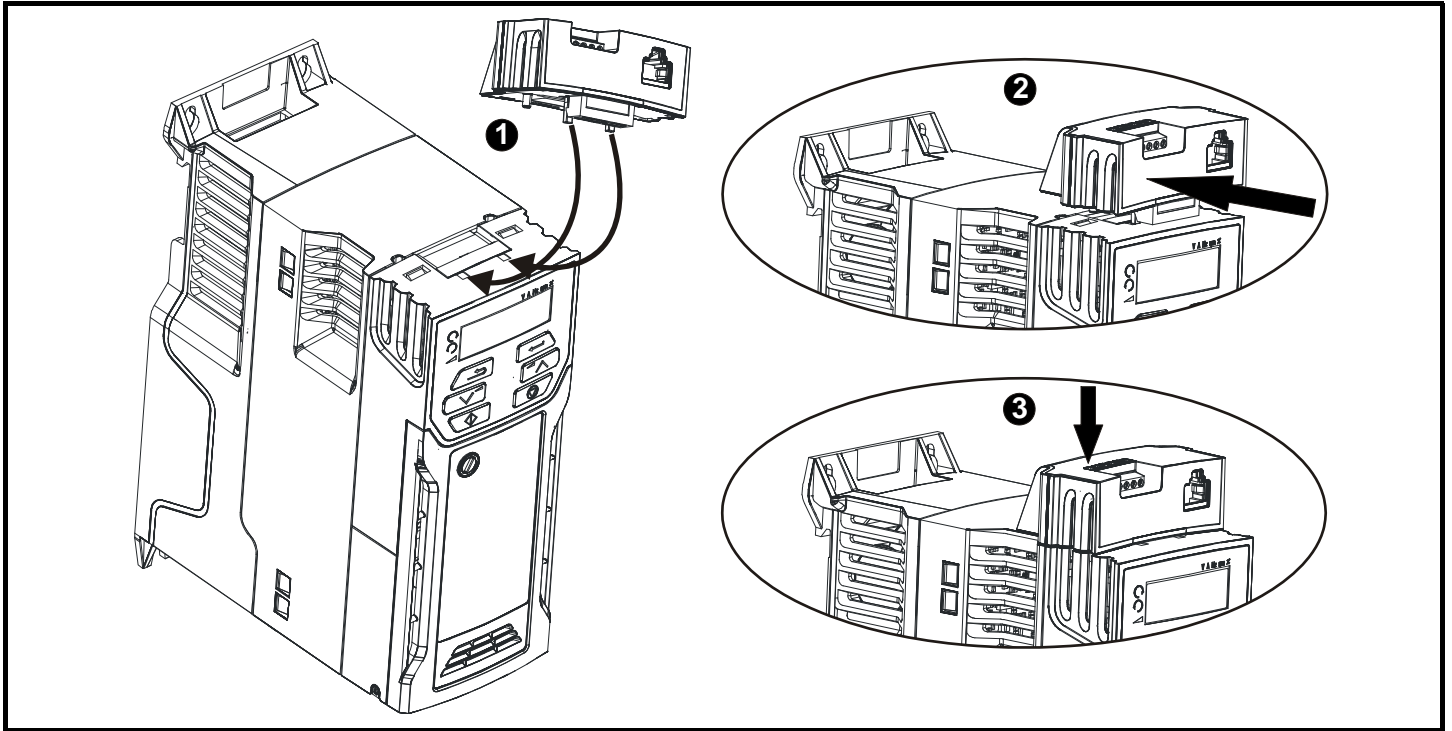


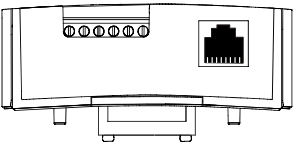
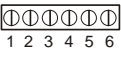
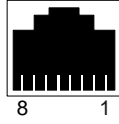
AI-485 24V Adaptor Installation Sheet

1 Installing the AI-485 24V Adaptor

The AI-485 24V Adaptor is a pluggable option installed to the top of a drive as shown in Figure 1-1.

