



AF Series AC Power Input, Output Power 200 ~ 750W

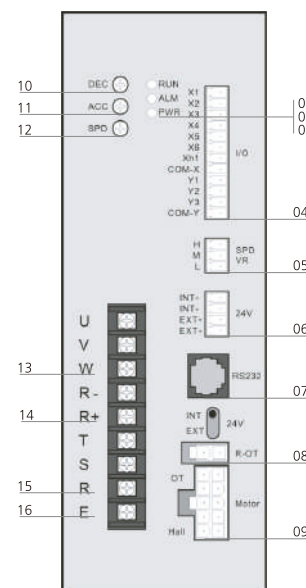


Motor Output Power	Motor Model	Driver Model	Rated Input Current (A)	Maximum Input Current (A)	Rated Torque (Nm)	Peak Torque (Nm)	Permissible Load Inertia ($J \times 10^{-4} kg \cdot m^2$)
AC110V±15% , 50Hz / 60Hz							
200W	BL90-A200-□□	AF-A200	5.47	9.3	0.63	1.07	4.01
350W	BL90-A350-□□	AF-A350	9.57	16.27	1.1	1.87	7.52
400W	BLA4-A400-□□	AF-A400	10.94	18.6	1.25	2.13	8.02
500W	BL90-A500-□□	AF-A500	13.68	18.83	1.57	2.16	8.02
AC220V±15% , Single-Phase (1P)/Three-Phase(2P), 50Hz / 60Hz							
200W	BL90-C200-□□	AF-C200	2.74 (1P) 1.83 (3P)	4.66 (1P) 3.12 (3P)	0.63	1.07	4.01
350W	BL90-C350-□□	AF-C350	4.79 (1P) 3.19 (3P)	8.15 (1P) 5.43 (3P)	1.1	1.87	7.52
400W	BLA4-C400-□□	AF-C400	5.47 (1P) 3.65 (3P)	9.3 (1P) 6.21 (3P)	1.25	2.13	8.15
500W	BL90-C500-□□	AF-C500	6.84 (1P) 4.56 (3P)	11.63(1P) 7.76 (3P)	1.57	2.67	10.62
750W	BLA4-C750-□□	AF-C750	10.26(1P) 6.84 (3P)	17.45(1P) 11.63(3P)	2.33	3.96	15.02

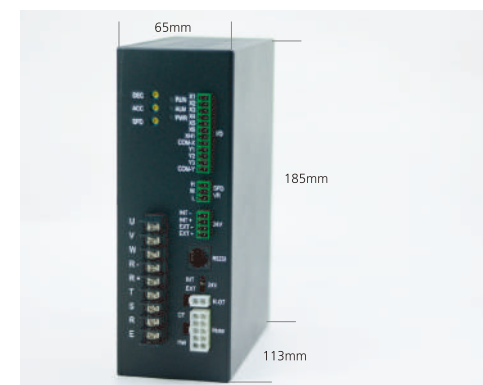
*1P: Single-Phase

*3P: Three-Phase

Names and Functions of Driver Parts



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|--|---|
| 09. Motor Signal Connector [Hall] | 01. RUN LED |
| 10. Deceleration Time Potentiometer [DEC VR] | 02. ALARM LED |
| 11. Acceleration Time Potentiometer [ACC VR] | 03. PWR LED |
| 12. Internal Potentiometer [SPD VR] | 04. Input/Output Signal Connector |
| 13. Motor Output Terminals | 05. External Analog Input Connector |
| 14. Regeneration Unit Terminals | 06. Control Power Connector |
| 15. AC Main Power Input Terminals | 07. Communication Connector (RS232) |
| 16. Protective Earth Terminal | 08. Regeneration Unit Over Temperature Signal Connector |



Variable Speed Range ^{*1}	250 ~ 3000 (4000) r/min	
Speed Regulation	Load	±1% max (0 ~rated torque, rated speed, rated voltage, 25℃)
	Voltage	±1%max (voltage variaion±15%, no load, rated speed, 25℃)
	Temperature	±1%max (0 ~ 50℃, no load, rated speed, rated voltage)
Speed Control Method	2 Analog Setting ^{*2} ■ External Analog Input: • Potentiometer(5kΩ or 20kΩ) • External DC Voltage(0~5VDC or 0~10VDC) ■ Internal Potentiometer (SPD VR)	
	8-step Digital Setting ■ Digital Input Indexing 3 bits (M0, M1, M2).	
	Pulse Input ^{*3} ■ Pulse Input Frequency(100 ~ 1000Hz) ■ Pulse Input Duty Cycle(20 ~ 80%)	
	Acceleration Time 0.2 ~ 10 sec (from 0~3000 r/min, no load) (Acceleration Potentiometer(ACC VR) Setting / 1 Digital Setting)	
Deceleration Time	0.2 ~ 10 sec (from 3000~0 r/min, no load) (Deceleration Potentiometer(DEC VR) Setting / 1 Digital Setting)	
Input Signal ^{*4}	■ 6 points, Input function can be setup by parameters. Activated by the photocoupler, input resistance 4.55kΩ. ■ Internal Power: 24VDC ■ External Power: 24VDC, 50mA ■ SINK or SOURCE connection 1. [START/STOP] 2. [CW/CCW] 3. CW/STOP 4. CCW/STOP 5. FREE 6. [STOP MODE] 7. EBA RESET	
	■ 1 point (XH1), pulse input. Activated by the photocoupler, input resistance 4.55kΩ. ■ Internal Power: 24VDC ■ External Power: 24VDC, 10mA ■ SINK or SOURCE connection	
	■ 3 points. Open Collector Output. ■ External Power: 12 ~ 24VDC, 40mA max. ■ SINK or SOURCE connection	
	1. Y1 : BUSY OUT 2. Y2 : PULSE OUT 3. Y3 : ALARM OUT	
Brake	Dynamic Brake (Regeneration unit required).	
Protect Function	■ Driver Over Voltage ■ Driver Over Temperature ■ Feedback Signal Fault (Hall Signal Fault)	
	■ Under Voltage ■ Motor Over Temperature ■ Excessive Speed	
	■ Over Current ■ Regeneration Unit Over Temperature ■ EEP Data Error	
	■ Over Load	
Operating Environment Conditions	Ambient Temperature	-20℃~+50℃ (External cooling is required when the environment temperature is higher than 40℃)
	Humidity	< 85 % RH (non-condensing)
Dimension	185mm * 113mm * 65mm (without the mounting flanges)	
Other Functions	-	

*1. The maximum speed is limit by the selected motor. It can be set to 3000 or 4000 r/min.

*2. The default setting of External analog input voltage is 0 ~ 5 VDC. It can be set to 0 ~ 10 VDC through parameter setting.
The speed control method can be selected between internal analog input and external analog input by the INT/EXT VR SEL input function during motor operation.

*3. Customized only. XH1 input hardware setting is required to use the Pulse Input Speed Control Method.

*4. The function in brackets [] are default settings, more functions can be set through parameter setting.