



Main

Range of product	Modicon Quantum automation platform
Product or component type	Dc discrete output module
Discrete output number	32

Complementary

Group of channels	4 groups of 8
Discrete output logic	Negative logic (sink)
Addressing requirement	2 output words
Discrete output voltage	24 V DC
Output voltage limits	19.2...30 V
Absolute maximum output	56 V for 1.3 s decaying pulse
Voltage drop	0.4 V 0.5 A
Maximum load current	4 A per group 16 A per module
Surge current	<= 5 A for 0.0005 s
Response time	<= 1 ms at state 1 to state 0 <= 1 ms at state 0 to state 1
Leakage current	0.4 mA 30 V
Load inductance	$Inductance(H) = 0.5 / ((current(A))^2 \times (switching\ frequency(Hz)))$ 50 Hz
Fault indication	Blown fuse Loss of field power
Associated fuse rating	5 A per group 3 A each point
Isolation between channels and bus	1780 Vrms DC for 1 minute
Isolation between group	500 Vrms DC for 1 minute
Protection type	Internal output protection by 5 A fuse per group
Power dissipation	1.75 W + (0.4 V x total module load current)
Marking	CE
Local signalling	32 LEDs green input status 1 LED red external fault detected (F) 1 LED green bus communication is present (Active)
Bus current requirement	330 mA
Module format	Standard
Product weight	0.45 kg

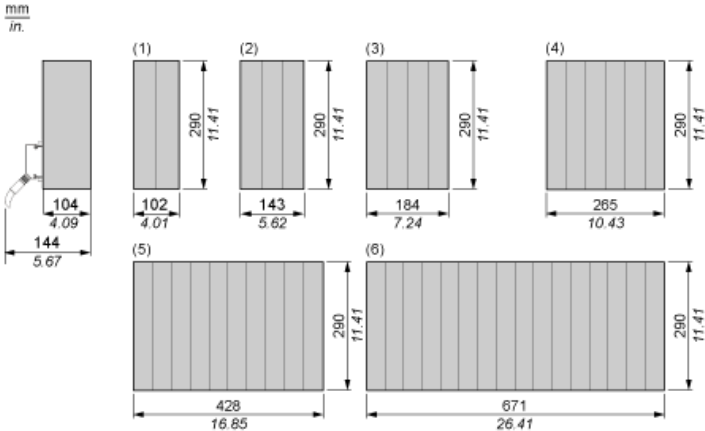
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Environment

Protective treatment	Conformal coating Humiseal 1A33
Product certifications	ABS BV C-Tick DNV FM Class 1 Division 2 GL GOST RINA RMRS
Standards	CSA 22-2 No 142 UL 508
Resistance to electrostatic discharge	8 kV on air conforming to IEC 801-2 4 kV contact conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m

Racks for Modules Mounting

Dimensions of Modules and Racks



- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

24 Vdc Discrete Output Source Module

Wiring Diagram

