

36389-MD

500W PWM Speed Control DC Speed Control

Snap-in, High-power PWM DC motor speed control with front panel output ON/OFF control
Soft Start, Adjustable Duty Cycle & Frequency.
Retains all function settings with power off.

Input: 9V-60VDC

Rated Current: 12A (20A Peak)

Power: 1500W(Max)

Duty Cycle: 0%-100%

Duty Cycle Resolution: 1%

Frequency: 1KHz-99KHz

Frequency Accuracy: 1%

Frequency Resolution: 1KHz

Cutout: 77mm x 40mm

W: 79mm **H:** 43mm **D:** 40mm **WT:** .14

OUTPUT
Lit: ON
Dark: OFF

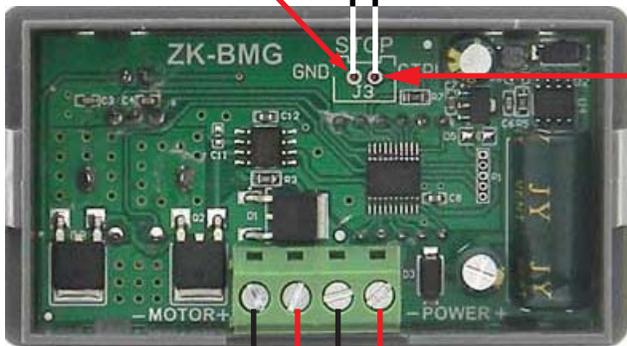


DIGITAL POT

CONNECTION DIAGRAM

NOTE This Pad is Internally Connected to Power -

EXTERNAL OUTPUT "ON/OFF" SWITCH (SPST-NO)



"STOP" Pads:

Used to connect a remote SPST-NO Momentary Pushbutton Switch to turn Output ON/OFF(Alternates each press).

MOTOR - + - + POWER

NOTE Motor + and Power + Connected Internally

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SETUP

GENERAL

- 1: Short Press: Momentary (Press & Release)
- 2: Long Press: Press & Hold until Display Changes (~10sec. Release after)

NOTE: Normal Display default is **Duty Cycle**

- 3: Connect Power (BE SURE OF CORRECT POLARITY)

NOTE: DO NOT CONNECT LOAD UNTIL SETUP IS FINISHED

- 4: Normal Mode: (Duty Cycle "Speed" Adjust)
 - 4.1: Short press Digital Pot: Turn Output ON/OFF (Alternate Action)
 - 4.2: Increase Duty Cycle: Rotate Digital Pot clockwise:
 - 4.3: Decrease Duty Cycle: Rotate Digital Pot counterclockwise



Output "OFF"
at Power On

EXAMPLE 1



Low Limit ~75%
of Motor RPM

EXAMPLE 2



Frequency
1KHz~50KHz

EXAMPLE 3

- 5: Limit (Parameter) Set Mode: Long press Digital Pot to select the Parameter Set Mode.
 - 5.1: Short press Digital Pot to scroll through parameters:
 - Default Output (ON/OFF)@ Power Up, Duty Cycle Lower Limit, Upper Limit and Output Frequency
 - 5.1.1 Default Output State: Display shows "ON" or "OFF" (SEE EXAMPLE 1)
 - 5.1.2 Lower Limit Value: Display shows "L" and a 2 digit number. (SEE EXAMPLE 2)
 - Upper Limit Value: Display Shows "H" and a 2 digit number OR "100" (100%)
 - 5.1.3 Output Frequency display in "F" and 2 digit number 00-99 (SEE EXAMPLE 3)
 - 5.2: Set Default Output State @ Power Up: Rotate Digital Pot clockwise or Counter Clockwise (ON/OFF will Alternate)
 - 5.3: Increase Upper Duty Cycle Limit: Rotate Digital Pot clockwise
Decrease Upper Duty Cycle Limit: Rotate Digital Pot counterclockwise
 - 5.4: Increase Lower Duty Cycle Limit: Rotate Digital Pot clockwise
Decrease Lower Duty Cycle Limit: Rotate Digital Pot counterclockwise
 - 5.5: Set Frequency:
 - Increase Frequency: Rotate Digital Pot clockwise
 - Decrease Frequency: Rotate Digital Pot counterclockwise
 - 5.6 : Exit & Save/Return to Normal Mode: Long press Digital Pot until Display Changes (~5sec)
- 6: Connect load (SEE CONNECTION DIAGRAM)

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