

# MBC05641 - Microstep Driver



## FEATURES

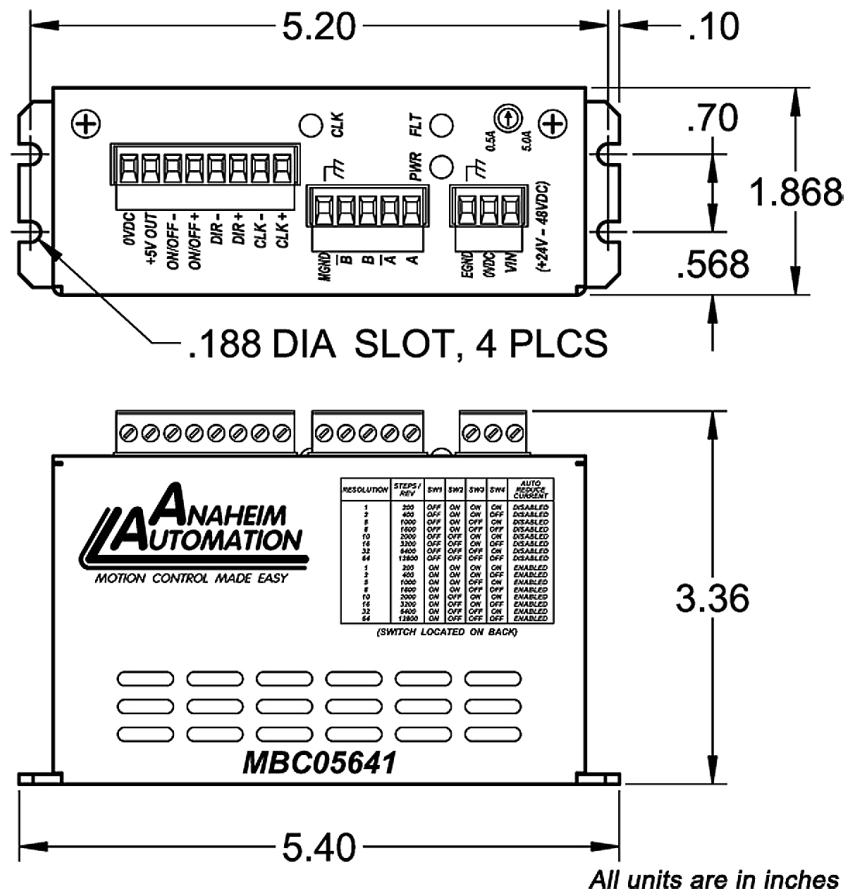
- Output Current 5.0 Amps Peak
- 200 to 12,800 steps/rev (1, 2, 5, 10, 16, 32 and 64 selectable step operations)
- Short Circuit Protection
- Size: 5.4”L x 1.868”W x 3.36”H
- No Minimum Inductance
- Optical Isolation
- Motor On/Off Input
- RoHS Compliant



