



SV-M010CK

Axis with keyway, Incremental, 100 W



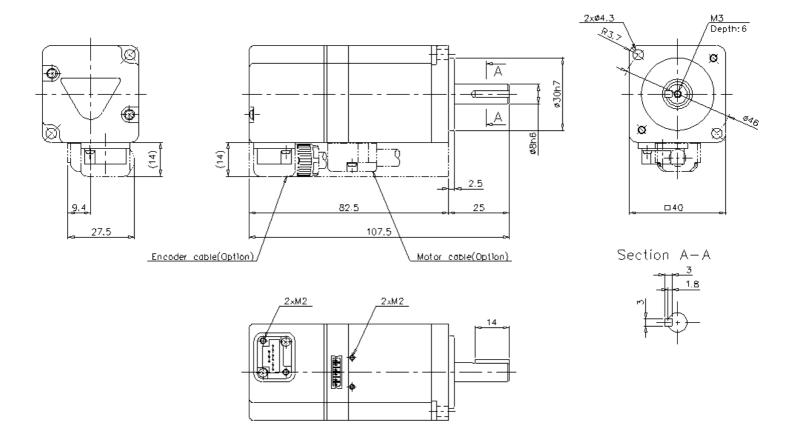
SPECIFICATIONS

Applicable servo amplifier Rated output Rated torque	s		Standard motor, Incremental Type (INC) SV-010**
Rated output Rated torque	s		SV 040**
Rated torque			34-010
			100 W
Instantaneous maximum t			0.318 N m
Instantaneous maximum torque			1.11 N m
Rated current			0.84 Arms
Instantaneous maximum current			2.9 Arms
Rated rotation speed			3000 min ⁻¹
Highest rotation speed			6000 min ⁻¹
Torque constant			0.413 N m/Arms
Rotor moment of inertia			0.0665 ×10 ⁻⁴ kg·m ²
Rated power rate			15.2 kW/s
Rated angle acceleration			47800 rad/s ²
Excitation method			Permanent magnet
Allowable load moment of inertia ratio			20 times
Resolution			20bit
Operating environment	Operating ambient temperature		0 to +40°C (No freezing)
	Ambient storage temperature		-20 to +60°C (No freezing)
	Ambient operating/storage humidity		20 to 80%RH (no condensation)
	Vibration resistance		49 m/s ² with the servo motor flange used as reference surface (3 directions: up/down, right/left, and forward/backward)
	Shock resistance		490 m/s ² for two times with the servo motor flange used as reference surface
	Enclosure rating		Totally enclosed, self-cooling, IP65 (excluding connectors and shaft opening)
Operating environment			Indoors (No corrosive gas, flammable gas, oil mist, or dust)
Operating environment	Altitude		1,000 m max. above sea level
Approved standards	UL/CSA stand	ards	UL1004 C22.2 No.100
	CE marking	Low-voltage directive	EN60034-1, EN60034-5
		EMI	EN55011 Class A, EN61800-3
		EMS	EN61800-3
	North America	in EMI standards	FCC Part15 B, ICES-003. Class A
Insulation class			Class B
Insulation withstand voltage			1500 VAC for 1 minute
Insulation resistance			10 MΩ min. with 500 VDC megohmmeter
Weight			Approx 0.4kg
Note			Rates torque of 50 W to 750 W is the continuous permissible torque values in the following conditions: -Ambient temperature: 40°C -Attached aluminium heatsink: 50 W to 100 W: 200 × 200 × 6 [mm] 200 W to 750 W: 250 × 250 × 6 [mm] Rates torque of 1 kW to 5 kW is the continuous permissible torque values in the following conditions: -Ambient temperature: 40°C -Attached iron heatsink: 1 kW to 2 kW: 400 × 400 × 20 [mm] 3 kW, 5 kW: 500 × 550 × 30 [mm]
	Instantaneous maximum of Rated rotation speed Highest rotation speed Torque constant Rotor moment of inertia Rated power rate Rated angle acceleration Excitation method Allowable load moment of Resolution Operating environment Operating environment Approved standards Insulation class Insulation withstand voltatinsulation resistance Weight	Instantaneous maximum current Rated rotation speed Highest rotation speed Torque constant Rotor moment of inertia Rated power rate Rated angle acceleration Excitation method Allowable load moment of inertia ratio Resolution Operating environment Operating environment Operating environment Operating environment Operating environment Approved standards UL/CSA stand CE marking North America Insulation class Insulation resistance Weight	Instantaneous maximum current Rated rotation speed Highest rotation speed Torque constant Rotor moment of inertia Rated power rate Rated angle acceleration Excitation method Allowable load moment of inertia ratio Resolution Operating environment Operating environment Ambient storage temperature Ambient operating/storage humidity Vibration resistance Enclosure rating Operating environment Operating environment Altitude Approved standards UL/CSA standards CE marking Low-voltage directive EMI EMS North American EMI standards Insulation class Insulation resistance Weight



Dimensions

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^{*} Download CAD file or product manual for larger image/text and more detail.