

Product Datasheet

Characteristic

140DAI35300

discrete input module Modicon
Quantum - 32 I - 24 V AC



Main

range of product	Modicon Quantum automation platform
product or component type	VAC discrete input modules
software name	ProWORX 32 Concept Unity Pro
discrete input number	32

Complementary

group of channels	4
addressing requirement	2 input words
discrete input voltage	24 V AC
input current	11.1 mA 57...63 Hz 13.2 mA 47...53 Hz
voltage state 1 guaranteed	12...30 V AC 57...63 Hz 14...30 V AC 47...53 Hz
voltage state 0 guaranteed	0...5 V 57...63 Hz 0...5 V 47...53 Hz
input impedance	2600 Ohm capacitive 57...63 Hz 3100 Ohm capacitive 47...53 Hz
network frequency limits	47...63 Hz
maximum leakage current	1.9 mA
absolute maximum input	30 V continuous 32 V 10 s 50 V 1 cycle
response time	4.9...0.75 ms x line cycle Off-On 7.3...12.3 ms On-Off
isolation between group	1780 Vrms for 1 minute
isolation between group and bus	1780 Vrms for 1 minute
bus current requirement	250 mA
maximum power dissipation in W	10.9 W
local signalling	Bus communication is present (Active) 1 LED green) External fault detected (F) 1 LED red) Input status 32 LEDs green)
marking	CE

module format	Standard
Net Weight	0.75 lb(US) (0.34 kg)

Environment

standards	UL 508 CSA C22.2 No 142
product certifications	FM Class 1 Division 2 CUL
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.