

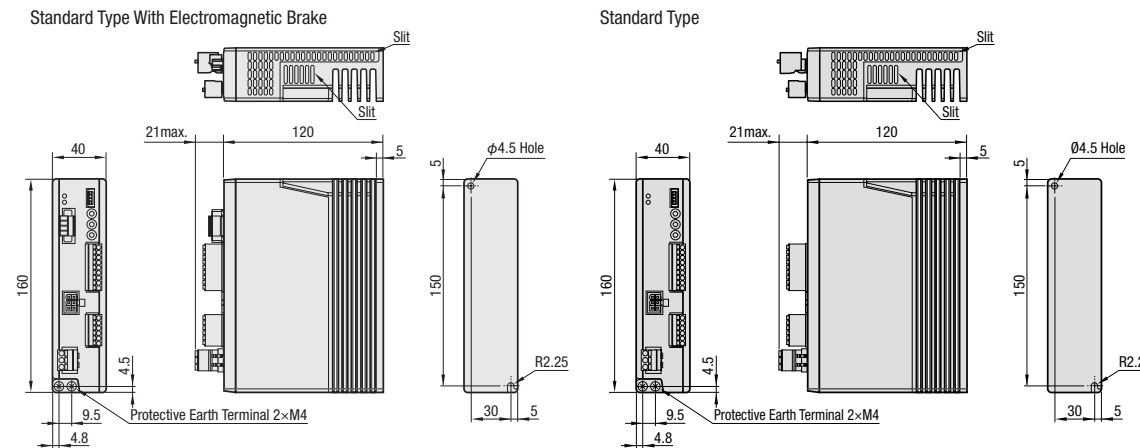
Oriental Motor 5-phase Stepping Motors RK545AA (AMA) / RK566AAE (AMAE)

Driver Basic Specifications

Input Power Supply	Single-phase 100-120 V, -15 ~ +10%, 50/60 Hz						
Velocity and Position Control Commands	Pulse Input						
Maximum Input Pulse Frequency	When the host controller is a line driver output: 500 kHz (When pulse duty is 50%) When the host controller is an open-collector output: 250 kHz Negative logic pulse input						
Protection Functions	When an alarm is generated, the ALM output is turned OFF, the motor excitation is shut down, and the holding torque disappears. At the same time, the alarm LED blinks. If the motor has an electromagnetic brake, the electromagnetic brake is automatically retained. [Overheat in main circuit, Overvoltage, Overspeed, Overcurrent, Undervoltage, Electromagnetic brake automatic control error, Electrolytic condenser error, EEPROM error, CPU peripheral circuit error]						
Input Signal	Input signal voltage: 11.4~26.4 V [AWO, CS, FREE, ALM-RST] Input signal voltage: 3~5.25 V [CW (PLS) +5 V, CCW (DIR) +5 V] Input signal voltage: 21.6~26.4 V [CW (PLS) +24 V, CCW (DIR) +24 V]						
Output Signal	Photo Coupler / Open-Collector Output External use conditions: 30 VDC, 10 mA max. [READY, ALM, TIM]						
Function	When an alarm is generated, the ALM output is turned OFF, the motor excitation is shut down, and the holding torque disappears. At the same time, the alarm LED blinks. If the motor has an electromagnetic brake, the electromagnetic brake is automatically retained. [Overheat in main circuit, Overvoltage, Overspeed, Overcurrent, Undervoltage, Electromagnetic brake automatic control error, Electrolytic condenser error, EEPROM error, CPU peripheral circuit error]						
Insulation Resistance	100 MΩ or more when a 500 VDC megger is applied between the following. · Protective ground terminal - power supply terminal · I/O signal terminal - power supply terminal						
Dielectric Strength Voltage	No error when the prescribed voltage is applied for one minute between the following. · Protective ground terminal - power supply terminal: 1.8 kVAC, 50 Hz or 60 Hz · Signal I/O terminal - power supply terminal: 1.9 kVAC, 50 Hz or 60 Hz						
Operating Environment (in Operation)	<table border="1"> <tr> <td>Operating Temperature</td> <td>0~+50°C (No Freezing)</td> </tr> <tr> <td>Operating Humidity</td> <td>85% or below (No Condensation)</td> </tr> <tr> <td>Ambience</td> <td>No corrosive gases or dust. No direct contact with water or oil.</td> </tr> </table>	Operating Temperature	0~+50°C (No Freezing)	Operating Humidity	85% or below (No Condensation)	Ambience	No corrosive gases or dust. No direct contact with water or oil.
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*1 When mounted on a heat sink equivalent to or greater than a 200 x 200 x 2 mm aluminum plate

External Dimension Diagram



Cable for Mitsubishi Electric J3 Series

Motor Power Cables / Brake Cables

When ordering motor with brake, please use both cables for power supply and brake. The cable is pulled out from the load side.

