

# Product data sheet

Specifications



## power supply module Modicon Quantum - 24 V DC 20..30 V - summable

140CPS21400

! To be discontinued on: 31 December 2022

! To be end-of-service on: 31 December 2030

! To be discontinued

### Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range of product          | Modicon Quantum automation platform |
| Product or component type | Power supply module                 |
| Power supply type         | Summable                            |

### Complementary

|                                  |  |
|----------------------------------|--|
| Input voltage                    | 24 V (20...30 V) DC  |
| Input current                    | 3800 mA  |
| Inrush current                   | 14 A 20 V<br>25 A 24 V                                       |
| Maximum input power interruption | 100 ms<br>1 ms 20 V  |
| Associated fuse rating           | 5 A, slow-blow   |
| Output voltage                   | 5.1 V DC   |
| Power supply output current      | 8 A summable   |
| Output overvoltage protection    | Internal   |
| Output overload protection       | Internal   |
| Power dissipation                | 6 + (1.8 x I <sub>out</sub> ) where I <sub>out</sub> is in A |
| 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

|                                       |   |
|---------------------------------------|---|
| Standards                             | CSA C22.2 No 142<br>UL 508  |
| Product certifications                | cUL<br>FM Class 1 Division 2  |
| Resistance to electrostatic discharge | 4 kV contact conforming to IEC 801-2<br>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             | 789 g    |
| Package 1 Height             | 4.57 cm  |
| Package 1 width              | 16.41 cm |
| Package 1 Length             | 30.95 cm |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 7        |
| Package 2 Weight             | 6169 g   |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Unit Type of Package 3       | P12      |
| Number of Units in Package 3 | 168      |
| Package 3 Weight             | 157056 g |
| Package 3 Height             | 950 mm   |
| Package 3 width              | 800 mm   |
| Package 3 Length             | 1200 mm  |

## Offer Sustainability

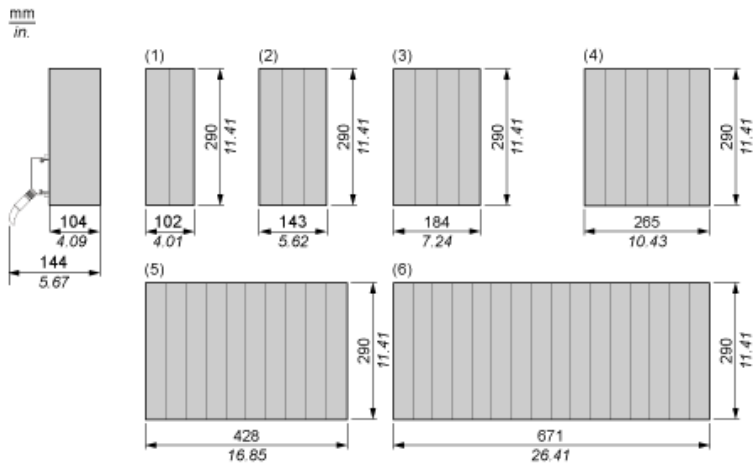
|                            |   |
|----------------------------|---|
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

**Racks for Modules Mounting**

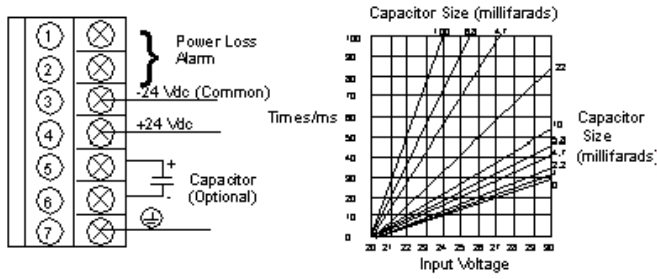
**Dimensions of Modules and Racks**



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

**24 Vdc/8 A Summable Power Supply Module**

**Wiring Diagram and Hold-up Capacitor Timing Chart**



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. The relay will de-energize when input power drops below 8 Vdc.

**Recommended replacement(s)**

140CPS21400 is replaced by:

1x



power supply module X80 - 24..48 V DC - 31.2 W  
BMXCPS3020