

### MDS-EJ/EJH Series All-In-One Compact Servo Drive Unit

Model Number	MDS-EJ-V1-10	MDS-EJ-V1-15	MDS-EJ-V1-30	MDS-EJ-V1-40	MDS-EJ-V1-80	MDS-EJ-V1-100
Stocked Item	-	-	S	-	S	-
Drive Unit Category	1-axis servo (with converter)					
Nominal Max. Current (Peak) (A)	10	15	30	40	80	100
Power Input	Rated Voltage (V)	3-phase or single-phase 200 to 240AC Tolerable fluctuation: between +10% and -15% 3-phase 200 to 240AC Tolerable fluctuation: between +10% and -15%				
	Rated Current (A)	1.5	2.9	3.8	5.0	10.5
Control Power Input	Voltage (V)	Single-phase 200 to 240AC Tolerable fluctuation: between +10% and -15%				
	Current (A)	MAX. 0.2				
	Frequency (Hz)	50/60 Tolerable fluctuation: between +5% and -5%				
Control Method	Sine wave PWM control method					
Regeneration Method	Power regeneration method					
Dynamic Brakes	Built-in					
Machine End Encoder	Compatible					
Degree of Protection	IP20					
Cooling Method	Natural cooling			Forced air cooling		
Weight (kg)	0.8	1.0	1.4	2.1	2.1	2.3

Model Number	MDS-EJH-V1-10	MDS-EJH-V1-15	MDS-EJH-V1-20	MDS-EJH-V1-40
Stocked Item	-	-	-	-
Drive Unit Category	1-axis servo (with converter)			
Nominal Max. Current (Peak) (A)	10	15	20	40
Power Input	Rated Voltage (V)	3-phase 380 to 480AC Tolerable fluctuation: between +10% and -15%		
	Rated Current (A)	1.4	2.5	5.1
Control Power Input	Voltage (V)	Single-phase 380 to 480AC Tolerable fluctuation: between +10% and -15%		
	Current (A)	MAX. 0.1		MAX. 0.2
	Frequency (Hz)	50/60 Tolerable fluctuation: between +5% and -5%		
Control Method	Sine wave PWM control method			
Regeneration Method	Power regeneration method			
Dynamic Brakes	Built-in			
Machine End Encoder	Compatible			
Degree of Protection	IP20			
Cooling Method	Natural cooling		Forced air cooling	
Weight (kg)	0.8	1	1.4	2.3

### All-in-one Compact Spindle Drive Unit

Model Number	MDS-EJ-SP-20	MDS-EJ-SP-40	MDS-EJ-SP-80	MDS-EJ-SP-100	MDS-EJ-SP-120	MDS-EJ-SP-160
Stocked Item	-	-	-	-	-	-
Drive Unit Category	1-axis spindle (with converter)					
Nominal Max. Current (Peak) (A)	20	40	80	100	120	160
Power Input	Rated Voltage (V)	3-phase 200 to 240AC Tolerable fluctuation: between +10% and -15%				
	Rated Current (A)	2.6	9.0	10.5	16.0	26.0
Control Power Input	Voltage (V)	Single-phase 200 to 240AC Tolerable fluctuation: between +10% and -15%				
	Current (A)	MAX. 0.2				
	Frequency (Hz)	50/60 Tolerable fluctuation: between +5% and -5%				
Control Method	Sine wave PWM control method					
Regeneration Method	Power regeneration method					
Degree of Protection	IP20 (excluding terminal block)					
Cooling Method	Forced air cooling					
Weight (kg)	1.4	2.1	2.3	4.0	4.0	6.2

## MDS-EJ Series Power Cable and Brake Cable for Servo Motor Selection List

Servo Motor Type		Drive Unit Type MDS-EJ-V1	Power Cable		Brake Cable
			Drive Unit Side	Motor Side Straight	Motor Side Straight
HG Series	HG54	30	Supplied for each drive unit	MR-J3P2- _M (low flex) MR-J3PWS2- _M (high flex) (_ = 2, 5, 10, 15, 20, 25, 30)	MR-J3BK- _M (low flex) MR-J3BRKS1- _M (high flex)  CNU23S
	HG104	40			
	HG123				
	HG142				
	HG223				
	HG302	80			
	HG154				
	HG224				
	HG204				
HG303					
HG354	100				

## MDS-EJ Series Power Cable, Detector Cable, and Connector for Spindle Motor Selection List

Spindle Motor Type		Drive Unit Type MDS-EJ-SP	Power Cable		Spindle Motor
			When Connecting to a Spindle Motor		When Connecting to a Spindle Motor
			Drive Unit Side	Motor Side	Motor Side PLG Cable
SJ-D Series (Normal)	SJ-D3.7/100-01	80	Supplied for each drive unit	Terminal Block Connection	CNP2E-1- _M (_ = 5, 10, 15, 20)
	SJ-D5.5/100-01	100			
	SJ-D5.5/120-01				
	SJ-D7.5/100-01	120			
	SJ-D7.5/120-01	160			
SJ-D11/100-01	Terminal Block Connection				
SJ-DJ Series (Compact & Lightweight)	SJ-DJ5.5/100-01	100	Terminal Block Connection	Terminal Block Connection	CNP2E-1- _M (_ = 5, 10, 15, 20)
	SJ-DJ5.5/120-01	120			
	SJ-DJ7.5/100-01				
	SJ-DJ7.5/120-01	160			