kW)</b>		<b>HHD</b>	0.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5						
		<b>HND</b>	0.4	0.75	1.1	2.2	3	5.5	7.5	11	15	18.5	22						
<b>Drive capacity (kVA) 200 V</b>		<b>HHD</b>	0.6	1	1.7	2.8	3.8	6.1	8.7	11	16	21	26						
		<b>HND</b>	0.7	1.2	2.1	3.3	4.2	6.8	10	14	19	24	30						
<b>Drive capacity (kVA) 240 V</b>		<b>HHD</b>	0.7	1.2	2.1	3.3	4.6	7.3	10	14	20	25	32						
		<b>HND</b>	0.8	1.5	2.5	4.0	5.0	8.1	12	17	23	29	37						
<b>Rated output current (A)</b>		<b>HHD</b>	1.6	3	5	8	11	17.5	25	33	47	60	76						
		<b>HND</b>	2	3.5	6	9.6	12 <sup>*1</sup>	19.6 <sup>*1</sup>	30	40	56	69	88						
<b>Overload tolerance</b>		HHD: 150% of the rated output current for 60 seconds or 200% 0.5s HND: 120% of the rated output current for 60 seconds																	
<b>Carrier frequency (no-derating)</b>		HHD: 8 kHz HND: 4 kHz						HHD: 10 kHz HND: 10 kHz											
<b>Max. output voltage</b>		Three-phase 200 to 240 V (with AVR)																	
<b>Max. output frequency</b>		590.0 Hz																	
<b>Power supply</b>		3-phase AC power supply 200-240 V at 50/60 Hz DC power supply 270-340 VDC																	
<b>Rated voltage and frequency</b>		-15% to +10%																	
<b>Allowable voltage fluctuation</b>		±5%																	
<b>Allowable frequency fluctuation</b>																			
<b>Rated Input current</b>		<b>HHD</b>	1.8	3.1	5.3	9.5	13.2	22.2	31.5	42.7	60.7	80	97						
		<b>HND</b>	2.6	4.9	6.7	12.8	17.9	28.5	42.7	60.7	80	97	112						
<b>Rated Input current DC reactor</b>		<b>HHD</b>	0.93	1.6	3.0	5.7	8.3	14.0	21.1	28.8	42.2	57.6	71.0						
		<b>HND</b>	1.6	3.0	4.3	8.3	11.7	19.9	28.8	42.2	57.6	71.0	84.4						
<b>Rated power capacity</b>		<b>HHD</b>	0.4	0.6	1.1	2.0	2.9	4.9	7	10	15	20	25						
		<b>HND</b>	0.6	1.1	1.5	2.9	4.1	6.9	10	15	20	25	30						
<b>Braking</b>		<b>Natural deceleration braking torque (%) without resistor</b>																	
		<b>HHD</b>	150	100	70	40		20											
		<b>HND</b>	75	53	68	48	29	27	15										
<b>Minimum connectable resistor (Ohms)</b>		100				40			33	20	15	10	8.6	4					
<b>Weight (kg)</b>		0.5	0.6	0.8	1.4	1.4	1.7	3.8	4	5.3	5.4	11							

<sup>\*1</sup>. Values for 40°C ambient temperature

**Note:** "Applicable motor" represents standard three-phase motors. When using other types of motors, make sure that the rated current of the motor does not exceed that of the inverter.

Output voltage cannot exceed the power supply voltage.

For higher carrier frequency confirm with carrier derating tables in manual

The value is calculated assuming that the inverter is connected with a power supply with the capacity of 500 kVA (or 10 times the inverter capacity if the inverter capacity exceeds 50 kVA) and %X is 5%.

Three-phase 400 V: 3G3M1-A□		Duty rating	4004	4007	4015	4022	4030	4040	4055	4075	4110	4150	4185	4220								
Max. applicable motor output (kW)		<b>HD</b>	0.75	1.1	2.2	3	4	5.5	7.5	11	15	18.5	22	30								
		<b>ND</b>	0.75	1.5	2.2	3	4	5.5	11	15	18.5	22	30	37								
		<b>HHD</b>	0.4	0.75	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22								
		<b>HND</b>	0.75	1.1	2.2	3 <sup>*1</sup>	4	5.5 <sup>*1</sup>	7.5	11	15	18.5	22	30								
Output characteristics	Drive capacity (kVA) 380 V	<b>HD</b>	1.2	2.2	3.3	4.1	5.8	7.3	12	15	20	25	30	39								
		<b>ND</b>	1.4	2.7	3.6	4.5	6.1	7.9	14	19	24	29	39	47								
		<b>HHD</b>	1.2	2.2	3.2	3.6	4.7	6.1	9.7	12	16	20	26	30								
		<b>HND</b>	1.4	2.7	3.6	4.5	5.8	7.3	12	15	20	25	30	39								
	Drive capacity (kVA) 480 V	<b>HD</b>	1.5	2.8	4.2	5.2	7.3	9.2	15	19	26	32	37	50								
		<b>ND</b>	1.7	3.4	4.6	5.7	7.6	10	18	24	31	37	49	60								
		<b>HHD</b>	1.5	2.8	4	4.6	6	7.6	12.3	15	20	26	32	37								
		<b>HND</b>	1.7	3.4	4.6	5.7	7.3	9.2	15	19	26	32	37	50								
	Rated output current (A)	<b>HD</b>	1.8	3.4	5.0	6.3	8.8	11.1	17.5	23	31	38	45	60								
		<b>ND</b>	2.1	4.1	5.5	6.9	9.2	12	21.5	28.5	37	44	59	72								
		<b>HHD</b>	1.8	3.4	4.8	5.5	7.2	9.2	14.8	18	24	31	39	45								
		<b>HND</b>	2.1	4.1	5.5	6.9	8.8	11.1	17.5	23	31	38	45	60								
Overload tolerance		HHD: 150% of the rated output current for 60 seconds or 200% 0.5s HD: 150% of the rated output current for 60 seconds HND/ND: 120% of the rated output current for 60 seconds																				
Carrier frequency (no-derating)		HHD/HND: 8 kHz HD/ND: 4 kHz						HHD/HND: 10 kHz HD/ND: 4 kHz														
Max. output voltage		Proportional to input voltage: 380-480 V																				
Max. output frequency		590 Hz																				

Three-phase 400 V: 3G3M1-A□		Duty rating	4004	4007	4015	4022	4030	4040	4055	4075	4110	4150	4185	4220
Power supply	Rated voltage and frequency		3-phase AC power supply 380-480 V at 50/60 Hz											
	Allowable voltage fluctuation		-15% to +10%											
	Allowable frequency fluctuation		±5%											
	Rated Input current	HD	2.7	3.9	7.3	11.3	14.2	16.8	23.2	33.0	43.8	52.3	60.6	77.9
		ND	2.7	4.8	7.3	11.3	14.2	16.8	33.0	43.8	52.3	60.6	77.9	94.3
		HHD	1.7	3.1	5.9	8.2	11.3	14.2	17.3	23.2	33.0	43.8	52.3	60.6
		HND	2.7	3.9	7.3	11.3	14.2	16.8	23.2	33.0	43.8	52.3	60.6	77.9
	Rated Input current DC reactor	HD	1.5	2.1	4.2	5.8	7.7	10.1	14.4	21.1	28.8	35.5	42.2	57.0
		ND	1.5	2.9	4.2	5.8	7.7	10.1	21.1	28.8	35.5	42.2	57.0	68.5
		HHD	0.85	1.6	3.0	4.4	5.8	7.7	10.6	14.4	21.1	28.8	35.5	42.2
		HND	1.5	2.1	4.2	5.8	7.7	10.1	14.4	21.1	28.8	35.5	42.2	57.0
	Required power capacity	HD	1.1	1.5	3.0	4.1	5.4	7.0	10	15	20	25	29	39
		ND	1.1	2.1	3.0	4.1	5.4	7.0	15	20	25	29	39	47
		HHD	0.6	1.2	2.1	3.1	4.1	5.4	7.3	10	15	20	25	29
		HND	1.1	1.5	3.0	4.1	5.4	7.0	10	15	20	25	29	39
Braking	Natural deceleration braking torque (%) without resistor	HD	53	68	48	29	29	27	15					
		ND	53	50	48	29	29	27	12					
		HHD	100		70	40	40	40	20					
		HND	53	68	48	29	29	27	15					
	Minimum connectable resistor (Ohms)		200		160		130		80	60	40	34.4	16	
Weight (kg)			1.2	1.4	1.5	1.4	1.8	1.8	3.7	3.8	5.3	5.4	11	11

\*1. Values for 40°C ambient temperature

Note: "Applicable motor" represents standard three-phase motors. When using other types of motors, make sure that the rated current of the motor does not exceed that of the inverter.

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## Common specifications

Model number 3G3M1-A□		Specifications
Control functions	<b>Control methods</b>	V/f, Dynamic torque vector and vector control with and without feedback.
	<b>Motor support</b>	Asynchronous Induction motor Permanent Magnet synchronous motor (Only Vector control with and without feedback)
	<b>Frequency control range</b>	0.00 to 590.0 Hz
	<b>Frequency tolerance</b>	Digital inputs: ±0.01% of the max. output frequency Analog inputs: ±0.2% of the max. output frequency (25 ±10 °C)
	<b>Frequency setting resolution</b>	Digital inputs: 0.01 Hz Analog inputs: Maximum frequency × 5/10,000 Communication setting: 0.005% of the maximum output frequency or 0.01 Hz (fixed)
	<b>Output frequency resolution</b>	0.001 Hz
	<b>Frequency setting signal</b>	Main speed freq reference: -10 to 10 VDC (22 kΩ)
	<b>Starting torque</b>	V/f: 150%/10% of rated speed 200% /0.5Hz Vector without sensor or V/f with feedback 200%/0.0 Hz Vector with feedback
	<b>Speed control range</b>	1:100 V/f mode 1:200 Dynamic torque vector without feedback / vector without feedback / V/f with feedback 1:500 Dynamic torque vector with feedback 1:1500 Vector control with feedback
	<b>Zero speed control</b>	Vector with feedback
	<b>Torque limits</b>	4 quadrant and 4 independent settings
	<b>Accel/Decel Time</b>	0.00 to 6000s (the drive can set two pairs of different acceleration and deceleration times)
Functionality	<b>Protective functions</b>	Overcurrent, Overvoltage, Undervoltage, Electronic thermal, Temperature error, Ground-fault current at power-on, Rush current prevention circuit, Overload limit, Incoming overvoltage, External trip, Memory error, CPU error, USP error, Communication error, Overvoltage suppression during deceleration, Power interruption protection, Emergency shutdown, etc.
	<b>Main control functions</b>	Torque boost, AVR control, Energy saving, Motor sound, slip compensation, DC injection, Frequency auto-search, current limiter, ASR control, zero speed control servo lock, heavy deceleration brake, pre-excitation, Positioning, Master-Slave follower, overload stop, second motor, brake control,
Environment	<b>Operation ambient temperature</b>	-10 to 50°C (Derating required)
	<b>Storage ambient temperature</b>	-25 to 70°C (Short-time temperature during shipment)
	<b>Operating ambient humidity</b>	5 to 95% (with no condensation)
	<b>Vibration resistance</b>	Vibration Frequency Specification 2 to 9 Hz à 3 mm (0.12 inch) (Max. amplitude) 9 to 20 Hz à 1 G 20 to 55 Hz à 0.2 G 55 to 200 Hz à 0.1 G
	<b>Location</b>	Maximum altitude of 1,000 m, indoors (without corrosive gases or dust). From 1,000 to 3,000 a derating of 0.6% every 100m should be applied.

