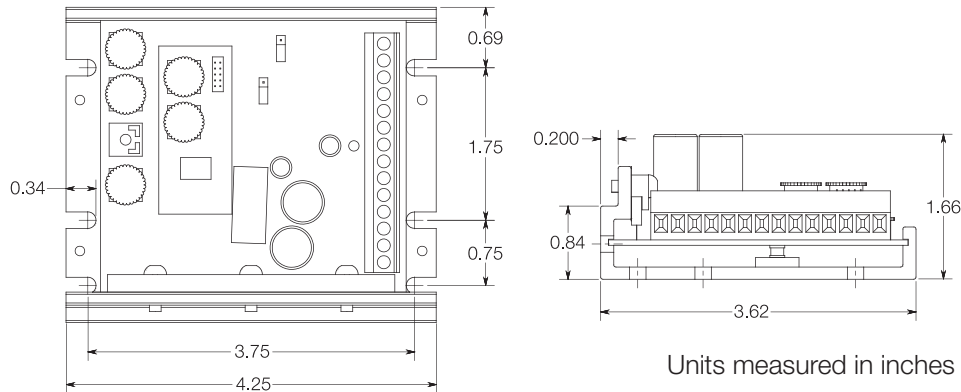


# BRUSHLESS DC MOTOR CONTROL

GROSCHOPP MODEL NUMBER: DB1110D-0

# 750-30-0002

Brushless DC motor control technology is ideal if you're looking for quiet motor operation, long life expectancy for both drive and motor and high efficiency operation with low power loss. This proven design is the first choice for tougher applications. This control is ideal when looking for high speed and quiet operation without the wear of brushes. It provides variable speed operations for larger brushless DC motors and is compact and energy efficient. When used for OEM applications, these controls have a fixed speed setting and may be provided with a pluggable connector.



Closed-loop speed control	5k $\Omega$ speed pot kit
Quiet 15 kHz PWM switching	Simple to operate
MOSFET power devices	Speed regulation: $\pm 0.5\%$ base speed
Forward/reverse control	Speed range: 60:1
Features: acceleration, deceleration, brake, inhibit	Length: 4.25 in.
Anodized chassis mount heatsink	Width: 3.62 in.
Internal supply for motor	Height: 1.30 in.
Hall-effect sensors	Enclosure Type: Chassis



## POWER

**Supply Voltage (V) – 12-48 VDC**

**Motor Voltage (V) – 12-48 VDC**

**Continuous Current (A) – 7.5**

**Peak Current (A) – 11.3**

## SPEED CONTROL

**Closed Loop – Yes**

**Speed Potentiometer – Yes**

**DC Signal – 0-5V**

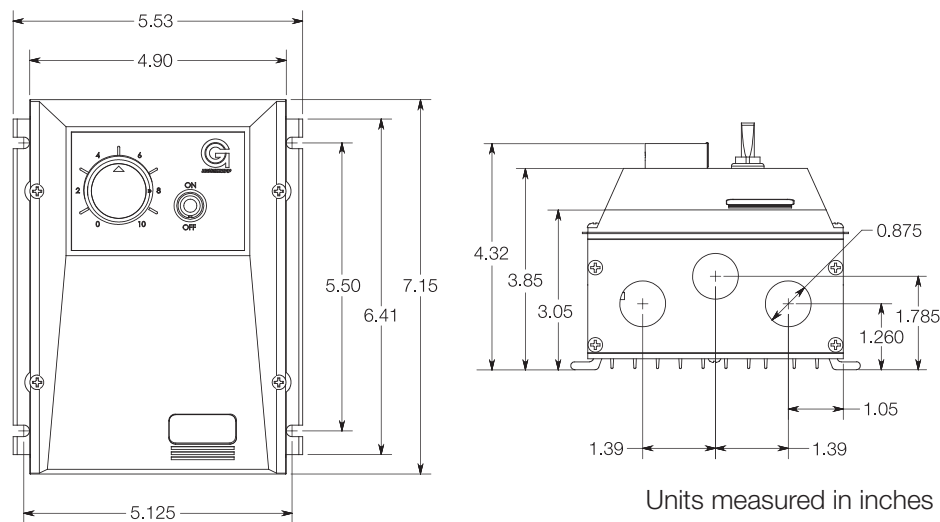
**Digital Control – No**

# BRUSHLESS DC MOTOR CONTROL

GROSCHOPP MODEL NUMBER: DB1110D-4X

# 750-30-0003

Brushless DC motor control technology is ideal if you're looking for quiet motor operation, long life expectancy for both drive and motor and high efficiency operation with low power loss. This proven design is the first choice for tougher applications. This control is ideal when looking for high speed and quiet operation without the wear of brushes. It provides variable speed operations for larger brushless DC motors and is compact and energy efficient. When used for OEM applications, these controls have a fixed speed setting and may be provided with a pluggable connector.



