Product datasheet

Specifications

Modicon Quantum low voltage discrete input module - 96 I - positive logic

140DDI36400C

⚠ Discontinued on: 24 Sept 2022

⚠ To be end-of-service on: 31 Dec 2029

⚠ **Discontinued - Service only**

Main

Range of product	Modicon Quantum automation platform
Product or component type	Low voltage dc discrete input modules
Discrete input number	96

Complementary

Group of channels	6
Logic input	Positive (sink)
Discrete input voltage	24 V DC
Input voltage limits	19.2...30 V
Voltage state 1 guaranteed	15...30 V DC
Voltage state 0 guaranteed	5 V DC
Current state 1 guaranteed	>= 2.5 mA
Current state 0 guaranteed	>= 0.7 mA
Addressing requirement	6 words
Input impedance	6700 Ohm
Absolute maximum input	30 V continuous 50 V decaying pulse
Response time	<= 2 ms from state 0 to state 1 <= 3 ms from state 1 to state 0
Power dissipation	1.35 W + (0.13 x number of points on)
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) 96 LEDs (green) for input status
marking	CE
Bus current requirement	270 mA
Module format	Standard
Net weight	0.3 kg

Environment

protective treatment	Conformal coating Humiseal 1A33

Standards	CSA C22.2 No 142
	UL 508
Product certifications	C-Tick
	FM Class 1 Division 2
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	16.5 cm
Package 1 Length	32.0 cm
Package 1 Weight	529.0 g

Contractual warranty

Warranty	18 months

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Sustainability

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Guide to assess a product's sustainability ⟩

RoHS/REACh

Well-being performance

✓ Reach Free Of Svhc

✓ Mercury Free

✓ Rohs Exemption Information   Yes

Certifications & Standards

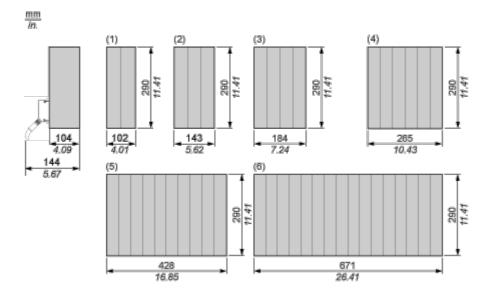**Eu Rohs Directive**   Pro-active compliance (Product out of EU RoHS legal scope)

                                      EU RoHS Declaration

China Rohs Regulation   China RoHS declaration

Weee   The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile   End of Life Information

Dimensions Drawings

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

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Connections and Schema

24 Vdc 6x16 Input Module

6 Groups of 16 Inputs A…F (6 x HE 10 Connectors)