Model number 3G3M1-A□			Specifications
Regulations and Standards	CE UKCA	EMC	EN 61800-3:2004/A1:2012 (2018 is ratified)
		Functional safety	IEC 61800-5-2:2016 IEC/EN 61800-5-2:2017 STO SIL3 EN ISO 13849-1:2015, Cat.3 / Plc (2016 already exist)
		Electrical safety	EN 61800-5-1:2017
	UL	US	UL61800-5-1, Edition 1, 2012 (A1 2017 ratified)
		CA	CSA-C22.2 No.274, 2017
	KC		KS-C9800-3 (Pending)
	EAC		–
RCM			EN 61800-3:2004+A1:2012 (2016 ratified)
Protection design			Open chassis type: IP20

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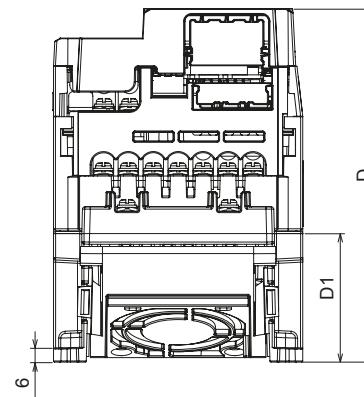
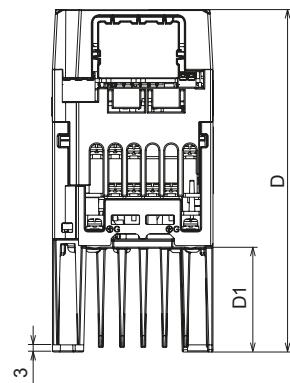
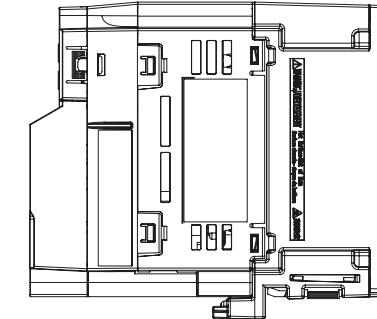
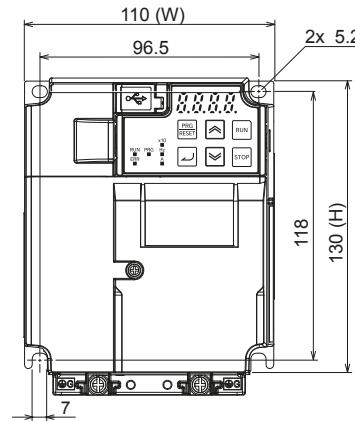
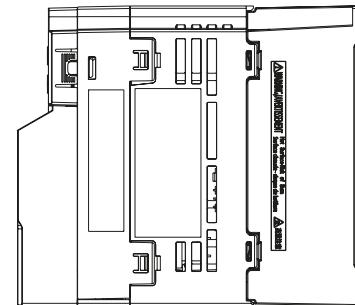
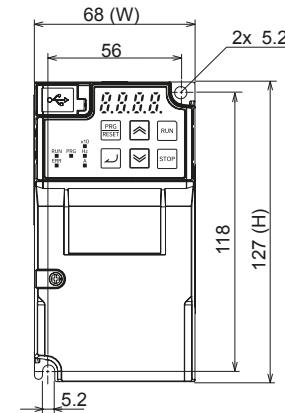


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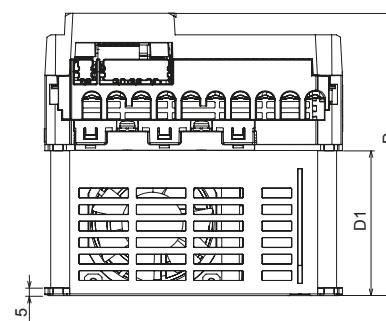
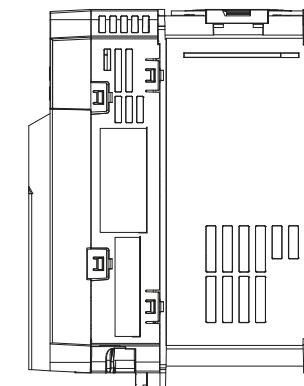
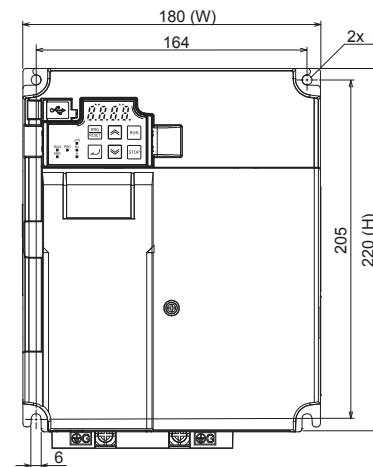
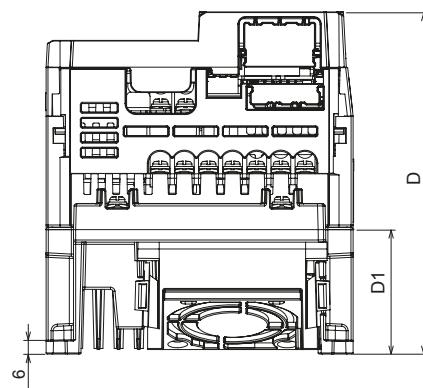
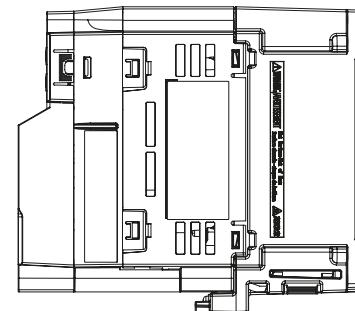
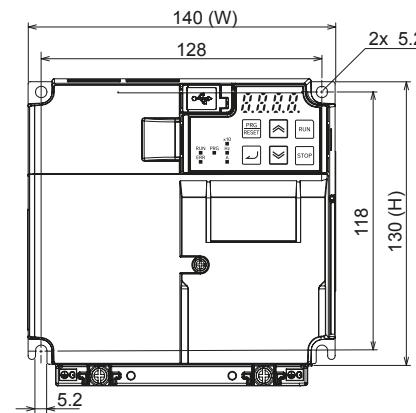
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## Dimensions



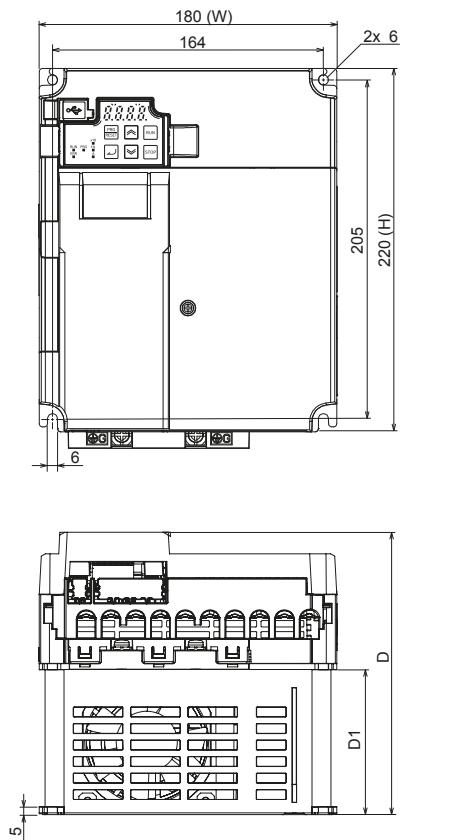
Power Supply	Model	W (mm)	H (mm)	D (mm)	D1 (mm)
Single-phase 200 V	3G3M1-AB002	68	127	98	8
	3G3M1-AB004			120	23
	3G3M1-AB007			165	48
Three-phase 200 V	3G3M1-A2002	110	130	98	8
	3G3M1-A2004			113	23
	3G3M1-A2007			145	48

Power supply	Model	W (mm)	H (mm)	D (mm)	D1 (mm)
Single-phase 200 V	3G3M1-AB015	166	58	166	
	3G3M1-A2015			156	
	3G3M1-A2022			132	38
Three-phase 400 V	3G3M1-A4004	110	130	156	58
	3G3M1-A4007			132	
	3G3M1-A4015			156	
	3G3M1-A4022				

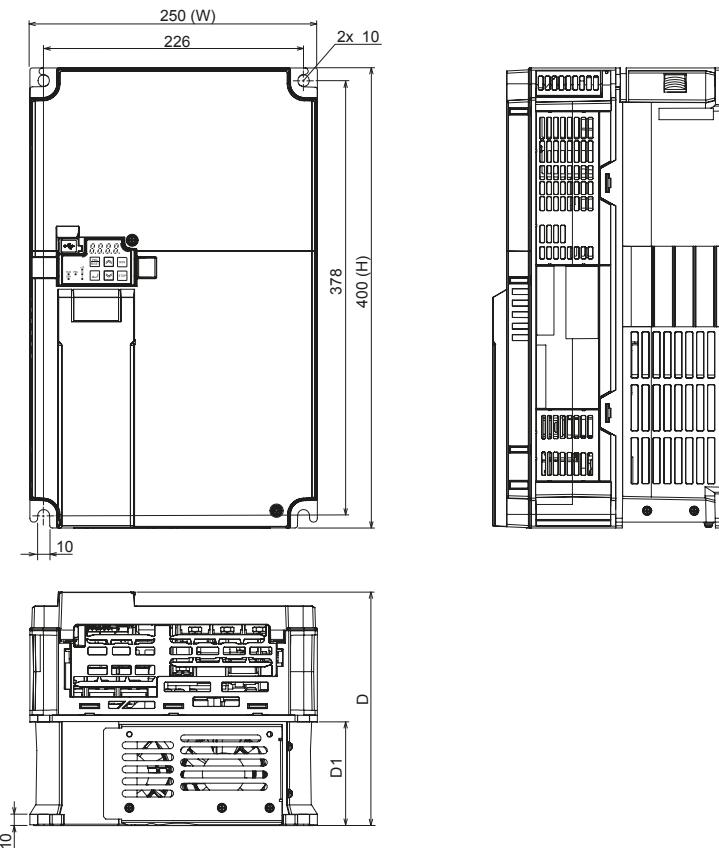


Power supply	Model	W (mm)	H (mm)	D (mm)	D1 (mm)
Single-phase 200 V	3G3M1-AB022				
Three-phase 200 V	3G3M1-A2037	140	130	156	58
Three-phase 400V	3G3M1-A4030				
	3G3M1-A4040				

Power supply	Model	W (mm)	H (mm)	D (mm)	D1 (mm)
Single-phase 200 V	3G3M1-AB037				
Three-phase 200 V	3G3M1-A2055	180	220	171	87.7
Three-phase 400 V	3G3M1-A2075				
	3G3M1-A4055				
	3G3M1-A4075				



