

2-4-2 Servo drive unit

(1) 200V series  
< MDS-D Series >

		1-axis servo drive unit MDS-D-V1 Series						
Servo drive unit type MDS-D-V1-		20	40	80	160	160W	320	320W
Nominal maximum current (peak) [A]		20	40	80	160	160	320	320
Output	Rated voltage [V]	155AC						
	Rated current [A]	6.4	11	16	29.6	40.2	59.6	97
Input	Rated voltage [V]	270 to 311DC						
	Rated current [A]	7.0	7.0	14	30	35	45	55
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						External (MDS-D-DBU)
	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]		3.8			4.5	5.8	7.5	
Heat radiated at rated output [W]		40	58	96	184	245	366	471
Noise		Less than 55dB						
Unit outline dimension drawing		A1	A1	A1	A1	B1	C1	D1

		2-axis servo drive unit MDS-D-V2 Series							
Servo drive unit type MDS-D-V2-		2020	4020	4040	8040	8080	16080	160160	160160W
Nominal maximum current (peak) [A]		20/20	40/20	40/40	80/40	80/80	160/80	160/160	160/160
Output	Rated voltage [V]	AC155							
	Rated current [A]	6.4/6.4	11/6.4	11/11	16/11	16/16	29.6/16	29.6/29.6	40.2/40.2
Input	Rated voltage [V]	270 to 311DC							
	Rated current [A]	14	14	14	21	28	44	60	70
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. 4 For two axes)							
Control method		Sine wave PWM control method Current 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] (IP00 [Terminal block TE1])							
Cooling method		Forced air cooling							
Mass [kg]		4.5			5.2	6.3			
Heat radiated at rated output [W]		70	88	106	144	182	270	358	480
Noise		Less than 55dB							
Unit outline dimension drawing		A1	A1	A1	A1	A1	B1	B1	C1



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