

Technical Features

Item	Description
Input Voltage	24 to 75VDC
Output Current	1.0 to 4.5A (Peak)
Control Mode	Pulse and Direction, CW and CCW
Control Signal	5VDC and 24VDC Compatible
Micro Step Range	16 Types, 1-128 Micro Step Settings, From 200 to 25600 Pules/Round
Special Functions	Auto Tuning, Alarm Output, Load Inertia Optimization, Load Current Automatic Adjustment
Input signal Filtering	Available , not Open
Protection	Metal, High EMC Performance, Multi-Level Electrical Protection

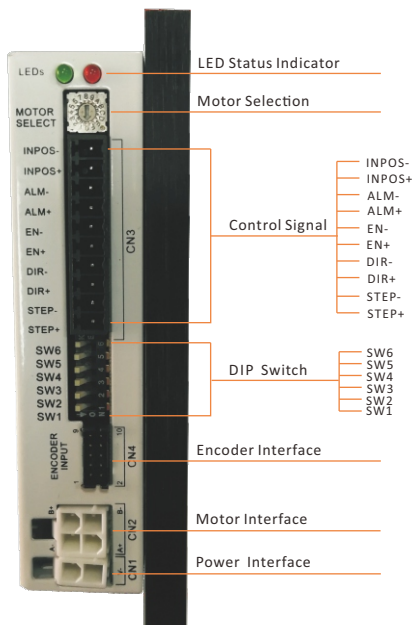


Advantages

High Smoothness, High Reliability

Low Noise, Low Vibration, Low Heating for Motor

Driver Interfaces Description



Motor Selection

Knob Position	Motor Rotate Inertia
0/8	EM28-3
3/B	42K48-E1000
7/F	57K56-E1000
8/0	57K80-E1000
B/3	EM60-5
C/4	86K74-E1000
E/6	86K112-E1000
Others	Reserved

DIP Switch Settings

Micro Step Settings

Switch Settings				Y2SS3	
SW1	SW2	SW3	SW4	Micro Step	Pulse/Round
Off	Off	Off	Off	125	25000
On	Off	Off	Off	100	20000
Off	On	Off	Off	50	10000
On	On	Off	Off	40	8000
Off	Off	On	Off	25	5000
On	Off	On	Off	20	4000
Off	On	On	Off	10	2000
On	On	On	Off	5	1000
Off	Off	Off	On	128	25600
On	Off	Off	On	64	12800
Off	On	Off	On	32	6400
On	On	Off	On	16	3200
Off	Off	On	On	8	1600
On	Off	On	On	4	800
Off	On	On	On	2	400
On	On	On	On	1	200

Motor Rotate Direction

DIP	Function	Description
SW5	Motor Forward Direction Selection	On: Clockwise Off: Anti-Clockwise

Motor Rotate Direction

DIP	Function	Description
SW6	Control Signal Mode Selection	On: CW and CCW Off: Pulse and Direction

LED Status Indicator

Display	Color	Description
Power	Green	Flashing indicates drive working normally
Error	Red	Green and red LEDs flashing alternatively indicates drive working abnormally

Status	Failure	Reason
green flicker	Drive normal	--
green always on	Drive not enabled	EN port has high level input
3 red and 1 green	Drive temperature is too high	Need to strengthen the heat
4 red and 1 green	Drive power input over voltage	Power supply voltage is greater than 75VDC
5 red and 1 green	Drive over current	Motor wiring fault or poor contact
6 red and 1 green	Motor winding open circuit	The motor is not connected well
3 red and 2 green	Drive internal voltage error	Power is too low
4 red and 2 green	Drive power input under voltage	Power supply voltage is less than 24VDC
5 red and 2 green	Over load	Exceeded load

Power Interface

PIN	Description
V+	Power+
V-	Power-

Motor Interface

The motor connection terminals and extension cords are designed for direct docking and do not require self-wiring.

Encoder Interface

The encoder connection terminals and extension cords are designed for direct docking and do not require self-wiring.

Control Interface

Input Signals

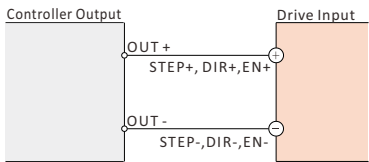
PIN	Name	Description
STEP	Pulse Signal	Pulse signal from controllers, 5 to 24V, Differential, PNP, NPN supported.
DIR	Direction Signal	Direction signal from controllers, 5 to 24V, Differential, PNP, NPN supported.
EN	Enable Signal	Enable disconnected, motor enabled, 5 to 24V, Differential, PNP, NPN supported.

Output Signals

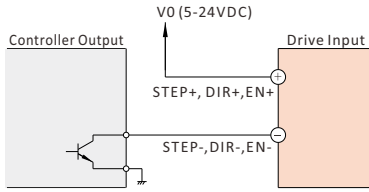
PIN	Name	Description
ALM	Alarm Output	OUT+ and OUT- connected when drive working abnormally. Max. bear 30VDC and 100mA.
INPOS	Output to Position	OUT+ and OUT- connected when drive working abnormally. Max. bear 30VDC and 100mA.

Input Connect

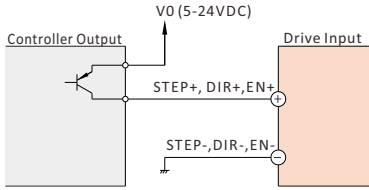
Differential Type



NPN Type

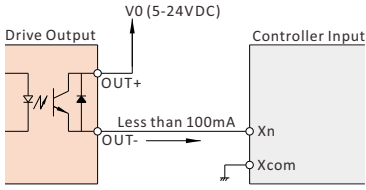


PNP Type

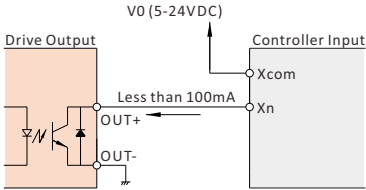


Output Connect

Common Cathode Type



Common Anode Type



Mechanical Dimensions (in mm)

