

BX-DM1-36ER Cut Sheet



BRX Do-more PLC, 120-240 VAC required, serial port, battery backup, microSD card slot, Discrete Input: 20-point, AC/DC, Discrete Output: 16-point, relay.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/BX-DM1-36ER>

Technical Specifications

Brand	BRX Do-more	Nominal Output Voltage	12-48 VDC/24-240 VAC
Item	PLC	Discrete Output Type	Relay
Total Memory	192k words	Relay Configuration	(16) Form A (SPST) relays
Ladder Memory	64k words	Load Current	2A/point
User Data Memory	128k words	Number of Isolated Discrete Output Commons	4
Removable Media Type	MicroSD card slot	Number of Points per Discrete Output Common	4
Programming Language	Ladder	Maximum Number of PID Loops	100+ (configurable to memory limit)
Programming Software	Do-more Designer programming software v2.0 or later	Number of High-Speed Capable Input Points	10
Communication Port and Connection Type(s)	(1) RS-232/RS-485 (3-pin terminal)	High-Speed Counter(s)	<ul style="list-style-type: none"> • up to (3) up counters • up to (3) down counters • up to (3) up/down counters • up to (3) pulse/direction (bi-directional) counters • up to (3) quadrature (A and B) counters • up to (3) quadrature (A and B with Z) counters
Port Protocol(s)	<ul style="list-style-type: none"> • Do-more protocol • Modbus RTU Master/Slave • ASCII In/out • K-sequence Slave • webserver (non-secure HTTP) • programming and monitoring 	Position Scaling	<ul style="list-style-type: none"> • up to (3) up counters • up to (3) down counters • up to (3) up/down counters • up to (3) pulse/direction (bi-directional) counters • up to (3) quadrature (A and B) counters • up to (3) quadrature (A and B with Z) counters
Port Speed(s)	up to 115.2k baud	Interval Measurement	<ul style="list-style-type: none"> • up to (3) single input (edge) timers • up to (3) dual input (dual edge) timers
Real Time Clock/Calendar	Yes	Duration Measurement	up to (3) single input (edge) timers
Retentive Memory	Yes	Frequency Measurement	<ul style="list-style-type: none"> • up to (3) single input up counters • up to (3) single input down counters • up to (3) pulse/direction (bi-directional) counters • up to (3) quadrature input (A and B) counters • up to (3) quadrature (A and B with Z) counters • up to (3) edge timers interval scaling • up to (3) dual edge timers interval scaling
Battery Backup	Yes		
Maximum Expansion Modules Allowed	8		
External Power Requirement	120-240 VAC		
Number of Discrete Input Points	20		
Nominal Input Voltage	12-24 VAC/VDC		
Voltage Type	AC/DC		
Discrete Input Type	Sinking/sourcing		
Number of Isolated Discrete Input Commons	5		
Number of Points per Discrete Input Common	4		
Frequency Response	250 kHz		
Number of Discrete Output Points	16		

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Interrupt(s)	<ul style="list-style-type: none">• up to (4) input interrupts• up to (4) timer interrupts• up to (4) match register interrupts
Includes	BX-RTB03S terminal block and D0-MC-BAT battery
Requires	BX-RTB36 or BX-RTB36-1 terminal block kit or ZIPLink pre-wired cables
Dangerous Goods	<ul style="list-style-type: none">• Battery Installed: Yes• Packaging Instructions: 970• UN Number: UN3091• Hazard Type: Lithium Batteries• Battery Type: Button• Lithium Content: 0.07• Replacement Battery: D0-MC-BAT• Generic Battery: CR2032

Agency Approvals

UL Listed File #	E185989
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Yes (See CE Doc)
EU REACH	View EU REACH document

Dimensional Drawings



2D Drawing PDF Link:
<https://cdn.automationdirect.com/static/drawings/BX-DM1-36ER.pdf>
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