**General Specifications**

- **Environmental Air**
  - 5 to 95% (non-condensing)
- **Expansion Modules**
  - 8 expansion modules max.
- **Rack Mounting**
  - DIN mount, 4 required.
- **Humidity**
  - 5 to 95% (non-condensing)
- **Input Voltage Range (Tolerance)**
  - 120-240 VAC
- **Input Power Requirement**
  - 120–240 VAC
- **Input Current**
  - 1.5A, 2ms
- **Input Current (Max Start)**
  -5A
- **Input Voltage**
  - 28-16 AWG
- **Micro fuse 250V, 2A Non-replaceable**
- **Micro fuse 250V, 5A Non-replaceable**
- **Mounting Restrictions**
  - 3.73″ (94.6mm)
  - 1 minute
  - 1500VAC Power Inputs to Ground

**Power Supplied Specifications**

- **Power Input Options**
  - DIN Mount (Single Wire)
  - Link PLC I/O cable, 15-position terminal block to pigtail connector, 24-pin receptacle with integrated self-resetting short circuit protection, 12–20 AWG, 2 meter (6.6 ft.) length, 4 required.
  - Link PLC I/O cable, 15-position terminal block to 24-pin receptacle, 2 meter (6.6 ft.) length, 4 required.
  - Link PLC I/O cable, 15-position terminal block to 24-pin receptacle, 2 meter (6.6 ft.) length, 4 required.
  - Link Two-Level Feedthrough Module. 20 pole, 35mm DIN connection, 24AWG. 2 meter (6.6 ft.) length, 4 required.
  - Link Two-Level Feedthrough Module. 20 pole, 35mm DIN mount, 4 required.
  - Link Two-Level Feedthrough Module. 20 pole, 35mm DIN mount, 4 required.

**CPU Specifications**

- **Flash memory**
- **User Date Memory Type**
  - Battery Backed RAM, User configurable
- **Pluggable Option Module**
  - RS-232, RS-485, Ethernet 10/100 BASE-T
  - 1 Mbps (throughout max), USB 2.0 Type B
- **Expansion Modules**
  - 8 expansion modules max.
- **Real Time Clock Accuracy**
  - ±8s per day max at 60°C
- **Port Status LED**
  - Green LED is illuminated when active (ACT).
  - Red LED is illuminated when active for TXD and RXD.
- **CPU Mode Switch Functions**
  - RUN position CPU is in RUN Mode if no errors are encountered.
  - PROGRAM position CPU is forced into PROGRAM Mode if no errors are encountered.
  - DEBUG position CPU is forced into DEBUG Mode if no errors are encountered.
  - STOP position CPU is forced into STOP Mode.
  - ERROR position CPU is in ERROR Mode.
  - MEM position CPU is in Memory Mode.
  - RUN position CPU is in RUN Mode.
  - PLC Mode Switch Functions
  - Host Mode (Master)
  - Remote Mode (Slave)
  - STOP position CPU is in STOP Mode.
  - PROGRAM position CPU is forced into PROGRAM Mode if no errors are encountered.
  - DEBUG position CPU is forced into DEBUG Mode if no errors are encountered.
  - STOP position CPU is forced into STOP Mode.

**Built-in RS-232/485 Port Specifications**

- **Data Rates**
  - 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200
  - 115200 bps, No Parity, 8 Data Bits, 1 Stop Bit
  - 115200 bps, 8 Data Bits, 1 Stop Bit, 158400 baud
  - 115200 bps, 8 Data Bits, 1 Stop Bit, 256000 baud

**Built-in Ethernet Specifications**

- **Supported Protocols**
  - Do-more Protocol
  - EtherCAT (EtherCAT Protocol)
  - Ethernet (TCP, UDP)
  - EtherCAT (EtherCAT Protocol)
  - Ethernet (TCP, UDP)
  - EtherCAT (EtherCAT Protocol)
  - Ethernet (TCP, UDP)
  - EtherCAT (EtherCAT Protocol)
  - Ethernet (TCP, UDP)
  - Ethernet (TCP, UDP)
  - Ethernet (TCP, UDP)

**TERMINAL Block Options**

- **Pinout**
  - RS-232, RS-485, Ethernet 10/100 BASE-T
  - RJ45, Category 5, 10/100 BASE-T, Auto Crossover

**Warning**

To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

**Equipment Damage or Serious Injury**

Personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-944-4200.

