

Product data sheet

Specifications



power supply module Modicon Quantum - 48..60 V DC - redundant

140CPS42400C

-  **Discontinued on:** May 11, 2021
-  **To be end-of-service on:** Dec 31, 2029

 **Discontinued**

Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	Power supply module
Power Supply Type	Redundant

Complementary

Input Voltage	48...60 V 48...60 V) DC
Input Current	3800 mA
Inrush Current	14 A 40 V
Maximum Input Power Interruption	13 ms 48 V
Associated Fuse Rating	2 A, time-lag
Output Voltage	5.1 V DC
Power Supply Output Current	8 A redundant
Output Overvoltage Protection	Internal
Output Overload Protection	Internal
Power Dissipation	17.2 W
Alarm Output	1 NC 6 A 220 V power supply fault
Local Signalling	for power (PWR OK) 1 LED (green)
Marking	CE
Module Format	Standard
Net Weight	1.43 lb(US) (0.65 kg)

Environment

Protective Treatment	Conformal coating Humiseal 1A33
Standards	UL 508 CSA C22.2 No 142
Product Certifications	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)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Relative Humidity	95 % without condensation
Operating Altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	18155-QUANTUM I/O & POWER SUPPLIES
Discount Schedule	PC21
Gtin	3595861137172
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.97 in (5.0 cm)
Package 1 Width	6.50 in (16.5 cm)
Package 1 Length	12.40 in (31.5 cm)
Package 1 Weight	29.17 oz (827.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	3.65 lb(US) (1.654 kg)
Package 3 Height	11.81 in (30 cm)

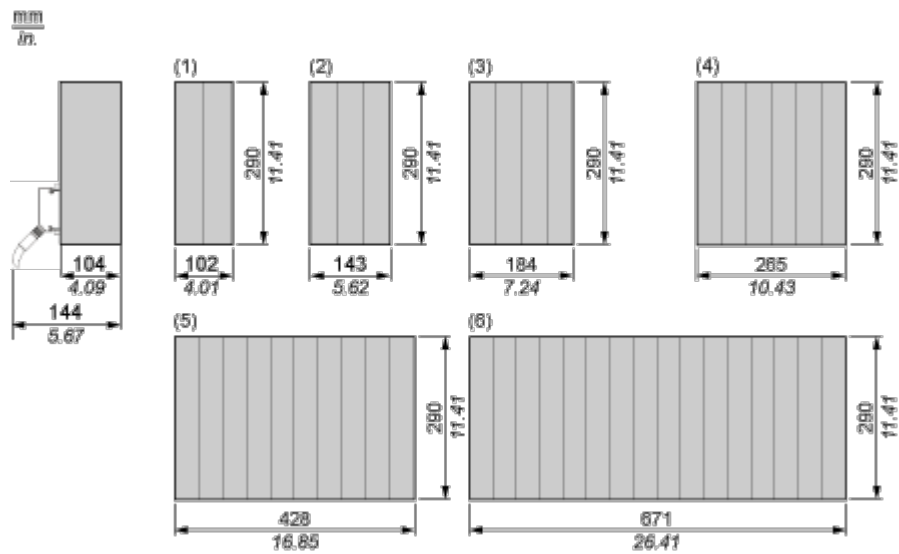
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

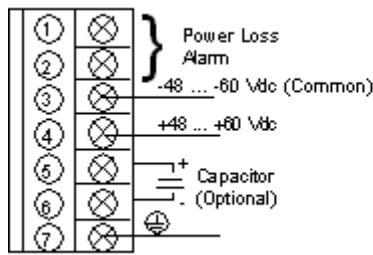


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

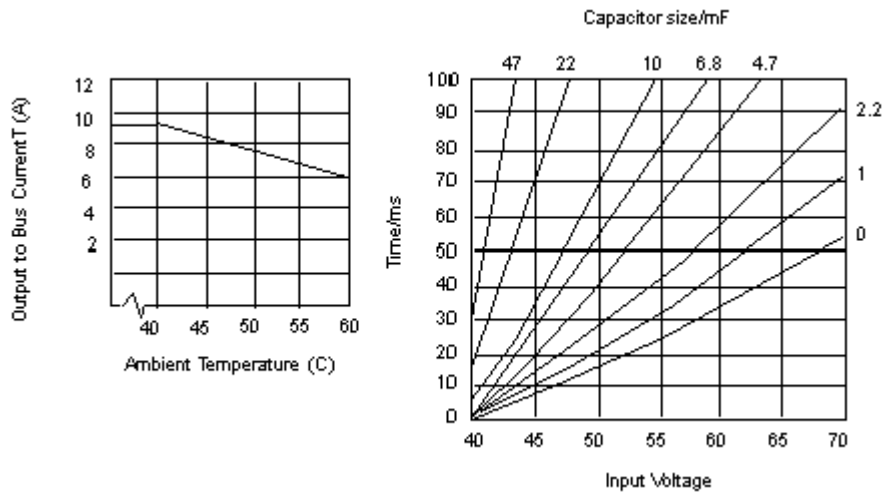
48 Vdc/8 A Redundant Power Supply Module

Wiring Diagram



NOTE: A normally closed relay contact rated at 220 Vac, 6A / 30 Vdc, 5A is available on terminals 1 and 2 of the power terminal strip. This contact set may be used to signal input power OFF, or a power supply failure.

Operating Curve and Hold-up Capacitor Timing Chart



NOTE: Tolerance to input interruptions may be increased by adding a ≥ 80 Vdc electrolytic capacitor between 5 and 6 of the power terminal strip. Refer to the hold-up capacitor timing chart (above) for capacitor values.