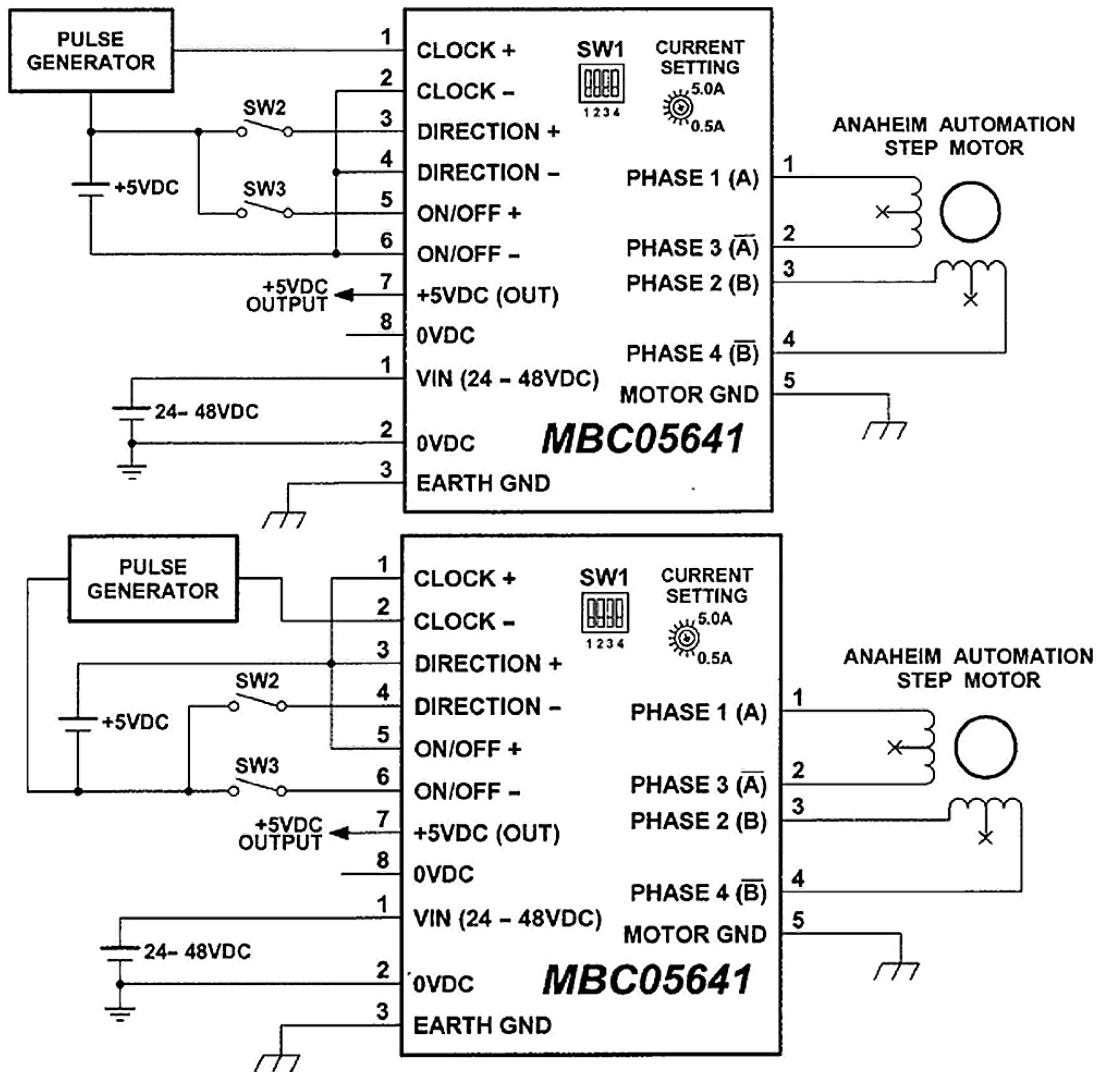
## DESCRIPTION

The MBC05641 Microstep Motor Driver has an output current capability of 0.5 Amps minimum to 5.0 Amps maximum (Peak Rating). The MBC05641 driver operates from a DC voltage of 24-48 Volts. The inputs are optically isolated with a minimum sourcing of 7.0mA per input (+3.5VDC minimum to +24VDC maximum). The clock input is set to receive either positive or negative edge clocks with a maximum frequency of 400kHz. The MBC05641 driver offers direction control and motor current ON/OFF capabilities. The Reduce Current Enabled automatically reduces motor current to 50% of set value after the last step is made (1sec delay). The driver has built-in features to indicate power on (Green LED), clocks being received (Yellow LED), and fault conditions (Red LED). A power supply is required and must be purchased separately.

## DIMENSIONS



L011989



ADDITIONAL INFORMATION

## Specifications

Power Requirements:	24 - 48VDC
Output Current Range:	0.5 - 5.0 Amps (Peak)
Microstepping Resolution:	200 - 12,800 Steps/Revolution (1, 2, 5, 10, 16, 32 and 64 selectable step operations)
Input Signal Voltage:	3.5 - 24VDC
Input Clock Frequency:	0 - 400 KHz
Minimum Input Current: (Isolated Inputs)	7.0mA
Storage Temperature:	0° to + 50° C
Absolute Maximum Driver Temperature:	70° C
Driver Type:	Bipolar, Compatible with 4, 6, and 8 Lead Motors. Series or Parallel connection.
5VDC Output Current	50mA (Max)