# On-Off Controls CBC-100, CBC-150

# **Integral/Conduit Box Mounted Controls**

The CBC-100 and CBC-150 series are UL listed, conduit box mounted controls for 90 volt clutches and brakes. Models are available for either 120 VAC or 220/240 VAC input.



# CBC-100 series Single unit capacity

The CBC-100 mounts inside a standard Warner Electric conduit box and includes rectification and suppression circuits.

- (I) and (I)
- . (P
- Compact
- Single channel
- Mounts inside conduit box



# CBC-150 series Dual channel capacity

The CBC-150 replaces the cover on the standard module conduit box (part no. 5370-101-042). Provides rectification and suppression for two devices. Green LED indicates power to clutch. Red LED indicates power to brake.

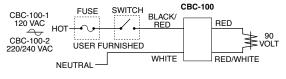
- (VL) and (VL)
- Dual channel
- Replaces the cover on the module conduit box

# **Specifications**

	CBC-100-1	CBC-100-2	CBC-150-1	CBC-150-2
Part No.	6003-448-101	6003-448-103	6004-448-001	6004-448-002
Input	120 VAC 50/60 Hz	220/240 VAC 50/60 Hz	120 VAC 50/60 Hz	220/240 VAC 50/60 Hz
Output	90 VDC full wave rectified .8 Amp max.	90 VDC half wave	90 VDC full wave rectified Dual .8 Amp	90 VDC half wave Dual .8 Amp
Ambient Temperatures	-20° to 113°F (-29° to 45°C)			
Switching	External to control, accomplished on A.C. line using relay or triac.			
	SPST	SPST	SPDT	SPDT
Solid State (maximum leakage current <2 mA)	140 VAC, 1 Amp min.	280 VAC, 1 Amp min.	140 VAC, 2 Amp min.	280 VAC, 2 Amp min.
Electro- mechanical	120 VAC, 1 Amp min.	240 VAC, 1 Amp min.	120 VAC, 1 Amp min.	240 VAC, 1 Amp min.

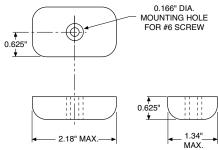
# **Connection diagrams**

#### CBC-100-1, -2

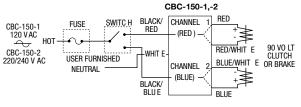


# **Dimensions**

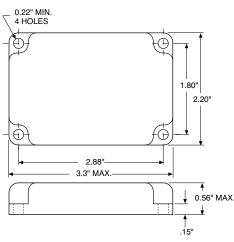
#### CBC-100-1, -2



#### CBC-150-1, -2



#### CBC-150-1, -2



All dimensions nominal unless otherwise specified.

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# **Integral/Electrically Released Motor Brake Controls**

# **CBC-160**

The CBC-160 series clutch/brake controls provide a single 90 VDC adjustable output for use with any clutch/brake

unit. The adjustable output will provide consistent and repeatable release for Warner Electric's 90 VDC permanent magnet electrically released brakes.



The CBC-160 mounts as the cover on the standard module conduit box (part no. 5370-101-042).

The 160-1 accommodates 120 volts A.C. motors.

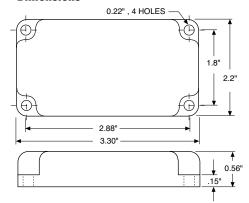
- 🕕
- Adjustable 30-100 VDC
- LED indicator
- 120 volt A.C. input

The power to the 160-2 control can come from either a 230 volt or 460 volt A.C. motor. Customer-provided switching is accomplished through the motor starter on the A.C. input. This allows convenient retrofit of spring-set style motor brakes and inexpensive installation of new applications.



- Adjustable 30-100 VDC
- Power from motor
- Easy retrofit
- 230/460 motors

#### **Dimensions**

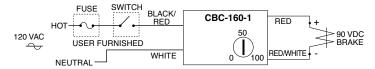


All dimensions nominal unless otherwise specified.

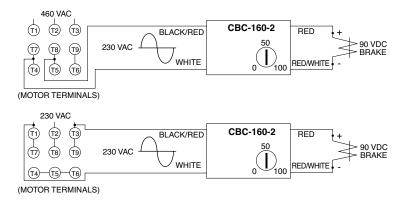
# **Specifications**

	CBC-160-1	CBC-160-2
Part No.	6013-448-001	6013-448-002
Input	120 VAC, 50/60 Hz	220/240 VAC, 60 Hz, 1 Phase, 100 VA max.
Status Indicator	Red LED indicates power to the brake	_
Output	Single Channel, 30-100 VDC half-wave rectified nominal, 0.8 Amps maximum	
Ambient Temperatures	0° to 122°F (-18° to 50°C)	
Switching	Accomplished through motor starter or on A.C. line using relay or triac	

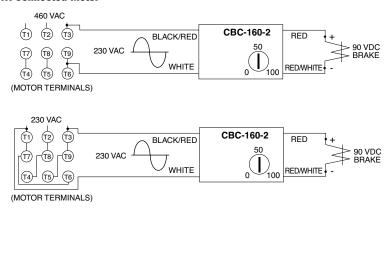
# **Connection Diagram**



# **WYE Connected Motor**



# **DELTA Connected Motor**



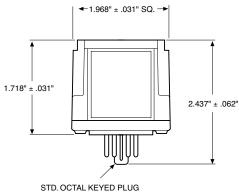
# **Plug-in Octal Socket Power Supplies**

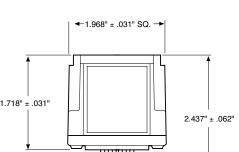
The CBC-801 is a basic on-off power supply that provides full voltage to a 90 volt clutch or brake and is activated by an external switch. This type of power supply is sufficient for many clutch/brake applications.

