



» Quality & reliability you can depend on
» Communications built-in
» Cost and eco-friendly

realrzing

The smallest gets integrated...

Omron fully understands your needs, which is why we put quality and reliability first. And we keep listening, so our products come with new features and functionality that save you time and money.

With the RFI filter built-in, and the communications integrated as standard, the JX provides a compact and complete solution to a whole range of simple applications, such as conveyor control.

Key features include:

- Ratings up to 7.5 kW
- RS485 Modbus built-in
- Side-by-side mounting
- EMC filter built-in
- PID function
- Micro-surge voltage suppression
- Automatic energy saving
- Emergency shut-off
- Second motor setting
- Auto carrier-frequency reduction
- PTC thermistor input
- Cooling fan switch control
- RoHS







OMRON Function Block for Pulse Output Positioning OMRON Function Block for Communications.

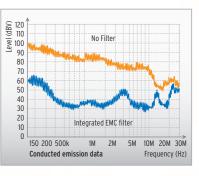
Easy network integration

The RS485 Modbus is built into the RJ45 port in the inverter front, making it very easy to add inverters into the network without any extra option boards. Therefore, saving money and space. Modbus commands are implemented even in low end CP1 PLC family by Modbus-RTU Easy Master functionality, making it easier than ever to integrate the inverters into the network.





Easy communications setting



Space and cost saving

The new JX has a built-in EMC filter that saves on costs and space compared with the standard external filter solution. 1 ph : EN61800-3 cat. C1 3 ph : EN61800-3 cat. C2

Everything on-board for your application

CAL WAY

-EEEEEEE



Silent operation

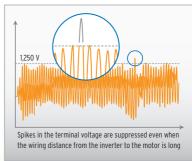
Δ

Depending on the inverter

temperature, switching off the fan

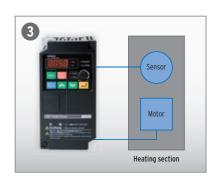
creates a noise-free atmosphere and

prolongs the life time of the product.



Maximise motor life

Advanced PWM control is used to suppress micro-surge voltages that sometimes cause malfunction in 400 V motors. The motor is thus protected and its life is prolonged.



6



No additional devices required

Even advanced functionality such as PID control is standard with the JX inverter making it a convenient solution for applications such as pumps & fans where pressure, flow and other processes need controlling.

Convenient and efficient

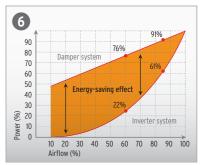
The parameter settings of two different motors can be stored, allowing the inverter to drive different motors with a unique inverter. The two motors are never working at the same time.

Reliable emergency shutdown

6

Emergency stop switc

The IGBT's output is directly switched off from the external input, assuring no energy is supplied to the motor. This hardware-based solution is more reliable than other CPU dependent solutions.



Automatic energy saving

The Inverter always adopts the optimum energy-saving setting for cost savings in such applications as fans and pumps. The inverter can reduce energy consumption by 61% compared with standard mechanical systems.

Reliability with environmental responsibility

Omron is renowned for the reliability of its products. Moreover, Omron's policy is to offer environmentally safe products free from any banned substances.





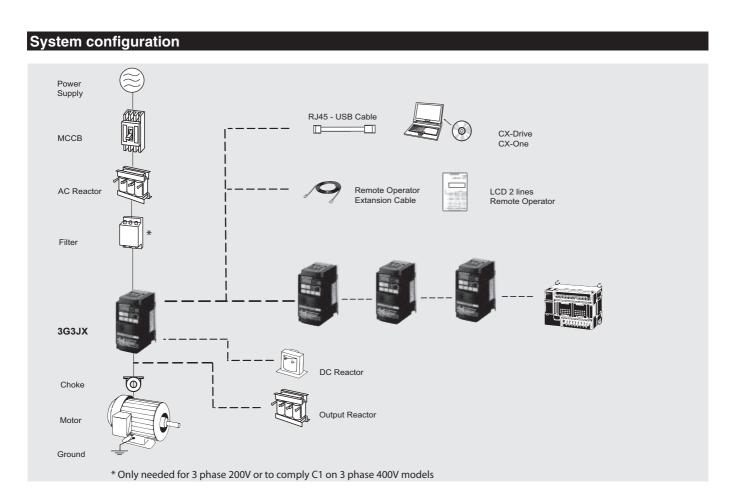
3G3JX AC Drives

Compact & Complete

- V/f controlled inverter
- Side by side mounting
- Built-in EMC filter
- Built-in RS-485 Modbus
- Overload detection function (150% during 60s)
- PID
- Micro-surge voltage suppression
- Automatic energy saving
- · Emergency shut-off
- Second motor setting
- · Auto carrier-frequency reduction
- PTC thermistor input
- · Cooling fan switch control
- PC configuration tool: CX-Drive
- · CE, UL, cUL, RoHS

