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Find the *Yaskawa SJME-04AMB4C-OY* at our website: ***Click HERE***

Y203-EN2-03+Motion_Drives+Cat.book Seite 199 Donnerstag, 2. August 2007 2:51 14

SJME-□-OY

Junma servo motors

A new concept in drive simplicity
Medium inertia compact motor

- Peak torque up to three times continuous torque for 3 seconds
- Easy to install with prebuilt cables
- Motors with brakes are available
- No motor settings required, just plug and run

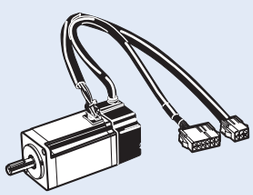


Ratings

- 230 VAC Single-phase 100 W to 750 W (0.318 Nm to 2.39 Nm)

System Configuration

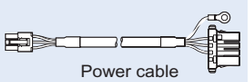
Junma Servo Motor
3,000 rpm
(100-750 W)



Encoder cable

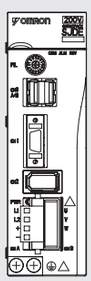


Power cable

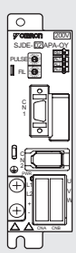


(Refer to servo drive chapter)

Junma MECHATROLINK-II Servo Drive



Junma Pulse Servo Drive



Motor Type Designation

SJME - 02 A M B 4 1 - OY

JUNMA servomotor

Capacity

Code	Output (W)
01	100
02	200
04	400
08	750

Voltage
A: 200 VAC

Feedback specifications
M : Analogue output encoder

Design procedure
B : Standard

Shaft end specifications
4 : Straight, key

Brake specifications
1 : No brake
C : 24VDC brake

OMRON YASKAWA Motion Control BV

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Servomotor Specifications

Voltage			230 V			
Servomotor Model SJME- □			01A□	02A□	04A□	08A□
Rated Output *1		W	100	200	400	750
Rated Torque *1, *2		N·m	0.318	0.637	1.27	2.39
Instantaneous Peak Torque *1		N·m	0.955	1.91	3.82	7.16
Rated Current *1		Arms	0.84	1.1	2.0	3.7
Instantaneous Max. Current *1		Arms	2.5	3.3	6.0	11.1
Rated Speed *1		min^{-1}	3000			
Max. Speed *1		min^{-1}	4500			
Torque Constant		N·m/Arms	0.413	0.645	0.682	0.699
Rotor Moment of Inertia (JM)		$kg·m^2x10^{-4}$	0.0634	0.330	0.603	1.50
Allowable load inertia *3		$kg·m^2x10^{-4}$	0.6	3.0	5.0	10.0
Rated Power Rate		kW/s	16.0	12.3	26.7	38.1
Rated Angular Acceleration		rad/s^2	50200	19300	21100	15900
Encoder		Standard	Analogue output encoder			
Allowable radial load			78	245	245	392
Allowable thrust load			54	74	74	147
Approx. mass		kg (without brake)	0.5	0.9	1.3	2.6
		kg (with brake)	0.8	1.5	1.9	3.5
Brake specifications	Rated voltage		24 VDC ±10%			
	Holding Brake Moment of Inertia	$kg·m^2x10^{-4}$	0.0075	0.064		0.171
	Power consumption (at 20°C)	W	6	6.9		7.7
	Current consumption (at 20°C)	A	0.25	0.29		0.32
	Static friction torque	N·m (minimum)	0.318	1.27		2.39
	Rise time for holding torque	ms (max)	100			
	Release time	ms (max)	80			
Basic Specifications	Time Rating		Continuous			
	Thermal Class		Class B			
	Vibration Class		15 µm or below			
	Withstand Voltage		1500 VAC for one minute			
	Insulation resistance		500 VDC, 10 MΩ min.			
	Enclosure		Totally-enclosed, self-cooled, IP55 (excluding shaft opening and connectors)			
	Vibration Resistance		Vibration acceleration 49 m/s²			
	Usage / storage temperature		0 to +40° C / -20 to 60° C without freezing			
	Usage / storage humidity		20 to 80% RH (non-condensing)			
	Altitude		1000 m or less above sea level			
	Mounting		Flange-mounted			

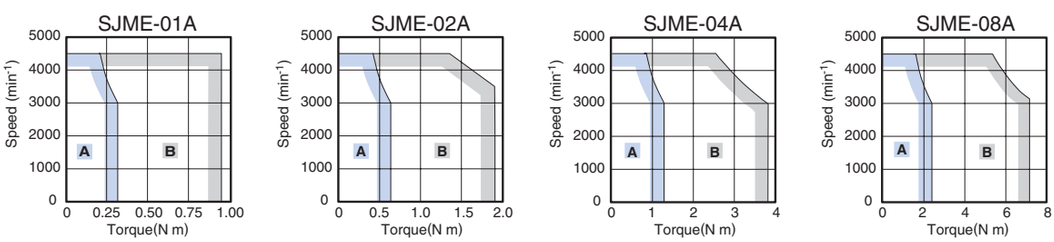
Note: ***1.** These items and speed/torque characteristics quoted in combination with an SJDE servo drive are at an armature winding temperature of 100°C. Other values quoted at 20°C.

