# **Product datasheet**

Specification





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

140DDI36400C

! To be discontinued on: 31 Dec 2029

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

## \_\_\_\_\_

#### 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	19.230 V	
Voltage State 1 Guaranteed	1530 V DC	
Voltage State 0 Guaranteed	5 V DC	
Current State 1 Guaranteed	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	LED (green) for bus communication is present (Active) LED (red) for external fault detected (F) GEDs (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 802000 MHz conforming to IEC 801-3	
Ambient Air Temperature For Operation	060 °C	
Ambient Air Temperature For Storage	-4085 °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
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.058 kg

# **Contractual warranty**

Warranty 18 months



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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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RoHS/REACh

## Well-being performance

<b>②</b>	Reach Free Of Svhc	
<b>Ø</b>	Mercury Free	
<b>Ø</b>	Rohs Exemption Information	Yes

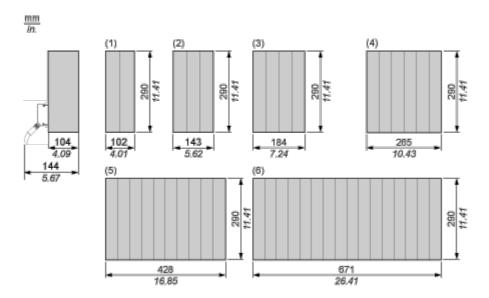
#### **Certifications & Standards**

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

# **Product datasheet**

## 140DDI36400C

Connections and Schema

#### 24 Vdc 6x16 Input Module

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

