



Main

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|---------------------------|-------------------------------------|
| Range of product | Modicon Quantum automation platform |
| Product or component type | Unity processor |

Complementary

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|-----------------------------------|---|
| Clock frequency | 66 MHz |
| Number of slots | 16 4 10 6 2 |
| Number of racks | 2 - local rack(s) |
| Number of distributed I/O station | 63 station(s) - 1 rack(s) - 3 Modbus Plus network(s) |
| Number of remote I/O station | 31 - 2 S908 remote I/O rack(s) 0 - 0 ethernet remote I/O rack(s) |
| Discrete I/O number | 8000 inputs, 8000 outputs - distributed - per network Modbus Plus Unlimited (26 slots max) - local 31744 inputs, 31744 outputs - remote |
| Analogue I/O number | Unlimited (26 slots max) - local 1984 inputs, 1984 outputs - S908 remote I/O 500 inputs, 500 outputs - distributed - per network Modbus Plus |
| Application specific I/O | High-speed interrupt inputs Serial link Counter Accurate time stamping |
| Number of optional modules | 6 (Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max) |
| Maximum number of connections | 2 (AS-Interface) - distributed 2 (Modbus) - RS232/485 Modbus/ASCII 4 (AS-Interface) - remote 6 (Ethernet TCP/IP) - local 6 (Modbus Plus) - local 6 (Profibus DP) - local |
| Integrated connection type | 1 Modbus Plus with 2 Modbus with |

140CPU43412UC

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|--------------------------------|---|
| Checks | Process control |
| Memory description | Internal RAM 1056 kB |
| Switch function | Key switch memory start/stop memory protection Slide switch communication port : ASCII/RTU/Memory |
| Application structure | 1 cyclic/periodic master task - 1 periodic fast task - 16 timer interrupt tasks - 64 I/O interrupt tasks - 64 interrupt tasks - No auxiliary task - |
| Execution time per instruction | 0.1...0.27 μ s floating points 0.1...0.27 μ s on fixed-point arithmetic 0.12...0.585 μ s Boolean 0.12...0.585 μ s on word |
| Number of instructions per ms | 1.86 Kinst/ms if 100 % Boolean 2.49 Kinst/ms if 65 % Boolean and 35 % numerical |
| System overhead | 1 ms - master task 0.2 ms - fast task |
| Bus current requirement | 1800 mA |
| Local signalling | 1 LED green for communications are active on the Modbus Plus port (Modbus Plus) 1 LED green for communications are active on the Modbus port (Modbus) 1 LED green for CPU has been started and is solving logic (RUN) 1 LED green for CPU has passed the power-up diagnostic tests (READY) 1 LED orange for write-protected memory (memory port) 1 LED red for battery needs replacing or is not present (BAT LOW) 1 LED red for communications error on the Modbus Plus port (ERROR A) |
| Electrical connection | 1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network 2 female connectors, connector type: SUB-D 9 for connecting to the Modbus bus |

Environment

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|------------------------|--|
| Protective treatment | Conformal coating Humiseal 1A33 |
| Product certifications | CE GOST UL Misc (Marine) CSA |
| Standards | HazLoc |

Offer Sustainability

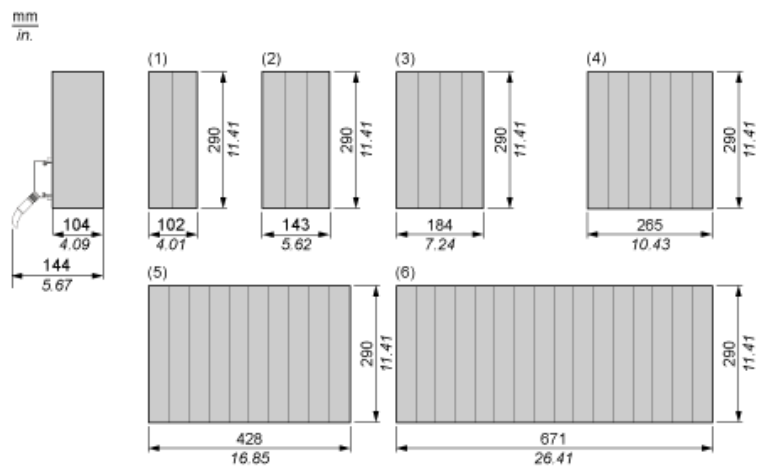
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0948 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Contractual warranty

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

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