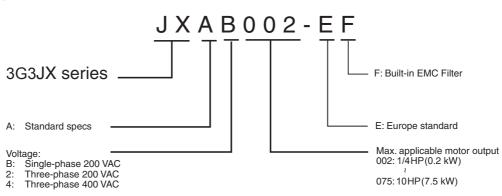
Ratings

- 200 V Class single-phase 1/4 to 3 HP (0.2 to 2.2 kW)
- 200 V Class three-phase 1/4 to 10 HP (0.2 to 7.5 kW)
- 400 V Class three-phase 1/2 to 10 HP (0.4 to 7.5 kW)



Specifications

Type designation



200 V class

	Single-phase: 3G3J	IX 🗆	AB002	AB004	AB007	AB015	AB022	-	-	-		
	Three-phase: 3G3J	X	A2002	A2004	A2007	A2015	A2022	A2037	A2055	A2075		
Motor kW ¹	Applicable motor ca	apacity	0.2 0.4 0.75 1.5 2.2 3.7 5.5 7.5						7.5			
ics	Inverter capacity kVA	200 V	0.4	0.9	1.3	2.4	3.4	5.5	8.3	11.0		
Output aracteristics	inverter capacity KVA	240 V	0.5	1.0	1.6	2.9	4.1	1 6.6 9.9 13.3				
Output acteris	Rated output current (A)		1.4	2.6	4.0	0 7.1 10.0 15.9 24.0 32.0						
ara O	Max. output voltage				Propo	ortional to inpu	t voltage: 0	240 V				
ch	Max. output frequency					400	Hz					
	Rated input voltage and frequency			Single-phase 200240 V 50/60 Hz 3-phase 200240 V 50/60 Hz								
ol c	Rated input current (A)		1.8	3.4	5.2	9.3	13.0	20.0 30.0 40.0				
	Allowable voltage fluctuation					-15%	.+10%					
	Allowable frequency fluctuation					+5	%					
	Built-in filter					EMC filter (C1	single phase)				
	Braking torque	At short-time deceleration At capacitor feedback		Approx. 50%		50% for 3-phase 20 to 40% for 1-phase	Approx 20	0% to 40%	Appro	x 20%		
	Cooling method			Self cooling			Fc	orced-air-cooli	ng			

1. Based on a standard 3-Phase standard motor.

400 V class

	Three-phase: 3G3J	X	A4004	A4007	A4015	A4022	A4040	A4055	A4075	
Motor kW ¹	Applicable motor ca	apacity	0.4	0.75	1.5	2.2	4.0	5.5	7.5	
ics	Inverter capacity kVA	380 V	0.9	1.6	2.5	3.6	5.6	8.5	10.5	
Output racteristics		480 V	1.2	2.0	3.1	4.5	7.1	10.8	13.3	
Output racterist	Rated output current (A)		1.5	2.5	3.8	5.5	8.6	13.0	16.0	
a o	Max. output voltage				Proportiona	I to input voltage	e: 0480 V			
cha	Max. output frequency					400 Hz				
	Rated input voltage and frequency		3-phase 380480 V 50/60 Hz							
er Ser	Rated input current (A)		2.0	3.3	5.0	7.0	11.0	16.5	20.0	
Power supply	Allowable voltage fluctuation					-15%+10%				
	Allowable frequency fluctuation					+5%				
	Built-in filter				E	MC filter C2 clas	SS			
	Braking torque	At short-time deceleration At capacitor feedback	Approx. 50% Approx. 20% to 40% Appr						x. 20%	
	Cooling method		Self c	ooling		F	orced-air-coolin	g		

