

2-3-2 Multi axis drive unit

(1) 3-axis integrated servo drive unit

		3-axis integrated servo drive unit MDS-DM-V3 Series	
Servo drive unit type MDS-DM-V3-		202020	404040
Nominal maximum current (peak) [A]		20/20/20	40/40/40
Output	Rated voltage [V]	AC155	
	Rated current [A]	6.4/6.4/6.4	11/11/11
Input	Rated voltage [V]	DC270 to 311	
	Rated current [A]	21	21
Control power	Voltage [V]	200AC (50Hz) / 200 to 230AC (60Hz) Tolerable fluctuation between +10% and -15%	
	Frequency [Hz]	50/60 Tolerable fluctuation between +3% and -3%	
	Maximum current [A]	0.2	
	Maximum rush current [A]	30	
	Maximum rush conductivity time [ms]	6	
Earth leakage current [mA]		1 (Max. 2)	
Control method		Sine wave PWM control method	
Braking		Regenerative braking and dynamic brakes	
	Dynamic brakes	Built-in	
External analog output		0 to +5V, 2ch (data for various adjustments)	
Degree of protection		IP20 [over all]	
Cooling method		Forced air cooling	
Mass [kg]		3.8	
Heat radiated at rated output [W]		89	159
Noise		Less than 55dB	
Unit outline dimension drawing		A0	

(2) Multi axis integrated drive unit

		Multi axis integrated drive unit MDS-DM-SPV2/SPV3 Series						
Drive unit type MDS-DM-		SPV2F-			SPV3F-			
		10080	16080	20080	10080	16080	20080	200120
Nominal maximum current (at peak of spindle section) [A]		100	160	200	100	160	200	200
Nominal maximum current (at peak of servo section) [A]		80×2			80×3			120×3
Power facility capacity [kVA]		17.1	21.7	27.0	28.2	14.7	19.3	24.6
Output	Rated voltage [V]	AC155						
	Rated current (spindle axis) [A]	26	37	67	26	37	67	67
	Rated current (servo) [A]	15.8×2			15.8×3			28×3
Input	Rated voltage [V]	AC200 (50Hz) / AC200 to 230 (60Hz) Tolerable fluctuation between +10% and -15%						
	Rated current [A]	33	43	55	38	48	60	65
Control power	Voltage [V]	DC24±10%						
	Maximum current [A]	4.0						
	Maximum rush current [A]	10						
	Maximum rush conductivity time [ms]	100						
Earth leakage current [mA]		9/ Max.21 (Details: Spindle 6/Max.15, Servo per one axis 1/Max.2)						
Control method		Sine wave PWM control method						
Braking		Regenerative braking and dynamic brakes (only regenerative braking for spindle)						
	Dynamic brakes	Built-in						
External analog output		0 to +5V,2ch (data for various adjustments)						
Degree of protection		IP20 [over all] (IP00 [Terminal block TE1])						
Cooling method		Forced air cooling						
Mass [kg]		14.5			15			
Heat radiated at rated output [W]		630	700	895	730	800	990	1260
Noise		Less than 55dB						
Unit outline dimension drawing		F0						



For outline dimension drawings, refer to "DRIVE SYSTEM DATA BOOK" (IB-1500273(ENG)).