MAN0941-03-EN Specifications / Installation



SmartBlock Relay & SSR

High Current Socketed Output Modules

HE569DQM212 (16A Form C), HE569DMQ204 (3A AC SSR), HE569DQM205 (5A DC SSR)

1 Specifications

Specifications						
General		All Versions				
Outputs (Commons)		8 (8)				
LED indication		ON indication per Relay Output				
DC Input Power			A @ 24\			
Load Termi	Load Terminal Type		Removable Spring-Clamp (2 x 12posn)			
Storage 7	Гетр.	-40° to +80° Celsius				
Operating	Temp.	-20° to +60° Celsius				
Relative H	umidity	5 to 95% Non-condensing				
Dimensions	Dimensions HxWxD		5" x 4.31" x 2.5" (127x110x63mm)			
	Weight		340g (12oz.)			
CE (UL) Co	mpliance	CE (all co	mponen	ts UL re	cognized)	
Contact R	Contact Ratings		DQM212			
Contact Con	figuration	Normally Open & Normally Closed				
AC Voltag	AC Voltage, max.		400Vac			
AC curren	AC current, max.		16A*			
DC Voltag	DC Voltage, max		220Vdc			
DC currer	nt may	16A* @ 30Vdc		300mA @ 120n		
	DC current, max			0Vdc 220Vdd		
		ambient rise, derate max. current by 12.5%				
	Minimum Output		5V @ 5mA			
Response	Response Time		8mS OFF>ON, 6mS ON>OFF			
Life		30 million cycles mechanical				
		70,000 cycles minimum at rated load DQM204 DQM205				
	Contact Ratings				DQM205	
Contact Configuration		Normally Open				
Voltage, max.		275Vac		35Vdc		
Rated Current		3A @ 240Vac		5A @ 24Vdc		
Minimum Output		12Vac @ 50mA		1.5Vdc @ 1mA		
Off-state leakage current		1mA		0.01mA		
On-state voltage drop		1.1Vac		0.3Vdc		
Response	OFF>ON	10mS			0.05mS	
Time	ON>OFF	10mS			0.25mS	

2 Output Wiring

Model	Top Connector Terminal Number (left to right)											
Wiodei	1	2	3	4	5	6	7	8	9	10	11	12
DQM212	1C	NO	NC	2C	NO	NC	3C	NO	NC	4C	NO	NC
DQM204	1C	NO		2C	NO		3C	NO		4C	NO	
DQM205	1C	NO		2C	NO		3C	NO		4C	NO	
Model	Bottom Connector Terminal Number (left to right)											
Wodei	1	2	3	4	5	6	7	8	9	10	11	12
DQM212	5C	NO	NC	6C	NO	NC	7C	NO	NC	8C	NO	NC
DQM204	5C	NO		6C	NO		7C	NO		8C	NO	
DQM205	5C	NO		6C	NO		7C	NO		8C	NO	
C = Common NO=Normally Open NC=Normally Closed <empty>=No Connect</empty>												

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 DQM modules are 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 output has an ON status LED physically located next to the relay on the DQM module. 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.

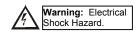
Diagnostic LED	State	Meaning		
	Solid Red	RAM or ROM test failed		
MS: (Module Status)	Blinking Red	I/O test failed		
me. (module otatus)	Blinking Green	Module is in power-up state		
	Solid Green	Module is running normally		
	Solid Red	Network Ack or Dup ID test failed		
	Blinking Red	Network ID test failed		
NS: (Network Status)	Blinking Green	Module is in Life Expectancy default		
	Dilliking Green	state		
	Solid Green	Network is running normally		

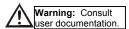
4 Installation / safety

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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