

Product data sheet

Characteristics

140DDM39000

discrete I/O module Modicon Quantum - 16 I - 24 V DC - 8 O solid state



Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 1283.00 USD



Main

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|---------------------------|-------------------------------------|
| Commercial Status | Commercialised |
| Range of product | Modicon Quantum automation platform |
| Product or component type | Mixed discrete I/O module |
| Discrete I/O number | 24 |

Complementary

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|----------------------------|---|
| Discrete input number | 16 2 groups of 8 |
| Discrete input logic | Sink |
| Addressing requirement | 0.5 output word 1 input word |
| Network frequency limits | 47...63 Hz |
| Discrete input voltage | 24 V DC |
| Input voltage limits | <= 1 V during 10 s <= 1 V during one cycle 30 V 56 V during 1.3 ms |
| Voltage state 0 guaranteed | -3...5 V |
| Voltage state 1 guaranteed | 15...30 V |
| Current state 0 guaranteed | <= 0.5 mA |
| Current state 1 guaranteed | >= 2 mA |
| Input impedance | 2500 Ohm |
| Discrete output number | 8 2 groups of 4 |
| Discrete output type | Solid state |
| Discrete output logic | Sink |
| Discrete output voltage | 24 V |
| Output voltage limits | 56 V DC during 1.3 ms 19.2...30 V DC typical |
| Maximum load current | <= 4 A per module <= 2 A per group <= 0.5 A per point |
| Voltage drop | 0.4 V 0.5 A |
| Absolute maximum output | 5 A during 500 µs per point |
| Load inductance | 500 mH 4 Hz |
| Load capacitance | <= 50 µF |
| Leakage current | 0.4 mA 30 V DC |

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| Response time on output | <= 1 ms at state 1 to state 0 <= 1 ms at state 0 to state 1 |
| Protection type | Internal output protection by 5 A fuse per group On input by resistor limited On output by transient voltage suppression |
| Associated fuse rating | 5 A per group |
| Isolation between group | 500 Vrms for 1 minute |
| Isolation between group and bus | 1780 Vrms for 1 minute |
| Fault indication | Blown fuse on output Loss of field power on output |
| Power dissipation | 1.75 W + (0.36 x input point on) + (1.1 total output load current) |
| Local signalling | 2 LEDs red fault detected on the output point 2 LEDs red fault detected on the input point 2 LEDs green output is turned on 1 LED red no voltage in output and input (F) 1 LED green bus communication is present (Active) |
| Marking | CE |
| Bus current requirement | 330 mA |
| Product weight | 0.66 lb(US) (0.3 kg) |

Environment

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|---------------------------------------|---|
| Resistance to electrostatic discharge | 8 kV on air conforming to IEC 801-2 4 kV contact conforming to IEC 801-2 |
| Resistance to electromagnetic fields | 9.14 V/yd (10 V/m) 80...1000 MHz conforming to 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) |
| Relative humidity | 95 % without condensation |
| Operating altitude | <= 16404.2 ft (5000 m) |
| Standards | CSA C22.2 No 142 FM Class 1 Division 2 UL 508 |
| Product certifications | CUL |

Ordering and shipping details

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|-----------------------|---|
| Category | 18155 - QUANTUM I/O & POWER SUPPLIES |
| Discount Schedule | PC21 |
| GTIN | 00785901013976 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.92 |
| Product availability | Non-Stock - Not normally stocked in distribution facility |
| Returnability | Y |
| Country of origin | CN |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS | Compliant - since 0840 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available Download Product Environmental Profile |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

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| Period | 18 months |
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