Ratings and Specifications

Time Rating: Continuous
Vibration Class: V15
Insulation Resistance: 500 VDC, 10 MΩ min.
Ambient Temperature: 0 to 40°C
Excitation: Permanent magnet
Mounting: Flange-mounted
Thermal Class: B

Withstand Voltage: 1500 VAC for one minute
Enclosure: Totally enclosed, self-cooled, IP65 (except for shaft opening)
Ambient Humidity: 20% to 80% (no condensation)
Drive Method: Direct drive
Rotation Direction: Counterclockwise (CCW) with forward run reference when viewed from the load side

Voltage		200 V							
Servomotor Model: SGMAV-□□□		A5A	01A	C2A	02A	04A	06A	08A	10A
Rated Output*1	W	50	100	150	200	400	550	750	1000
Rated Torque*1, *2	N·m	0.159	0.318	0.477	0.637	1.27	1.75	2.39	3.18
Instantaneous Peak Torque*1	N·m	0.477	0.955	1.43	1.91	3.82	5.25	7.16	9.55
Rated Current*1	A_{rms}	0.66	0.91	1.3	1.5	2.6	3.8	5.3	7.4
Instantaneous Max. Current*1	A_{rms}	2.1	2.8	4.2	5.3	8.5	12.2	16.6	23.9
Rated Speed*1	min^{-1}	3000							
Max. Speed*1	min^{-1}	6000							
Torque Constant	$N·m/A_{rms}$	0.265	0.375	0.381	0.450	0.539	0.496	0.487	0.467
Rotor Moment of Inertia	$×10^{-4}$ kg·m²	0.0242 (0.0389)	0.0380 (0.0527)	0.0531 (0.0678)	0.116 (0.180)	0.190 (0.254)	0.326 (0.403)	0.769 (0.940)	1.20 (1.41)
Rated Power Rate*1	kW/s	10.4	26.6	42.8	35.0	84.9	93.9	74.1	84.3
Rated Angular Acceleration*1	rad/s²	65800	83800	89900	54900	67000	53700	31000	26500
Applicable SERVOPACK	SGDV-□□□□	R70□	R90□	1R6A,2R1F		2R8□	5R5A	5R5A	120A

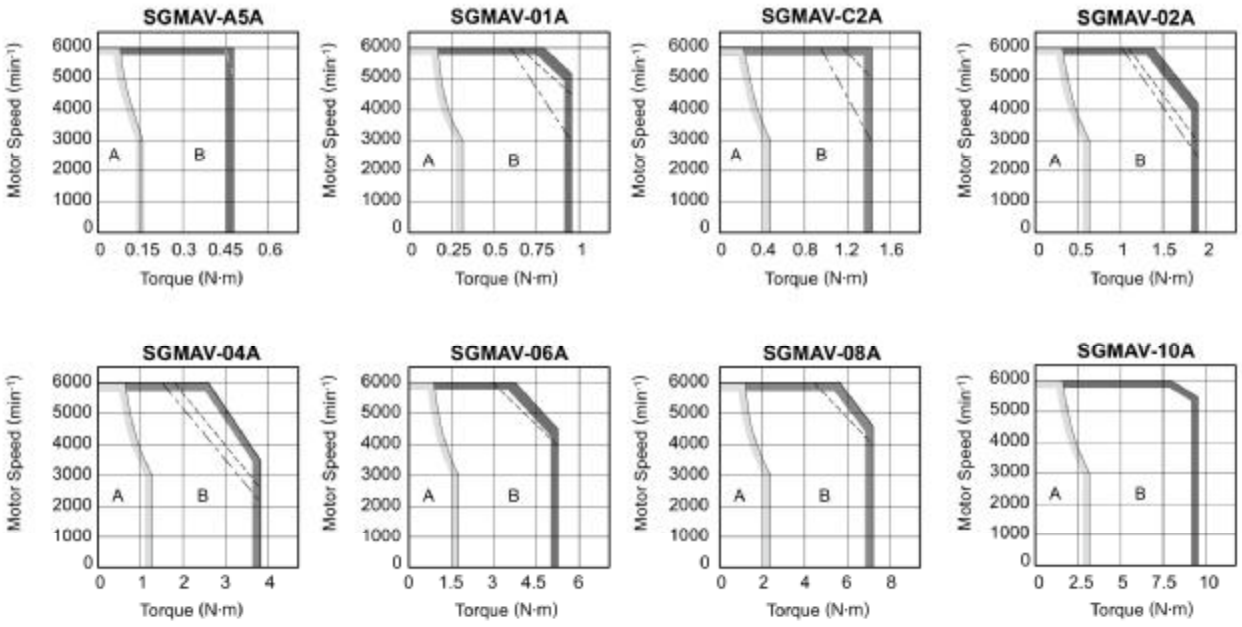
*1: These items and torque-motor speed characteristics quoted in combination with an SGDV SERVOPACK are at an armature winding temperature of 100°C. Other values quoted are at 20°C.

*2: Rated torques are continuous allowable torque values at 40°C with an aluminum heat sink of the following dimensions attached.
SGMAV-A5A, -01A: 200 mm×200 mm×6 mm
SGMAV-C2A, -02A, -04A, -06A, -08A: 250 mm×250 mm×6 mm
SGMAV-10A: 300 mm×300 mm×12 mm

Note: The values in parentheses are for servomotors with holding brakes.

●Torque-Motor Speed Characteristics

A: Continuous Duty Zone B: Intermittent Duty Zone(See Note3)



Notes: 1 The solid, dotted, and dashed-dotted lines of the intermittent duty zone 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 dashed-dotted line: With a single-phase 100 V SERVOPACK
An SGMAV-A5A servomotor has the same characteristics in combination with three-phase 200 V and single-phase 200 V SERVOPACKs.
2 The characteristics of the intermittent duty zone differ depending on the supply voltages.
3 When the effective torque during intermittent duty is within the rated torque, the servomotor can be used within the intermittent duty zone.
4 When the main circuit cable length exceeds 20 m, note that the intermittent duty zone of the Torque-Motor Speed Characteristics will shrink as the line-to-line voltage drops.