Specifications.



UniDrive® 110163 BMC-2 Basic Motor Control

The BMC-2 is a second generation Basic Motor Control in a compact, cost-effective package.

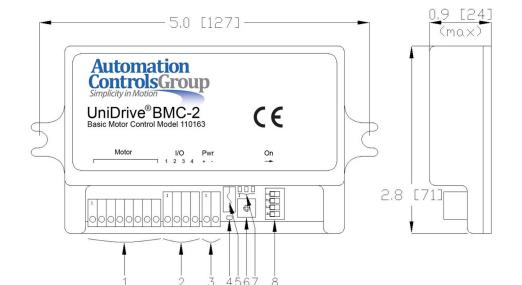
It is easy to install and set up for use. This control may be used with either the standard version 100 watt UniDrive® motor or our 125 watt UniDrive® motor.

This product is most useful in typical level, unit handling roller conveyor applications or on various actuators with external logic. It can also be used with 5:1, 7.5:1, 10:1 or 20:1 PowerCube™ assemblies that provide a very compact motor/reducer package for light to medium duty

pallet handling or industrial actuator applications.

Once the setup is complete, no further adjustments should be necessary. This is a simple straight forward control that will cause the motor to rotate in the desired direction in response to a simple PNP type input.

A complete installation manual is available to qualified conveyor original equipment manufacturers (OEMs) that will guide you through the installation, setup and use of the indicator LEDs to troubleshoot any setup errors.



- UniDrive® Motor Connection Header
- User Input-Output Connector (plug included)
- +24V DC Power Input Connector (plug included)
- 4. Blown Fuse Indicator (red LED)
- 5. Replaceable 10A Fuse
- 6. Speed Control Potentiometer
- 7. Diagnostic LEDs
- 8. Configuration Switches

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Specifications_

Electrical Specifications

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Input Voltage	<u>Minimum</u>	<u>Nominal</u>	<u>Maximum</u>
	22.0 VDC	24.0 VDC	28.0 VDC
Input Current	<u>Standby</u>	<u>Rated</u>	<u>Peak</u>
100W24 or 125W24 Motor Series	0.10 Amps	4.0 Amps	5.0 Amps
PNP Inputs	<u>Minimum</u>		<u>Maximum</u>
Voltage Load Outputs	18.0 VDC		28.0 VDC 3.0 mA
PNP Output	<u>Minimum</u>		Maximum
Voltage Current Inductive Loads Acceptable	Input -2 VDC		Input VDC 350 mA

Environmental Specifications

Temperature Limits	<u>Minimum</u>	<u>Maximum</u>
Operating Temperature at Full Load 100% duty cycle	-4° F (-20°C)	72°F (22°C)
At 50% duty cycle	-4° F (-20°C)	86°F (30°C)
At 25% duty cycle	-4° F (-20°C)	104°F (40°C)
Storage Temperature	-40° F (-40°C)	158°F (70°C)
Humidity (non-condensing)	20%	90%

Control Functions

Speed Control

100W24 or 125W24 Motor Series 70 RPM (7.3 rad/s) 350 RPM (36.7 rad/s)*

Speed Control Method

Default (Preset) Single turn analog potentiometer

Protection <u>Condition</u> <u>Response</u>

Over Speed Over 425 RPM Apply Dynamic Braking
Stalled Motor Under 35 RPM Reduce Current to 2A

Over Voltage on Input Over 28 VDC Applies Dynamic Braking Immediately

Under Voltage on Input Under 20 VDC Applies Dynamic Braking - After 1 Second Motor Coasts

Braking Method

Dynamic Braking Default Mode Brings Motor to a Halt Quickly
Zero-Motion Hold Restricts Parcels on the Conveyor from Coasting

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^{*}to achieve 280-350 RPM at full rated torque a 125W24 motor must be used.