***2:** The rated torques listed here are the values for the continuous allowable torque at 40°C with an aluminium heatsink (250 mm x 250 mm x 6 mm) attached.

***3.** Value usig the appropriate SJDE drive without of external regeneration unit

Torque-Speed Charecteristics

(A : Continuous Duty Zone B : Intermittent Duty Zone)



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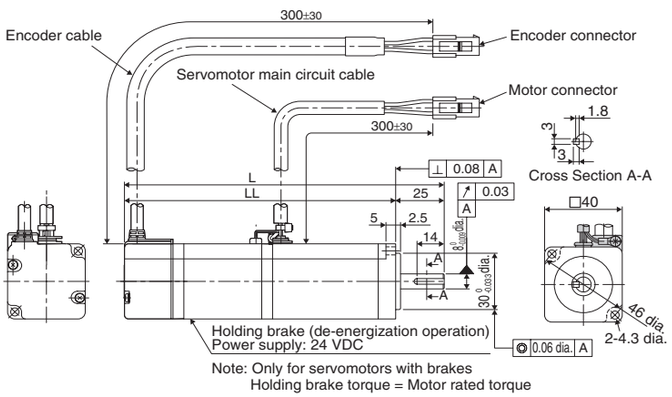
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Dimensions

Junma servomotors

SJME-01 (200V, 100W)

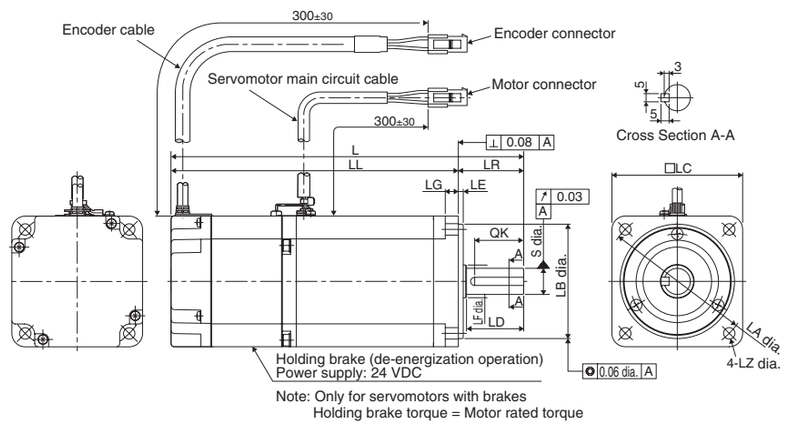
Model	L	LL	Approx. Mass (kg)
SJME-01AMB41-OY	119	94	0.5
SJME-01AMB4C-OY	164	139	0.8



Units: mm

SJME-02, 04, 08 (200V, 200 to 750W)

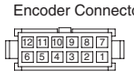
Model	L	LL	LR	LG	LE	S	LB	LC	LD	LF	LA	LZ	QK	Approx. Mass (kg)
SJME-02AMB41-OY	125.5	95.5	30	6	3	$14^{0}_{-0.011}$	$50^{0}_{-0.039}$	60	-	-	70	5.5	20	0.9
SJME-02AMB4C-OY	165.5	135.5												1.5
SJME-04AMB41-OY	148.5	118.5							-	-				1.3
SJME-04AMB4C-OY	188.5	158.5												1.9
SJME-08AMB41-OY	173	133	40	8	3	$16^{0}_{-0.011}$	$70^{0}_{-0.046}$	80	35	20	90	7	30	2.6
SJME-08AMB4C-OY	216	176												3.5



Units: mm

Servomotor connectors

Encoder Connector Specifications



Plug:
5559-12P-210
Terminal:
5558T2(chained) or
5558T2L(detached)
(Manufacture: Molex Japan Co., Ltd)

1	PG5V	Red
2	PG0V(GND)	Black
3	Phase A+	Blue
4	Phase A-	Blue/White
5	Phase B+	Yellow
6	Phase B-	Yellow/White
7	Phase /Z	Purple
8	Phase U	Gray
9	Phase V	Green
10	Phase W	Orange
11	-	-
12	FG	Shield

Motor Connector Specifications



Plug:
5559-06P-210
Terminal (No.1 to 3, 5, 6):
5558T(chained) or 5558TL(detached)
Grounding Pin (No.4):
30490-2002(chained) or
30490-2012 (detached)
(Manufacture: Molex Japan Co., Ltd)

	No brake		With brake	
1	Phase U	Red	Phase U	Red
2	Phase V	White	Phase V	White
3	Phase W	Blue	Phase W	Blue
4	F G	Green/Yellow	F G	Green/Yellow
5	-	-	Brake	Red
6	-	-	Brake	Black

