




400V Series

ASDA-A2 Series		750 W	1kW	1.5kW	2kW	3kW	4.5kW	5.5kW	7.5kW	
		07	10	15	20	30	45	55	75	
Control Power	Input Voltage	24V _{DC} , ±10%								
	Input Current	0.89A			1.18A			1.66A		
	Input Power	21.4W			28.2W			39.85W		
Main Power	Permissible Voltage Range	3-phase 380 ~ 480V _{AC} , ±10%								
	Input Current (Units: Arms)	2.22	3.02	4.24	5.65	8.01	11.9	14.1	17.27	
	Continuous Output Current (Units: Arms)	3.07	3.52	5.02	6.66	11.9	20	22.37	30	
Cooling System		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								
Regenerative Resistor		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 (Only for Non-DMCNET mode)/Internal parameters								
	Smoothing Strategy	Low-pass and P-curve filter								
	Electronic Gear	Electronic gear N/M multiple N: 1~32767, M: 1:32767 (1/50<N/M<25600)								
	Torque Limit Operation	Set by parameters								
Speed Control Mode	Feed Forward Compensation	Set by parameters								
	Analog Input Command (Only for Non-DMCNET mode)	Voltage Range	0 ~ ±10 V _{DC}							
		Input Resistance	10KΩ							
		Time Constant	2.2 μs							
	Speed Control Range ¹	1: 5000				1: 3000				
	Command Source	External analog signal (Only for Non-DMCNET mode) / Internal parameters								
Torque Control Mode	Smoothing Strategy	Low-pass and S-curve filter								
	Torque Limit Operation	Set by parameter or via analog input (Only for Non-DMCNET mode)								
	Frequency Response Characteristic	Maximum 1kHz								
	Speed Accuracy ²	0.01% or less at 0 to 100% load fluctuation								
		0.01% or less at ±10% power fluctuation								
		0.01% or less at 0°C to 50°C ambient temperature fluctuation								
Analog Input Command (Only for Non-DMCNET mode)	Voltage Range	0 ~ ±10 V _{DC}								
	Input Resistance	10KΩ								
	Time Constant	2.2 μs								
Command Source	External analog signal (Only for Non-DMCNET mode) / Internal parameters									
Smoothing Strategy	Low-pass filter									
Speed Limit Operation	Set by parameter or via analog input (Only for Non-DMCNET mode)									
Analog Monitor Output		Monitor signal can set by parameters (Output voltage range: ±8V)								
Digital 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 inhibit limit, Reference "Home" sensor, Forward / Reverse operation torque limit, Move to "Home", Electronic cam, Forward / Reverse JOG input, Event trigger PR command, Electronic gear ratio (Numerator) selection and Pulse inhibit input								
	Outputs	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 command overflow, Forward / Reverse software limit, Internal position command completed, Capture operation completed output, Motion control completed output, Master position of 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 / CANopen / USB / DMCNET								
Environment	Installation Site	Indoor location (free from direct sunlight), no corrosive liquid and gas (far away from oil mist, flammable gas, dust)								
	Altitude	Altitude 1000m or lower above sea level								
	Atmospheric Pressure	86kPa ~ 106kPa								
	Operating Temperature	0°C ~ 55°C (If operating temperature is above 45°C, forced cooling will be required)								
	Storage Temperature	-20°C ~ 65°C								
	Humidity	0 ~ 90% RH (non-condensing)								
	Vibration	9.80665 m/s ² (1G) less than 20Hz, 5.88 m/s ² (0.6G) 20 to 50Hz								
	IP Rating	IP20								
Power System	TN System ³									
Approvals	IEC/EN 61800-5-1, UL 508C, C-tick   									

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.

