General Specifications				
Operating Temperature	0° to 60°C (32° to 140°F)			
Storage Temperature	-20° to 85°C (-4° to 185°F)			
Humidity	5 to 95% (non-condensing)			
Environmental Air	No corrosive gases permitted			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Enclosure Type	sure Type Open Equipment			
Agency Approvals	UL61010-2 - UL File # E185989 Canada and USA			
	CE Compliant EN61131-2*			
Noise Immunity	NEMA ICS3-304			
EU Directive	See the "EU Directive" topic in the Help File			
Heat Dissipation	10.8W Max			
Weight	198g (7 oz)			
Software Version	Do-more! Designer 2.3 or later, Netedit 3 Version 3.15 or later			

*Meets EMC and Safety requirements. See the D.O.C. for details.

Power Supply Specifications				
Nominal Voltage Rating	120–240 VAC			
Input Voltage Range (Tolerance)	85-264 VAC			
Rated Operating Frequency	47–63 Hz			
Maximum Input Power	40VA			
Cold Start Inrush Current	1.5A, 2ms			
Maximum Inrush Current (Hot Start)	1.5A, 2ms			
Internal Input Fuse Protection	Micro fuse 250V, 2A Non-replaceable			
Isolated User 24VDC Output	24VDC @ 0.3A max, <1V P-P Ripple, Integrated self-resetting short circuit protection			
Voltage Withstand (dielectric)	1500VAC Power Inputs to Ground applied for 1 minute 1500VAC Ground to 24VDC applied for 1 minute			
Replacement Connector	ADC Part # BX-RTB05			
Removable	Pinout Connection			

GND

V-

Removable Connector Included

Ethernet Specifications					
Port Name	Ethernet				
Description	Standard transformer isolated Ethernet port with built-in surge protection.				
Transfer Rate	10Mbps and 100Mbps				
Port Status LED	LNK LED is solid GREEN when network link is established. ACT LED flashes GREEN when port is active.				
Supported Protocols	Do-more! Ethernet Remote I/O (Server) HOST Ethernet Remote I/O (Server) Modbus TCP/IP (Server)				
Cable Recommendation	C5E-STxxx-xx from AutomationDirect.com				
Port Type	RJ45, Category 5, 10/100 BASE-T, Auto Crossover				
Ethernet Port Numbers: Do-more! Ethernet Remote I/O (Server) HOST Ethernet Remote I/O (Server) Modbus TCP/IP (Server)		28784, UDP 28784, UDP 502, TCP			



BX-EBC100-M

BRX Ethernet Base Controller

120 VAC required, Ethernet port.



Power terminal block included.

WARNING: To minimize the risk of potential safety problems, you should
follow all applicable local and national codes that regulate the installation and
operation of your equipment. These codes vary from area to area and it is your
responsibility to determine which codes should be followed, and to verify that the
equipment, installation, and operation are in compliance with the latest revision
of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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Do-more! BRX Manual available at www. automationdirect.com/pn/doc/manual/ BX-EBC100-M



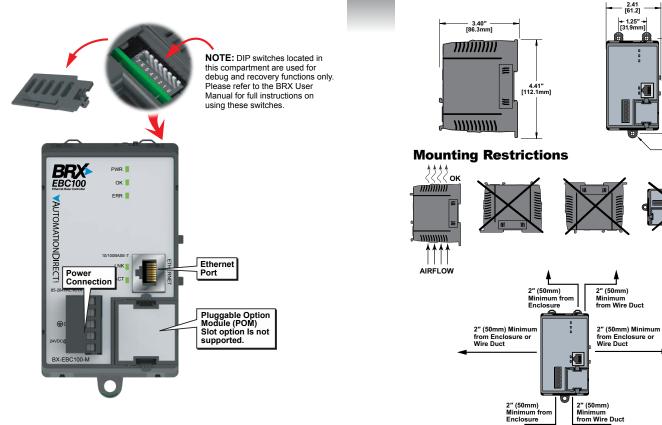
IMPORTANT!



Hot-Swapping Information Note: This device cannot be Hot Swapped.

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Indicator	Status	Description
PWR	OFF	Base Power is OFF
	GREEN	Base Power is Good
ОК	GREEN	Controller is Functioning Normally
	GREEN (Blinking)	Reset Mode (Booter without OS)
	YELLOW	Analog Module Mismatch
	OFF	Controller HW Error or Power is Off
ERR	OFF	Controller is Functioning Normally
	RED	Controller HW Error or Communications Watchdog Timeout
	RED (Blinking)	Reset Mode (Booter without OS)
LNK	OFF	No Ethernet Link
	GREEN	Ethernet Link is Good
ACT	OFF	No Ethernet Activity
	GREEN (Blinking)	Ethernet Activity

Terminal Block Connector Specifications					
Part Number	BX-RTB05 (Included)	BX-RTB05-1 (Optional)			
Connector Type	Screw Type-90°	Spring Clamp Type-180°			
Wire Exit	90 degree	180 degree			
Pitch	5.0mm	5.0mm			
Screw Size	M2.5	N/A			
Recommended Screw torque	< 3.98 Lb-in (0.45 N-m)	N/A			
Screwdriver Blade Width	3.5mm	3.5mm			
Wire Gauge (Single Wire)	28-12 AWG	28-14 AWG			
Wire Gauge (Two Wires)	28-16 AWG	28-16 AWG (Dual Wire Ferrule Required)			
Wire Strip Length	0.3in (7.5mm)	0.37in (9.5mm)			
Equiv. Dinkle part #	5ESDV-05P-BK	5ESDSR-05P-BK			

Dimensional Information Note: Drawings are for reference only. Shown without terminal blocks.

4.25" [107.9mm]

Ø #8 Thru all (3 Places)

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