Power supply	Model	W (mm)	H (mm)	D (mm)	D1 (mm)
Three-phase 200 V	3G3M1-A2110	220	260	203	90
	3G3M1-A2150				
Three-phase 400 V	3G3M1-A4110				90
	3G3M1-A4150				

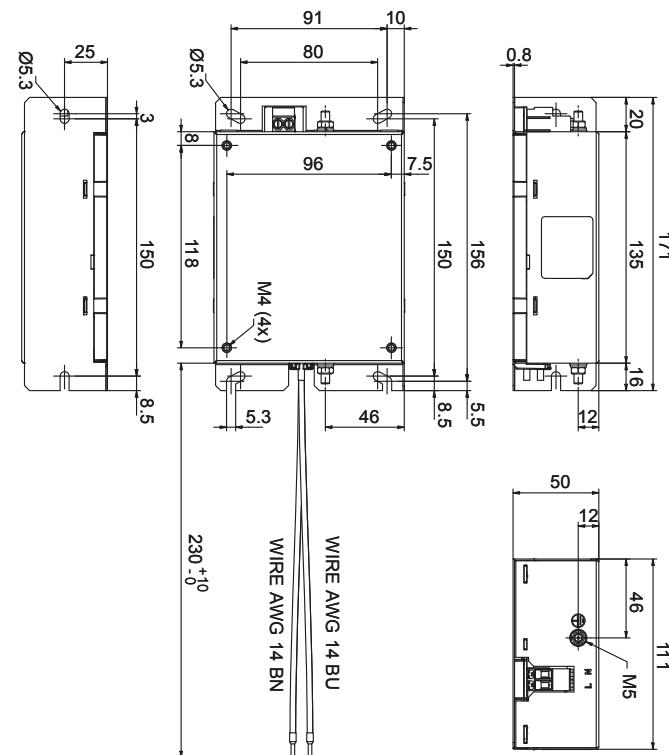
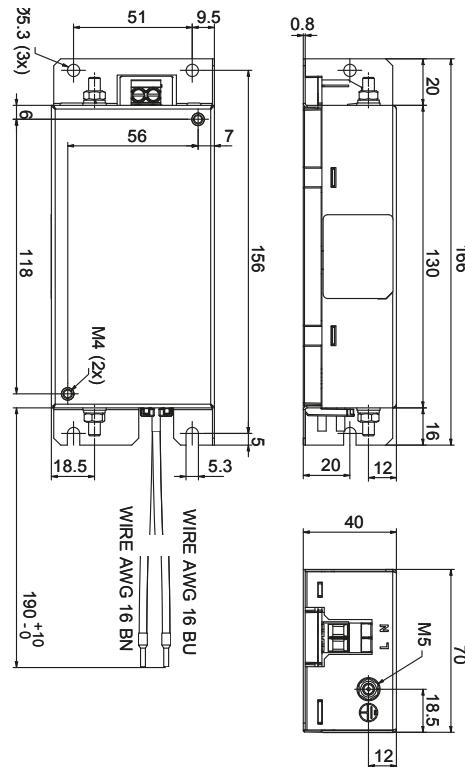


Power supply	Model	W (mm)	H (mm)	D (mm)	D1 (mm)
Three-phase 200 V	3G3M1-A2185	250	400	203	90
	3G3M1-A4185				
Three-phase 400 V	3G3M1-A4220				

