MAN0940-01-EN Specifications / Installation



SmartBlock Relay High Current Relay Output Modules

HE569DQM209 (8pt) Isolated Form C Relays, 20A/pt

1 Specifications

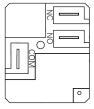
Specifications						
Outputs		DQM209				
Outputs (Commons)		8 (8)				
		Ratings				
Voltage	Load Type		NO Contact	NC Contact		
277VAC	Tungsten*		5.4A	-		
277VAC	Ballast		10A	3A		
240VAC	Motor		2HP	½ HP		
240VAC	Resistive*		20A	10A		
240VAC	General Purpose		20A	10A		
240VAC	LRA/FLA		53A/20A	20A/8A		
240VAC	Pilot Duty		470VA	275VA		
125VAC	Motor		1HP	1/4 HP		
120VAC	LRA/FLA		98A/22A	-		
120VAC	Tungsten*		8.3A	-		
120VAC	Pilot Duty		470VA	-		
28VDC	Resistive*		20A	10A		
		*6,000 o	perations			
Minimur	Minimum Output		1A @ 5VDC or 1A @ 12VAC			
Response Time		15mS OFF>ON, 15mS ON>OFF				
1	Life		10 million cycles mechanical			
=:->		100,000 cycles minimum at rated load				
	General		DQM209			
	LED indication		ON indication per Relay Output			
	DC (CsCAN) Input		<50mA @ 10-30Vdc			
Power						
	AC Input Power		0.26A @ 100-240Vac			
	Load Terminal Type		1/4" Spade Male			
Load Terminals / Relay		Common, Normally Open, Normally Closed				
Storage Temp.		-40° to 80° Celsius				
Operating Temp.		-20° to 70° Celsius				
Relative Humidity		5 to 95% Non-condensing				
Dimensions HxWxD		5" x 8.5" x 2.5" (127x216x63mm)				
Weight		567g (1lb. 4oz.)				
CE (UL) Compliance		CE (all components UL recognized)				

2 Wiring – AC Input Power & Relay Loads



AC Power Input G=Earth Ground N=Neutral L=Line

Relay Loads
COM= Common
NO=Normally Open
NC=Normally Closed



2.1 CsCAN Network Wiring

Color		Signal	Description
-	Red	V+	DC Power In
	White	CAN_H	CAN Data High
		SHIELD	Shield Ground
	Blue	CAN_L	CAN Data Low
	Black	V-	CAN Ground

2.2 CsCAN Network ID



The CsCAN Network ID is set using two 16-position rotary switches labeled HI and LO. Addresses 01-FD hex (1-253 decimal) are legal in CsCAN. To convert the readings in hex on the rotary switches to the eqivalent decimal value, use the following equation:

ID (decimal) = HI x 16 + LO

3.0 Software Configuration

The DQM209 is configured in Cscape as a 16pt SmartStix Output module. Sixteen bits of output reference data (e.g. %Q) are assigned to the unit. The first eight bits control the relay outputs, and the last eight bits are unused.

3.1 LED Status Indication

Each relay output has an ON status LED physically located next to the relay on the DQM209. There is also a PWR LED (lit when DC power is applied), and CsCAN status LEDs labeled MS (module status) and NS (network status). Those LEDs are described below.

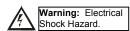
Diagnostic LED	State	Meaning
	Solid Red	RAM or ROM test failed
MS: (indicates fault status of	Blinking Red	I/O test failed
Module)	Blinking Green	Module is in power-up state
	Solid Green	Module is running normally
	Solid Red	Network Ack or Dup ID test failed
NS: (indicates fault status of	Blinking Red	Network ID test failed
Network)	Blinking Green	Module is in Life Expectancy default
Hetwork		state
	Solid Green	Network is running normally

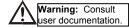
4 Installation / safety

Warning: Remove DC and AC power from the relay module and any peripheral equipment connected to this local system before adding or replacing this or any module.

a. All applicable codes and standards should be followed in the installation of this product.

When found on the product, the following symbols specify:





5 Technical Support

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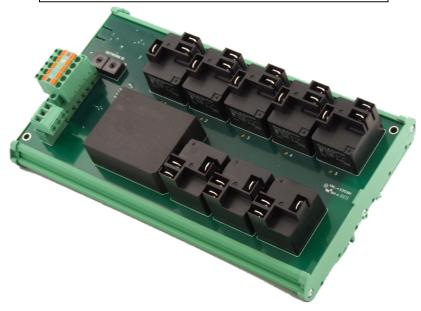
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