

Product data sheet

Specifications



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

140CPS42400C

- ⚠ Discontinued on: 31 December 2021
- ⚠ To be end-of-service on: 31 December 2029

⚠ Discontinued - Service only

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	1 LED (green) for power (PWR OK)
Marking	CE
Module format	Standard
Net weight	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 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

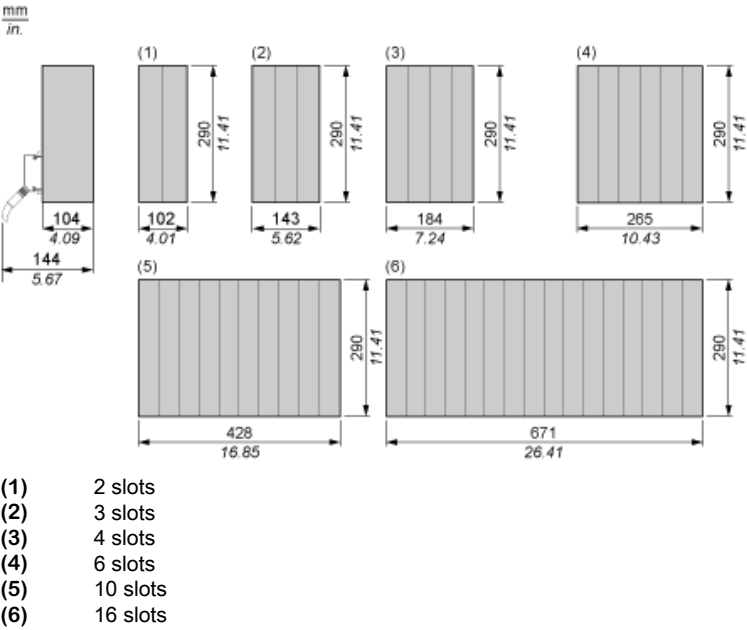
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	16.5 cm
Package 1 Length	31.5 cm
Package 1 Weight	827.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	1.654 kg
Package 3 Height	30 cm

Contractual warranty

Warranty	18 months
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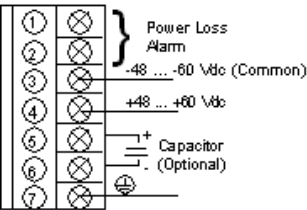
Racks for Modules Mounting

Dimensions of Modules and Racks



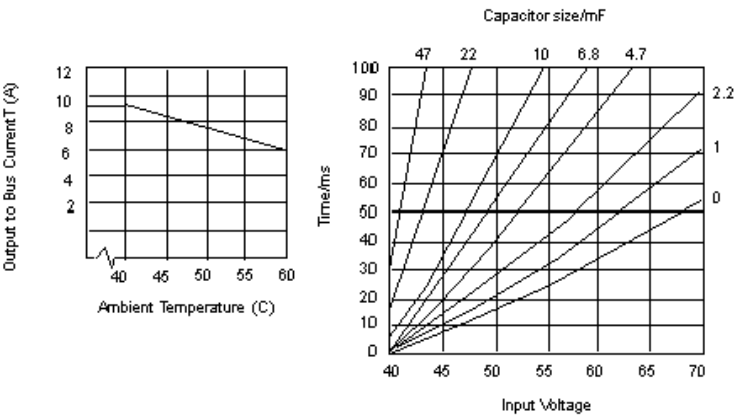
48 Vdc/8 A Redundant Power Supply Module

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.

Recommended replacement(s)

140CPS42400C is replaced by:

1x



redundant power supply module X80 - 24..48 V DC -for severe environments
BMXCPS4022H