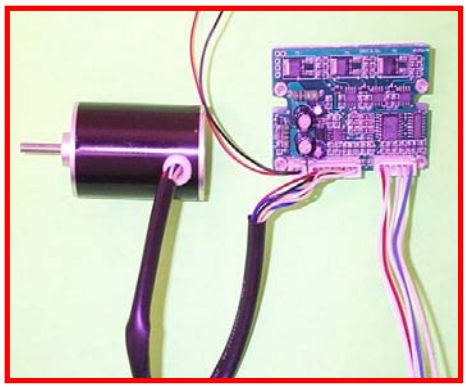
REX ENGINEERING CORPORATION

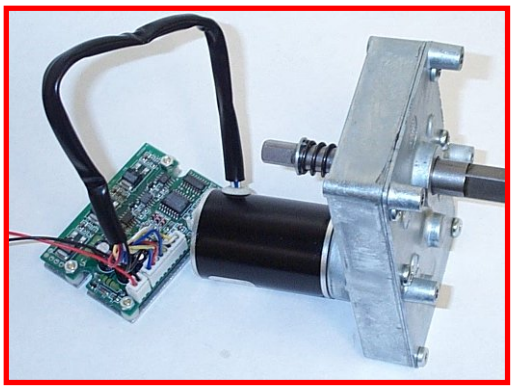
(321) 268-5500 Titusville, FL USA
www.rex-engineering.com

BRUSHLESS DC GEARMOTORS

Customized to your specifications

Rex Engineering now offers brushless DC (BLDC) power for most of our gearboxes. BLDC motors respond very well to speed control, and are bi-directional. Their ball-bearing construction and durable winding design will keep them in operation long after a brushed motors would wear out.



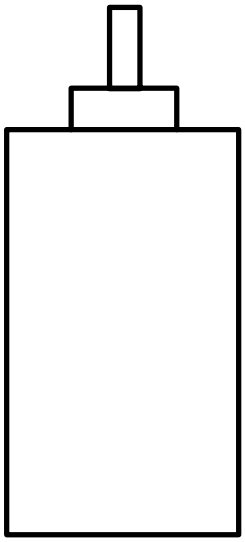


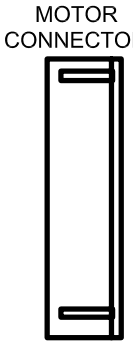
They are available with or with out a driver board. All of our motors and driver boards are pre-wired with easy to assemble connectors, and friendly factory support is always just a phone call away.

Our standard driver board includes a 750 mS acceleration ramp-up, braking in 250 mS and a TTL logic signal from the Hall effect sensors that can be used for speed control feedback.

REX ENGINEERING BRUSHLESS DC (BLDC) MOTOR, 136-13507

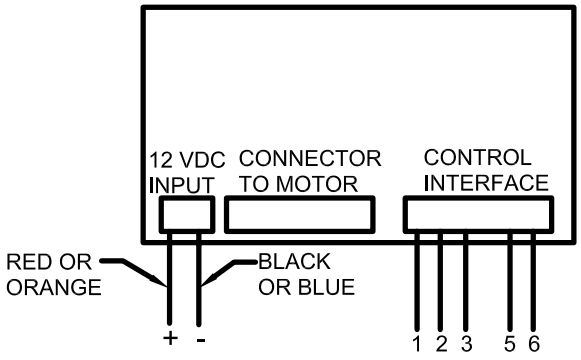
12 VDC
MAX. CURRENT = 2 AMPS
0 TO FULL SPEED IN 750 mS
FULL SPEED TO 0 IN 250 mS
NO LOAD SPEED = 4200 RPM
MAX. POWER OUTPUT = 16 WATTS
THIS MOTOR CAN BE MOUNTED TO ANY OF THE REX ENGINEERING GEARBOXES





POSITION 8, A PHASE WINDING, WHITE
POSITION 7, B PHASE WINDING, TAN
POSITION 6, C PHASE WINDING, BLACK
POSITION 5, C PHASE HALL SIGNAL, YELLOW
POSITION 4, B PHASE HALL SIGNAL, BLUE
POSITION 3, A PHASE HALL SIGNAL, WHITE
POSITION 2, VDC NEGATIVE, RED
POSITION 1, VDC POSITIVE, BLUE

REX ENGINEERING BLDC DRIVER, 137-13508



1 RED, A 5 VDC SIGNAL PROVIDED BY THE CONTROL
2 WHITE, MOTOR SPEED. 5 VDC IN = FULL SPEED, 0 VDC = STOPPED
USE A 5K POTENTIOMETER TO VARY THE SPEED.
3 WHITE, BRAKING. 5 VDC IN = BRAKING IN 250 mS. 0 VDC = NO BRAKING
4 NOT USED. 6 PULSES/REV. FROM THE HALL EFFECT SENSORS. 5 VDC TTL
5 WHITE, DIRECTION. 5 VDC RUNS ONE WAY, 0 VDC RUNS THE OTHER WAY
6 BLUE, GROUND. THIS IS THE GROUND RELATIVE TO THE 5 VDC ON PIN 1