1. Based on a standard 3-Phase standard motor.

Specifications

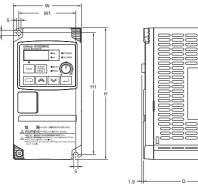
Commom specifications

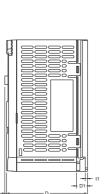
	Model number 3G3JX⊡	Specifications
	Control methods	Phase-to-phase sinusoidal modulation PWM (V/f)
	Output frequency range	0.5400 Hz
ns	Francisco e a contrata a	Digital set value: ±0.01% of the max. frequency
ŝ	Frequency precision	Analogue set value: ±0.4% of the max. frequency (25 ±10 °C)
ŭ	Resolution of frequency set value	Digital set value: 0.1 Hz
olf		Analogue set value: 1/1000 of maximum frequency
Control functions	Resolution of output frequency	0.1Hz
ပိ	Overload capability	150% rated output current for one minute
	Frequency set value	0 to 10 VDC (10KΩ), 4 to 20mA (250Ω), frequency setting volume (selectable), RS485 Modbus
	V/f Characteristics	Constant/ reduced torque
	Inputs signals	FW (forward), RV (reverse), CF1 to CF4 (multi-step speed), JG (jogging), DB (external DC injection braking), SET (2nd func- tion), 2CH (2-step acceleration/deceleration), FRS (free run), EXT (external trip), USP (USP function), SFT (soft lock), AT (analog current input function selection), RS (reset), PTC (thermistor input), STA (3-wire startup), STP (3-wire stop), F/R (3- wire forward/reverse), PID (PID selection), PIDC (PID integral reset), UP (UP of UP/DWN function), DWN (DWN of UP/DWN function), UDC (data clear of UP/DWN function), OPE (forced OPE mode), ADD (frequency addition), F-TM (forced terminal block), RDY (operation ready), SP-SET (special setting), EMR (emergency shutoff)
onality	Output signals	RUN (signal during operation), FA1 (frequency arrival signal 1), FA2 (frequency arrival signal 2), OL (overload warning sig- nal), OD (PID excess deviation signal), AL (alarm signal), DC (analog input disconnection detection signal), FBV (PID FB status output), NDc (network error), LOG (logical operation result), ODc (communication option disconnected), LOC (light load signal)
Functionality	Standard functions	AVR function, V/f characteristic selection, upper/lower limit, 16-step speeds, starting frequency adjustment, jogging operation, carrier frequency adjustment, PID control, frequency jump, analog gain/bias adjustment, S-shape acceleration/ deceleration, electronic thermal characteristics/level adjustment, retry function, simplified torque boost, trip monitor, soft lock function, frequency conversion display, USP function, 2nd control function, motor rotation speed UP/DOWN, overcurrent suppression function
	Analogue inputs	2 analogue inputs 0 to 10V (20KΩ), 4 to 20mA (250Ω)
	Accel/Decel times	0.01 to 3000s (line/curve selection), 2nd accel/decel setting available
	Display	Status indicator LED's Run, Program, Power, Alarm, Power, Hz, Amps, Volume Led indicator
	Display	Digital operator: Available to monitor frequency reference, output current, output frequency
	Motor overload protection	Electronic Thermal overload relay and PTC thermistor input
ns	Instantaneous overcurrent	180% of rated current
ctio	Overload	150% for 1 minute
ň	Overvoltage	790V for 400V type and 395 for 200V type
Protection functions	Momentary power loss	Following items are selectable: Alarm, 0 Hz start, frequency output at interruption, maximum frequency
ctic	Cooling fin overheat	Temperature monitor and error detection
ote	Stall prevention level	Selectable level applicable only at constant speed or during acceleration and constant speed
P	Ground fault	Detected at power-on
	Power charge indication	On when power is supplied to the control part
s	Degree of protection	IP20
tior	Ambient humidity	90% RH or less (without condensation)
ndi	Storage temperature	-20 °C+65 °C (short-term temperature during transportation)
8	Ambient temperature	-10°C to 50°C (Both the carrier frequency and output current need to be reduced at over 40°C.)
ent	Installation	Indoor (no corrosive gas, dust, etc.)
Ambient conditions	Installation height	Max. 1000 m
Ar	Vibration	5.9 m/s ² (0.6G), 10 to 55 Hz (Complies with the test method specified in JIS C0040 (1999).)

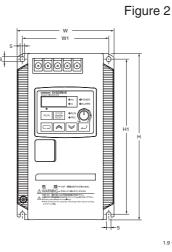
Dimensions

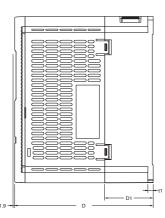
IP 20 type 1/4 to 10 HP (0.2 to 7.5 kW)

Figure 1





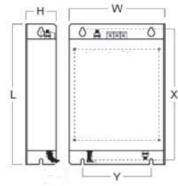




	Max. applicable	Inverter model JX	Figure				Dimensio	ons in mm			
Voltage class	motor output kW		Figure	W1	H1	W	Н	D	t1	D1	Weight
	0.2	AB002	1	67	143	80	155	95.5		13	0.8
<u>.</u>	0.4	AB004	1	67	143	80	100	109.5	2.6	27	0.9
Single-phase 200 V	0.75	AB007	2					130.5		28	1.5
200 V	1.5	AB015	2	98	176	110	189	157.5	6	55	2.3
	2.2	AB022	2					157.5	0	55	2.4
	0.2	A2002	1					95.5		13	0.8
	0.4	A2004	1	67	143	80	155	109.5	2.6	27	0.9
	0.75	A2007	1					132.5		50	1.1
Three-phase	1.5	A2015	2								2.2
200 V	2.2	A2022	2	98	176	110	189	157.5	6	55	2.4
	3.7	A2037	2								2.4
	5.5	A2055	2	164	235	180	250	167.5	1.6	77.5	4.2
	7.5	A2075	2	104	235	100	250	107.5	1.0	11.5	4.2
	0.4	A4004	2					130.5	2.6	28	1.5
	0.75	A4007	2								2.3
-	1.5	A4015	2	98	176	110	189	1575	6	55	
Three-phase 400 V	2.2	A4022	2					157.5	0	55	2.4
400 V	4.0	A4040	2	-							
	5.5	A4055	2	164	235	180	250	167.5	1.6	77.5	4.2
	7.5	A4075	2	104	235	180	250	107.5	1.0	11.5	4.2

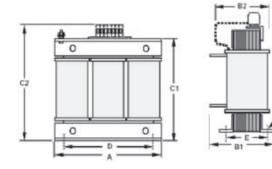
Rasmi footprint Filters

Filter only needed by the 1-phase 200V or 3-phase 400V to comply with C1 EMC class.



