





Specifications

ASDA-B2 Series		100 W	200 W	400 W	750 W	1 kW	1.5 kW	2 kW	3 kW
		01	02	04	07	10	15	20	30
Power Supply	Phase / Voltage	Three-phase 170 ~ 255 V _{AC} , 50/60 Hz ±5%						Three - phase 170 ~ 255 V _{AC} , 50/60 Hz ±5%	
		Single-phase 200 ~ 255 V _{AC} , 50/60 Hz ±5%							
	Input Current (3PH) (Units: Arms)	0.7	1.11	1.86	3.66	4.68	5.9	8.76	9.83
	Input Current (1PH) (Units: Arms)	0.9	1.92	3.22	6.78	8.88	10.3	-	-
	Continuous Output Current (Units: Arms)	0.9	1.55	2.6	5.1	7.3	8.3	13.4	19.4
Cooling System		Natural Air Circulation				Fan Cooling			
Encoder Resolution		17-bit (160,000 p/rev)							
Main Circuit Control		SVPWM (Space Vector Pulse Width Modulation) Control							
Control Mode		Auto / Manual							
Regenerative Resistor		None			Built-in				
Position Control Mode	Max. Input Pulse Frequency	Transmitted by differential: 500K (low speed) / 4 Mpps (high-speed) Transmitted by open-collector: 200Kpps							
	Pulse Type	Pulse + Direction, A phase + B phase, CCW pulse + CW pulse							
	Command Source	External pulse							
	Smoothing Strategy	Low-pass filter							
	E-gear Ratio	Electronic gear N/M multiple N: 1 ~ (2 ²⁶ - 1) / M: 1 ~ (2 ³¹ - 1) (1/50 < N/M < 25600)							
	Torque Limit Operation	Set by parameters							
	Feed Forward Compensation	Set by parameters							
Speed Control Mode	Analog Input Command	Voltage Range	0 ~ ±10 V _{DC}						
		Input Resistance	10KΩ						
		Time Constant	2.2 μs						
	Speed Control Range ^{*1}	1:5000							
	Command Source	External analog signal / Internal parameters							
	Smoothing Strategy	Low-pass and S-curve filter							
	Torque Limit	Set by parameters or via analog input							
	Bandwidth	Maximum 550 Hz							
Speed Accuracy ^{*2}	±0.01% at 0 to 100% load fluctuation								
	±0.01% at ±10% power fluctuation								
	±0.01% at 0 °C to 50 °C ambient temperature fluctuation								

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Torque Control Mode	Analog Input Command	Voltage Range	0 ~ ±10 V _{DC}						
		Input Resistance	10 KΩ						
		Time Constant	2.2 μs						
	Command Source	External analog signal / Internal parameters							
	Smoothing Strategy	Low-pass filter							
	Speed Limit	Set by parameters or via analog input							
Analog Monitor Output		Monitor signal can set by parameters (Output voltage range: ±8 V)							
Digital Input / Output	Input	Servo on, Fault reset, Gain switch, Pulse clear, Zero clamp, Command input reverse control, Torque limit, Speed limit, Speed command selection, Speed/position mode switching, Speed/torque mode switching, Torque/position mode switching, Emergency stop, Positive/negative limit, Forward/reverse operation torque limit, Forward/reverse JOG input, E-gear N selection, Pulse input prohibition							
	Output	Encoder signal output (A, B, Z Line Driver / Z Open collector) Servo on, Servo ready, Zero speed, Target speed reached, Target position reached, Torque limiting, Servo alarm, Brake control, Early warning for overload, Servo warning							
Protective Functions		Over current, Overvoltage, Under voltage, Overheat, Excessive speed deviation, Excessive position deviation, Encoder error, Emergency stop, Communication error, Short-circuit protection of terminal U, V, W and CN1, CN2, CN3							
Communication Interface		RS-232 / RS-485							
Environment	Installation Site	Indoor location (avoid direct sunlight), no corrosive liquid and gas (avoid oil mist, flammable gas, dust)							
	Altitude	Altitude 1000 m or lower above sea level							
	Atmospheric Pressure	86 kPa ~ 106 kPa							
	Operating Temperature	0 °C ~ 55 °C (If operating temperature is above 45 °C, forced cooling will be required)							
	Storage Temperature	-20 °C ~ 65 °C (-4 °F to 149 °F)							
	Humidity	0 to 90% (non-condensing)							
	Vibration	Under 20 Hz, 9.80665 m/s ² (1G), 20 ~ 50 Hz 5.88 m/s ² (0.6 G)							
	IP Rating	IP20							
	Power System	TN System ³							
	Approvals	IEC/EN 61800-5-1    							

Footnote:

*1. When it is in rated load, the speed ratio is: the minimum speed (smooth operation) / rated speed.

*2. When the command is the rated speed, the velocity correction ratio is: (rotational speed with no load - rotational speed with full load) / rated speed.

*3. TN system: The neutral point of the power system connects to the ground directly. The exposed metal components connect to the ground via the protective earth conductor.