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For Power Supply: SVPM-J3HF1

For Brake: SVPM-J3HF1B

Cable Type	Part Number	Cable Type	Length (m)	Insulation Strip Length (Amplifier Side)	Unit Price		Applicable Actuator	Applicable Motor	Applicable Amplifier
					Unit Price	Unit Price/m			
For Power Supply	SVPM-J3HF1	B (Movable)	0.2-30 (0.1mm Increment)	02S (200mm)			LXM20/26	A1:HF-KP053(50W)	AM10:MR-J3-10A
							LXM30	A2:HF-KP13(100W)	AM10:MR-J3-10A
							LXM45	A3:HF-KP43(400W)	AM40:MR-J3-40A
For Brake	SVPM-J3HF1B	B (Movable)	0.2-30 (0.1mm Increment)	02S (200mm)			LXM20/26	A1B:HF-KP053B(50W)	AM10:MR-J3-10A
							LXM30	A2B:HF-KP13B(100W)	AM10:MR-J3-10A
							LXM45	A3B:HF-KP43B(400W)	AM40:MR-J3-40A

Recommended for use with LX Single Axis Actuator with motor. A 3m long cable is included as the standard accessory; if different cable length is required, order the cable separately. Other than those listed on this page, FA Electronics Catalog lists more various items with shield or custom alterations. For details, please see Wiring Components Catalog. Please check with the latest Wiring Components Catalog or MISUMI eCatalog.

Encoder Cable

RoHS 10

Standard Type: **SVEM-J3HF1** (Length: up to 10m)
Amplifier Side | Length | Motor Side

Long Distance Amplifier-side Extension: **SVEM-J3HF1L-D20/D50** (Length: up to 50m)
Amplifier Side | Length | Motor Side

Long Distance Motor-side Extension: **SVEM-J3HF1M** (Length 0.3m)
Amplifier Side | 0.3m | Motor Side

The cable is pulled out from the load side. When ordering 10 ~ 50m, please use both of long distance type amplifier side and motor side extension cables.

Cable Type	Part Number	Cable Type	0.1mm Increment	Unit Price		Applicable Actuators, Motors, Amplifiers
				Unit Price	Unit Price/m	
Standard Type	SVEM-J3HF1	B (Movable)	0.2-10			LXM20/26 A1(B):HF-KP053(B) (50W)
Long Distance Amplifier-side Extension	SVEM-J3HF1L-D20	D (with Shield / for Flex Type)	10-20			LXM30 A2(B):HF-KP13(B) (100W)
Long Distance Amplifier-side Extension	SVEM-J3HF1L-D50	D (with Shield / for Flex Type)	20-50			LXM45 A3(B):HF-KP43(B) (400W)
Long Distance Motor-side Extension	SVEM-J3HF1M	B (Movable)	0.3			AM10:MR-J3-10A AM40:MR-J3-40A

Ordering Example: **SVPM-J3HF1 - B - 5 - 02S**

*Insulation strip length can be specified for SVPM only.

Cables for Oriental Motors

Part Number	Cable Type	Length (m)	Unit Price	Applicable Actuator Series	Motor Type	Motor Driver Set Part Number	Dimensional Drawing (Unit: mm)					
CC010VA2R2	For no-brake type	1	5,240	LXM20	T1E	AR26SAK						
CC020VA2R2		2	5,790									
CC030VA2R2		3	6,440									
CC050VA2R2		5	7,720									
CC070VA2R2		7	9,560									
CC100VA2R2		10	12,510									
CC150VA2R2		15	17,660									
CC200VA2R2		20	22,810									
CC300VA2R2		30	33,120									
CC010VAR		For no-brake type	1					5,420	LXM20 LXM26 LXM30 LXM45	T2E T3E	AR46AA AR66AA	
CC020VAR	2		5,980									
CC030VAR	3		6,620									
CC050VAR	5		7,910									
CC070VAR	7		9,750									
CC100VAR	10		12,690									
CC150VAR	15		17,840									
CC200VAR	20		23,000									
CC300VAR	30		33,300									
CC010VARB	For motor with electromagnetic brake*1		1	7,630	LXM20 LXM26 LXM30 LXM45	T2BE T3BE	AR46MA AR66MA					
CC020VARB		2	8,550									
CC030VARB		3	9,560									
CC050VARB		5	11,590									
CC070VARB		7	14,160									
CC100VARB		10	18,210									
CC150VARB		15	25,200									
CC200VARB		20	32,200									
CC300VARB		30	46,180									
CC010VPF		For no-brake type	1	2,300					LXM20 LXM26 LXM30 LXM45	T4E T5E	RKS545AA RKS566AA	
CC020VPF	2		2,620									
CC030VPF	3		2,940									
CC050VPF	5		3,580									
CC070VPF	7		4,780									
CC100VPF	10		6,530									
CC150VPF	15		9,560									
CC010VPFB	For motor with electromagnetic brake*1		1	3,400	LXM20 LXM26 LXM30 LXM45	T4BE T5BE	RKS566MA					
CC020VPFB			2	3,910								
CC030VPFB			3	4,410								
CC050VPFB		5	5,420									
CC070VPFB		7	6,990									
CC100VPFB		10	9,290									
CC150VPFB		15	13,240									
CC200VPFB		20	17,110									

*1 Motors with electromagnetic brake are supplied with a lead wire exit.