Product datasheet

Specifications

Green Premium™

analog output module Modicon Quantum - 4 O

140AVO02000

Discontinued on: 22 Jul 2020

To be end-of-service on: 31 Dec 2030

Discontinued

Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	Analogue output module

Complementary

Analogue Output Number	4
Addressing Requirement	4 output words
Analogue Output Range	+/- 10 V >= 1000 Ohm bipolar voltage +/- 5 V >= 500 Ohm bipolar voltage 0...10 V >= 1000 Ohm unipolar voltage 0...5 V >= 500 Ohm unipolar voltage
Analogue Output Resolution	12 bits
Analogue Output Current	-10…10 mA
Source Resistance	0.1 Ohm
Maximum Cable Distance Between Devices	400 m
Absolute Accuracy Error	+/- 0.15 % of full scale at 25 °C
Linearity	+/- 1 LSB
Accuracy Drift According To Temperature	0.003 % of full scale/°C unipolar 0.004 % of full scale/°C bipolar 0.005 % of full scale/°C maximum unipolar 0.007 % of full scale/°C maximum bipolar
Isolation Between Channels	500 V for 1 minute 47...63 Hz AC
Isolation Between Channels And Bus	780 V for 1 minute AC
Update Time	3 ms
Setting Time	700 µs to +/- 0.1 % of the final value maximum
Bus Current Requirement	700 mA
Maximum Power Dissipation In W	4.5 W
Associated Fuse Rating	0.063 mA 3 AG fast blow at 250 V
Marking	CE
Local Signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault 4 LEDs (green) for channel is turned on 4 LEDs (red) for channel fault
Module Format	Standard
Net Weight	0.3 kg

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Environment

Product Certifications	FM Class 1 Division 2 cUL
Standards	UL 508 CSA C22.2 No 142
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	5.0 cm
Package 1 Width	16.5 cm
Package 1 Length	31.5 cm
Package 1 Weight	467.0 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	3.318 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ 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

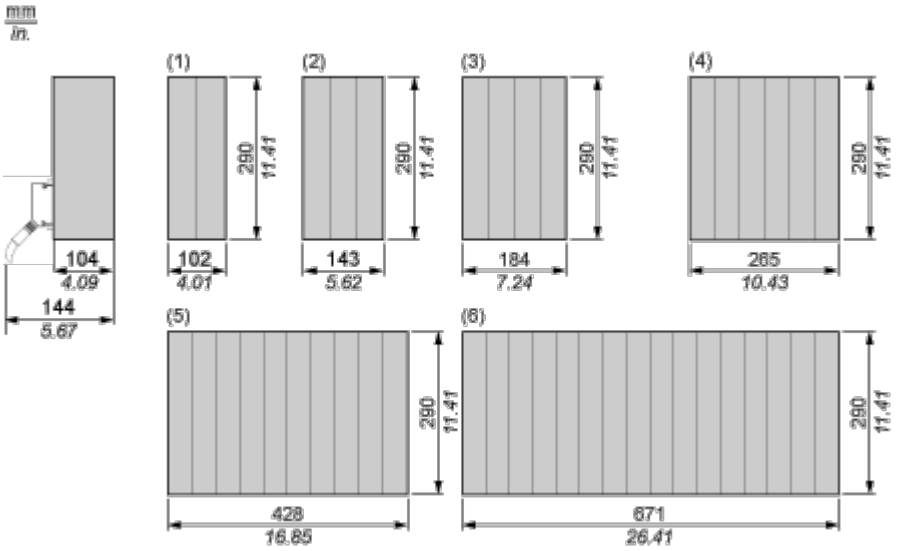
Certifications & Standards

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



(1) 2 slots

(2) 3 slots

(3) 4 slots

(4) 6 slots

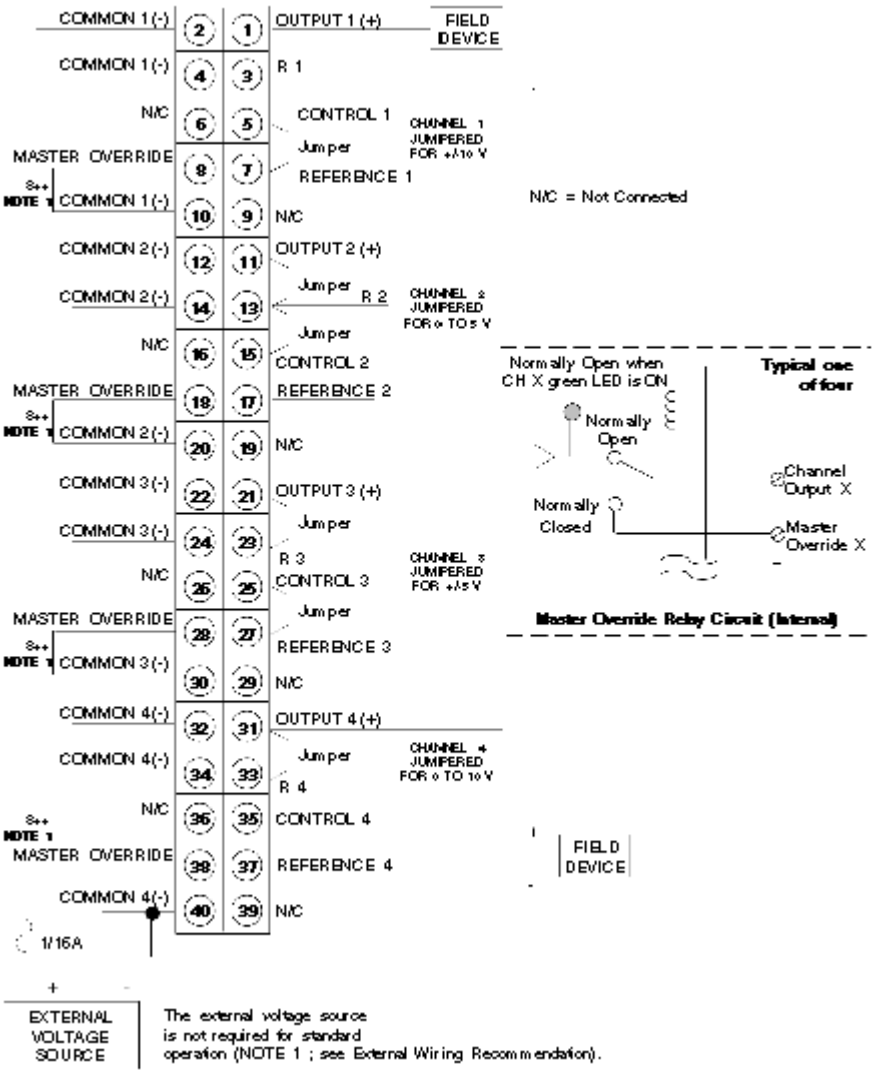
(5) 10 slots

(6) 16 slots

Connections and Schema

Analog Output 4-Channel Voltage Module

Wiring Diagram



N/C Not Connected

External Wiring Recommendation

1. Master override is an input connected via an internal relay contact to the output when the module is not active. If connected to an external source, the master override input must be fused by a 1/16 A fuse.
2. If the master override is not connected to an external source, then it must be connected to common of that channel.The master override relay transition time is typically 2 ms.
3. The master override inputs must be from an external supply with a source impedance of <200 Ω or tied to system common. These inputs for channels that are in use should not be allowed to float and may be unique for each.