	Rasmi model			Dimer	nsions			Weight
	Rasmi modei	W	н	L	Х	Y	М	KG
	AX-FIJ1006-RE	81	40	193	183	57	M4	0.5
1x200 V	AX-FIJ1010-RE	112	47	226	216	88	M4	0.6
	AX-FIJ1026-RE	112	47	226	216	88	M4	0.8
	AX-FIJ2006-RE	81	50	193	183	57	M4	1.0
3x200 V	AX-FIJ2020-RE	112	50	226	216	88	M4	1.3
	AX-FIJ2040-RE	182	55	289	279	150	M5	2.3
	AX-FIJ3005-RE	112	45	226	216	88	M4	0.9
3x400 V	AX-FIJ3011-RE	112	45	226	216	88	M4	1.1
	AX-FIJ3020-RE	182	45	289	279	150	M4	1.7

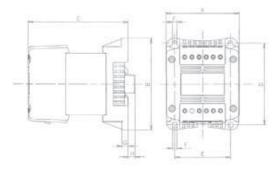
Input AC Reactor



28

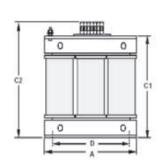
Voltage	Reference		Dimensions						
vollage	nelelelice	А	B2	C2	D	Е	F	Kg	
	AX-RAI02800080-DE	120	70	120	80	52	5.5	1.78	
200V	AX-RAI00880175-DE	120	80	120	80	62	5.5	2.35	
	AX-RAI00350335-DE		85	190	140	55	6	5.5	
	AX-RAI07700042-DE	120	70	120	80	52	5.5	1.78	
400V	AX-RAI03500090-DE	120	80	120	80	62	5.5	2.35	
	AX-RAI01300170-DE	120	80	120	80	62	5.5	2.50	

DC Reactor



Voltago	Reference			Ľ	Dimer	nsion	S			Weight
Voltage	Reference	А	В	С	D	Е	F	G	Н	Kg
	AX-RC21400016-DE			96						1.22
	AX-RC10700032-DE			90						1.22
	AX-RC06750061-DE	84	113	105	101	66	5	7.5	2	1.60
00014	AX-RC03510093-DE			105						1.00
200V	AX-RC02510138-DE			116						1.95
	AX-RC01600223-DE	108	135	124	120	82	6.5		9.5	3.20
	AX-RC01110309-DE	100	152	136	135	94	7	9.5		5.20
	AX-RC00840437-DE	120	152	146	135	94			-	6.00
	AX-RC43000020-DE			96						1.22
	AX-RC27000030-DE	84	113	105	101	66	5	7.5	2	1.60
	AX-RC14000047-DE	04	113	105	101	00	5	7.5	2	1.00
400V	AX-RC10100069-DE			116						1.95
4001	AX-RC06400116-DE	108	135	133	120	82	6.5		9.5	3.70
	AX-RC04410167-DE	120	152	136	135	94	7	9.5		5.20
	AX-RC03350219-DE	120	192	146	135	94	/		-	6.00

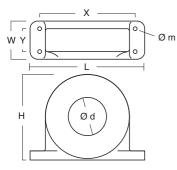
Output AC Reactor



B1

Voltago	Reference			Dime	nsions			Weight
Voltage	Relefence	А	B2	C2	D	Е	F	Kg
	AX-RAO11500026-DE	120	70	120	80	52	5.5	1.78
	AX-RAO07600042-DE	120	70	120	80	52	5.5	1.78
	AX-RAO04100075-DE	120	80	120	80	62	5.5	2.35
200V	AX-RAO03000105-DE	120	80	120	80	62	5.5	2.35
	AX-RAO01830180-DE	180	85	190	140	55	6	5.5
	AX-RAO01150220-DE	180	85	190	140	55	6	5.5
	AX-RAO00950320-DE	180	85	205	140	55	6	6.5
	AX-RAO16300038-DE	120	70	120	80	52	5.5	1.78
	AX-RAO11800053-DE	120	80	120	80	52	5.5	2.35
400V	AX-RAO07300080-DE	120	80	120	80	62	5.5	2.35
	AX-RAO04600110-DE	180	85	190	140	55	6	5.5
	AX-RAO03600160-DE	180	85	205	140	55	6	6.5

