Product data sheet

Specifications

Green Premium™

discrete output module Modicon Quantum - 32 O - 10..30 V DC

140DVO85300C

⚠ Discontinued on: Sep 15, 2023

⚠ **To be discontinued**

Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	Dc discrete output module
Discrete Output Number	32

Complementary

Group Of Channels	4 groups of 8
Discrete Output Logic	Negative logic (sink)
Addressing Requirement	2 output words 2 input words
Discrete Output Voltage	10...30 V DC
Absolute Maximum Output	50 V 1 s decaying pulse
Maximum Voltage Drop	<0.4 V 0.5 A
Maximum Load Current	<= 0.5 A each point <= 16 A per module <= 4 A each group
Surge Current	2.5 A 1 ms
Response Time	<= 2 ms at state 0 to state 1 <= 2 ms at state 1 to state 0 1 ms at state 0 to state 1 1 ms at state 1 to state 0
Short-Circuit Protection	With
Output Overvoltage Protection	With
Load Inductance	Inductance(H) = 0.5/((current(A))² x (switching frequency(Hz))) 0.5...4 Hz
Maximum Tungsten Load	2.5 W 10 V 3 W 12 V 6 W 24 V
Fault Indication	Incorrect output state Loss of field power Blown fuse
Protection Type	Internal output protection by 5 A fuse per group
Power Dissipation	2.5 W + (0.1 x all points on) + (0.4 x total load current)
Marking	CE
Local Signalling	Bus communication is present (Active) 1 LED green) External fault detected (F) 1 LED red) Input status 32 LEDs green)
Bus Current Requirement	500 mA

Module Format	Standard
Net Weight	0.66 lb(US) (0.3 kg)

Environment

Protective Treatment	Conformal coating Humiseal 1A33
Product Certifications	RMRS FM Class 1 Division 2 C-Tick GOST
Standards	CSA C22.2 No 142 UL 508
Resistance To Electrostatic Discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance To Electromagnetic Fields	9.14 V/yd (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	<= 5000 m

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.42 in (16.3 cm)
Package 1 Width	1.77 in (4.5 cm)
Package 1 Length	12.28 in (31.2 cm)
Package 1 Weight	16.68 oz (473.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	32.45 oz (920.0 g)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

Well-being performance

✓ Reach Free Of Svhc

✓ Mercury Free

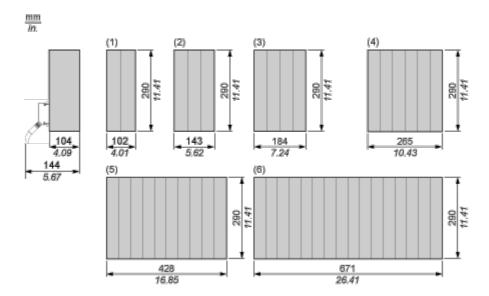✓ Rohs Exemption Information   Yes

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

mm
in.

(1) 2 slots	104 / 4.09
	144 / 5.67
(1)	290 / 11.41 — 102 / 4.01
(2)	290 / 11.41 — 143 / 5.62
(3)	290 / 11.41 — 184 / 7.24
(4)	290 / 11.41 — 265 / 10.43
(5)	290 / 11.41 — 428 / 16.85
(6)	290 / 11.41 — 671 / 26.41

(1)   2 slots

(2)   3 slots

(3)   4 slots

(4)   6 slots

(5)   10 slots

(6)   16 slots

Connections and Schema

10...30 Vdc Verified Output 32-point Module

Wiring Diagram

Note:
When driving a load from two different points, a blocking diode is required for each point. These diodes (shown above) will prevent false fault reporting when only one of the points is commanded ON.