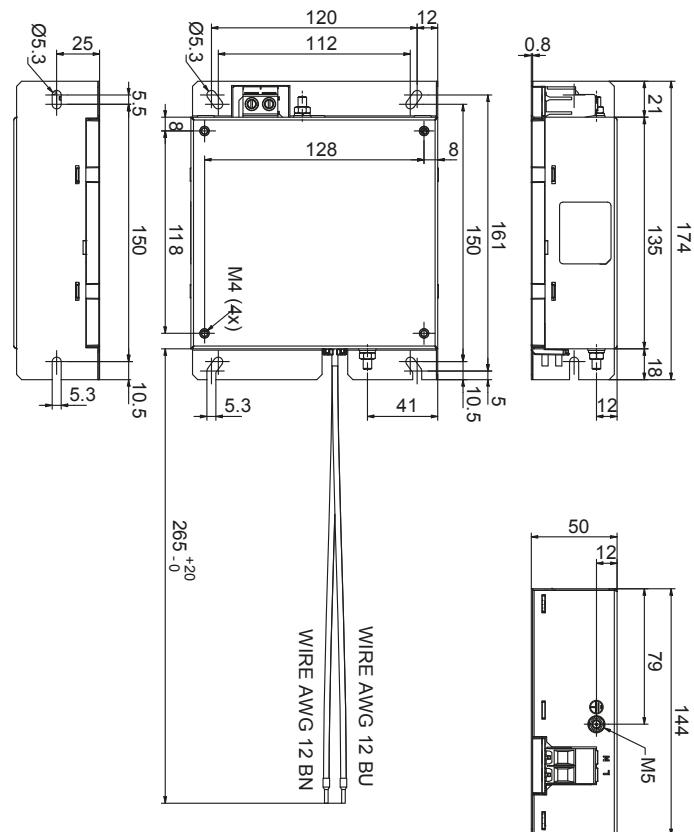
**Line filters**

AX-FIC1014-SE

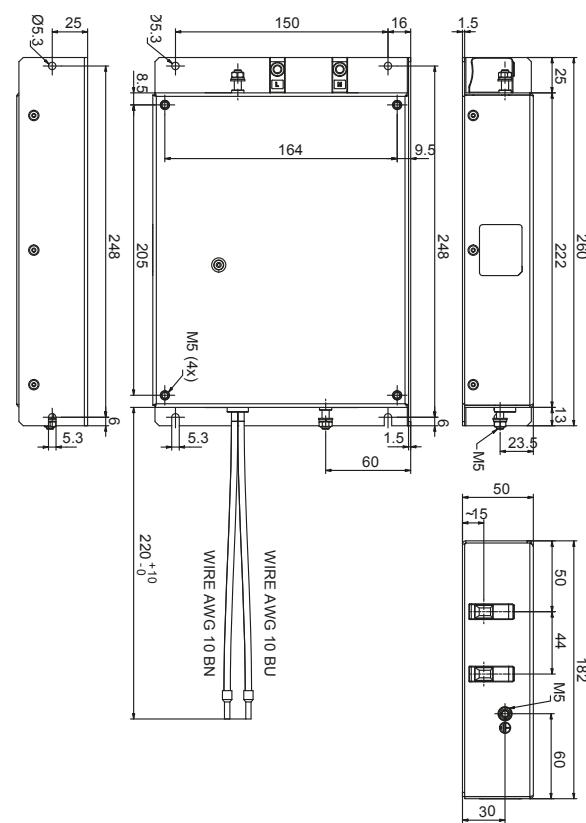
AX-FIC1021-SE



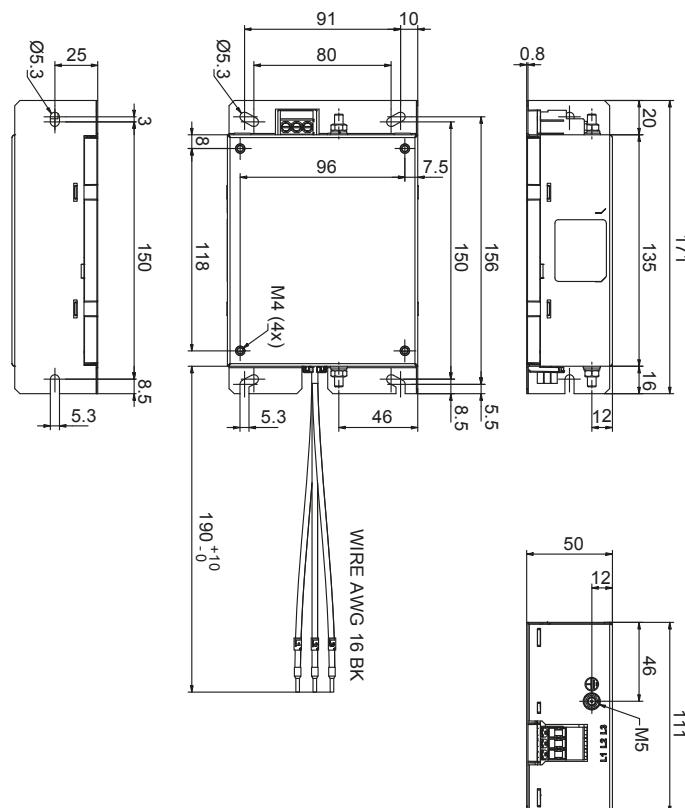
AX-FIC1026-SE



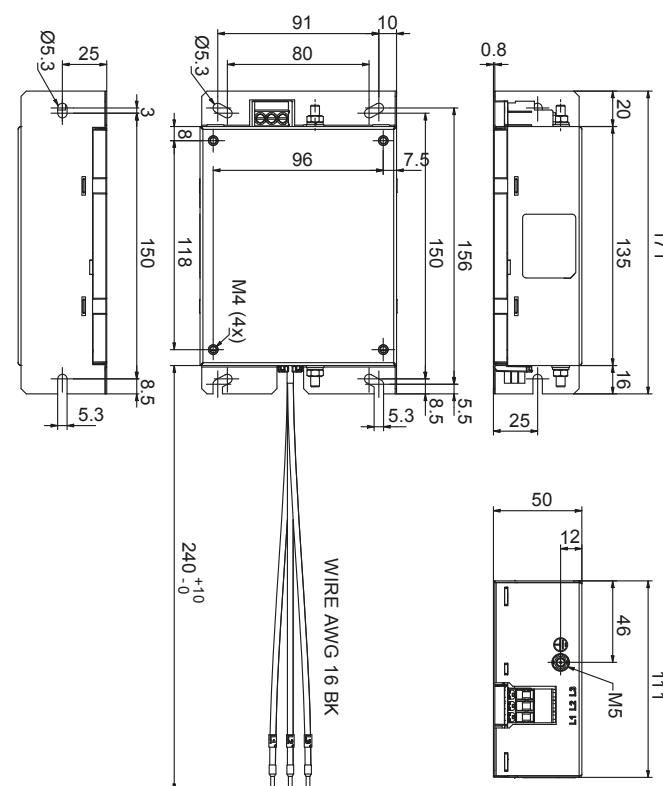
AX-FIC1045-SE



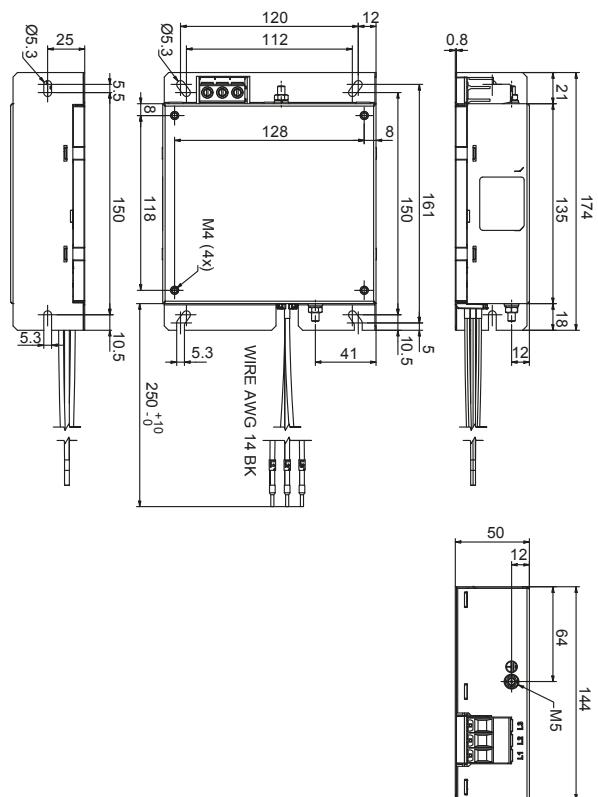
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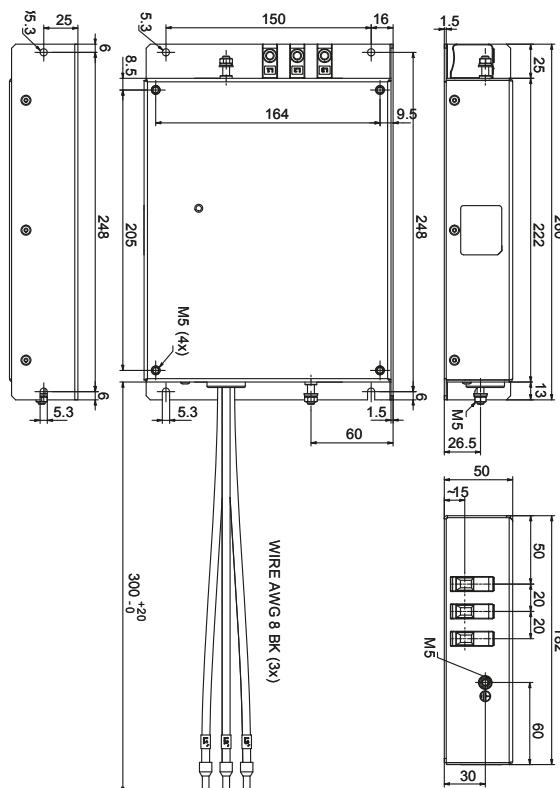
AX-FIC4011-SE



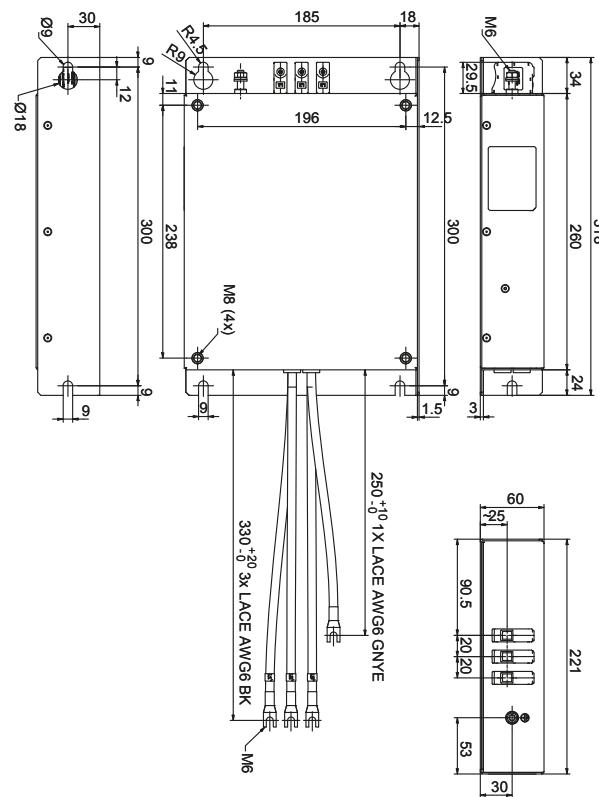
AX-FIC4017-SE



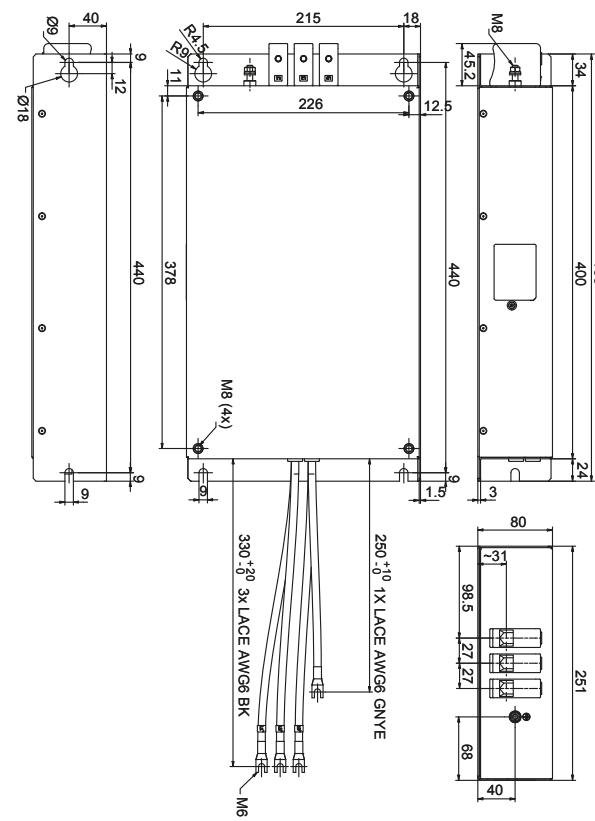
AX-FIC4044-SE



AX-FIC4061-SE



AX-FIC4095-SE



## Input AC Reactor

Voltage	Reference	Fig	Dimensions (mm)										Weight (kg)
			A	B	B2	C	C2	D	E	F	G	H	
Single-phase 200 V	AX-RAI02000070-DE	1	84	113	-	96 116 131	-	101	66	5	7.5	2	1.22
	AX-RAI01700140-DE												1.95
	AX-RAI01200200-DE												2.55
	AX-RAI00630240-DE												1.95
Three-phase 200 V	AX-RAI00210330-DE	2	120	180	70 80 85 190 205 70 75 80 85 105 110	80 116 120 80 52 62 140 55 6 120 80 52 5.5 195 140 55 6 120 80 62 5.5 190 140 55 6 275 200	-	62	5.5	-	-	-	2.35
	AX-RAI02920030-DE												1.78
	AX-RAI01570050-DE												2.35
	AX-RAI00940080-DE												5.5
	AX-RAI00670110-DE												6.5
	AX-RAI00450170-DE												1.78
	AX-RAI00290250-DE												2.35
	AX-RAI00210330-DE												5.5
	AX-RAI00180670-DE												6.5
	AX-RAI001110600-DE												2.35
	AX-RAI00076870-DE												5.5
	AX-RAI00091000-DE												6.5
Three-phase 400 V	AX-RAI07700042-DE	2	120	180	70 80 85 195 205 70 75 80 85 105 110	-	120 195 140 120 190 140 275	80 140 55 80 140 55 200	52 55 6 62 55 6 75	5.5 6 5.5 5.5 5.5 6 7.5	-	-	1.78
	AX-RAI03700040-DE												5.5
	AX-RAI02800080-DE												2.35
	AX-RAI01630090-DE												5.5
	AX-RAI01300170-DE												6.5
	AX-RAI00810180-DE												11.2
	AX-RAI00740335-DE												16.0
	AX-RAI00440300-DE												2.35
	AX-RAI00300450-DE												5.5
	AX-RAI00360500-DE												6.5
	AX-RAI00290780-DE												16.0
	AX-RAI00191150-DE												2.35

Figure 1

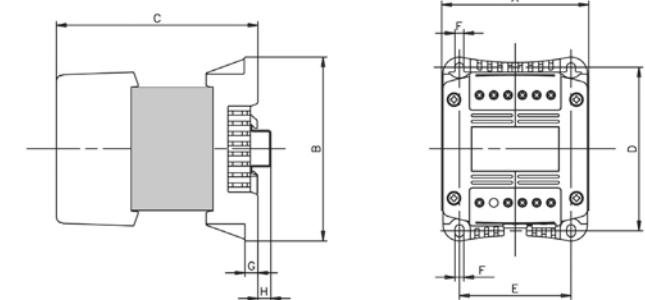
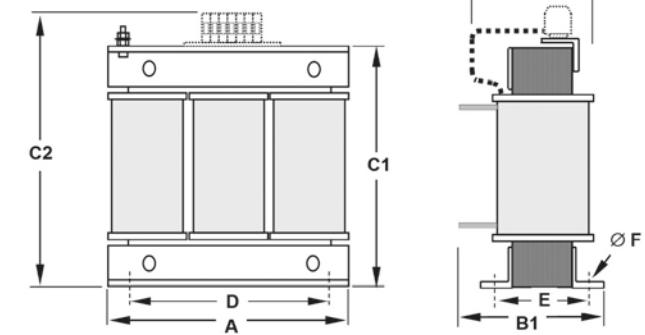


Figure 2



**DC Reactor**

Voltage	Reference	Fig	Dimensions (mm)								Weight
			A	B	C	D	E	F	G	H	
200 V	AX-RC21400016-DE	1	84	113	96	101	66	5	7.5	2	1.22
	AX-RC10700032-DE				105						1.60
	AX-RC06750061-DE				116						1.95
	AX-RC03510093-DE				108	135	124	120	82	6.5	9.5
	AX-RC02510138-DE		120	152	136	135	94	7	9.5	-	3.20
	AX-RC01110309-DE				146						5.20
	AX-RC00840437-DE				150	177	160	160	115	2	6.00
	AX-RC00590614-DE				183	11.40					
	AX-RC00440859-DE	2	195	161	163	185	88	10	-	-	14.30
	AX-RC00301275-DE				195						17
400 V	AX-RC43000020-DE	1	84	113	96	101	66	5	7.5	2	1.22
	AX-RC27000030-DE				105						1.60
	AX-REC14000047-DE				116						1.95
	AX-RC10100069-DE				108	135	133	120	82	6.5	9.5
	AX-RC06400116-DE		120	152	136	135	94	7	9.5	-	3.70
	AX-RC04410167-DE				146						5.20
	AX-RC03350219-DE				150	177	160	160	115	2	6.00
	AX-RC02330307-DE				183	11.4					
	AX-RC01750430-DE	2	195	161	163	185	88	10	-	-	14.3
	AX-RC01200644-DE				196						17
	AX-RC00920797-DE				196						25