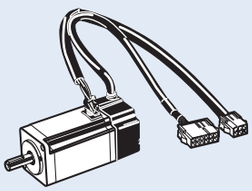
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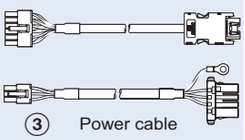
Ordering Information

Junma Servo motor configuration

① **Junma Servo Motor**
3,000 rpm
(100-750 W)



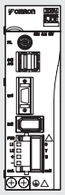
④ Encoder cable



③ Power cable

(Refer to servo drive chapter)

② **Junma MECHATROLINK-II Servo Drive**



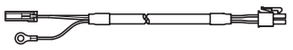
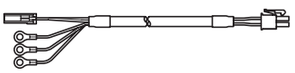
② **Junma Pulse Servo Drive**



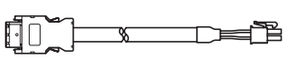
Servomotors and Servo drives

Symbol	Specifications					① Servomotor model	② Servo drive model	
	Voltage	Encoder and Design		Rated Torque	Capacity		MECHATROLINK-II	Pulse Control
①②	1 Phase 200 VAC	Analogue Incremental Encoder Straight shaft with key	Without brake	0.318 Nm	100 W	SJME-01AMB41-OY	SJDE-01ANA-OY	SJDE-01APA-OY
				0.637 Nm	200 W	SJME-02AMB41-OY	SJDE-02ANA-OY	SJDE-02APA-OY
				1.27 Nm	400 W	SJME-04AMB41-OY	SJDE-04ANA-OY	SJDE-04APA-OY
				2.39 Nm	750 W	SJME-08AMB41-OY	SJDE-08ANA-OY	SJDE-08APA-OY
			With brake	0.318 Nm	100 W	SJME-01AMB4C-OY	SJDE-01ANA-OY	SJDE-01APA-OY
				0.637 Nm	200 W	SJME-02AMB4C-OY	SJDE-02ANA-OY	SJDE-02APA-OY
				1.27 Nm	400 W	SJME-04AMB4C-OY	SJDE-04ANA-OY	SJDE-04APA-OY
				2.39 Nm	750 W	SJME-08AMB4C-OY	SJDE-08ANA-OY	SJDE-08APA-OY

Power cables

Symbol	Specifications			Model	Appearance
③	Power cable for Junma servomotors without brake SJME-0□AMB41-OY	Flexible cables (Standard) Shielded Cable Bending radius (Dynamic) > 10xDiameter Bending cycles > 5 Million	1.5 m	JZSP-CHM000-01-5E	
			3 m	JZSP-CHM000-03-E	
			5 m	JZSP-CHM000-05-E	
			10 m	JZSP-CHM000-10-E	
			15 m	JZSP-CHM000-15-E	
			20 m	JZSP-CHM000-20-E	
		Non flexible cables	3 m	R7A-CAZ003S	
			5 m	R7A-CAZ005S	
			10 m	R7A-CAZ010S	
	Power cable for Junma servomotors with brake SJME-0□AMB4C-OY	Flexible cables (Standard) Shielded Cable Bending radius (Dynamic) > 10xDiameter Bending cycles > 5 Million	1.5 m	JZSP-CHM030-01-5E	
			3 m	JZSP-CHM030-03-E	
			5 m	JZSP-CHM030-05-E	
			10 m	JZSP-CHM030-10-E	
			15 m	JZSP-CHM030-15-E	
			20 m	JZSP-CHM030-20-E	
		Non flexible cables	3 m	R7A-CAZ003B	
			5 m	R7A-CAZ005B	
			10 m	R7A-CAZ010B	

Encoder cables

Symbol	Specifications			Model (Flexible)	Appearance
④	Encoder cable for Junma servomotors SJME-0□AMB4□-OY	Flexible cables (Standard) Shielded Cable Bending radius (Dynamic) > 10xDiameter Bending cycles > 5 Million	1.5 m	JZSP-CHP800-01-5E	
			3 m	JZSP-CHP800-03-E	
			5 m	JZSP-CHP800-05-E	
			10 m	JZSP-CHP800-10-E	
			15 m	JZSP-CHP800-15-E	
			20 m	JZSP-CHP800-20-E	
		Non flexible cables	3 m	R7A-CRZ003C	
			5 m	R7A-CRZ005C	
			10 m	R7A-CRZ010C	

Connectors for power and encoder cables

Specifications			Model (Omron)	Model (Yaskawa)
Connectors for making power cables	Drive side (CNB)	Manufacturer: JST (04JFAT-SAYGF-N)	R7A-CNZ01A	JZSP-CHM9-2
	Motor side	Manufacturer: Molex (5557-06R-210)	R7A-CNZ02A	JZSP-CHM9-1
Connectors for making encoder cables	Drive side (CN2)	Manufacturers 3M and Molex	R7A-CNZ01R	JZSP-CHP9-2
	Motor side	Manufacturer: Molex (57026-5000)	R7A-CNZ02R	JZSP-CHP9-1

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. I72E-EN-01 In the interest of product improvement, specifications are subject to change without notice.

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