

32383-MS

2 PHASE STEPMOTOR DRIVER

TB67S109AFTG Based Full Bridge Driver (H) for 4 or 6 wire Hybrid Stepmotors

SPECIFICATIONS:

Power Input: 9-40VDC (24V Nominal)
 Control Inputs: +5V<20mA Optically Isolated
 Output Drive Current: 0.5-3.5A Switch Selctable
 Auto drop to 1/2 current with no step Input.
 Step: Full, 1/2, 1/4, 1/8, 1/16, 1/32
 Protection: Over Temperature & Current
 Under Voltage Lockout
 LED: Power on & Alarm
 Connections: PlugTerminal Strips
L: 3-3/4" W: 1-7/16" H: 2-13/16" O/A WT: .5lb



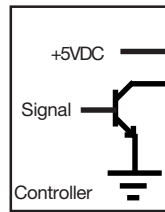
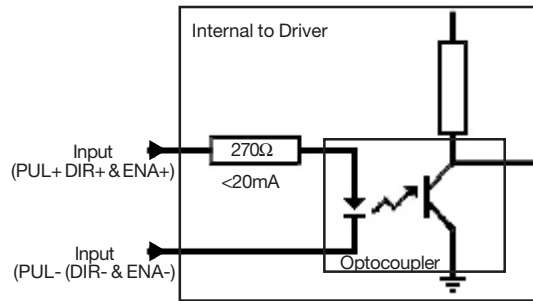
INPUT/OUTPUT CONNECTIONS:

OUTPUT:

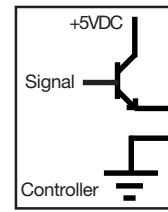
A+ Motor Winding Phase A+
 A- Motor Winding Phase A-
 B+ Motor Winding Phase B+
 B- Motor Winding Phase B-

INPUT:

VCC+: Input power Positive
 GND-: Input Power Negative
 ENA+ Enable Turns Ouputts OFF/ON
 ENA- Enable Return
 DIR+ Direction CW/CCW
 DIR - Direction Return
 PUL+ Clock Pulse Input/Leading edge



COMMON ANODE



COMMON CATHODE

OPTO-ISOLATED INPUTS from Controller: (See above Drawings)

Input signals must have the ability to provide 8-16mA of drive current. (WARNING TTL/CMOS may not supply enough current directly)
 COMMON ANODE: (Internal optocoupler) Connect PUL+, DIR+ & ENA+ To a Common Voltage Source. Inputs supplied to PUL-, DIR-, ENA-
 COMMON CATHODE: Connect PUL-, DIR- & ENA- To a common Return (-). Inputs supplied to PUL+, DIR+ & ENA+

MICRO STEP SELECTION

Switch: "ON" lever Down
 "OFF" Lever Up

STEP	S1	S2	S3
----	on	on	on
1	on	on	off
1/2A	on	off	on
1/2B	off	on	on
1/4	on	off	off
1/8	off	on	off
1/16	off	off	on
1/32	off	off	off



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OUTPUT CURRENT LIMIT SELECTION

Switch: 0="ON" lever Down
 1="OFF" Lever Up

I _{OUT}	S4	S5	S6
0.5A	on	on	on
1.0A	on	off	on
1.5A	on	on	off
2.0A	on	off	off
2.5A	off	on	on
2.8A	off	off	on
3.0A	off	on	off
3.5A	off	off	off

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