

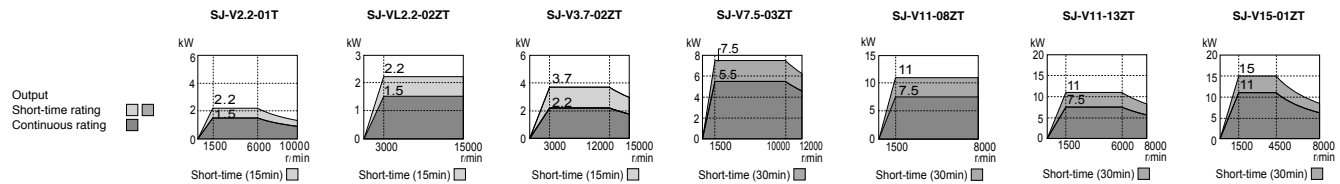
# SJ-V Series Spindle Motors

## SJ-V Spindle Motor 200V (Normal Specifications)

Model Number	SJ-V2.2-01T	SJ-VL2.2-02ZT (*1)	SJ-V3.7-02ZT	SJ-V7.5-03ZT	SJ-V11-08ZT	SJ-V11-13ZT	SJ-V15-01ZT
Stocked Item	-	-	-	-	-	-	-
Compatible Drive Unit	1-Axis Type MDS-E-SP-	40	40	80	160	200	200
	2-Axis Type MDS-E-SP2-	40	40	80 16080(M)	16080(L)	-	-
	Multi Axis Integrated Type MDS-EM-SPV3-	-	-	-	16080	200xx	200xx
Standard Output During Acceleration/Deceleration (kW)	2.2	2.2	3.7	7.5	11	11	15
Actual Accel/Decel Output (kW) (*2)	2.64	2.64	4.44	9	13.2	13.2	18
Base Rotation Speed (r/min)	1500	3000	3000	1500	1500	1500	1500
Max. Rotation Speed in Constant Output Range (r/min)	6000	15000	12000	10000	8000	6000	4500
Maximum Rotation Speed (r/min)	10000	15000	15000	12000	8000	8000	8000
Continuous Rated Torque (N·m)	9.5	4.77	7.0	35	47.7	47.7	70
Motor Inertia (kg·m <sup>2</sup> )	0.00675	0.0024	0.00675	0.0245	0.03	0.03	0.0575
Degree of Protection (The Shaft-Through Portion is Excluded)	IP44	IP44	IP44	IP44	IP44	IP44	IP44
External Dimensions (Flange Type) mm	174 SQ x 300	130 SQ x 325	174 SQ x 300	204 SQ x 440	204 SQ x 490	204 SQ x 490	250 SQ x 469.5
Flange Fitting Diameter (mm)	ø150	ø110	ø150	ø180	ø180	ø180	ø230
Shaft Diameter (mm)	ø28	ø22	ø28	ø32	ø48	ø48	ø48
Weight (kg)	25	20	25	60	70	70	110

