Servo Drive Specifications

220V Series

	ASDA-A2	R Series			400 W		1 kW	1.5 kW	2 kW		4.5 kW		-		15kW	
			01	02	04	07	10	15	20	30	45	55	75	1B	1F	
Phase / Voltage			Three-phase / Single-phase 220V _{AC}									3-phase 220V _{AC}				
₽Ş	Permissible Voltage Range		1-phase / 3-phase 200 ~ 230V _{AC} , -15% ~ 10% 3-phase 200 ~ 230V _{AC} , -15% ~ 10										0%			
Power supply	Input Current(3PH) (Units: Arms)		0.39	1.11	1.86	3.66	4.68	5.9	8.76	9.83	17.5	19.4	26.3	48	63	
	Input Current(1PH) (Units: Arms)		0.69	1.92	3.22	6.78	8.88	10.3	-	-	-	-	-	-	-	
Continuous Output Current (Units: Arm		ut Current (Units: Arms)	0.9	1.55	2.6	5.1	7.3	8.3	13.4	19.4	32.5	40	47.5	54.4	70	
Cooling System			Natural Air Circulation Fan Cooling													
Encoder Resolution / Feedback Resolution			Incremental encoder: 20-bit ; Absolute encoder: 17-bit													
Control of Main Circuit			SVPWM(Space Vector Pulse Width Modulation) Control													
Tuning Modes			Auto / Manual													
Regen	erative Resistor		None Built-in External													
Position Control Mode	Max. Input Pulse Frequency (Only for Non-DMCNET mode)		Max. 500Kpps / 4Mpps (Line driver), Max. 200Kpps (Open collector)													
	Pulse Type (Only for Non-DMCNET mode)		Pulse + Direction, A phase + B phase, CCW pulse + CW pulse													
	Command Source		External pulse train (PT mode) (Only for Non-DMCNET mode) / Internal parameters (PR mode)													
ŏ	Smoothing Strategy		Low-pass and P-curve filter													
tion	Electronic Gear		Electronic gear N/M multiple N: 1~32767, M: 1:32767 (1/50 <n m<25600)<="" td=""></n>													
osi	Torque Limit Operation								by parame							
٩	Feed Forward Compensation		Set by parameters													
Speed Control Mode	Analog Input Voltage Range		$0 \sim \pm 10 V_{DC}$													
	Command (Only for Non-DMCNET	Input Resistance	10ΚΩ													
	mode)	Time Constant	2.2 µs													
	Speed Control R	•	1: 5000 1: 3000 1: 2000													
	Command Source					External	analog si	gnal (Only fo	r Non-DMCN	ET mode) /	nternal par	ameters				
	Smoothing Strategy							Low-pas	s and S-cu	urve filter						
	Torque Limit Operation					Set b	oy parame	tersor via a	analog inp	ut (Only for N	Ion-DMCNET	mode)				
	Frequency Resp	Frequency Response Characteristic		Maximum 1kHz												
	Speed Accuracy ^{*2} (At rated rotation speed)		0.01% or less at 0 to 100% load fluctuation													
			0.01% or less at $\pm 10\%$ power fluctuation													
			0.01% or less at 0°C to 50°C ambient temperature fluctuation													
Torque Control Mode	Analog Input Voltage Range		$0 \sim \pm 10 V_{DC}$													
	Command (Only for Non-DMCNET	Input Resistance	10ΚΩ													
	mode)	Time Constant	2.2 µs													
	Command Source		External analog signal (Only for Non-DMCNET mode) / Internal parameters													
	Smoothing Strategy							Lo	w-pass fill	ter						
Speed Limit Operation			Set by parametersor via analog input (Only for Non-DMCNET mode)													
Analog Monitor Output						Monitor	signal ca	n set by pa	rameters	(Output vo	ltage rang	e: ±8V)				
Inputs / Outputs	Inputs		Servo on, Reset, Gain switching, Pulse clear, Zero speed CLAMP, Command input reverse control, Command triggered, Speed/ Torque limit enabled, Position command selection, Motor stop, Speed position selection, Position / Speed mode switching, Speed Torque mode switching, Torque / Position mode switching, PT / PR command switching, Emergency stop, Forward / Reverse inhibi limit, Reference "Home" sensor, Forward / Reverse operation torque limit, Move to "Home", Electronic Cam (E-Cam), Forward / Reverse JOG input, Event trigger PR command, Electronic gear ratio (Numerator) selection and Pulse inhibit input * Please note that the above digital signals and inputs are available only for Non-DMCNET mode. In DMCNET mode, it is recommended to write digital inputs into the servo													
put			drives th	rough DMCN	ET communic	ation, and the	digital inputs	should be use	d for Emerger	ncy Stop, For	ward / Reverse	e Inhibit limit	and Referen	ce "Home" sen	sor only.	
Digital In	Outputs		Encoder signal output (A, B, Z Line Driver and Z Open Collector) Servo ready, Servo on, At Zero speed, At Speed reached, At Positioning completed, At Torques limit, Servo alarm (Servo fault) activated, Electromagnetic brake control, Homing completed, Output overload warning, Servo warning activated, Position comman overflow, Forward / Reverse software limit, Internal position command completed, Capture operation completed output., Motion control completed output., Master position f E-Cam (Electronic Cam)													
Protective Functions			Overcurrent, Overvoltage, Undervoltage, Motor overheated, Regeneration error, Overload, Overspeed, Abnormal pulse control command, Excessive deviation, Encoder error, Adjustment error, Emergency stop activated, Reverse/ Forward limit switch error, Position excessive deviation of full-close control loop, Serial communication error, Input power phase loss, Serial communication time out, short circuit protection of U, V, W, and CN1, CN2, CN3 terminals													
Communication Interface							RS-232	/ RS-485 /	CANoper	I/USB/D	MCNET					
Environment	Installation Site			Indoor loca	ation (free	from direct	sunlight),	no corrosi	ve liquid a	nd gas (fa	r away froi	m oil mist,	flammable	e gas, dust))	
	Altitude						Altit	ude 1000m	or lower a	above sea	level					
	Atmospheric Pressure								Pa ~ 106							
	Operating Temperature				0°C ~	- 55°C (If o	perating te	emperature	is above	45°C, forc	ed cooling	will be req	uired)			
	Storage Temperature							-2	0°C ~ 65°	С						
	Humidity							0~90% R	H (non-co	ndensing)	1					
	Vibration					9.806	65 m/s² (1	G) less tha	n 20Hz, 5	.88 m/s² (0	0.6G) 20 to	50Hz				
	IP Rating								IP20							
	Power System							Т	N System	*3						
	Approvals			IEC	/EN 61800	-5-1, UL 5	08C, C-tick		CE 🛛		LISTED	C				

Footnote:

*1. Rated rotation speed: When full load, speed ratio is defined as the minimum speed (the motor will not pause).
*2. When command is rated rotation speed, the speed fluctuation rate is defined as: (Empty load rotation speed Full load rotation speed) / Rated rotation speed
*3. TN system: A power distribution system having one point directly earthed, the exposed conductive parts of the installation being connected to that points by protective earth conductor.