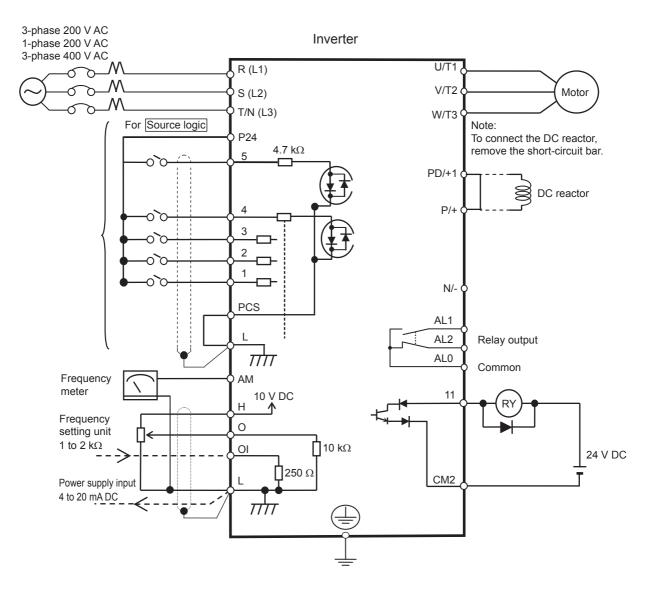
Chokes



Reference	D	Motor			Dime	nsions			Weight
	diameter	KW	L	W	Н	Х	Y	m	Kg
AX-FER2102-RE	21	< 2.2	85	22	46	70	-	5	0.1
AX-FER2515-RE	25	< 15	105	25	62	90	-	5	0.2

Installation

Standard connections



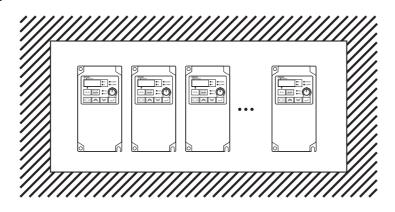
Terminal Block Specifications

Terminal	Name	Function (signal level)
R/L1, S/L2, T/N/L3	Main circuit power supply input	Used to connect line power to the drive. Drives with single-phase 200 V input power use only terminals R/L1 and N (T/L3), terminal S/L2 is not available for these units
U/T1, V/T2, W/T3	Inverter output	Used to connect the motor
PD/+1, P/+	External DC reactor terminal	Normally connected by the short-circuit bar. Remove the short-circuit bar between +1 and P/+2 when a DC reactor is connected.
P/+, N/-	Regenerative braking unit connection terminal	Connect optional regenerative braking units (If a braking torque is required)
٥	Grounding	For grounding (grounding should conform to the local grounding code.)

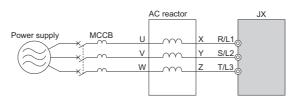
Control Circuit

Туре	No.	Signal name	Function	Signal level	
	PCS	Input power supply	External power supply terminal for input signal (input) At sink logic Internal power supply output terminal for input signal (output) At source logic	24 VDC ±10%	
	P24	Internal 24 VDC	24 VDC internal power supply	24 VDC ±10% 30 mA	
Divital	1	Multi-function Input selection 1	Factory setting: Forward/ Stop		
Digital input signals	2	Multi-function Input selection 2	Factory setting: Reverse/ Stop		
Signais	3	Multi-function Input selection 3	Factory setting: Fault reset		
	4	Multi-function Input selection 4	Factory setting: Emergency stop fault		
	5	Multi-function Input selection 5	Factory setting: Multi-step speed reference 1		
	L	Multi-function Input selection common			
ŧ	н	Frequency reference power supply	10 VDC 10 mA max	-	
Analog input signal	0	Voltage frequency reference signal	0 to 10 VDC (10 KΩ)		
Jaloç sig	OI	Current frequency reference signal	4 to 20 mA (250 Ω)		
A	L	Frequency reference common			
	AL2	NC output	Factory default relay settings Under normal operation: AL2-AL0 Closed	250 VAC 2.5 A 30 VDC 3 A	
utput Is	AL1	NO output	Under abnormal operation or power shutdown: AL1-AL0 Open	250 VAC 1 A	
tal ou igna	AL0	Relay Output common		30 VDC 1 A	
Digital output signals	11	Multi-function output terminal	Factory setting: Frequency arrival signal at a constant speed	27 VDC	
	CM2	Output signal common		50 mA max	
Monitor Signal	Amalog frequency monitor/Analog output current monitor				