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**Important Note**

Note: This device cannot be Hot Swapped.
**Terminal and Front Panel Layout**

- CPU Mode Switch
- Battery Replacement: Keep in mind that the POM Power Module has a built-in battery. In case of power loss, the battery ensures the POM powers on with the correct configuration. Before inserting the battery, make sure the POM is disconnected from power.
- User-supplied tape required for future battery removal, reuse tape from battery.

**Discrete Input Specifications**

<table>
<thead>
<tr>
<th>Input Type</th>
<th>Total Inputs per Module</th>
<th>20 Total - 20 Standard (B, A19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commons</td>
<td>5 (4 points/common)</td>
<td>Isolated</td>
</tr>
<tr>
<td>Nominal Voltage Range</td>
<td>240–240 VAC</td>
<td></td>
</tr>
<tr>
<td>Maximum Voltage</td>
<td>264 VAC RMS</td>
<td></td>
</tr>
<tr>
<td>AC Frequency</td>
<td>45–65 Hz</td>
<td></td>
</tr>
<tr>
<td>Input Impedance</td>
<td>100Ω</td>
<td></td>
</tr>
<tr>
<td>ON Voltage Level</td>
<td>&gt; 85 VAC</td>
<td></td>
</tr>
<tr>
<td>OFF Voltage Level</td>
<td>&gt; 40 VAC</td>
<td></td>
</tr>
<tr>
<td>Status Indicators</td>
<td>Logic: Side, Green</td>
<td></td>
</tr>
</tbody>
</table>

**Discrete Output Specifications**

<table>
<thead>
<tr>
<th>Output Type</th>
<th>Relay Form A (SPST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Outputs per Module</td>
<td>16 Relay</td>
</tr>
<tr>
<td>Common</td>
<td>4 (4 points/common) Isolated</td>
</tr>
<tr>
<td>Maximum current per common</td>
<td>1A</td>
</tr>
<tr>
<td>Nominal Voltage Range</td>
<td>12–48 VDC, 24–240 VAC</td>
</tr>
<tr>
<td>Maximum Voltage</td>
<td>60VDC, 264VAC</td>
</tr>
<tr>
<td>Minimum Output Current</td>
<td>0.1mA @ 24VAC/DC</td>
</tr>
<tr>
<td>Maximum Output Current</td>
<td>2A</td>
</tr>
<tr>
<td>Maximum Leakage Current</td>
<td>5μA (DC), 500μA (AC) due to RC snubber</td>
</tr>
<tr>
<td>Maximum Switching Frequency</td>
<td>1kHz</td>
</tr>
<tr>
<td>Status Indicators</td>
<td>Logic: Side, Green</td>
</tr>
</tbody>
</table>

**Analog Input Specifications**

- 16 bit @ ±10V, ±20mA
- Software Selectable ±10V, ±5V, 0-10V, 0-5V
- Input Voltage Range* | 10E
- Input Current Range | 0-3
- Input Current Range* | 0-3
- Input Voltage Range* | 0-3

**Analog Output Specifications**

- Outputs per Module | 2 |
- Output Voltage Range* | Software Selectable ±10V, ±5V, 0-10V, 0-5V |
- Minimum Voltage Load Impedance | 1kΩ |
- Output Current Range* | Software Selectable ±20mA, 4-20 mA |
- Maximum Current Load Impedance | 50Ω |
- Settling Time | 10 ms |
- Resolution | 16 bit @ ±10V, ±20mA |

*Software selectable per channel.

**Analog Current Sinking Input Circuits**

- 2-Wire 4-20 mA Transmitter
- 3-Wire Current Transmitter
- 4-Wire Transmitter

**Analog Output Wiring**

- Current Source Output
- Voltage Output
- Load Supply Power

**Analog Voltage Input Circuits**

- 4-Wire Transmitter
- 3-Wire Voltage Transmitter
- 3-Wire Transmitter

**I/O Wiring**

- Discrete Input Wiring
- Discrete Output Wiring

**Supply Power Wiring**

- AC Power 120–240 VAC
- 24VDC

**I/O Terminal Blocks sold separately.** *(See Terminal Block Connection Options table).**