

# SJ-DG Series Spindle Motors

## SJ-DG Spindle Motor 200V (High-Output Specifications)

Model Number	SJ-DG3.7/120-03T	SJ-DG5.5/120-04T	SJ-DG7.5/120-05T	SJ-DG11/100-03T
Stocked Item	-	-	-	-
Compatible Drive Unit	1-Axis Type MDS-E-SP-	160	160	200
	2-Axis Type MDS-E-SP2-	-	-	-
	Multi Axis Integrated Type MDS-EM-SPV3-	100xx	100xx	16080
Standard Output During Acceleration/Deceleration (kW)	5.5	7.5	11.0	15.0
Actual Accel/Decel Output (kW) (*2)	6.6	9.0	13.2	18.0
Base Rotation Speed (r/min)	1500	1500	1500	1500
Max. Rotation Speed in Constant Output Range (r/min)	10000	7000	8000	6000
Maximum Rotation Speed (r/min)	12000	12000	12000	10000
Continuous Rated Torque (N·m)	14.0	23.6	35.0	47.7
Motor Inertia (x10 <sup>-4</sup> kg·m <sup>2</sup> )	0.0066	0.012	0.022	0.029
Degree of Protection (The Shaft-Through Portion is Excluded)	IP54	IP54	IP54	IP54
External Dimensions (Flange Type) mm	174 SQ x 327	174 SQ x 417	204 SQ x 439	204 SQ x 489
Flange Fitting Diameter (mm)	ø150	ø150	ø180	ø180
Shaft Diameter (mm)	ø28	ø28	ø32	ø48
Weight (kg)	24	37	50	61

### Notes:

- Only the combination designated in this manual can be used for the motor and drive unit. Always use the designated combination.
- Actual acceleration/deceleration output is 1.2-fold of "Standard output during acceleration/deceleration" or "Short time rated output".

