

# Product data sheet

Specifications



## discrete input module Modicon Quantum - 32 I - 24 V DC

140DDI35310

- ❗ Discontinued on: 31 December 2022
- ❗ To be end-of-service on: 31 December 2030

❗ Discontinued - Service only

### Main

Range of product	Modicon Quantum automation platform
Product or component type	Low voltage dc discrete input modules
Discrete input number	32

### Complementary

Group of channels	4
Logic input	Negative (source)
Discrete input voltage	24 V DC
Input voltage limits	19.2...30 V
Voltage state 1 guaranteed	-30...-15 V DC
Voltage state 0 guaranteed	-5...0 V DC
Current state 1 guaranteed	>= 2.5 mA at Us = - 14 V
Current state 0 guaranteed	<= 0.5 mA
Addressing requirement	2 input words
Input impedance	2400 Ohm
Maximum leakage current	200 mA at Us = 5.5 V and Uin = 4 V
Absolute maximum input	30 V continuous 50 V during 1 ms decaying pulse
Response time	<= 1 ms from state 0 to state 1 <= 1 ms from state 1 to state 0
Protection type	Input protection by resistor limited
Power dissipation	1.5 W + (0.26 x number of points on)
Isolation between group and bus	1780 Vrms for 1 minute
Isolation between group	500 Vrms for 1 minute
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 32 LEDs (green) for input status
Marking	CE
Bus current requirement	330 mA
Module format	Standard

Net weight	0.3 kg
<b>Environment</b>	
Standards	UL 508 CSA C22.2 No 142
Product certifications	RINA GOST FM Class 1 Division 2 C-Tick RMRS
Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air 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
<b>Packing Units</b>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	412.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.37 kg
<b>Offer Sustainability</b>	
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

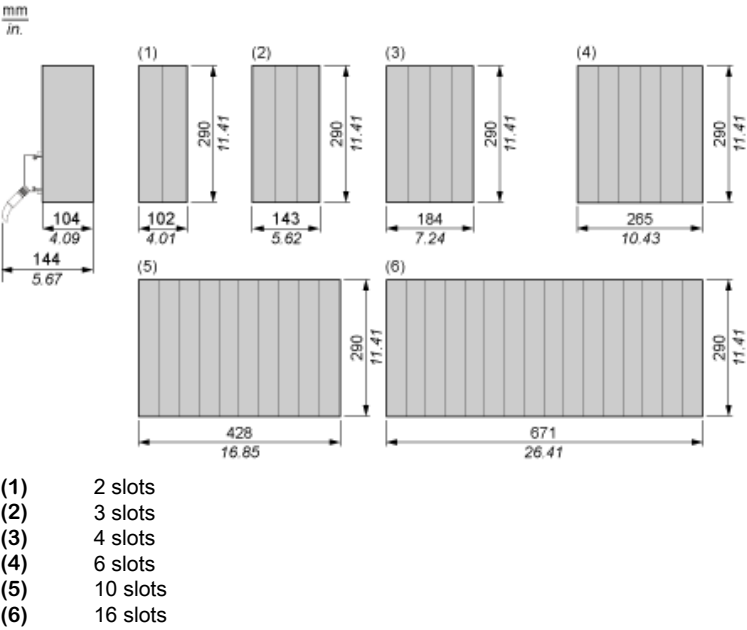
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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Contractual warranty

Warranty	18 months
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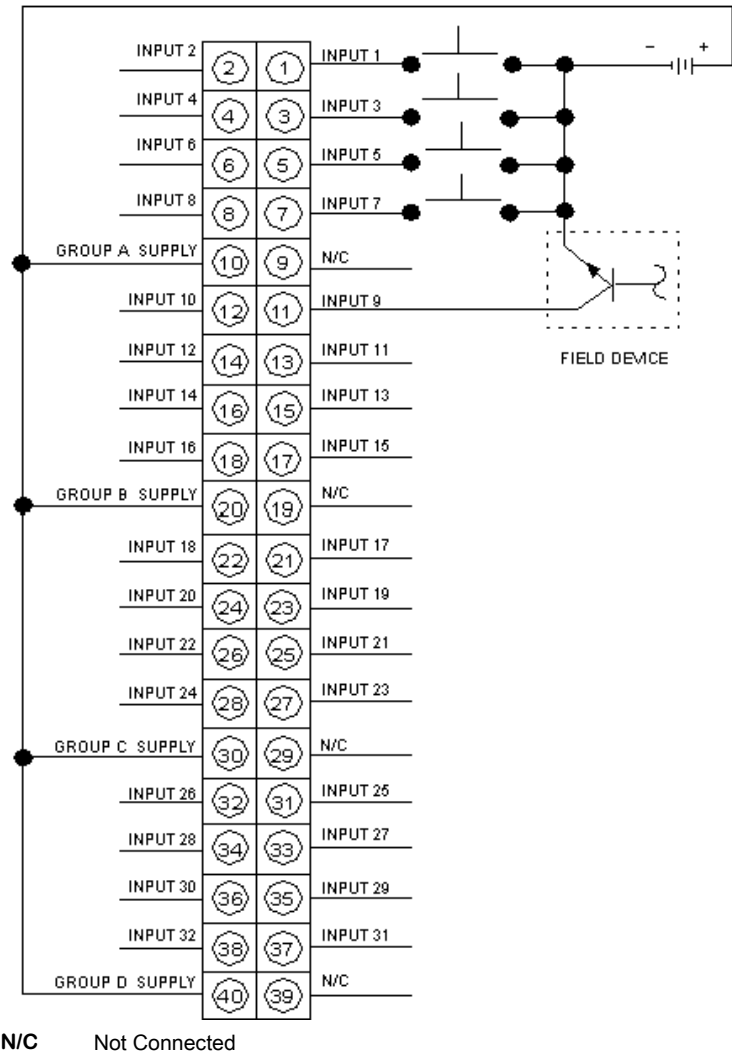
Racks for Modules Mounting

Dimensions of Modules and Racks



24 Vdc Discrete Input Source Module

Wiring Diagram



Recommended replacement(s)