# Product data sheet

Specifications



## discrete input module Modicon Quantum - 32 I - 230 V AC

140DAI75300

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** | VAC discrete input modules |
| **Software name** | Concept<br>Unity Pro<br>ProWORX 32 |
| **Discrete input number** | 32 |

## Complementary

| | |
|---|---|
| **Group of channels** | 4 |
| **Addressing requirement** | 2 input words |
| **Discrete input voltage** | 230 V AC |
| **Input current** | 11.5 mA at 57...63 Hz<br>9.7 mA at 47...53 Hz |
| **Voltage state 1 guaranteed** | 165...264 V AC at 57...63 Hz<br>175...264 V AC at 47...53 Hz |
| **Voltage state 0 guaranteed** | 0...40 V AC at 57...63 Hz<br>0...40 V AC at 47...53 Hz |
| **Input impedance** | 26500 Ohm capacitive at 57...63 Hz<br>31800 Ohm capacitive at 47...53 Hz |
| **Network frequency limits** | 47…63 Hz |
| **Maximum leakage current** | 2.6 mA |
| **Absolute maximum input** | 264 V continuous<br>312 V 10 s<br>400 V 1 cycle |
| **Response time** | 4.9...0.75 ms x line cycle Off-On<br>7.3...12.3 ms On-Off |
| **Isolation between group** | 1780 Vrms for 1 minute |
| **Isolation between group and bus** | 1780 Vrms for 1 minute |
| **Bus current requirement** | 250 mA |
| **Maximum power dissipation in W** | 5 W |
| **Local signalling** | 1 LED (green) for bus communication is present (Active)<br>1 LED (red) for external fault detected (F)<br>32 LEDs (green) for input status |

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

| | |
|---|---|
| **Marking** | CE |
| **Module format** | Standard |
| **Net weight** | 0.3 kg |

## Environment

| | |
|---|---|
| **Standards** | CSA C22.2 No 142<br>UL 508 |
| **Product certifications** | FM Class 1 Division 2<br>cUL |
| **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** | 513.5 g |
| **Package 1 Height** | 4.7 cm |
| **Package 1 width** | 16.4 cm |
| **Package 1 Length** | 31 cm |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 7 |
| **Package 2 Weight** | 4.03 kg |
| **Package 2 Height** | 30 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)<br>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 |

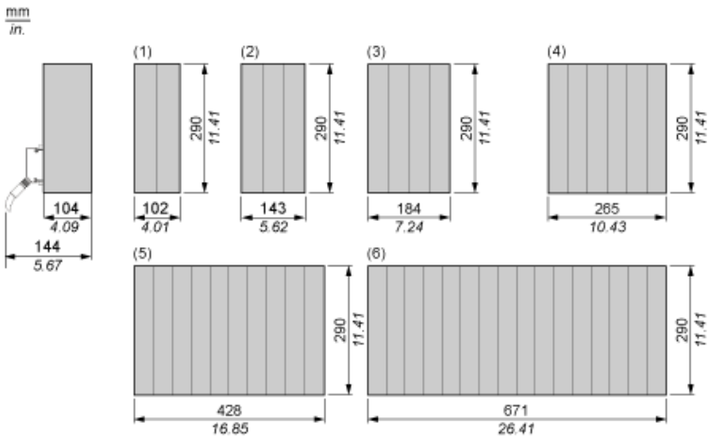
| | |
|---|---|
| **California proposition 65** | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

## Contractual warranty

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

## Racks for Modules Mounting

### Dimensions of Modules and Racks



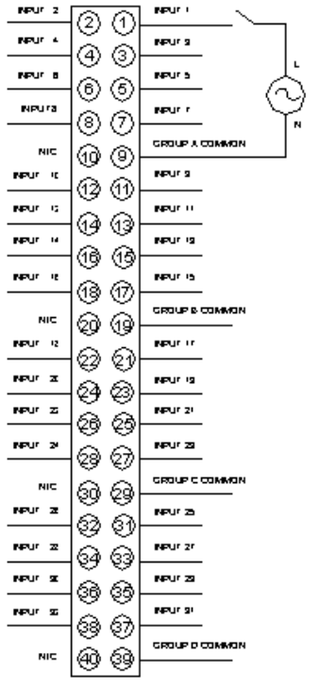

**(1)** 2 slots
**(2)** 3 slots
**(3)** 4 slots
**(4)** 6 slots
**(5)** 10 slots
**(6)** 16 slots

# Product data sheet 140DAI75300

Connections and Schema

## 230 Vac Discrete Input Module

### Wiring Diagram




**N/C** Not Connected

### Recommended replacement(s)

140DAI75300 is replaced by:

1x 

discrete input module X80 - 8 inputs - 200...240 V AC

BMXDAI0805