Figure 1

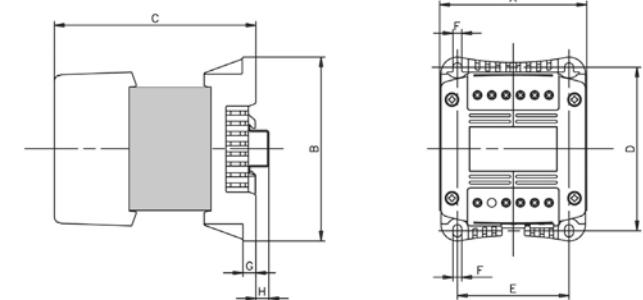
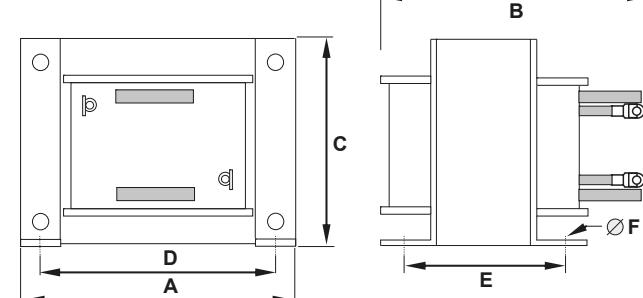
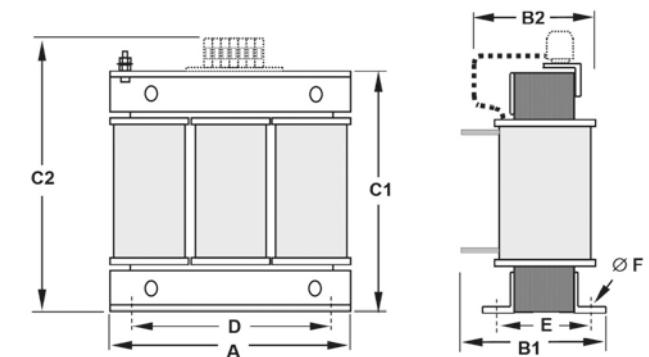


Figure 2



## Output AC Reactor

Voltage	Reference	Dimensions (mm)						Weight (kg)
		A	B2	C2	D	E	F	
200 V	AX-RAO11500026-DE	120	70	120	80	52	5.5	1.78
	AX-RAO07600042-DE		80			62		2.35
	AX-RAO04100075-DE		85	195	140	55	6	5.5
	AX-RAO03000105-DE		95			65		6.5
	AX-RAO01830160-DE	180	105	210	140	75		9.1
	AX-RAO01150220-DE		110			75		11.7
	AX-RAO00950320-DE		120	275	200	75		16.0
	AX-RAO00630430-DE		120			85		
	AX-RAO00490640-DE	240	110	210	140	55	6	18.6
	AX-RAO00390800-DE		110			65		
	AX-RAO00330950-DE		120			75		
400 V	AX-RAO16300038-DE		80	195	140	62	5.5	2.35
	AX-RAO11800053-DE		85			55		5.5
	AX-RAO07300080-DE		95			65		6.5
	AX-RAO04600110-DE		110	275	200	75		9.1
	AX-RAO03600160-DE		120			85	6	16.0
	AX-RAO02500220-DE		120			75		
	AX-RAO02000320-DE		120			85		
	AX-RAO01650400-DE		120			75		
	AX-RAO01300480-DE		120			85		
	AX-RAO00800750-DE		120			75		



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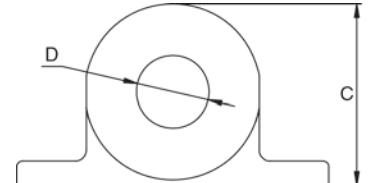
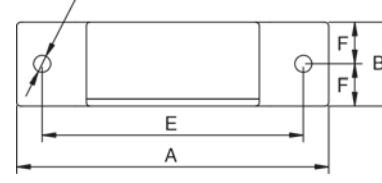
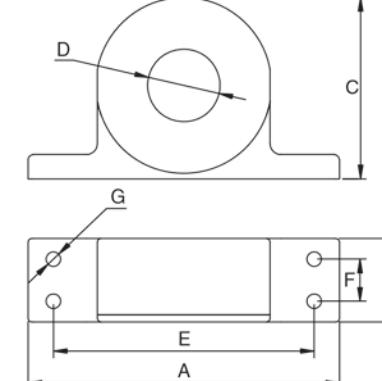


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**Chokes**

Reference	D (diameter)	Motor (kW)	Dimensions (mm)							Weight (Kg)		
			A	B	C	D	E	F	G (diameter)			
AX-FER2102-PE	21	< 2.2	86	24	50	21	70	12		0.09		
AX-FER2815-PE	28	< 15	106	25	65	28	90	12.5	4	0.22		
AX-FER5045-PE	50	< 45	150	51	112	50	125	30	5	0.53		

## Braking resistor

Fig. 1

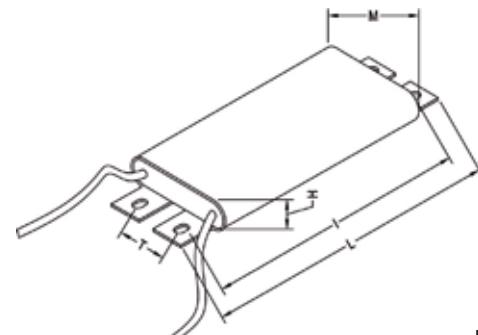


Fig. 2

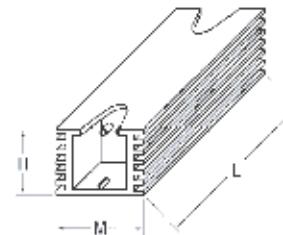


Fig. 3

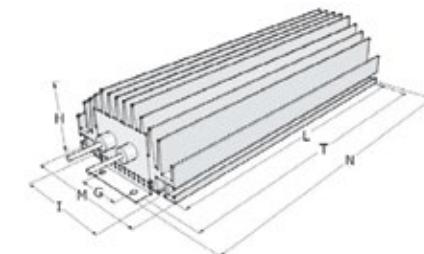


Fig. 4

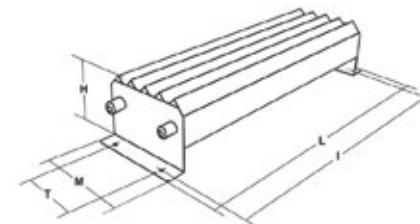
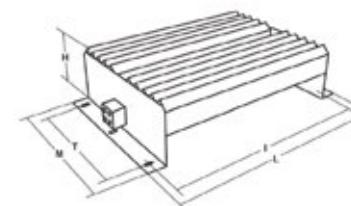


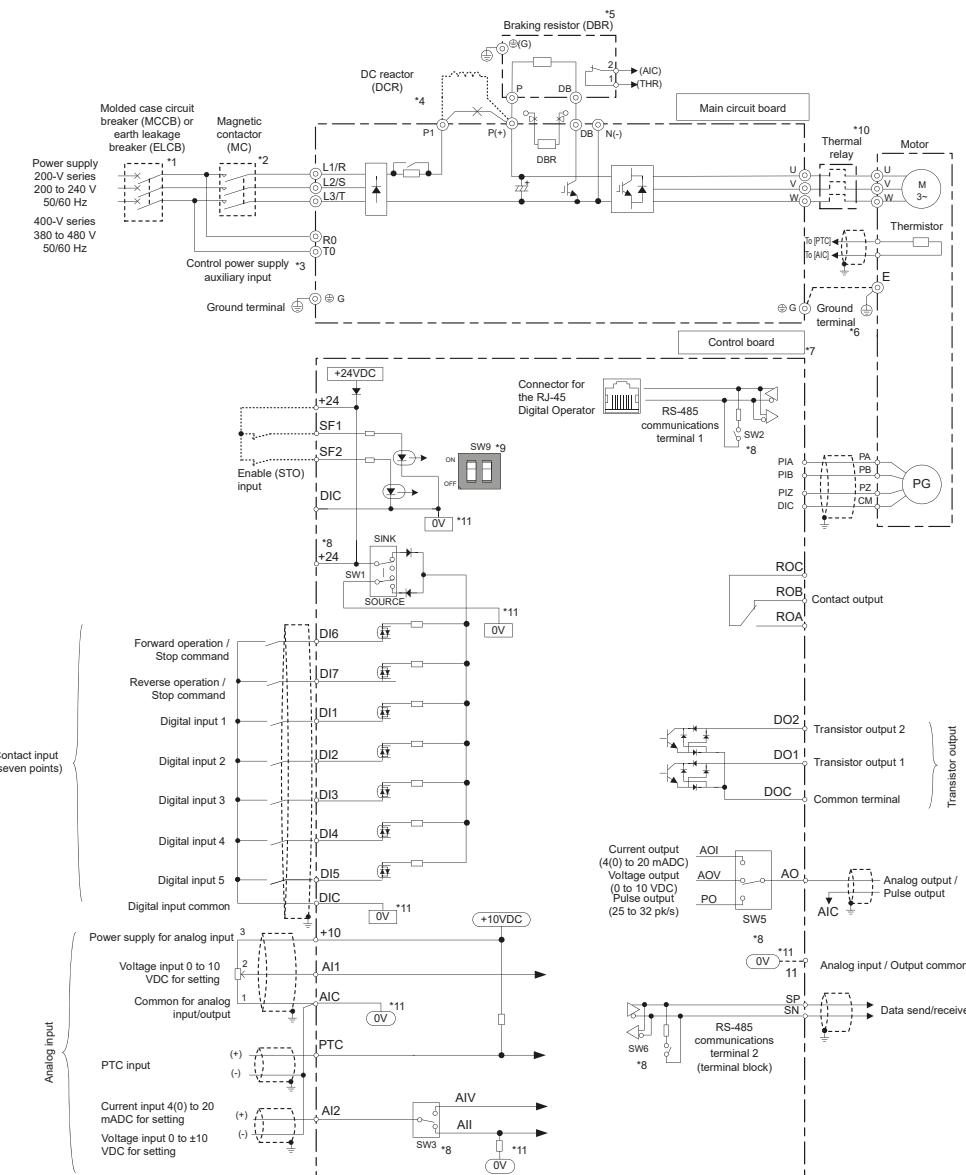
Fig. 5



Type	Fig	Dimensions (mm)								Weight (kg)
		L	H	M	I	T	G	N		
AX-REM00K1xxx-IE	1	182	13	45	168	20				0.27
AX-REM00K2xxx-IE		105			94					0.17
AX-REM00K3xxx-IE		155		27	144					0.26
AX-REM00K4xxx-IE		200			189					0.425
AX-REM00K6xxx-IE		320			309					0.73
AX-REM00K9xxx-IE	2	200				216		230		1.41
AX-REM01K1xxx-IE		260		61	100	74.5	276		290	1.83
AX-REM01K3xxx-IE		320					336		350	2.25
AX-REM01K9xxx-IE		365	73		105	350	70			4
AX-REM02K1xxx-IE	3	310		115	230	295		170		7
AX-REM03K5xxx-IE		365				350				8

