

Product datasheet

Specifications



discrete input module Modicon Quantum - 96 I - 24 V DC

140DDI36400

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

To be discontinued

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

Standards	CSA C22.2 No 142
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	UL 508
Product certifications	FM Class 1 Division 2 C-Tick
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	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	520.0 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	4.2 kg

Offer Sustainability

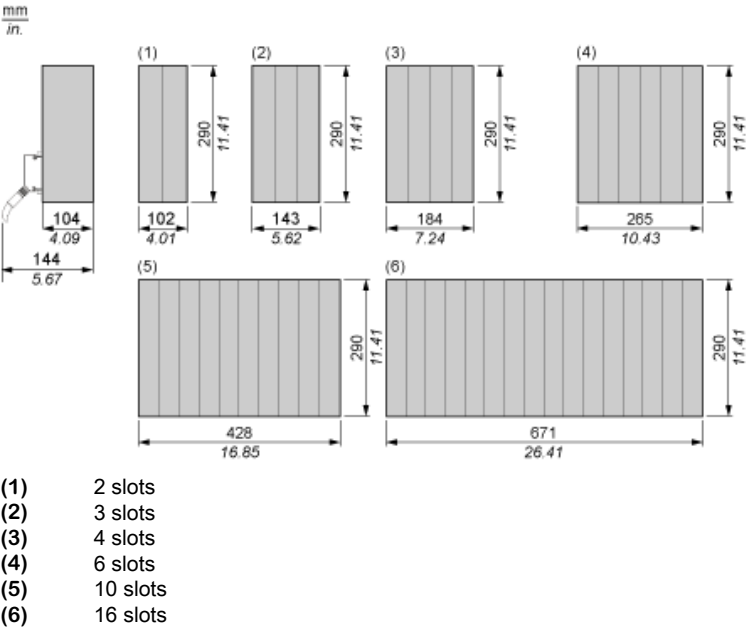
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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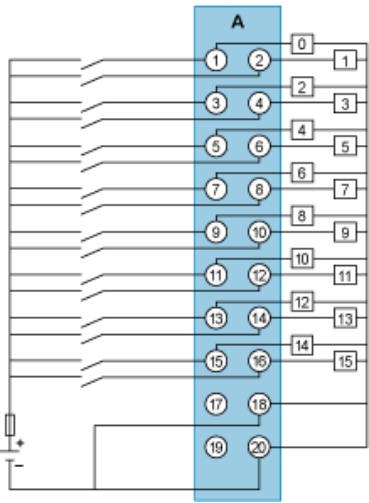
Racks for Modules Mounting

Dimensions of Modules and Racks



24 Vdc 6x16 Input Module

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



Recommended replacement(s)

140DDI36400 is replaced by:

1x



discrete input module X80 - 64 inputs - 24 V DC positive
BMXDDI6402K