Side by side mounting

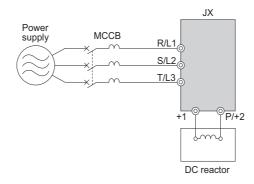


Input AC Reactor



	3 phase 200	V class		400 V class						
Max. applicable motor output kW	Reference	Current value A	Inductance mH	Max. applicable motor output kW	Reference	Current value A	Inductance mH			
0.1 to 1.5	AX-RAI02800080-DE	8.0	2.8	0.4 to 1.5	AX-RAI07700042-DE	4.2	7.7			
2.2 to 3.7	AX-RAI00880175-DE	17.5	0.88	2.2 to 4.0	AX-RAI03500090-DE	9.0	3.5			
5.5 to 7.5	AX-RAI00350335-DE	33.5	0.35	5.5 to 7.5	AX-RAI01300170-DE	17.0	1.3			

DC Reactor

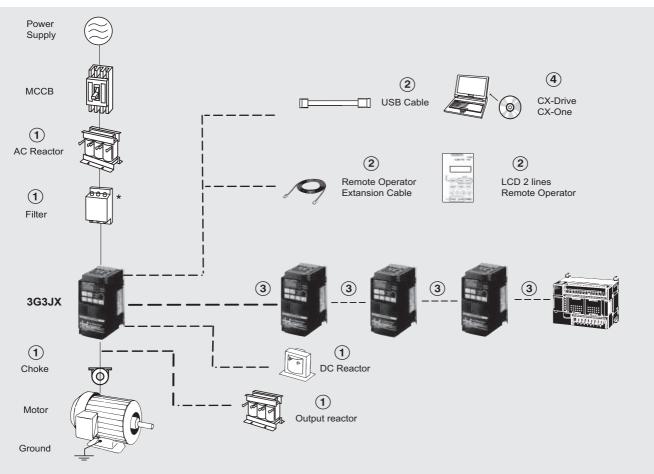


	200 V class			400 V class			
Max. applicable motor output kW	Reference	Current value A	Inductance mH	Max. applicable motor output kW	Reference	Current value A	Inductance mH
0.2	AX-RC21400016-DE	1.6	21.4		-		
0.4	AX-RC10700032-DE	3.2	10.7	0.4	AX-RC43000020-DE	2.0	43.0
0.7	AX-RC06750061-DE	6.1	6.75	0.7	AX-RC27000030-DE	3.0	27.0
1.5	AX-RC03510093-DE	9.3	3.51	1.5	AX-RC14000047-DE	4.7	14.0
2.2	AX-RC02510138-DE	13.8	2.51	2.2	AX-RC10100069-DE	6.9	10.1
3.7	AX-RC01600223-DE	22.3	1.60	4.0	AX-RC06400116-DE	11.6	6.40
5.5	AX-RC01110309-DE	30.9	1.11	5.5	AX-RC04410167-DE	16.7	4.41
7.5	AX-RC00840437-DE	43.7	0.84	7.5	AX-RC03350219-DE	21.9	3.35

Output AC Reactor

200 V class				400 V class			
Max. applicable motor output kW	Reference	Current value A	Inductance mH	Max. applicable motor output kW	Reference	Current value A	Inductance mH
0.1 to 0.4	AX-RAO11500026-DE	2.6	11.50	0.4 to 1.5	AX-RAO16300038-DE	3.8	16.30
0.75	AX-RAO07600042-DE	4.2	7.60	2.2	AX-RAO11800053-DE	5.3	11.80
1.5	AX-RAO04100075-DE	7.5	4.10	4.0	AX-RAO07300080-DE	8.0	7.30
2.2	AX-RAO03000105-DE	10.5	3.00	5.5	AX-RAO04600110-DE	11.0	4.60
3.7	AX-RAO01830160-DE	16.0	1.83	7.5	AX-RAO03600160-DE	16.0	3.60
5.5	AX-RAO01150220-DE	22.0	1.15				
7.5	AX-RAO00950320-DE	32.0	0.95				

Ordering information



* Only needed for 3 phase 200V or to comply C1 on 3 phase 400V models

	Specifications				
Voltage class	Max. applicable motor output (kW	Rated output current (A)	Standard		
	0.2	1.4	3G3JX-AB002-EF		
	0.4	2.6	3G3JX-AB004-EF		
Single-phase 200 V	0.75	4	3G3JX-AB007-EF		
	1.5	7.1	3G3JX-AB015-EF		
	2.2	10	3G3JX-AB022-EF		
	0.2	1.4	3G3JX-A2002-E		
	0.4	2.6	3G3JX-A2004-E		
	0.75	4	3G3JX-A2007-E		
	1.5	7.1	3G3JX-A2015-E		
Three-phase 200 V	2.2	10	3G3JX-A2022-E		
	3.7	15.9	3G3JX-A2037-E		
	5.5	24	3G3JX-A2055-E		
	7.5	32	3G3JX-A2075-E		
	0.4	1.5	3G3JX-A4004-EF		
	0.75	2.5	3G3JX-A4007-EF		
— , ,	1.5	3.8	3G3JX-A4015-EF		
Three-phase 400 V	2.2	5.5	3G3JX-A4022-EF		
400 V	4.0	8.6	3G3JX-A4040-EF		
	5.5	13	3G3JXA4055-EF		
	7.5	16	3G3JXA4075-EF		