# Installation

## Standard connections



## Main circuit

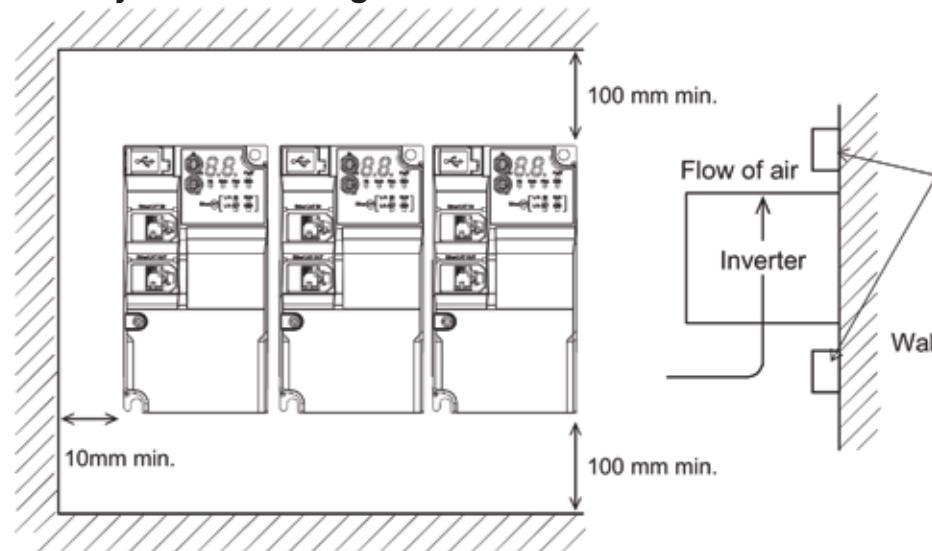
Terminal	Name	Function
L1/R, L2/S, L3/T	Main supply terminals (3G3M1-A2 and 3G3M1-A4)	Used to connect a power supply
L1/L, L2/N	Main circuit power supply input (3G3M1-AB_)	Used to connect a power supply
U, V, W	Inverter output terminal	Used to connect a motor
P(+), DB	Braking resistor connection	To connect a braking resistor
P1, P(+)	DC reactor connection Regenerative braking unit connection terminal	Remove the short-circuit to connect the optional DC reactor
P(+), N(-)		Connect optional regenerative braking unit if braking torque produced by internal braking transistor is not enough
R0, T0	Control power supply auxiliary input	Only available for inverter size of 18 KW or more. Helps to keep control signal, digital operator or communications alive while main supply is off. 3G3M1-A2185: Single-phase 200 to 240 V, 50/60Hz 3G3M1-A4185/220: Single-phase 220 to 480 V, 50/60Hz
G	Ground terminal	Connect the terminal to ground.

## Control circuit

Type	Terminal	Name	Function (Signal level)
Digital input signals	DI1	Multi-Function Digital Input 1 (Multi-speed 1)	
	DI2	Multi-Function Digital Input 2 (Multi-speed 2)	Voltage levels between input and the DIC: ON voltage: 20 V min OFF voltage 2 V max
	DI3	Multi-Function Digital Input 3 (Multi-speed 3)	Maximum 27 VDC
	DI4	Multi-Function Digital Input 4 (Free run stop)	Load current (DI1, DI2): 2.5 to 16 mA (at 27 V) Load current (DI3 to DI7): 2.5 to 5 mA (at 27 V)
	DI5	Multi-Function Digital Input 5 (Reset)	Impedance: 5.4 kΩ
	DI6	Multi-Function Digital Input 6 (Forward)	
	DI7	Multi-Function Digital Input 7 (Reverse)	
	DIC	Input Signal common	Common terminal for the digital input.
Safety digital inputs	SF1	Safe input 1	Voltage levels between input and the DIC ON voltage: 20 V min OFF voltage: 2 V max Maximum 27 VDC
	SF2	Safe input 2	Load current: 2.5 to 5 mA (at 27 V) Impedance: 6.6 kΩ
Pulse	PIA	Pulse and encoder input	Voltage between input and DIC (5 to 24 VDC) ON voltage: 4V min OFF voltage: 2 V max Maximum 27 VDC Frequency: 32 KHz max Impedance: 7.2 kΩ
	PIB		
	PIZ		

Type	Terminal	Name	Function (Signal level)
Analog input signals	+10	Power supply for analog input	Max: 10 mA
	AI1	Voltage input	-10 to 10 VDC, 22 kΩ, range -15 to 10 VDC
	AI2	Current input	4 to 20 mA, 250 Ω, range 0 to 30 mA
	AIC	Input common	
	PTC	External thermistor input	Thermistor between the PTC and the AIC.
Fault relay output	ROA	Relay output terminal NO	Relay output 250 VAC, 0.3 A 48 VDC, 0.5 A
	ROB	Relay output terminal NC	
	ROC	Relay output common	
Multi-function photocoupler outputs	DO1	Multi-Function Photocoupler Output 1 (During Run)	Open collector output across DO1-DOC Max Voltage 48 VDC and 50 mA
	DO2	Output 2 (Thermal warning)	
	DOC	Output signal common	
+24	+24	Power supply terminal	Max 100 mA
Monitor Outputs	AO/PO	Pulse train output	32 kHz max, 11 VDC, 2 mA max
	AO/AOV	Voltage monitor	0 to 10 V / 0 to 100 %. 5 kΩ
	AO/AOI	Current monitor	4 to 20 mA, 500 Ω
Serial comms	SP	Modbus terminal (RS-485)	SP RS-485 differential (+) signal
	SN		SN RS-485 differential (-) signal

## Side by side mounting



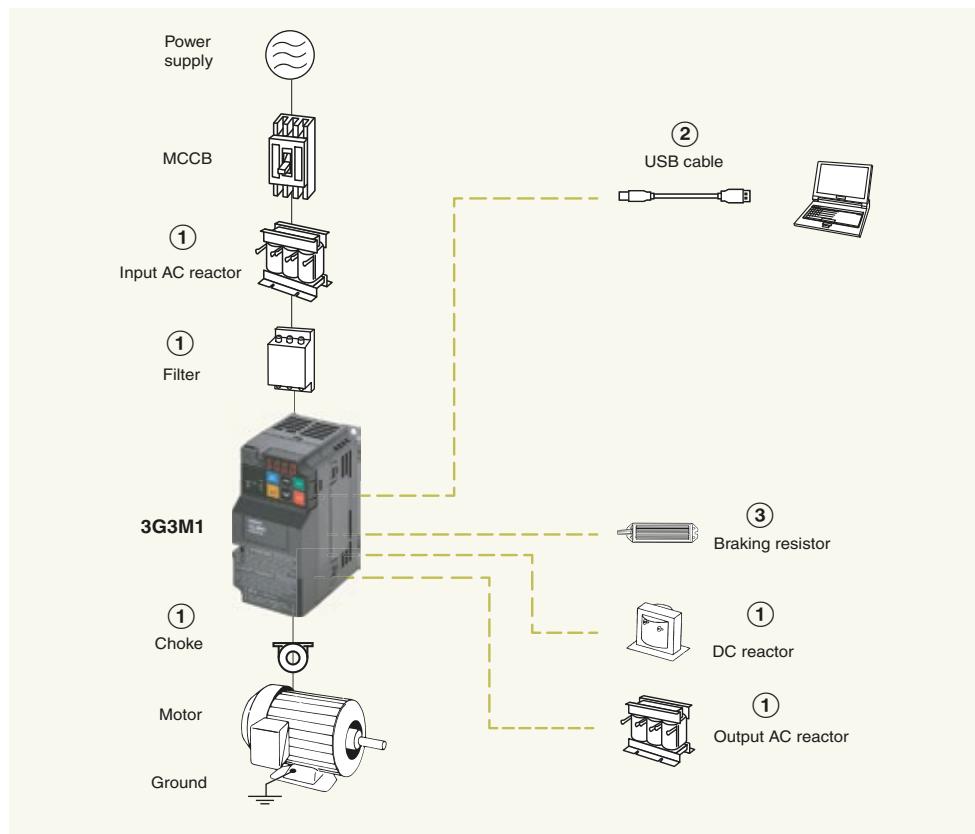
ADD 4 mm gap between drives (Side by side reduces by 10 °C ambient temperature specifications)

## Drive watt loss

Max motor capacity	200 V			400 V		
	Loss at 0 % load [W]	Loss at 100 % load of the rated current [W]	Efficiency at 100 % load [W]	Loss at 0 % load [W]	Loss at 100 % load of the rated current [W]	Efficiency at 100 % load [W]
0.2	10	22	90	—	—	—
0.4	10	30	93	10	35	92
0.75	12 (10) <sup>*1</sup>	48	94	10	56	93
1.5	12	79	95	12	96	94
2.2	12	104	95.5	12	116	95
3	—	—	—	12	125	96
3.7	12	154	96	—	—	—
4	—	—	—	12	167	96
5.5	14	229	96	14	229	96
7.5	14	313	96	14	296	96.2
11	19	458	96	19	411	96.4
15	19	625	96	19	528	96.5

\*1. The value in parentheses () for single phase 200 V class inverter

## Ordering information



**M1 drive**

Voltage	Specifications								Model 3G3M1-□	
	ND		HD		HND		HHD			
	Max motor (kW)	Rated current (A)								
Single phase 200 V	-				0.4	1.9	0.2	1.6	AB002	
					0.55	3.5	0.4	3.0	AB004	
					1.1	5.3	0.75	5.0	AB007	
					2.2	9.6	1.5	8.0	AB015	
					3	11.2	2.2	11	AB022	
					-		3.7	17.5	AB037	
					0.4	2.0	0.2	1.6	A2002	
					0.75	3.5	0.4	3.0	A2004	
					1.1	6.0	0.75	5.0	A2007	
					2.2	9.6	1.5	8.0	A2015	
3 phase 200 V	-				3.0	12	2.2	11	A2022	
					5.5	19.6	3.7	17.5	A2037	
					7.5	30	5.5	25	A2055	
					11	40	7.5	33	A2075	
					15	56	11	47	A2110	
					18.5	69	15	60	A2150	
					22	88	18.5	76	A2185	
		0.75	2.1	0.75	1.8	0.75	2.1	0.4	1.8	
		1.5	4.1	1.1	3.4	1.1	4.1	0.75	3.4	
		2.2	5.5	2.2	5	2.2	5.5	1.5	4.8	
3 phase 400 V	-	3.0	6.9	3.0	6.3	3.0	6.9	2.2	5.5	
		4	9.2	4	8.8	4	8.8	3	7.2	
		5.5	12	5.5	11.1	5.5	11.1	4	9.2	
		11	21.5	7.5	17.5	7.5	17.5	5.5	14.8	
		15	28.5	11	23	11	23	7.5	18	
		18.5	37	15	31	15	31	11	24	
		22	44	18.5	38	18.5	38	15	31	
		30	59	22	45	22	45	18.5	39	
		37	72	30	60	30	60	22	45	
									A4220	

## ① Line filters

Drive		Standard line filter		Low leakage line filter	
Voltage	Model 3G3M1-A□	Reference	Current (A)	Reference	Current (A)
Single-phase 200 V	B002 to B007	AX-FIC1014-SE	13.8	AX-FIC1014-SE-LL	13.8
	B015	AX-FIC1021-SE	20.2	AX-FIC1021-SE-LL	20.2
	B022	AX-FIC1026-SE	26	AX-FIC1026-SE-LL	26
	B037	AX-FIC1045-SE	45.4	AX-FIC1045-SE-LL	45.4
Three-phase 200 V	2001/2002	AX-FIC4004-SE	3.9	AX-FIC4004-SE-LL	3.9
	2004/2007	AX-FIC4011-SE	11.3	AX-FIC4011-SE-LL	11.3
	2015	AX-FIC4017-SE	16.8	AX-FIC4017-SE-LL	16.8
	2022/2037/2055	AX-FIC4044-SE	43.8	AX-FIC4044-SE-LL	43.8
	2075/2110	AX-FIC4061-SE	60.6	AX-FIC4061-SE-LL	60.6
	2150	–	Contact Omron for details	–	
	2185	–	Contact Omron for details	–	
	4004/4007	AX-FIC4004-SE	3.9	AX-FIC4004-SE-LL	3.9
Three-phase 400 V	4015/4022	AX-FIC4011-SE	11.3	AX-FIC4011-SE-LL	11.3
	4030/4040	AX-FIC4017-SE	16.8	AX-FIC4017-SE-LL	16.8
	4055/4075	AX-FIC4044-SE	43.8 <sup>*1</sup>	AX-FIC4044-SE-LL	43.8 <sup>*1</sup>
	4110/4150	AX-FIC4061-SE	60.6 <sup>*1</sup>	AX-FIC4061-SE-LL	60.6 <sup>*1</sup>
	4185/4220	AX-FIC4095-SE	94.3 <sup>*1</sup>	AX-FIC4095-SE-LL	94.3 <sup>*1</sup>

<sup>\*1</sup>. Current at 40°C

**Note:** 200 V Three-phase filters are not footprint. (Smaller filter could be used in some cases if DC reactor is used).

