Notes and Warnings

Installation, configuration and maintenance must be carried out by qualified technicians only. You must have detailed information to be able to carry out this work. This information can be found in the user manuals.

• Unexpected dangers may be encountered when working with this product!
• Incorrect use may destroy this product and connected components!

The user manuals are not included. You can obtain them from the Internet at: http://motion.schneider-electric.com.

Getting Started

All documentation, software, program examples and resources are available online at: motion.schneider-electric.com.

Connecting Power and I/O

Your MDrive is configured with Power and I/O on 12" flying leads. Please refer to the opposite side of this document for connecting details and available connectivity options.

Connecting Communications — RS-422/485

1. Connect RS-422/485 communications converter to MDrive and PC.
2. Install the communication converter drivers onto PC (available online).
3. Connect control signals to inputs on the converter (shown below).
4. Apply power to MDrive.
5. Within Motion Control Programmer, click into the Terminal Window (shown below).
6. Key in CTRL+C. The MDrive sign-on message: “Copyright 2001-2017 by Schneider Electric Motion USA.” should appear, verifying that communications is active.

Mechanical Specifications

All documentation, software, program examples and resources are available online at: motion.schneider-electric.com.
MDrive 34
Motion Control Connectivity Options

P1 I/O & Power

Flying leads

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>White/Yellow</td>
<td>I/O1</td>
</tr>
<tr>
<td>White/Orange</td>
<td>I/O2</td>
</tr>
<tr>
<td>White/Violet</td>
<td>I/O3</td>
</tr>
<tr>
<td>White/Blue</td>
<td>I/O4</td>
</tr>
<tr>
<td>Green</td>
<td>Analog In</td>
</tr>
<tr>
<td>Black</td>
<td>Ground</td>
</tr>
<tr>
<td>Red</td>
<td>+V</td>
</tr>
</tbody>
</table>

Connector Style Function

Flying Leads.......................... I/O and Power
10-pin IDC................................ Communications
10-pin Wire Crimp....................... Communications

Mating Connector Kit p/n: CK-01
Use to make your own cables, kit contains 5 mating connector shells with crimp pins. Hirose crimp tool recommended.

IDC Parts Shell: SAMTEC TCSD-05-01-N
Ribbon Cable: AMP 1-57051-9

P2 Communications — RS-422/485

10-pin IDC

<p>|</p>
<table>
<thead>
<tr>
<th>TX</th>
<th>RX</th>
<th>Aux-Logic</th>
<th>TX</th>
<th>RX</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
<td>4</td>
<td>5</td>
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<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>Comm Gnd</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Communications Converter p/n: MD-CC400-001
Electrically isolated in-line USB to RS-422/485 converter pre-wired with mating connector to conveniently program and set configuration parameters.

Prototype Development Cable p/n: PD10-1434-FL3
Speed test and development with pre-wired mating connector. Recommended for multi-drop systems, can be used in conjunction with the MD-CC402-001.

Wire Colors Function

White/Red Stripe | Aux-Logic |
White/Blue Stripe | TX+ |
Blue/White Stripe | TX- |
White/Orange Stripe | RX+ |
Orange/White Stripe | RX- |
Green/White Stripe | GND |

Terminal End: In-line Converter 6.0' (1.8m)

Flying leads terminated by crimp pins for multidrop connection (see product manual)

Mating Connector Kit p/n: CK-02
Use to make your own cables, kit contains 5 mating connector shells with crimp pins. Hirose crimp tool recommended.

Hirose Parts Shell: DF11-10DS-2C
Pins: DF11-2428SC

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