

### ESS28 series

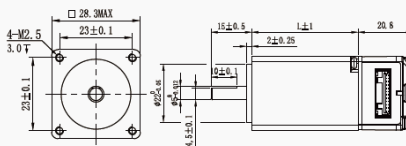
- Drive and motor integrated design, simplify system structure and improve system integration
- Support multiple control modes including pulse/direction and bus control
- Smooth and high-speed operation, precise positioning, no step lost and fast response
- Low noise, adjust current in real time and reduce heat

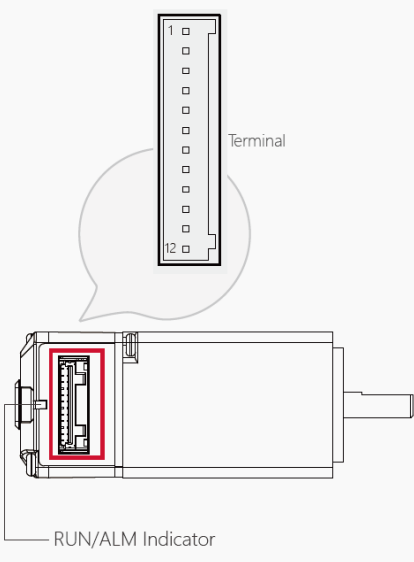
#### Typical Application:

Printing, AOI, panel bonding, transfer equipment, etc. in PCB related equipment; camera related equipment such as camera and fingerprint; solid crystal machine, wire bonding machine, dispensing machine, beam splitter, and package tape machine in packaging

### ESS28-P

## ESS28-P Series Integrated Motor

Technical Data					Installation Dimension Drawing
Name	Unit	ESS28-P1x	ESS28-P2x	ESS28-P3x	
Rated Voltage	V(DC)	24	24	24	
Output Current	A	0.6~1.2	0.6~1.2	0.6~1.2	
Holding Torque	N.m	0.059	0.074	0.098	
Motor Length	mm	32	38.9	50	
Weight	kg	0.25	0.3	0.4	
Insulation Grade	-	B	B	B	
Operating Temperature	°C	0~55	0~55	0~55	

Terminal Description				Interface Schematic
Pin	Symbol	Name	Function	
	RUN /ALM	Indicator light	Power on and alarm indication	
1	DC+	Power supply	DC: 24V	
2	GND	Power ground		
3	PU+	Pulse input positive terminal	Signal power supply 5V; Need to connect current limiting resistor for voltage that is higher than 5V.	
4	PU-	Pulse input negative terminal		
5	DR+	Direction input positive terminal		
6	DR-	Direction input negative terminal		
7	MF+	Motor Free positive terminal		
8	MF-	Motor Free negative terminal		
9	-	Reserved	Reserved	
10	-			
11	-			
12	-			

## ESS28-R Series Integrated Motor

Technical Data					Installation Dimension Drawing
Name	Unit	ESS28-R1x	ESS28-R2x	ESS28-R3x	
Rated Voltage	V(DC)	24	24	24	
Output Current	A	0.6~1.2	0.6~1.2	0.6~1.2	
Holding Torque	N.m	0.059	0.074	0.098	
Motor Length	mm	32	38.9	50	
Weight	kg	0.25	0.3	0.4	
Insulation Grade	-	B	B	B	
Operating Temperature	°C	0~55	0~55	0~55	

Terminal Description				Interface Schematic
Pin	Symbol	Name	Function	
	RUN /ALM	Indicator light	Power on and alarm indication	
1	DC+	Power supply	DC: 24V	
2	GND	Power ground		
3	A+	RS485 communication interface 1	2 sets of RS485 communication interface, used for in and out connection, default baud rate is 115200, data format is: 8-bit data, no check digit, 1 stop bit.	
4	B-			
5	A+	RS485 communication interface 2		
6	B-			
7	X0	Input terminal	Input/Output terminal, signal power supply 5V, a current limiting resistor is required when it's over 5V.	
8	X1			
9	X2			
10	X3			
11	Y0	Output terminal	Non-isolated interface, Controller need to share ground with DC power supply.	
12	Y1			