### General Specifications

- **Operating Temperature**: -20°C to 55°C (-4°F to 131°F)
- **Storage Temperature**: -25°C to 80°C (-13°F to 176°F)
- **Humidity**: 5% to 95% (non-condensing)
- **Environmental Air**: No corrosive gases permitted|
- **Vibration**: IEC68-2-6 (Test F)
- **Shock**:
  - Test Type IEC68-2-27 (Test E)
  - Category IEC EN60950-1:2014

*Requires EMC and Safety requirements. See the D.O.C. for details.

### Power Supply Specifications

<table>
<thead>
<tr>
<th>Nominal Voltage Rating</th>
<th>120-240 VAC</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Input Voltage Range (Tolerance)</th>
<th>85-264 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Operating Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Maximum Input Power</td>
<td>40VA</td>
</tr>
<tr>
<td>Cold Start Inrush Current</td>
<td>1.5A, 3xIN</td>
</tr>
<tr>
<td>Internal Input Protection</td>
<td>Micro fuse 20VA, Non-replaceable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Peaking Discharge</th>
<th>17.6W Maxwell</th>
</tr>
</thead>
</table>

| Insulated User 24VDC Output | 24VDC, 0.3A max, +/1V P-P Ripple, integrated self-resetting short circuit protective device |

| Voltage Withstand (dielectric) | 1500VAC Ground to 24VDC applied for 0.5 second |

| Terminal Block Connection Options |

### CPU Specifications

- **Flash Memory**: User programmable, language selectable
- **User Data Memory**: Battery backed RAM, user configurable

<table>
<thead>
<tr>
<th>Programmable Option Module</th>
<th>RS-232, RS-485, Ethernet 10/100 Base-T/EtherCAT, 1-Mbps 2.0 Type B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Expansion Modules</td>
<td>2 expansion modules max</td>
</tr>
</tbody>
</table>

### Terminal Block Connection Options

<table>
<thead>
<tr>
<th>BX-RTB18</th>
<th>Terminal Block Kit, 90-degree screw type. Fits all BXK 18-pin plug-in PLCs. Includes (5) 6-pin plug-in modules, (3) 3-pin plug-in modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>BX-RTB18-1</td>
<td>Terminal Block Kit, 90-degree crimping clamp type. Fits all BXK 18-pin plug-in PLCs. Includes (6) 3-pin plug-in modules, (2) 2-pin plug-in modules, (3) 3-pin plug-in modules</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ZL-BX-CBL15</th>
<th>ZILP PLC I/O cable, 15-pin terminal block to 24-pin connector, 24AWG, 0.5 meter (1.6 ft.), 2 required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZL-BX-CBL15-5</td>
<td>ZILP PLC I/O cable, 15-pin terminal block to 24-pin connector, 24AWG, 1 meter (3.3 ft.), 2 required</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ZL-BX-CBL-15</th>
<th>ZILP PLC I/O cable, 15-pin terminal block to 24-pin connector, 24AWG, 2 meter (6.6 ft.), 2 required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZL-BX-CBL-15-5</td>
<td>ZILP PLC I/O cable, 15-pin terminal block to 24-pin connector, 24AWG, 2 meter (6.6 ft.), 2 required</td>
</tr>
</tbody>
</table>

### CPU Mode Switch Functions

- **RUN position**: CPU is forced into RUN Mode if no errors are encountered. In this mode, the module can be configured through the Do-more! Designer Software.
- **STOP position**: CPU is forced into STOP Mode.

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

- **Port Name**: RS232, RS485
- **Transfer Rate**: 10Mbps (Yellow LED) and 100Mbps (Green LED)
- **LED**: Green LED is illuminated when active for TXD and RXD
- **Pinout**: 1 RX, 2 TX, 3 GND
- **Note**: When using RS-485, a resistor is built-in and software selectable.

### Built-in Ethernet Specifications

- **Port Name**: ETHERNET
- **Description**: Standard transformer isolated Ethernet port with built-in surge protection
- **Built-in Ethernet Port Specifications**:
  - **Port Type**: 3-pin terminal strip, 3.5mm pitch
  - **Port LED**: Green LED is illuminated when active for TXD and RXD
  - **Data Rates**: 120, 240, 480, 960, 1920, 3840, 57600, and 115200

### Transmission Module Specifications

- **Switch Functions**:
  - **CPU Status Indicators**:
    - **ERR OFF**: CPU functioning normally
    - **Monitor OFF**: CPU with no hardware error, or firmware detection error
    - **RX On**: CPU in RX Mode
    - **RX OFF**: CPU not in RX Mode
  - **Connector**:
    - **Host ECOM**: EtherCAT (DirectLogic), HTTP
    - **EtherCAT**: DirectLogic, HTTP
    - **EtherCAT**: DirectLogic, HTTP
    - **EtherCAT**: DirectLogic, HTTP
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### Terminal Blocks sold separately.

- **Note**: When using RS-485, a resistor is built-in and software selectable.

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**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 to 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 770-844-4200.

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*Note*: This device cannot be Hot Swapped.

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