3G3JX AC Drives (Inverters)

1 Line Filters 3G3AX-FIJ

Inverter		Line filter Rasmi			
Voltage	Voltage Model JX-		Rated current (A)	Weight (kg)	
	AB002 / AB004	AX-FIJ1006-RE	6	0.5	
1-Phase 200 VAC	AB007	AX-FIJ1010-RE	10	0.6	
	AB015 / AB022	AX-FIJ1026-RE	26	0.8	
	A2002 / A2004 / A2007	AX-FIJ2006-RE	6	1.0	
3-Phase 200 VAC	A2015 / A2022 / A2037	AX-FIJ2020-RE	20	1.3	
	A2055 / A2075	AX-FIJ2040-RE	40	2.3	
	A4004 / A4007 /A4015	AX-FIJ3005-RE	5	0.9	
3-Phase 400 VAC	A4022 /A4040	AX-FIJ3011-RE	11	1.1	
	A4055 / A4075	AX-FIJ3020-RE	20	1.7	

(1) Input AC Reactors 3G3AX-RAI

Inve	Inverter		
Voltage	Model JX-	Reference	
	A2002 / A2004 / A2007	AX-RAI02800080-DE	
3-Phase 200 VAC	A2015 / A2022 / A2037	AX-RAI00880175-DE	
	A2055 / A2075	AX-RAI00350335-DE	
	AB002 / AB004		
1-Phase 200 VAC	AB007	Under development	
	AB015 / AB022		
	A4004 / A4007 / A4015	AX-RAI07700042-DE	
3-Phase 400 VAC	A4022 / A4040	AX-RAI03500090-DE	
	A4055 / A4075	AX-RAI01300170-DE	

1 DC Reactors 3G3AX-RC

200V sing	200V single phase		200V 3-phase		3-phase
Inverter	DC Reactor	Inverter	DC Reactor	Inverter	DC Reactor
JX-AB002	AX-RC10700032-DE	JX-A2002	AX-RC21400016-DE		-
JX-AB004	AX-RC06750061-DE	JX-A2004	AX-RC10700032-DE	JX-A4004	AX-RC43000020-DE
JX-AB007	AX-RC03510093-DE	JX-A2007	AX-RC06750061-DE	JX-A4007	AX-RC27000030-DE
JX-AB015	AX-RC02510138-DE	JX-A2015	AX-RC03510093-DE	JX-A4015	AX-RC14000047-DE
JX-AB022	AX-RC01600223-DE	JX-A2022	AX-RC02510138-DE	JX-A4022	AX-RC10100069-DE
	·		AX-RC01600223-DE	JX-A4040	AX-RC06400116-DE
-		JX-A2055	AX-RC01110309-DE	JX-A4055	AX-RC04410167-DE
		JX-A2075	AX-RC00840437-DE	JX-A4075	AX-RC03350219-DE

1 Chokes 3G3AX-FER

Model	Diameter	Description
AX-FER2102-RE	21	For 2.2 KW motors or below
AX-FER2515-RE	25	For 7.5 KW motors or below

(1) Output AC Reactors 3G3AX-RAO

	Inverter	AC Reactor
Voltage	Model JX-	Reference
	A2001 / A2002 / A2004 AB001 / AB002 / AB004	AX-RAO11500026-DE
	A2007/AB007	AX-RAO07600042-DE
000 1/4 0	A2015 / AB015	AX-RAO04100075-DE
200 VAC	A2022 / AB022	AX-RAO03000105-DE
	A2037	AX-RAO01830160-DE
	A2055	AX-RAO01150220-DE
	A2075	AX-RAO00950320-DE
	A4004 / A4007 / A4015	AX-RAO16300038-DE
	A4022	AX-RAO11800053-DE
400 VAC	A4040	AX-RAO07300080-DE
	A4055	AX-RAO04600110-DE
	A4075	AX-RAO03600160-DE

2 Accessories

Types	Model	Description	Functions
Digital operator	3G3AX-OP05	LCD remote operator	2 Line LCD remote opera- tor with copy function, cable length max. 3m.
i do	3G3AX-CAJOP300-EE	Remote operator cable	3 meters cable for con- necting remote operator
ories	3G3AX-PCACN2	USB converter / USB cable	RJ45 to USB connection cable
Accessories	3G3AX-CTB020-EE	RJ45 T-Branch cable	T cable for RS-422 connection

(4) Computer software

Types	Model	Description	Installation
ware	CX-Drive	Computer software	Configuration and monitor- ing drives
Softv	CX-One	Computer software	Configuration and monitor- ing FA systems

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. I110E-EN-01B

In the interest of product improvement, specifications are subject to change without notice.

