



### ESS42 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 as camera and fingerprint; solid crystal machine, wire bonding machine, dispensing machine, package tape machine in packaging

#### Product Details

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## ESS42-P Series Integrated Motor

Technical Data				Installation Dimension Drawing
Name	Unit	ESS42-P1x	ESS42-P2x	
Rated Voltage	V(DC)	24~36	24~36	
Output Current	A	0.8~2.0	0.8~2.0	
Holding Torque	N.m	0.48	0.72	
Motor Length	mm	47	60	
Weight	kg	0.5	0.65	
Insulation Grade	-	B	B	
Operating Temperature	°C	0~55	0~55	

Terminal Description			Interface Schematic
Pin	Function	Note	
PWR	Power indicator	Power on indicator	
ALM	Alarm indicator	Alarm flashing indicator	
PU+	Pulse input positive terminal	Signal power supply 5V; Need to connect current limiting resistor for voltage that is higher than 5V.	
PU-	Pulse input negative terminal		
DR+	Direction input positive terminal		
DR-	Direction input negative terminal		
MF+	Enable input positive terminal	Enable input positive terminal	
MF-	Enable input negative terminal		
ALM+	Alarm output positive terminal	Overcurrent, overvoltage and position deviation out of tolerance alarm output; maximum drive current is 50mA	
ALM-	Alarm output negative terminal		
+DC	Power input positive terminal	DC24~36V	
GND	Power input negative terminal		

ESS42-R

## ESS42-R Series Integrated Motor

Technical Data				Installation Dimension Drawing
Name	Unit	ESS42-R1x	ESS42-R2x	
Rated Voltage	V(DC)	24~36	24~36	
Output Current	A	0.8~2.0	0.8~2.0	
Holding Torque	N.m	0.48	0.72	
Motor Length	mm	47	60	
Weight	kg	0.5	0.65	
Insulation Grade	-	B	B	
Operating Temperature	°C	0~55	0~55	

Terminal Description			Interface Schematic
Pin	Function	Note	
PWR	Power indicator	Power on indicator	
ALM	Alarm indicator	Alarm flashing indicator	
X0-X3	4 input terminal	Input/Output terminal, signal power supply 24V, support NPN and PNP two wiring modes, support terminal function software modification	
XCOM	Input common		
Y0-Y1	2 output terminal	Output common	
YCOM	Output common		
B-	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.	
A+			
B-	RS485 communication interface 2	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.	
A+			
+DC	Power input positive terminal	DC24~36V	
GND	Power input negative terminal		

ESS42-C

## ESS42-C Series Integrated Motor

Technical Data				Installation Dimension Drawing
Name	Unit	ESS42-C1x	ESS42-C2x	
Rated Voltage	V(DC)	24~36	24~36	
Output Current	A	0.8~2.0	0.8~2.0	
Holding Torque	N.m	0.48	0.72	
Motor Length	mm	47	60	
Weight	kg	0.5	0.65	
Insulation Grade	-	B	B	
Operating Temperature	°C	0~55	0~55	

Terminal Description			Interface Schematic
Pin	Function	Note	
PWR	Power indicator	Power on indicator	
ALM	Alarm indicator	Alarm flashing indicator	
X0-X3	4 input terminal	Input/Output terminal, signal power supply 24V, support NPN and PNP two wiring modes, support terminal function software modification	
XCOM	Input common		
Y0-Y1	2 output terminal		
YCOM	Output common		
CANH	Communication terminal	CANH communication cable	
CANL	Communication terminal	CANL communication cable	
+DC	Power input positive terminal	DC24~36V	
GND	Power input negative terminal		

Package Product

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