

Product data sheet

Specifications



discrete output module Modicon Quantum - 16 O - 10..60 V DC

140DDO84300C

! To be discontinued on: 31 December 2021

! To be end-of-service on: 31 December 2029

! To be discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Dc discrete output module
Discrete output number	16

Complementary

Group of channels	2 groups of 8
Discrete output logic	Positive logic (source)
Addressing requirement	1 output word
Discrete output voltage	10...60 V DC
Output voltage limits	10.2...72 V
Absolute maximum output	72 V permanent
Maximum voltage drop	<1 V 2 A
Maximum load current	12 A per module 6 A per group
Surge current	7.5 A for 50 s
Response time	<= 1 ms at state 0 to state 1 <= 1 ms at state 1 to state 0
Maximum leakage current	1 mA 60 V
Load inductance	$\text{Inductance(H)} = 0.5 / ((\text{current(A)})^2 \times (\text{switching frequency(Hz)}))$
Associated fuse rating	2 A each point 8 A per group
Isolation between channels and bus	2500 Vrms DC for 1 minute
Isolation between group	700 Vrms DC for 1 minute
Protection type	Internal output protection by 8 A fuse per group
Power dissipation	1 W + (1 V x total module load current)
Marking	CE
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 16 LEDs (green) for input status
Bus current requirement	160 mA

Module format	Standard
Net weight	0.45 kg

Environment

Protective treatment	Conformal coating Humiseal 1A33
Product certifications	C-Tick FM Class 1 Division 2 RMRS GOST
Standards	CSA C22.2 No 142 UL 508
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 Weight	680 g
Package 1 Height	163 mm
Package 1 width	45 mm
Package 1 Length	312 mm
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Weight	1.3 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

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

California proposition 65

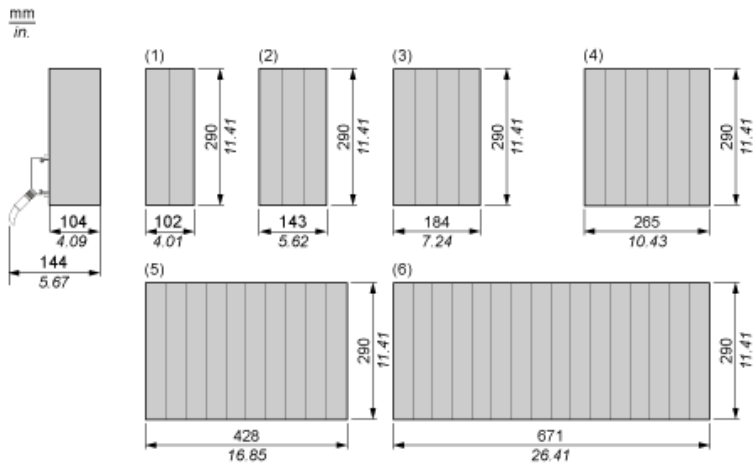
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months
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Racks for Modules Mounting

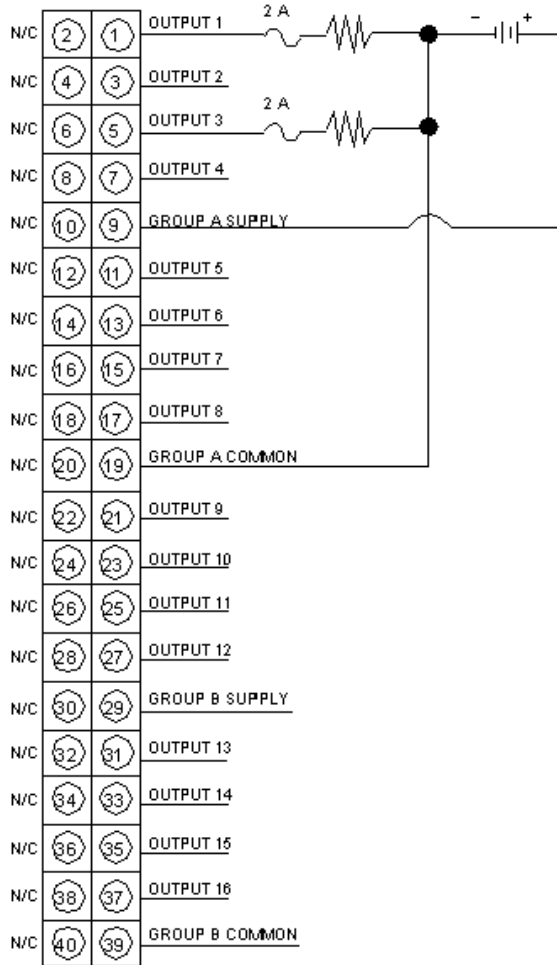
Dimensions of Modules and Racks



- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

10...60 Vdc Discrete Output Source Module

Wiring Diagram



N/C Not Connected