# **CBC-801** series **Multi-unit capacity**

The CBC-801 is a plug-in power supply which is used with an octal socket. The wiring connections are made at the socket. The CBC-801 will operate two units separately—or simultaneously. Octal socket is purchased separately.

# **Dimensions**





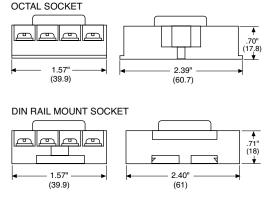


- For basic on-off operation
- Wiring connections made at octal
- Arc suppression circuitry extends switch life
- Fused for overload protection
- LED output indicators
- DIN rail mountable

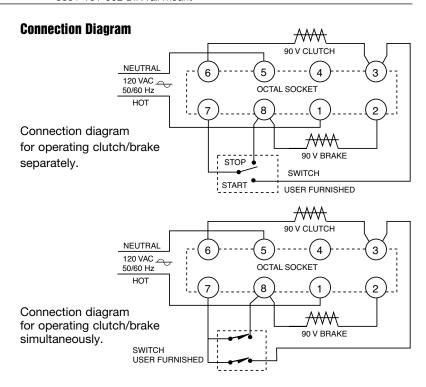


#### **Specifications**

	CBC-801-1	CBC-801-2
Part No.	6001-448-004	6001-448-006
Input Voltage	120 VAC, 50/60 Hz	220/240 VAC, 50/60 Hz
Output	90 VDC, 1.25 A max.	
Circuit Protection	Fused 1.6 Amp, 250 V fast-blo	
Ambient Temperature	-23° to 116°F (-31° to 47°C)	
Max. Cycle Rate	Limited by the clutch or brake, vari	able with application
Switching	Single pole, double throw Minimum contact rating: 10 Amp, 28 VDC resistive or 10 Amp, 120 VAC inductive	
Status Indicator	Red LED indicates brake is energized, Green LED indicates clutch is energized	
Mounting	Two versions of octal socket are available: 6001-101-001 foot mount 6001-101-002 DIN rail mount	



All dimensions nominal unless otherwise specified.



# **Plug-in Octal Socket Power Supplies Specifications** CBC-802 CBC-802

Mounting:

# WARNER ELECTRIC INPUT: 120VAC, 50-60HZ, 50VA OUTPUT: 90VDC, 0.5AMPS

# **CBC-802 PLC** compatible

The CBC-802 is a power supply with solid state circuits for load switching. A brake and clutch may be operated separately—or, two brakes or two clutches, one unit on at a time. The CBC-802 mounts on an octal socket (purchased separately), and the wiring connections are made at the socket terminals. Octal socket sold separately, refer to mounting specifications for part number.



- Plug-in power supply with solid state switching circuits—increases switch service life
- · Adjustable time delay for controlling clutch/brake overlap
- Internally fused for overload protection
- DIN rail mountable
- LED output indicators

#### 6002-448-001 Part No. Input 120 VAC, 50/60 Hz Output 90 VDC, 0.5 A max. Status Indicator Red LED indicates brake energized. Green LED indicates clutch energized. Circuit Protection Fused 0.5 Amps, 250 V Ambient -20° to 113°F (-29° to 45°C) Temperature Leakage Current 500 uA max. for solid state switches Max. Cycle Rate Limited by the clutch or brake, variable with application Momentary contact, maintained contact, or solid state open collector logic Switching Minimum contact rating 20 VDC resistive, 0.01 Amps Minimum input pulse-1 millisecond Externally adjusted potentiometer sets overlap between clutch and brake Adjustments

Two versions of octal socket are available:

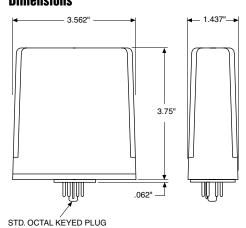
# **Connection Diagram** +90 V BRAKE **NEUTRAL** 90 V BRAKE 5 120 VAC 50/60 Hz OCTAL SOCKET НОТ 8 SWITCH STOP

USER FURNISHED

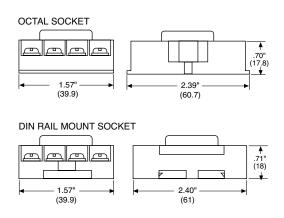
from 0 to 130 MS.