Closed-loop speed control	5k $\Omega$ speed pot kit
Quiet 15 kHz PWM switching	Simple to operate
MOSFET power devices	Speed regulation: $\pm 0.5\%$ base speed
Forward/reverse control	Speed range: 60:1
Features: acceleration, deceleration, brake, inhibit	Length: 7.15 in.
Anodized chassis mount heatsink	Width: 5.53 in.
Internal supply for motor	Height: 4.32 in.
Hall-effect sensors	Enclosure Type: NEMA 4X



## POWER

**Supply Voltage (V) – 12-48 VDC**

**Motor Voltage (V) – 12-48 VDC**

**Continuous Current (A) – 7.5**

**Peak Current (A) – 11.3**

## SPEED CONTROL

**Closed Loop – Yes**

**Speed Potentiometer – Yes**

**DC Signal – 0-5V**

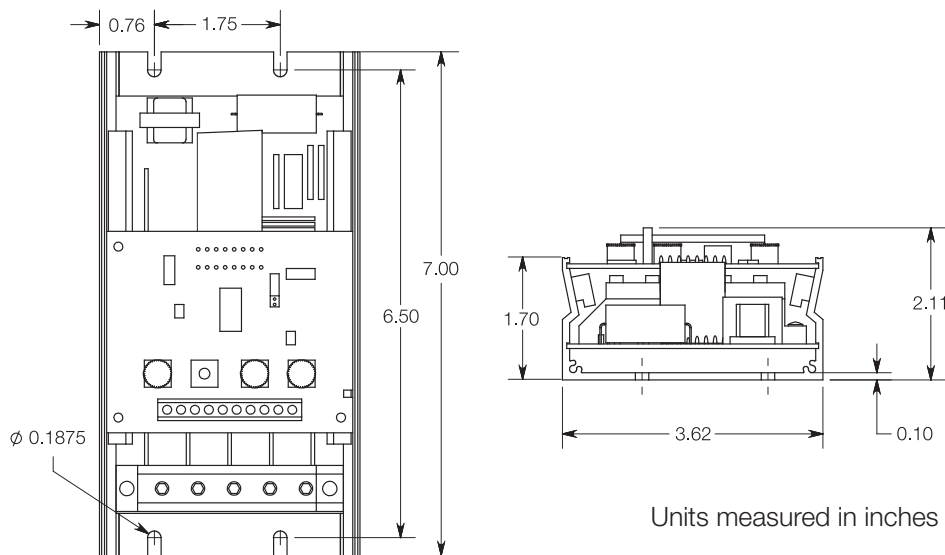
**Digital Control – No**

# BRUSHLESS DC MOTOR CONTROL

GROSCHOPP MODEL NUMBER: DB1120D-0

# 750-30-0004

Brushless DC motor control technology is ideal if you're looking for quiet motor operation, long life expectancy for both drive and motor and high efficiency operation with low power loss. It's proven design is the first choice for tougher applications. This control provides variable speed operations for larger brushless DC motors and is compact and energy efficient. It is also able to produce speed commutation and control for motors with continuous ratings up to 1000 watts. This control is ideal when looking for high speed and quiet operation without the wear of brushes.



Closed-loop speed control  
Quiet 15 kHz PWM switching  
MOSFET power devices  
Forward/reverse control  
Low power inhibit circuit  
Anodized chassis mount heatsink  
Internal supply for motor  
Hall-effect sensors  
5k  $\Omega$  speed pot kit

Simple to operate  
Speed regulation:  $\pm 0.5\%$  base speed  
Speed range: 60:1  
Length: 7.00 in.  
Width: 3.62 in.  
Height: 2.11 in.  
Enclosure Type: Chassis



## POWER

**Supply Voltage (V) – 12-48 VDC**

**Motor Voltage (V) – 12-48 VDC**

**Continuous Current (A) – 20.0**

**Peak Current (A) – 40.0**

## SPEED CONTROL

**Closed Loop – Yes**

**Speed Potentiometer – Yes**

**DC Signal – 0-6.25V**

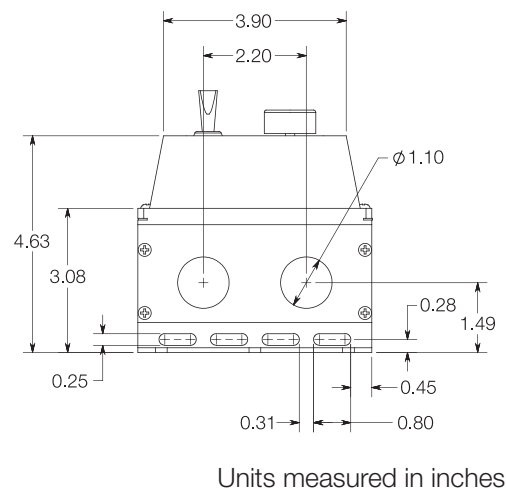
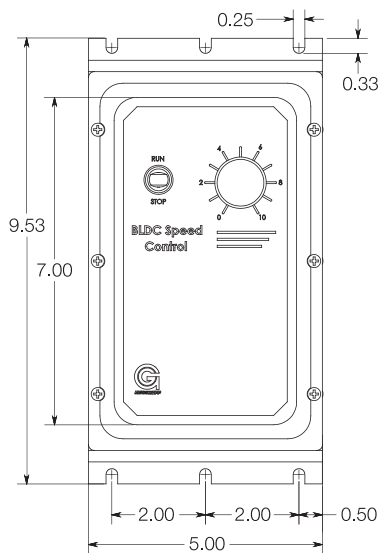
**Digital Control – No**