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## ① DC reactors

400 V Three phase						200 V Single phase					
3G3M1	Rating	Reference	mH	A	Losses W	3G3M1	Rating	Reference	mH	A	Losses W
4004	HHD	AX-RC43000020-DE	43.0	2.0	17	B002	HHD	AX-RC10700032-DE	10.7	3.2	14
	HD/HND	AX-RC27000030-DE	27.0	3.0	21		HND	AX-RC06750061-DE	6.75	6.1	18
	ND	AX-RC27000030-DE	27.0	3.0	21		HHD	AX-RC06750061-DE	6.75	6.1	18
4007	HHD	AX-RC27000030-DE	27.0	3.0	21	B004	HND	AX-RC03510093-DE	3.51	9.3	20
	HD/HND	AX-RC14000047-DE	14.0	4.7	25		HHD	AX-RC03510093-DE	3.51	9.3	20
	ND	AX-RC14000047-DE	14.0	4.7	25		HND	AX-RC02510138-DE	2.51	13.8	24
4015	HHD	AX-RC14000047-DE	14.0	4.7	25	B015	HHD	AX-RC02510138-DE	2.51	13.8	24
	HD/HND	AX-RC10100069-DE	10.1	6.9	28		HND	AX-RC01600223-DE	1.60	22.3	30
	ND	AX-RC10100069-DE	10.1	6.9	28		HHD	AX-RC01600223-DE	1.60	22.3	30
4022	HHD	AX-RC10100069-DE	10.1	6.9	28	B022	HND	AX-RC01110309-DE	1.11	30.9	40
	HD/HND	AX-RC06400116-DE	6.4	11.6	32		HHD	AX-RC01110309-DE	1.11	30.9	40
	ND	AX-RC06400116-DE	6.4	11.6	32		HND	—			
4030	HHD	AX-RC06400116-DE	6.4	11.6	32	200 V Three phase					
	HD/HND	AX-RC06400116-DE	6.4	11.6	32	2002	HHD	AX-RC21400016-DE	21.4	1.6	7
	ND	AX-RC06400116-DE	6.4	11.6	32		HND	AX-RC10700032-DE	10.7	3.2	14
4040	HHD	AX-RC06400116-DE	6.4	11.6	32	2004	HHD	AX-RC10700032-DE	10.7	3.2	14
	HD/HND	AX-RC04410167-DE	4.4	16.7	40		HND	AX-RC06750061-DE	6.75	6.1	18
	ND	AX-RC04410167-DE	4.4	16.7	40		HHD	AX-RC06750061-DE	6.75	6.1	18
4055	HHD	AX-RC04410167-DE	4.4	16.7	40	2007	HND	AX-RC03510093-DE	3.51	9.3	20
	HD/HND	AX-RC03350219-DE	3.35	21.9	47		HHD	AX-RC03510093-DE	3.51	9.3	20
	ND	AX-RC02330307-DE	2.33	30.7	63		HND	AX-RC02510138-DE	2.51	13.8	24
4075	HHD	AX-RC03350219-DE	3.35	21.9	47	2022	HHD	AX-RC02510138-DE	2.51	13.8	24
	HD/HND	AX-RC02330307-DE	2.33	30.7	63		HND	AX-RC01600223-DE	1.60	22.3	30
	ND	AX-RC01750430-DE	1.75	43.0	77		HHD	AX-RC01600223-DE	1.60	22.3	30
4110	HHD	AX-RC02330307-DE	2.33	30.7	63	2037	HND	AX-RC01110309-DE	1.11	30.9	40
	HD/HND	AX-RC01750430-DE	1.75	43.0	77		HHD	AX-RC01110309-DE	1.11	30.9	40
	ND	AX-RC01750430-DE	1.75	43.0	77		HND	AX-RC00840437-DE	0.84	43.7	46
4150	HHD	AX-RC01750430-DE	1.75	43.0	77	2075	HHD	AX-RC00840437-DE	0.84	43.7	46
	HD/HND	AX-RC01750430-DE	1.75	43.0	77		HND	AX-RC00590614-DE	0.59	61.4	60
	ND	AX-RC01200644-DE	1.20	64.4	99		HHD	AX-RC00590614-DE	0.59	61.4	60
4185	HHD	AX-RC01750430-DE	1.75	43.0	77	2110	HND	AX-RC00440859-DE	0.44	85.9	75
	HD/HND	AX-RC01200644-DE	1.20	64.4	99		HHD	AX-RC00440859-DE	0.44	85.9	75
	ND	AX-RC00920797-DE	0.92	79.7	111		HND	AX-RC00440859-DE	0.44	85.9	75
4220	HHD	AX-RC01200644-DE	1.20	64.4	99	2185	HHD	AX-RC00440859-DE	0.44	85.9	75
	HD/HND	AX-RC00920797-DE	0.92	79.7	111		HND	AX-RC00301275-DE	0.3	127.5	107
	ND	AX-RC00920797-DE*	0.92	79.7	111		—				

## ① Input AC reactor (Considering DC reactor is installed)

400 V Three phase						200 V Single phase					
3G3M1	Rating	Reference	mH	A	Losses	3G3M1	Rating	Reference	mH	A	Losses
4004	HHD	AX-RAI07700042-DE	7.7	4.2	32	B002	HHD	AX-RAI02000070-DE	2.0	7.0	14
	HD/HND	AX-RAI07700042-DE	7.7	4.2	32		HND	AX-RAI02000070-DE	2.0	7.0	14
	ND	AX-RAI07700042-DE	7.7	4.2	32		HHD	AX-RAI02000070-DE	2.0	7.0	14
4007	HHD	AX-RAI03700040-DE	3.7	4.0	18	B004	HND	AX-RAI02000070-DE	2.0	7.0	14
	HD/HND	AX-RAI03700040-DE	3.7	4.0	18		HHD	AX-RAI01700140-DE	1.7	14.0	22
	ND	AX-RAI03700040-DE	3.7	4.0	18		HND	AX-RAI01700140-DE	1.7	14.0	22
4015	HHD	AX-RAI02800080-DE	2.8	8.0	31	B015	HHD	AX-RAI01700140-DE	1.7	14.0	22
	HD/HND	AX-RAI02800080-DE	2.8	8.0	31		HND	AX-RAI01700140-DE	1.7	14.0	22
	ND	AX-RAI02800080-DE	2.8	8.0	31		HHD	AX-RAI01200200-DE	1.2	20.0	24
4022	HHD	AX-RAI01630090-DE	1.63	9.0	40	B022	HND	AX-RAI00630240-DE	0.63	24.0	26
	HD/HND	AX-RAI01630090-DE	1.63	9.0	40		HHD	AX-RAI00210330-DE*1	0.21	33.0	69
	ND	AX-RAI01630090-DE	1.63	9.0	40		-				
4030	HHD	AX-RAI01630090-DE	1.63	9.0	40	200 V Three phase					
	HD/HND	AX-RAI01630090-DE	1.63	9.0	40	2002	HHD	AX-RAI02920030-DE	2.92	3.0	8
	ND	AX-RAI01630090-DE	1.63	9.0	40		HND	AX-RAI02920030-DE	2.92	3.0	8
4040	HHD	AX-RAI01300170-DE	1.30	17.0	67	2004	HHD	AX-RAI01570050-DE	1.57	5.0	12
	HD/HND	AX-RAI01300170-DE	1.30	17.0	67		HND	AX-RAI01570050-DE	1.57	5.0	12
	ND	AX-RAI01300170-DE	1.30	17.0	67		HHD	AX-RAI01570050-DE	1.57	5.0	12
4055	HHD	AX-RAI00810180-DE	0.81	18.0	79	2007	HND	AX-RAI00940080-DE	0.94	8.0	18
	HD/HND	AX-RAI00810180-DE	0.81	18.0	79		HHD	AX-RAI00940080-DE	0.94	8.0	18
	ND	AX-RAI00740335-DE	0.74	33.5	79		HND	AX-RAI00670110-DE	0.67	11.0	24
4075	HHD	AX-RAI00810180-DE	0.81	18.0	79	2022	HHD	AX-RAI00670110-DE	0.67	11.0	24
	HD/HND	AX-RAI00740335-DE	0.74	33.5	240		HND	AX-RAI00450170-DE	0.45	17.0	39
	ND	AX-RAI00440300-DE	0.44	30.0	119		HHD	AX-RAI00450170-DE	0.45	17.0	39
4110	HHD	AX-RAI00740335-DE	0.74	33.5	240	2037	HND	AX-RAI00290250-DE	0.29	25.0	54
	HD/HND	AX-RAI00440300-DE	0.44	30.0	119		HHD	AX-RAI00290250-DE	0.29	25.0	54
	ND	AX-RAI00360500-DE	0.36	50.0	85		HND	AX-RAI00210330-DE	0.21	33.0	69
4150	HHD	AX-RAI00440300-DE	0.44	30.0	119	2075	HHD	AX-RAI00210330-DE	0.21	33.0	69
	HD/HND	AX-RAI00360500-DE	0.36	50.0	85		HND	AX-RAI00180670-DE	0.18	67.0	71
	ND	AX-RAI00300450-DE	0.30	45.0	182		HHD	AX-RAI00180670-DE	0.18	67.0	71
4185	HHD	AX-RAI00360500-DE	0.36	50.0	85	2110	HND	AX-RAI00110600-DE	0.11	60.0	119
	HD/HND	AX-RAI00300450-DE	0.30	45.0	182		HHD	AX-RAI00110600-DE	0.11	60.0	119
	ND	AX-RAI00191150-DE	0.19	115.0	177		HND	AX-RAI00091000-DE	0.09	100.0	84
4220	HHD	AX-RAI00290780-DE	0.29	78.0	116	2185	HHD	AX-RAI00091000-DE	0.09	100.0	84
	HD/HND	AX-RAI00191150-DE	0.19	115.0	177		HND	AX-RAI00076870-DE	0.07	87.0	173
	ND	AX-RAI00191150-DE	0.19	115.0	177	-					

Note: This table corresponds with ND/HND rating. When using HD in some case it could be possible to select a smaller size.

