



Main

Range of product	Modicon Quantum automation platform
Product or component type	Mixed discrete I/O module
Discrete I/O number	24

Complementary

Discrete input number	16 2 groups of 8
Discrete input logic	Sink
Addressing requirement	0.5 output word 1 input word
Network frequency limits	47...63 Hz
Discrete input voltage	24 V DC
Input voltage limits	<= 1 V during 10 s <= 1 V during one cycle 30 V 56 V during 1.3 ms
Voltage state 0 guaranteed	-3...5 V
Voltage state1 guaranteed	15...30 V
Current state 0 guaranteed	<= 0.5 mA
Current state 1 guaranteed	>= 2 mA
Input impedance	2500 Ohm
Discrete output number	8 2 groups of 4
Discrete output type	Solid state
Discrete output logic	Sink
Discrete output voltage	24 V
Output voltage limits	56 V DC during 1.3 ms 19.2...30 V DC typical
Maximum load current	<= 4 A per module <= 2 A per group <= 0.5 A per point
Voltage drop	0.4 V 0.5 A
Absolute maximum output	5 A during 500 µs per point
Load inductance	500 mH 4 Hz
Load capacitance	<= 50 µF
Leakage current	0.4 mA 30 V DC
Response time on output	<= 1 ms at state 1 to state 0 <= 1 ms at state 0 to state 1
Protection type	Internal output protection by 5 A fuse per group On input by resistor limited On output by transient voltage suppression
Associated fuse rating	5 A per group
Isolation between group	500 Vrms for 1 minute

Isolation between group and bus	1780 Vrms for 1 minute
Fault indication	Blown fuse on output Loss of field power on output
Power dissipation	1.75 W + (0.36 x input point on) + (1.1 total output load current)
Local signalling	2 LEDs red fault detected on the output point 2 LEDs red fault detected on the input point 2 LEDs green output is turned on 1 LED red no voltage in output and input (F) 1 LED green bus communication is present (Active)
Marking	CE
Bus current requirement	330 mA
Product weight	0.3 kg

Environment

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...1000 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
Standards	CSA C22.2 No 142 FM Class 1 Division 2 UL 508
Product certifications	CUL

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0840 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

Racks for Modules Mounting

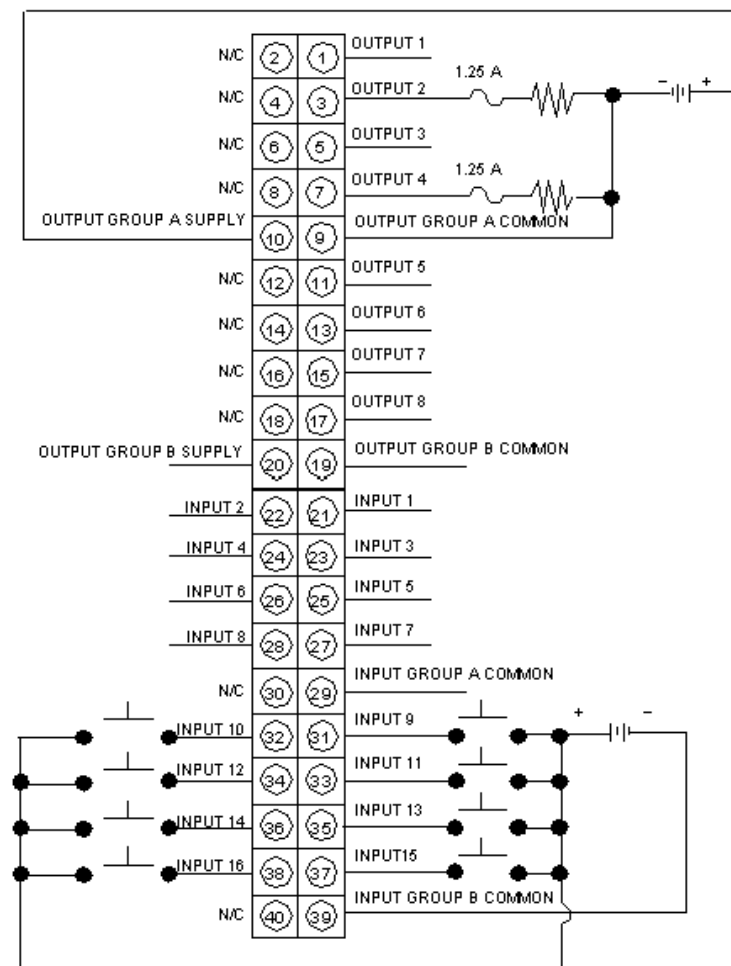
Dimensions of Modules and Racks



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

24 Vdc Discrete Input Sink/Output Source Module

Wiring Diagram



N/C Not Connected