# BRUSHLESS DC MOTOR CONTROL

GROSCHOPP MODEL NUMBER: DB1120D-4X

# 750-30-0005

Brushless DC motor control technology is ideal if you're looking for quiet motor operation, long life expectancy for both drive and motor and high efficiency operation with low power loss. It's proven design is the first choice for tougher applications. This control provides variable speed operations for larger brushless DC motors and is compact and energy efficient. It is also able to produce speed commutation and control for motors with continuous ratings up to 1000 watts. This control is ideal when looking for high speed and quiet operation without the wear of brushes.



## POWER

**Supply Voltage (V) – 12-48 VDC**

**Motor Voltage (V) – 12-48 VDC**

**Continuous Current (A) – 20.0**

**Peak Current (A) – 40.0**

## SPEED CONTROL

**Closed Loop – Yes**

**Speed Potentiometer – Yes**

**DC Signal – 0-6.25V**

**Digital Control – No**

Closed-loop speed control  
Quiet 15 kHz PWM switching  
MOSFET power devices  
Forward/reverse control  
Low power inhibit circuit  
Anodized chassis mount heatsink  
Internal supply for motor  
Hall-effect sensors  
5k  $\Omega$  speed pot kit

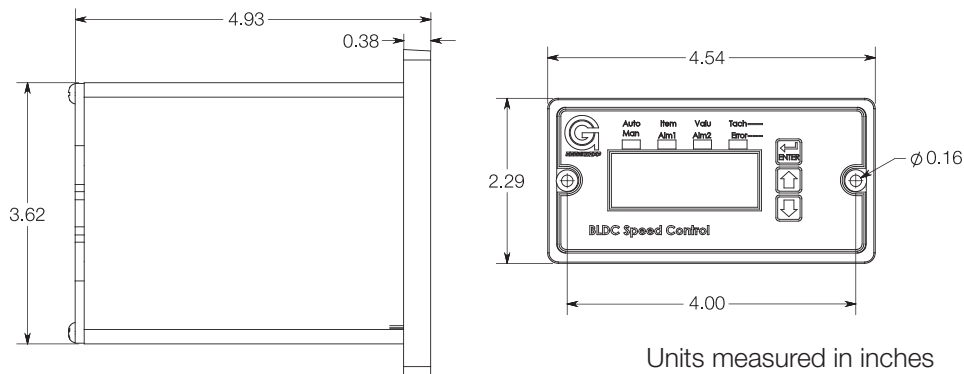
Simple to operate  
Speed regulation:  $\pm 0.5\%$  base speed  
Speed range: 60:1  
Length: 9.53 in.  
Width: 5.00 in.  
Height: 4.63 in.  
Enclosure Type: NEMA 4X

# BRUSHLESS DC MOTOR CONTROL

GROSCHOPP MODEL NUMBER: DB2110D-2

# 750-30-0006

Brushless DC motor control technology is ideal if you're looking for quiet motor operation, long life expectancy for both drive and motor, and high efficiency operation with low power loss. This proven design is the first choice for tougher applications. This control is compact and programmable, making it easy to operate. You can set your desired RPM rate by pressing the "up" and "down" buttons on the front panel. These settings will be exact, you can repeat them, and it will accurately control within 1/2 RPM of the desired speed. All wiring connects directly to a rugged screw type terminal strip through the rear panel. This DC brushless speed control has a digital closed loop and LED display for BLDC motors rated up to 400 watts.



Units measured in inches



## POWER

**Supply Voltage (V) – 12-48 VDC**

**Motor Voltage (V) – 12-48 VDC**

**Continuous Current (A) – 8.0**

**Peak Current (A) – 12.0**

## SPEED CONTROL

**Closed Loop – Yes**

**Speed Potentiometer – No**

**DC Signal – No**

**Digital Control – Yes**

Microprocessor-based design

Digital closed-loop accuracy to  $\pm 0.5$  RPM

Non-volatile memory stores

Factory or field programmable via front panel

Configure min/max speed

Features: acceleration, deceleration, brake, inhibit

Transient voltage protection

Jumper selection of drive output voltage

Forward/reverse control

Self-contained power supply for motor halls

Large 4-digit 0.5 in. LED display

Configurable alarms/status and alarm indicators

Program-enable jumper

Length: 4.63 in.

Width: 3.62 in.

Height: 1.66 in.

Enclosure Type: NEMA 4X