6001-101-001 foot mount 6001-101-002 DIN rail mount

# **Dimensions**

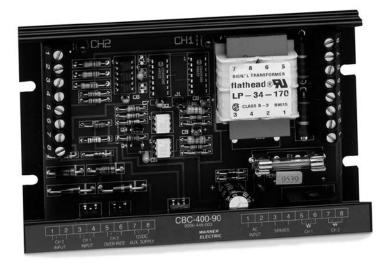


All dimensions nominal unless otherwise specified.



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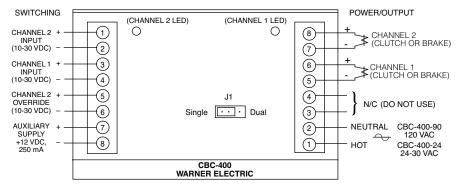
# **Panel Mounted Control**



# **Specifications**

	CBC-400-90	CBC-400-24	
Part No.	6006-448-003	6006-448-002	
Input Voltage	120 VAC	24-30 VAC	
Output Voltage	90 VDC	24 VDC	
Output Current	1 Amp/Channel 2 Amps Total	5 Amps/Channel 5 Amps Total	
Auxiliary Supply	12 VDC 250 mA		
Circuit Protection	Fused 2.5 Amp, 250 V fast-blo	Fused 6.3 Amp, 250 V fast-blo	
Ambient Temperature	+32° to 122°F (0° to 50°C)		
Status Indicators	Red LED indicates channel is energized.		
Adjustments	Jumper for single or dual operation. See appendix on page 282 for explanation.		
Inputs	3 Optically isolated, 10-30 VDC, 3-9 mA for Channel 1, Channel 2 and Channel 2 override (applies full voltage to channel 1 output).		

# **Connection Diagram**



All dimensions nominal unless otherwise specified.

# CBC-400 series Dual channel controls

The CBC-400 series is a basic on-off control which supplies 24 or 90 VDC for electric clutch/brake operation.

They offer optically isolated switching inputs for start, stop, and emergency stop (E-stop). These controls can be set up to operate the two outputs alternately (single) or simultaneously (dual). Refer to the Appendix page 282 for additional setup and switching information.

- 24 or 90 Volt DC output
- Auxiliary 12V supply
- Fast coil suppression
- Single or dual channel operation
- Optically isolated input switching

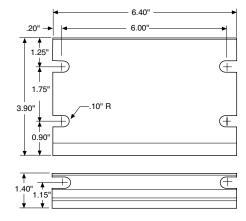
# **Enclosure (Optional)**



- Lift off hinge
- Quick-release latches
- Conforms to NEMA Type 13
- European Standard IEC 529, IP65

Part No.	6042-101-004
Size	8"H x 6"W x 4"D
	(203.2 x 152.4 x 101.6 mm)

# Dimensions



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# CBC-450 series Dual channel control with transformer for variable input voltage

The CBC-450 series is a basic on-off control which supplies 24 or 90 VDC for electric clutch/brake operation. They offer optically isolated switching inputs for start, stop, and emergency stop (E-stop). These controls can be set up to operate the two outputs, alternately (single) or simultaneously (dual). Refer to the Appendix page 282 for additional setup and switching information. The CBC-450 series has a power transformer which will operate with a 120, 220, 240, 380 or 480 VAC input.

- 24 or 90 Volt DC output
- Auxiliary 12V supply
- Fast coil suppression



- Single or dual channel operation
- Optically isolated switching

# **Panel Mounted Control**

# **Enclosure (Optional)**



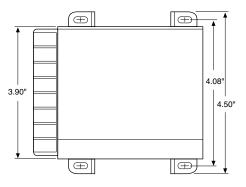
- Lift off hinge
- Quick-release latches
- Conforms to NEMA Type 13
- European Standard IEC 529, IP65

Part No.	6006-101-007
Size	6"H x 6"W x 6"D
	(152.4 x 152.4 x 152.4 mm)

# **Specifications**

	CBC-450-90	CBC-450-24	
Part No.	6006-448-006	6006-448-005	
Input Voltage	120/220/240/380/480 VAC		
Output Voltage	90 VDC	24 VDC	
Output Current	1 Amp/Channel 1.2 Amps Total	4 Amps/Channel 4 Amps Total	
Auxiliary Supply	12 VDC 250 mA		
Circuit Protection	Fused 1.5 Amp	Fused 5 Amp	
Ambient Temperature	+32° to 122°F (0° to 50°C)		
Status Indicators	Red LED indicates channel is energized.		
Adjustments	Jumper for single or dual operation. See appendix on page 282 for explanation.		
Inputs	3 Optically isolated, 10-30 VDC, 3-9 mA for Channel 1, Channel 2 and Channel 2 override (E-stop).		

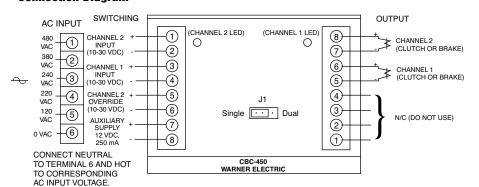
# **Dimensions**



# 4.72"

4.60"

# **Connection Diagram**



All dimensions nominal unless otherwise specified.