



SV2-M300AS

Straight axis Absolute 3kW



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

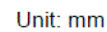
Model			SV2-M300AS
General specifications	Applicable servo amplifier		SV2-300L2, SV2-500L2
	Rated output		SV2-300L2: 2.4kW, SV2-500L2: 2.9kW
	Rated torque		SV2-300L2: 15.1 N·m *1 SV2-500L2: 18.6N·m *1
	Instant maximum torque		SV2-300L2: 45.1 N·m, SV2-500L2: 54.0 N·m
	Rated current		SV2-300L2: 19.6 Arms, SV2-500L2: 23.8 Arms
	Instant maximum current		SV2-300L2: 56 Arms, SV2-500L2: 70 Arms
	Rated rotation speed		1500 min ⁻¹
	High rotation speed		3000 min ⁻¹
	Torque constant		0.848 N·m/Arms
	Rotor moment of inertia		46.0 ×10 ⁻⁴ kg·m ²
	Rated power rating		SV2-300L2: 49.5 kW/s, SV2-500L2: 75.2 kW/s
	Rated angle acceleration		SV2-300L2: 3280 rad/s ² , SV2-500L2: 4040 rad/s ²
	Excitation method		Permanent magnet
	Position/speed detection encoder	Resolution	22 bits
		Type	Absolute (ABS) type
	Operating environment	Enclosure rating	Completely closed, self-cooling, IP67 standard (excluding connector and axis through-hole area)
		Operating ambient temperature	0 to +60°C 32 to 140°F (reduced ratings at +40°C 104°F or more)
		Storage ambient temperature	-20 to +60°C -4 to +140°F
		Operating/storage ambient temperature	20 to 80% RH (no condensation)
		Operating atmosphere	Indoors (no corrosive gas, flammable gas, oil mist, or dust)
		Altitude	2000 m 6561.7' or less (reduced ratings at 1000 m 3280.8' or more)
		Vibration rank	V15
		Vibration resistance	49 m/s ² 160.8'/s² with servo motor flange surface as reference (up/down, left/right) 24.5 m/s ² 80.4'/s² (forward/backward)
		Impact resistance	490 m/s ² 1607.6'/s² with servo motor flange surface as reference, 2 times
	Isolation rank		phase F
	Min. insulation resistance		500 VDC, 10 MΩ or more with insulation resistance tester
	Isolation voltage tolerance		1500 VAC for 1 minute
Approved standards	UL/CSA standards		UL1004-1, UL1004-6, CSA C22.2 No.100
	CE marking	Low-voltage directive	EN60034-1, EN60034-5
		EMI	EN55011 Class A, EN61800-3, EN61000-6-4
		EMS	EN61800-3, EN61000-6-2

	North America EMI standard	FCC Part15 B, ICES-003. Class A
	Allowable load inertia moment	SV2-300L2: 3 ×, SV2-500L2: 5 ×
	Approx. weight	13.5 kg

*1 50 W to 750 W rated torque is continuously allowable with ambient temperatures of 40°C 104°F and 200 × 200 × 6 mm 7.87" × 7.87" × 0.24" (50 W / 100 W) or 250 × 250 × 6 mm 9.84" × 9.84" × 0.24" (200 W to 750 W) mountable aluminum heat sink.
1 kW to 5 kW rated torque is continuously allowable with ambient temperatures of 40°C 104°F and 400 × 400 × 20 mm 15.75" × 15.75" × 0.79" (1 kW to 2 kW) or 550 × 550 × 30 mm 21.65" × 21.65" × 1.18" (3 kW to 5 kW) mountable aluminum heat sink.

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

SV2-M100A□/M150A□/M200A□/M300A□/M500A□



*1 The shaft diameter (the S dimension above) of the SV2-M100A□/M150A□ differs from the same capacity SV Series.

*2 The tolerance of SV2-M300A□/SV2-M500A□ is as indicated, but it does not fit the tolerance zone class h6.