Figure 1-1 Mounting the AI-485 24V Adaptor to the drive (size 2 shown).



Module	Terminal information																																				
 <p>AI-485 24V Adaptor</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>1 2 3 4 5 6</p> </div> <div style="text-align: center;">  <p>8 1</p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Term.</th> <th>Function</th> <th>Pin</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0 V</td> <td>1</td> <td>120 Ω Termination resistor</td> </tr> <tr> <td>2</td> <td>RX\ TX\</td> <td>2</td> <td>RX TX</td> </tr> <tr> <td>3</td> <td>RX TX</td> <td>3</td> <td>0 V</td> </tr> <tr> <td>4</td> <td>120 Ω Termination resistor (if termination is required, link to pin 2)</td> <td>4</td> <td>+24 V user output (100 mA)</td> </tr> <tr> <td>5</td> <td>TX Enable</td> <td>5</td> <td>Not connected</td> </tr> <tr> <td>6</td> <td>+24 V user backup supply input (up to 600 mA). Voltage range is 24 Vdc ±20 %</td> <td>6</td> <td>TX enable</td> </tr> <tr> <td></td> <td></td> <td>7</td> <td>RX\ TX\</td> </tr> <tr> <td></td> <td></td> <td>8</td> <td>RX\ TX\ (if termination resistors are required, link to pin 1)</td> </tr> </tbody> </table>	Term.	Function	Pin	Function	1	0 V	1	120 Ω Termination resistor	2	RX\ TX\	2	RX TX	3	RX TX	3	0 V	4	120 Ω Termination resistor (if termination is required, link to pin 2)	4	+24 V user output (100 mA)	5	TX Enable	5	Not connected	6	+24 V user backup supply input (up to 600 mA). Voltage range is 24 Vdc ±20 %	6	TX enable			7	RX\ TX\			8	RX\ TX\ (if termination resistors are required, link to pin 1)
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		8	RX\ TX\ (if termination resistors are required, link to pin 1)																																		

NOTE

The expected life of the adaptor is **600** insertions into the drive.

NOTE

Recommend gG fuse rated at 1 A, 50 Vdc or a current-limiting power supply should be used. The power supply must be limited to 3 A continuous.

NOTE

Any option modules connected to the 6-way terminal block will not receive a 24 Vdc power supply when attached to the drive which is powered from the AC mains supply only (for example, a remote keypad will remain un-powered if connected to the terminal block and 24 Vdc input is not connected to terminal 6. To power up the remote keypad, it must be connected to the RJ45 connector instead.

If the 24 Vdc user backup supply is connected at the same time on the terminals, then the remote keypad can be powered either via the RJ45 connector or the terminal block).

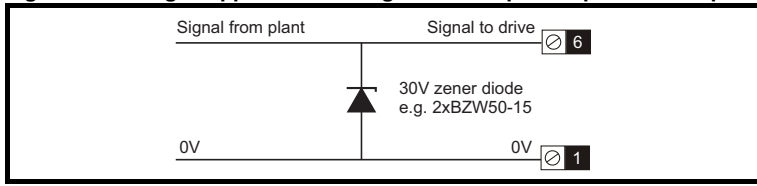


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NOTE

The 24 Vdc user backup supply input is intended for use with a local power supply which is not directly connected to a DC distribution network. It offers immunity to electrical surges as for signal ports, according to IEC 61000-6-2. If this input is to be connected to a 24 Vdc distribution network, for example one which supplies machines and/or has cable lengths exceeding 30 m, it is recommended that additional protection against surges be provided, as shown in figure 1-2 below.

Figure 1-2 Surge suppression for digital and unipolar inputs and outputs



NOTE

This device complies with the requirements for conducted RF emissions according to CISPR11:2003, C3.1 level. However, in the case of an electromagnetically sensitive environment, additional common-mode filters (ferrite rings) may be required for the 24 Vdc user backup supply cable as well as the RS-485 communications cable, next to the device's terminals.