## ① Output AC reactors

200 V					Three-phase 400 V				
3G3M1-A□	Rating	Output AC reactor	mH	A	3G3M1-A□	Rating	Output AC reactor	mH	A
B002/2002	HHD	AX-RAO11500026-DE	11.5	2.6	4004	HHD	AX-RAO16300038-DE	16.3	3.8
	HND	AX-RAO11500026-DE	11.5	2.6		HD/HND	AX-RAO16300038-DE	16.3	3.8
B004/2004	HHD	AX-RAO07600042-DE	7.6	4.2	4007	ND	AX-RAO16300038-DE	16.3	3.8
	HND	AX-RAO07600042-DE	7.6	4.2		HHD	AX-RAO16300038-DE	16.3	3.8
B007/2007	HHD	AX-RAO04100075-DE	4.1	7.5	4007	HD/HND	AX-RAO11800053-DE	11.8	5.3
	HND	AX-RAO04100075-DE	4.1	7.5		ND	AX-RAO11800053-DE	11.8	5.3
B015/2015	HHD	AX-RAO03000105-DE	3.0	10.5	4015/4022	HHD	AX-RAO11800053-DE	11.8	5.3
	HND	AX-RAO03000105-DE	3.0	10.5		HD/HND	AX-RAO07300080-DE	7.3	8.0
B022/2022	HHD	AX-RAO01830160-DE	1.8	16.0	4030	ND	AX-RAO07300080-DE	7.3	8.0
	HND	AX-RAO01830160-DE	1.8	16.0		HHD	AX-RAO04600110-DE	4.6	11.0
B037/2037	HHD	AX-RAO01150220-DE	1.15	22.0	4030	HD/HND	AX-RAO04600110-DE	4.6	11.0
	HND	AX-RAO01150220-DE	1.15	22.0		ND	AX-RAO04600110-DE	4.6	11.0
2055	HHD	AX-RAO00950320-DE	0.95	32.0	4040	HHD	AX-RAO04600110-DE	4.6	11.0
	HND	AX-RAO00950320-DE	0.95	32.0		HD/HND	AX-RAO03600160-DE	3.6	16.0
2075	HHD	AX-RAO00630430-DE	0.63	43.0	4055	ND	AX-RAO03600160-DE	3.6	16.0
	HND	AX-RAO00630430-DE	0.63	43.0		HHD	AX-RAO03600160-DE	3.6	16.0
2110	HHD	AX-RAO00490640-DE	0.49	64.0	4075	HD/HND	AX-RAO02500220-DE	2.5	22.0
	HND	AX-RAO00490640-DE	0.49	64.0		ND	AX-RAO02500220-DE	2.5	22.0
2150	HHD	AX-RAO00490640-DE	0.49	64.0	4110	HHD	AX-RAO02500220-DE	2.5	22.0
	HND	AX-RAO00390800-DE	0.39	80.0		HD/HND	AX-RAO02000320-DE	0.20	32.0
2185	HHD	AX-RAO00390800-DE	0.39	80.0	4150	ND	AX-RAO02000320-DE	0.20	32.0
	HND	AX-RAO00330950-DE	0.33	95.0		HHD	AX-RAO02000320-DE	0.20	32.0
-					4185	HD/HND	AX-RAO02000320-DE	0.20	32.0
						ND	AX-RAO01650400-DE	0.16	40.0
					4220	HHD	AX-RAO01650400-DE	0.16	40.0
						HD/HND	AX-RAO01650400-DE	0.16	40.0
					4220	ND	AX-RAO01300480-DE	0.13	48.0
						HHD	AX-RAO01300480-DE	0.13	48.0
					4220	HD/HND	AX-RAO01300480-DE	0.13	48.0
						ND	AX-RAO00800750-DE	0.08	75.0
					4220	HHD	AX-RAO00800750-DE	0.08	75.0
						HD/HND	AX-RAO00800750-DE	0.08	75.0
					4220	ND	AX-RAO00800750-DE	0.08	75.0

Note: This table corresponds with ND/HND rating. When using HD in some case it could be possible to select a smaller size.

## ① Chokes

Diameter	Description	Model
21	For 2.2 KW motors or below	AX-FER2102-PE
28	For 15 KW motors or below	AX-FER2815-PE
50	For 45 KW motors or below	AX-FER5045-PE

## ② Accessories

Description	Functions	Model
USB cable	Use a commercially available USB cable that is double-shielded, gold-plated and supports USB 2.0. The Micro B type USB cable can be used.	–

## Software tools

Description	Functions	Number licenses	Media	Model
Sysmac Studio Standard Edition Ver.1.XX	The Sysmac Studio is the software that provides an integrated environment for setting, programming, debugging and maintenance of machine automation controllers including NJ/NX-series CPU Units, NY-series Industrial PC, EtherCAT Slaves, and HMI. Sysmac Studio runs on the following OS: Windows 7 (32-bit/64-bit version)/Windows 8.1 (32-bit/64-bit version) Windows 10 (32-bit/64-bit version)/Windows 11 (64-bit version) This software provides functions of the Vision Edition. Refer to your local OMRON website for details such as supported models and functions.	(Media only)	Sysmac Studio (32 bit) DVD	SYSMAC-SE200D
	(Media only)	Sysmac Studio (64 bit) DVD	SYSMAC-SE200D-64	
	1 license	–	SYSMAC-SE201L	
	1 license	–	SYSMAC-DE001L	
Sysmac Studio Drive Edition Ver.1.XX	Sysmac Studio Drive Edition is a limited license that provides selected functions required for 1S-series Servo, G5-series Servo and M1 Series Inverter System settings. Because this product is a license only, you need the Sysmac Studio Standard Edition DVD media to install it.			

### ③ Braking resistor

Voltage	3G3M1-A□	Conn. min. resistance	Resistor proposal fast stop (10s not cyclic)		Braking resistor (3% ED, 10 sec)				Braking resistor (10% ED, 10sec)			
			Model	Specifications	Model	Specifications	Model	Specifications	Model	Specifications	Model	Specifications
1 phase 200 V	B002	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K2100-IE	200 W	100 Ω	
	B004		AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K2100-IE	200 W	100 Ω	
	B007		AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K2100-IE	200 W	100 Ω	
	B015	40 Ω	AX-REM00K2040-IE	200 W	40 Ω	AX-REM00K2050-IE	200 W	50 Ω	AX-REM00K4050-IE	400 W	50 Ω	
	B022		AX-REM00K2040-IE	200 W	40 Ω	AX-REM00K2050-IE	200 W	50 Ω	AX-REM00K4050-IE	400 W	50 Ω	
	B037		AX-REM00K4040-IE	400 W	40 Ω	AX-REM00K4050-IE	400 W	50 Ω	AX-REM00K6050-IE	600 W	50 Ω	
3 phase 400 V	4004	200 Ω	AX-REM00K1200-IE	100 W	200 Ω	AX-REM00K1200-IE	100 W	200 Ω	AX-REM00K4200-IE	400 W	200 Ω	
	4007		AX-REM00K1200-IE	100 W	200 Ω	AX-REM00K1200-IE	100 W	200 Ω	AX-REM00K4200-IE	400 W	200 Ω	
	4015	160 Ω	AX-REM00K3160-IE	300 W	160 Ω	AX-REM00K1200-IE	100 W	200 Ω	AX-REM00K4200-IE	400 W	200 Ω	
	4022		AX-REM00K3160-IE	300 W	160 Ω	AX-REM00K1200-IE	100 W	200 Ω	AX-REM00K4200-IE	400 W	200 Ω	
	4030	130 Ω	AX-REM00K4130-IE	400 W	130 Ω	AX-REM00K2150-IE	200 W	150 Ω	AX-REM00K6150-IE	600 W	150 Ω	
	4040		AX-REM00K4130-IE	400 W	130 Ω	AX-REM00K2150-IE	200 W	150 Ω	AX-REM00K6150-IE	600 W	150 Ω	
	4055	80 Ω	AX-REM00K6080-IE	600 W	80 Ω	AX-REM00K3100-IE	300 W	100 Ω	AX-REM00K9100-IE	900 W	100 Ω	
	4075	60 Ω	AX-REM00K9060-IE	900 W	60 Ω	AX-REM00K4070-IE	400 W	70 Ω	AX-REM01K3070-IE	1300 W	70 Ω	
	4110	40 Ω	AX-REM00K9040-IE	900 W	40 Ω	AX-REM00K4050-IE	400 W	50 Ω	AX-REM01K9050-IE	1900 W	50 Ω	
	4150	34.4 Ω	AX-REM00K9040-IE	900 W	40 Ω	AX-REM00K4050-IE	400 W	50 Ω	AX-REM01K9050-IE	1900 W	50 Ω	
	4185	16 Ω	AX-REM01K9017-IE	1900 W	17 Ω	AX-REM01K1020-IE	1100 W	20 Ω	AX-REM03K5020-IE	3500 W	20 Ω	
	4220		AX-REM01K9017-IE	1900 W	17 Ω	AX-REM01K1020-IE	1100 W	20 Ω	AX-REM03K5020-IE	3500 W	20 Ω	
3 phase 200 V	2002	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K2100-IE	200 W	100 Ω	
	2004		AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K2100-IE	200 W	100 Ω	
	2007		AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K1100-IE	100 W	100 Ω	AX-REM00K2100-IE	200 W	100 Ω	
	2015	40 Ω	AX-REM00K2040-IE	200 W	40 Ω	AX-REM00K2050-IE	200 W	50 Ω	AX-REM00K4050-IE	400 W	50 Ω	
	2022		AX-REM00K2040-IE	200 W	40 Ω	AX-REM00K2050-IE	200 W	50 Ω	AX-REM00K4050-IE	400 W	50 Ω	
	2037	33 Ω	AX-REM00K4035-IE	400 W	35 Ω	AX-REM00K2040-IE	200 W	40 Ω	AX-REM00K4040-IE	400 W	40 Ω	
	2055	20 Ω	AX-REM00K4020-IE	400 W	20 Ω	AX-REM00K3025-IE	300 W	25 Ω	AX-REM00K6030-IE	600 W	30 Ω	
	2075	15 Ω	AX-REM00K6015-IE	600 W	15 Ω	AX-REM00K4020-IE	400 W	20 Ω	AX-REM00K9020-IE	900 W	20 Ω	
	2110	10 Ω	AX-REM00K9010-IE	900 W	10 Ω	AX-REM00K6015-IE	600 W	15 Ω	AX-REM001K1015-IE	1100 W	15 Ω	
	2150	8.6 Ω	AX-REM00K9010-IE	900 W	10 Ω	AX-REM00K6015-IE	600 W	15 Ω	AX-REM001K1015-IE	1100 W	15 Ω	
	2185	4 Ω	AX-REM02K1004-IE	2000 W	4 Ω	AX-REM00K9006-IE	900 W	6 Ω	AX-REM03K5006-IE	3500 W	6 Ω	

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