

HF-KP Series Motor Specifications

Model Number		HF-KP23JW04-S6	HF-KP43JW04-S6	HF-KP73JW04-S6
Compatible Servo Drive Unit Type:	MDS-D2-V1-	20	20	20
	MDS-D2-V2-	2020 4020 (M)	2020 4020 (M)	2020 4020 (M)
	MDS-D2-V3-	202020	202020	202020
Continuous Characteristics	Rated Output (kW)	0.2	0.4	0.75
	Rated Current (A)	1.4	2.7	5.2
	Rated Torque (N·m)	0.64	1.3	2.4
	Stall Current (A)	1.4	2.7	5.2
	Stall Torque (N·m)	0.64	1.3	2.4
Power Facility Capacity (kVA)		0.6	0.9	1.5
Rated Rotation Speed (r/min)		3000		
Maximum Rotation Speed (r/min)		6000		
Maximum Current (A)		4.3	8.5	15.5
Maximum Torque (N·m)		1.9	3.8	7.2
Power Rate at Continuous Rated Torque (kW/s)		16.9	38.6	39.9
Motor Inertia (kg·cm ²)		0.23	0.42	1.43
Motor Inertia With Brake (kg·cm ²)		0.31	0.50	1.63
Maximum Motor Shaft Conversion Load Inertia Ratio		General machine (non-interpolation axis): 15 times or less of motor inertia		
Motor Side Detector		Resolution per motor revolution: 260,000 pulse/rev		
Structure		IP65 (The shaft-through portion is excluded.)		
Environment	Ambient Temperature	Operation: 0 to 40°C (with no freezing), Storage: -15°C to 70°C (with no freezing)		
	Ambient Humidity	Operation: 80%RH or less (with no dew condensation), Storage: 90%RH or less (with no dew condensation)		
	Atmosphere	Indoors (no direct sunlight); no corrosive gas, inflammable gas, oil mist, or dust		
	Altitude	Operation: 1000 meters or less above sea level, Storage: 10000 meters or less above sea level		
Vibration		X, Y: 49m/s ² (5G)		
Flange Size (mm)		60 SQ		80 SQ
Total Length (Excluding Shaft) (mm) (*2)		98	119.9	134.2
Flange Fitting Diameter (mm)		ø50		ø70
Shaft Diameter (mm)		ø14		ø19
Weight Without / With Brake (kg)		1.2/1.8	1.7/2.3	2.9/4.1
Heat-Resistant Class		130 (B)		

Notes:

- The above characteristics values are representative values. The maximum current and maximum torque are the values when combined with the drive unit.
- Only the combination designated in this manual can be used for the motor and drive unit. Always use the designated combination.

HF-KP Series Servomotor Selection

Description	Model Number	Stocked Item	Notes
Servomotor With Brake .64NM STALL 6KRPM 260KPPR	HF-KP23BJW04-S6	-	Use MDS-D2-V_-20 drive unit
Servomotor .64NM STALL 6KRPM 260KPPR	HF-KP23JW04-S6	-	
Servomotor With Brake 1.3NM STALL 6KRPM 260KPPR	HF-KP43BJW04-S6	S	
Servomotor 1.3NM STALL 6KRPM 260KPPR	HF-KP43JW04-S6	S	
Servomotor With Brake 2.4NM STALL 6KRPM 260KPPR	HF-KP73BJW04-S6	-	
Servomotor 2.4NM STALL 6KRPM 260KMPPR	HF-KP73JW04-S6	S	