

Model Designations

SGMCV - 02 A E A 1 1

Σ-V Series Direct Drive Servomotor	Rated Torque 04 : 4 N·m 10 : 10 N·m 14 : 14 N·m 08 : 8 N·m 17 : 17 N·m 25 : 25 N·m	Motor Outer Diameter A : 100 mm* B : 135 mm C : 175 mm D : 230 mm*	Encoder Specifications E : 22-bit absolute (without multitum data) I : 22-bit absolute (with multitum data)	Design Revision Order	Flange Specifications 1: C face on the opposite drive end 4: C face on the opposite drive end (with cable on side)	Option 1: Without option 5: High-precision specification for reduced axial and radial run-out
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* : Estimate orders

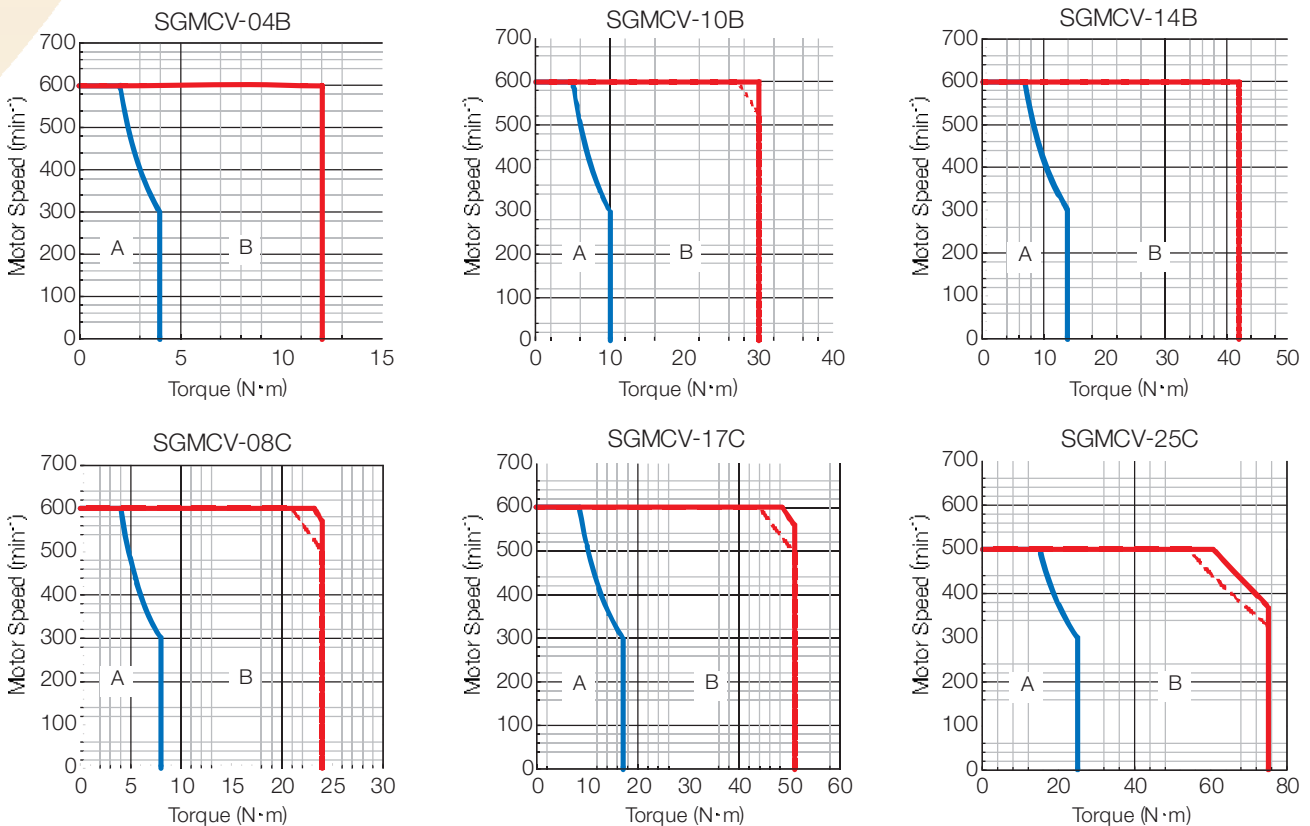
Specifications

Items	Units	Servomotor Model SGMCV-□□□					
		04B	10B	14B	08C	17C	25C
Applicable SERVOPACK Model SGD V-□□□		2R8		5R5	2R8	5R5	120
Rated Output*1	W	126	314	440	251	534	785
Rated Torque*1,*2	N·m	4.0	10.0	14.0	8.0	17.0	25.0
Instantaneous Peak Torque*1	N·m	12.0	30.0	42.0	24.0	51.0	75.0
Rated Current*1	Arms	1.8	2.8	4.6	2.3	4.5	4.5
Instantaneous Max. Current*1	Arms	5.6	8.9	14.1	7.3	14.7	13.9
Rated Speed*1	min ⁻¹	300			300		
Max. Speed*1	min ⁻¹	600			600		500
Torque Constant	N·m/Arms	2.39	3.81	3.27	3.81	4.04	6.04
Rotor Moment of Inertia	×10 ⁻⁴ kg·m ²	16.2	25.2	36.9	56.5	78.5	111
Rated Power Rate*1	kW/s	9.88	39.7	53.1	11.3	36.8	56.3
Rated Angular Acceleration*1	rad/s ²	2470	3970	3790	1420	2170	2250

* 1 : These items and torque-motor speed characteristics quoted in combination with a SERVOPACK are at an armature winding temperature of 100°C. Other values quoted at 20°C.
 * 2 : Rated torques are continuous allowable torque values at 40°C with a steel heat sink of the following dimensions attached.
 SGMCV-04B, 10B, 14B : 350×350×12 (mm) SGMCV-08C, 17C, 25C : 450×450×12 (mm)

Torque-Motor Speed Characteristics (Applicable SERVOPACK Model SGD V- I I)

A : Continuous Duty Zone
 B : Intermittent Duty Zone*



* : Differs depending on the supply voltage. The solid and dotted lines indicate the characteristics when a servomotor runs with the following combinations:
 · The solid line: With a three-phase 200 V or a single-phase 230 V SERVOPACK
 · The dotted line: With a single-phase 200 V SERVOPACK
 The SGMCV-04B and -14B servomotors combined with a single-phase 200 V SERVOPACK has the same characteristics as one combined with a three-phase 200 V SERVOPACK.