**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".

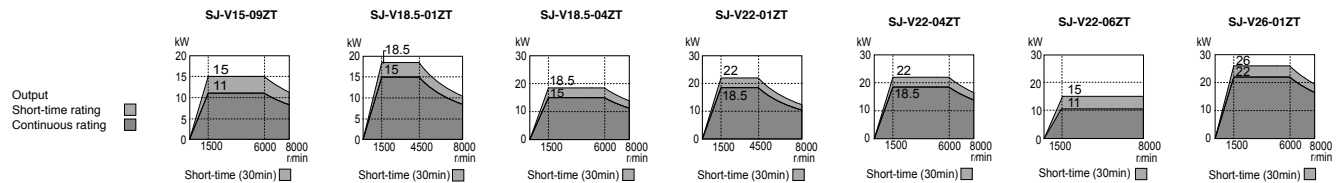


## SJ-V Spindle Motor 200V (Normal Specifications)

Model Number	SJ-V15-09ZT	SJ-V18.5-01ZT	SJ-V18.5-04ZT	SJ-V22-01ZT	SJ-V22-04ZT	SJ-V22-06ZT	SJ-V26-01ZT
Stocked Item	-	-	-	-	-	-	S
Compatible Drive Unit	1-Axis Type MDS-E-SP-	200	200	240	240	320	240
	2-Axis Type MDS-E-SP2-	-	-	-	-	-	-
	Multi Axis Integrated Type MDS-EM-SPV3-	200xx	-	-	-	-	-
Standard Output During Acceleration/Deceleration (kW)	15	18.5	18.5	22	22	15	26
Actual Accel/Decel Output (kW) (*2)	18	22.2	22.2	26.4	26.4	18	31.2
Base Rotation Speed (r/min)	1500	1500	1500	1500	1500	1500	1500
Max. Rotation Speed in Constant Output Range (r/min)	6000	4500	6000	4500	6000	8000	6000
Maximum Rotation Speed (r/min)	8000	8000	8000	8000	8000	8000	8000
Continuous Rated Torque (N·m)	70	95.5	95.5	118	118	70.0	140
Motor Inertia (kg·m <sup>2</sup> )	0.0575	0.0575	0.0575	0.08	0.08	0.0575	0.0925
Degree of Protection (The Shaft-Through Portion is Excluded)	IP44	IP44	IP44	IP44	IP44	IP44	IP44
External Dimensions (Flange Type) mm	250 SQ x 469.5	250 SQ x 469.5	250 SQ x 469.5	250 SQ x 539.5	250 SQ x 539.5	250 SQ x 469.5	250 SQ x 585.5
Flange Fitting Diameter (mm)	ø230	ø230	ø230	ø230	ø230	ø230	ø230
Shaft Diameter (mm)	ø48	ø48	ø48	ø55	ø55	ø48	ø55
Weight (kg)	110	110	110	135	135	110	155

**Notes:**

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- Actual acceleration/deceleration output is 1.2-fold of "Standard output during acceleration/deceleration" or "Short time rated output".

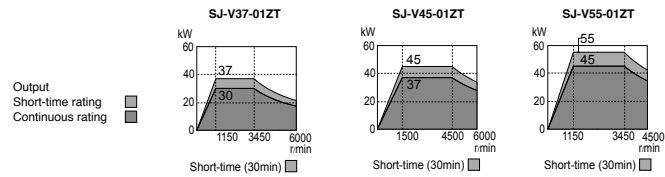


### SJ-V Spindle Motor 200V (Normal Specifications)

Model Number	SJ-V37-01ZT	SJ-V45-01ZT	SJ-V55-01ZT
Stocked Item	-	-	S
Compatible Drive Unit	1-Axis Type MDS-E-SP-	400	640
	2-Axis Type MDS-E-SP2-	-	-
	Multi Axis Integrated Type MDS-EM-SPV3-	-	-
Standard Output During Acceleration/Deceleration (kW)	37	45	55
Actual Accel/Decel Output (kW) (*2)	44.4	54	66
Base Rotation Speed (r/min)	1150	1500	1150
Max. Rotation Speed in Constant Output Range (r/min)	3450	4500	3450
Maximum Rotation Speed (r/min)	6000	6000	4500
Continuous Rated Torque (N·m)	249	236	374
Motor Inertia (kg·m <sup>2</sup> )	0.34	0.34	0.8475
Degree of Protection (The Shaft-Through Portion is Excluded)	IP44	IP44	IP44
External Dimensions (Flange Type) mm	320 SQ x 700	320 SQ x 700	480 SQ x 724
Flange Fitting Diameter (mm)	ø300	ø300	ø450
Shaft Diameter (mm)	ø60	ø60	ø75
Weight (kg)	300	300	450