Terms and Conditions of Sale

- Offer: Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "<u>Products</u>") by Omron Electronics LLC and its subsidiary companies ("<u>Omron</u>"). Omron objects to any terms or conditions proposed in Buyer's purchase_order or other documents which are inconsistent with, or in addition to, these Terms
- Prices: Payment Terms. All prices stated are current, subject to change with-out notice by Omron. Omron reserves the right to increase or decrease prices 2. on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice.
- biscounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms З.
- and (ii) Buyer has no past due amounts. Interest. Omron, at its option, may charge Buyer 1-1/2% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the 4 stated terms
- Orders. Omron will accept no order less than \$200 net billing.
- Governmental Approvals. Buyer shall be responsible for, and shall bear all 6 costs involved in, obtaining any government approvals required for the impor-tation or sale of the Products.
- Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Omron or required to be collected directly or 7. indirectly by Omron for the manufacture, production, sale, delivery, importa-tion, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Omron.
- Financial. If the financial position of Buyer at any time becomes unsatisfactory 8. to Omron, Omron reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Omron may (without liabil-ity and in addition to other remedies) cancel any unshipped portion of Prod-ucts sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts.
- Cancellation; Etc. Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
- 10. Force Majeure. Omron shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- <u>Shipping: Delivery</u> Unless otherwise expressly agreed in writing by Omron:
 a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship except in "break down" situations.
 - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer, c. All sales and shipments of Products shall be FOB shipping point (unless oth-
 - erwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid; d. Delivery and shipping dates are estimates only; and e. Omron will package Products as it deems proper for protection against nor-
- and handling and extra charges apply to special conditions.
 <u>Claims</u>. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original trans-portation bill signed by the carrier noting that the carrier received the Products from Omron in the candition claims of the products of the product of the products of the product of the from Omron in the condition claimed.
- Warranties. (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed 13 (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

Certain Precautions on Specifications and Use

- Suitability of Use. Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, 1. Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given: Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.

 (ii) Use in consumer products or any use in significant quantities.
 (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equip-(iv) Systems, machines and equipment that could present a risk to life or prop-erty. Please know and observe all prohibitions of use applicable to this Product

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO

ITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Omron further disclaims all warranties and responsibility of IN ISNDED USE. Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or oth-erwise of any intellectual property right. (c) <u>Buyer Remedy</u>. Omron's sole obli-gation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsi-ble for warapty consisting the non-the complex of the non-complying Product the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Compa-nies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty See http://www.omron247.com or contact your Omron representative for published information

- Iished information.
 Limitation on Liability: Etc. OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.
 Indemnities. Buyer shall indemnify and hold harmless Omron Companies and their employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim inves-
- 15 expenses (including attorney's fees and expenses) related to any claim, inves-tigation, litigation or proceeding (whether or not Omron is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Omron and defend or setthe any action brought against such Companies to the extent based on a claim that any Product made to Buyer specifications infringed intellectual property
- that any Product made to buyer specifications immiged interfectual property rights of another party. <u>Property: Confidentiality.</u> Any intellectual property in the Products is the exclusive property of Omron Companies and Buyer shall not attempt to duplicate it in any way without the written permission of Omron. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Omron. All information and materials supplied to the Products are confidential and proprietary. 16 by Omron to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly
- Export Controls. Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (iii) sale of products to 17 "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of regulated technology or information. <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Omron in exercising any right
- 18 <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Omron's written consent. (c) <u>Law</u>. These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law princi-ples). (d) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing signed by the parties. (e) <u>Severability</u>. If any provi-sion hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) <u>Setoff</u>. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (a) Definitions. As used against the amount owing in respect of this invoice. (g) <u>Definitions</u>. As used herein, "<u>including</u>" means "including without limitation"; and "<u>Omron Compa-nies" (or similar words) mean Omron Corporation and any direct or indirect</u> subsidiary or affiliate thereof.

ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROP-ERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

- 2.
- Programmable Products. Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof. <u>Performance Data</u>. Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitabil-ity and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application require-ments. Actual performance is subject to the Omron's Warranty and Limitations of Limiting. 3. of Liability.
- <u>Change in Specifications</u>. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our prac-4 or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to applicate the provident of the product provident specifications for
- Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

Note: This datasheet is provided as a guideline for selecting products. Do not use this document to operate the Unit.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

OMRON

OMRON ELECTRONICS LLC • THE AMERICAS HEADQUARTERS

Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ELECTRONICS MEXICO SA DE CV • HEAD OFFICE

Apodaca, N.L. • 52.811.156.99.10 • 001.800.556.6766 • mela@omron.com

OMRON ARGENTINA • SALES OFFICE Cono Sur • 54.11.4783.5300

OMRON CHILE • SALES OFFICE Santiago • 56.9.9917.3920

OTHER OMRON LATIN AMERICA SALES 54.11.4783.5300

© 2009 Omron Electronics LLC

Cat. No. I110E-EN-01B 01/10

Specifications are subject to change without notice.