



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
Addressing requirement	0.5 output word 1 input word
Network frequency limits	47...63 Hz
Discrete input voltage	115 V AC
Input voltage limits	132 V typical 156 V during 10 s 200 V during one cycle
Voltage state 0 guaranteed	0...20 V
Voltage state1 guaranteed	85...132 V 50 Hz 79...132 V 60 Hz
Current state 0 guaranteed	<= 0.5 mA
Current state 1 guaranteed	<= 13.2 mA 60 Hz <= 11 mA 50 Hz
Input impedance	14400 Ohm capacitive
Response time	7.3...12.3 ms at state 1 to state 0 4.9...0.75 ms at state 0 to state 1
Discrete output number	8 2 groups of 4
Discrete output type	Solid state
Discrete output voltage	115 V
Output voltage limits	85...132 V typical AC typical 200 V AC during 1 cycle 156 V AC during 10 s
Minimum load	5 mA
Maximum load current	<= 8 A per module <= 8 A per group <= 4 A per point
Voltage drop	1.5 V
Absolute maximum output	10 A 3 cycles per point 45 A 1 cycle per group 30 A 2 cycles per group 30 A 1 cycle per point 26 A 3 cycles per group 20 A 2 cycles per point
DV/Dt	400 V/μs
Leakage current	2.1 mA 115 V AC input circuit <= 2 mA output circuit

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Response time on output	<= 0.5 ms at state 1 to state 0 <= 0.5 ms at state 0 to state 1
Protection type	Internal output protection by 5 A fuse per group On output by RC filter
Isolation between group	1000 Vrms for 1 minute
Isolation between channels and bus	1780 Vrms for 1 minute
Fault indication	Blown fuse on output Loss of field power on output
Power dissipation	5.5 W + (1.1 x total module load current)
External power requirement	85...132 V AC for output circuit
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	250 mA
Product weight	0.45 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 0901 - 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

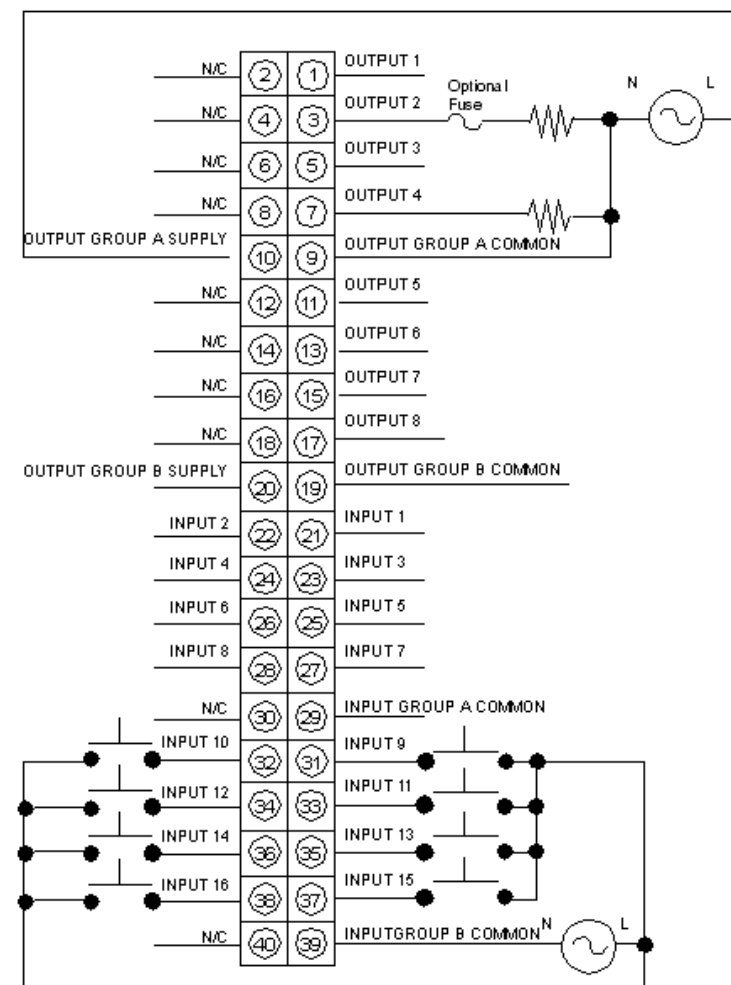
Dimensions of Modules and Racks



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

115 Vac Discrete Input/Output Module

Wiring Diagram



N/C Not Connected