**Notes:**

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

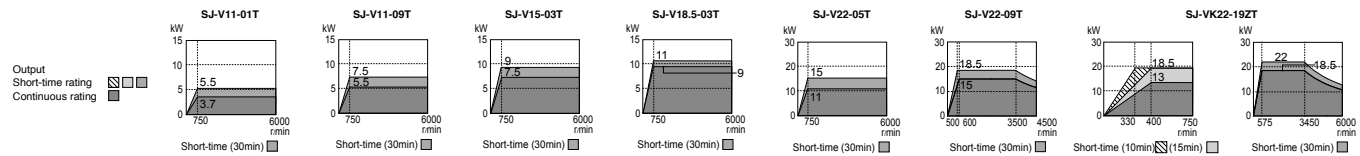


### SJ-V Spindle Motor 200V (Wide Range Constant Output Specifications)

Model Number	SJ-V11-01T	SJ-V11-09T	SJ-V15-03T	SJ-V18.5-03T	SJ-V22-05T	SJ-V22-09T	SJ-VK22-19ZT
Stocked Item	S	-	-	-	-	-	-
Compatible Drive Unit	1-Axis Type MDS-E-SP-	160	160	200	240	320	320
	2-Axis Type MDS-E-SP2-	16080(L)	16080(L)	-	-	-	-
	Multi Axis Integrated Type MDS-EM-SPV3-	16080	16080	200xx	-	-	-
Standard Output During Acceleration/Deceleration (kW)	5.5	7.5	9	11	15	18.5	18.5
Actual Accel/Decel Output (kW) (*2)	6.6	9	10.8	13.2	18	22.2	22.2
Base Rotation Speed (r/min)	750	750	750	750	750	500	330
Max. Rotation Speed in Constant Output Range (r/min)	6000	6000	6000	6000	6000	3500	750
Maximum Rotation Speed (r/min)	6000	6000	6000	6000	6000	4500	750
Continuous Rated Torque (N·m)	47.1	70.0	95.5	115	140	239	310
Motor Inertia (kg·m <sup>2</sup> )	0.03	0.0575	0.0575	0.08	0.08	0.31	0.34
Degree of Protection (The Shaft-Through Portion is Excluded)	IP44	IP44	IP44	IP44	IP44	IP44	IP44
External Dimensions (Flange Type) mm	204SQ x 490	250SQ x 469.5	250SQ x 469.5	250SQ x 539.5	250SQ x 539.5	320SQ x 631	320SQ x 700
Flange Fitting Diameter (mm)	ø180	ø230	ø230	ø230	ø230	ø300	ø300
Shaft Diameter (mm)	ø48	ø48	ø48	ø55	ø55	ø60	ø60
Weight (kg)	70	110	110	135	135	280	300

**Notes:**

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

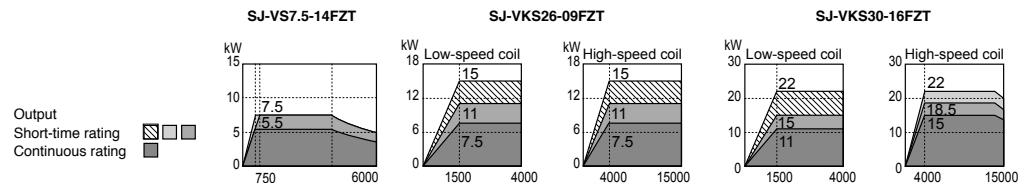


## SJ-V Spindle Motor 200V (Hollow Shaft Specifications)

Model Number	SJ-VS7.5-14FZT	SJ-VKS26-09FZT	SJ-VKS30-16FZT
Stocked Item	-	-	-
Compatible Drive Unit	1-Axis Type MDS-E-SP-	160	320
	2-Axis Type MDS-E-SP2-	16080(L)	-
	Multi Axis Integrated Type MDS-EM-SPV3-	-	-
Standard Output During Acceleration/Deceleration (kW)	7.5	15	22
Actual Accel/Decel Output (kW) (*2)	9	18	26.4
Base Rotation Speed (r/min)	1500	1500	4000
Max. Rotation Speed in Constant Output Range (r/min)	10000	4000	15000
Maximum Rotation Speed (r/min)	15000	4000	15000
Continuous Rated Torque (N·m)	35	47.7	70
Motor Inertia (kg·m <sup>2</sup> )	0.0248	0.03	0.0575
Degree of Protection (The Shaft-Through Portion is Excluded)	IP44	IP44	IP44
External Dimensions (Flange Type) mm	208 SQ x 459.5	208 SQ x 509.5	250 SQ x 565
Flange Fitting Diameter (mm)	ø180	ø180	ø320
Shaft Diameter (mm)	ø32	ø38	ø48
Weight (kg)	60	75	130

### 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".



## SJ-V Spindle Motor 200V (Low-inertia Specifications)

Model Number	SJ-VL11-02FZT	SJ-VL11-05FZT-S01 (*1)	SJ-VL18.5-05FZT
Stocked Item	-	-	-
Compatible Drive Unit	1-Axis Type MDS-E-SP-	160	240
	2-Axis Type MDS-E-SP2-	16080(L)	-
	Multi Axis Integrated Type MDS-EM-SPV3-	16080	16080 (*2)
Standard Output During Acceleration/Deceleration (kW)	11	11	18.5
Actual Accel/Decel Output (kW) (*2)	13.2	13.2	22.2
Base Rotation Speed (r/min)	1500	5000	3000
Max. Rotation Speed in Constant Output Range (r/min)	15000	20000	15000
Maximum Rotation Speed (r/min)	15000	20000	15000
Continuous Rated Torque (N·m)	14.0	2.8	7.0
Motor Inertia (kg·m <sup>2</sup> )	0.003	0.0024	0.00525
Degree of Protection (The Shaft-Through Portion is Excluded)	IP44	IP44	IP44
External Dimensions (Flange Type) mm	174 SQ x 441	130 SQ x 325	174 SQ x 441
Flange Fitting Diameter (mm)	ø150	ø110	ø150
Shaft Diameter (mm)	ø28	ø22	ø28
Weight (kg)	42	20	40

### Notes:

- The acceleration/deceleration frequency is limited by the regenerative resistor.
- The maximum rotation speed is 15000r/min.

### General 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".

