

Product Datasheet

Characteristic

140DDI36400

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



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	Bus communication is present (Active) 1 LED green) External fault detected (F) 1 LED red) Input status 96 LEDs green)
marking	CE
bus current requirement	270 mA
module format	Standard
Net Weight	0.66 lb(US) (0.3 kg)

Environment

standards	CSA C22.2 No 142 UL 508
-----------	----------------------------

product certifications	FM Class 1 Division 2 C-tick
resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
resistance to electromagnetic fields	9.14 V/m (10 V/m) 80...2000 MHz IEC 801-3
ambient air temperature for operation	32...140 °F (0...60 °C)
ambient air temperature for storage	-40...185 °F (-40...85 °C)
relative humidity	95 % without condensation
operating altitude	<= 16404.2 ft (5000 m)

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	X
Environmental Disclosure	ENVPEP071201EN
Circularity Profile	ENVEOLI0712001EN
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.