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Section 3 – Installation

3.1 Typical Installation Example

Refer to the following diagrams for typical installation information.

Figure 3-1. Field Power

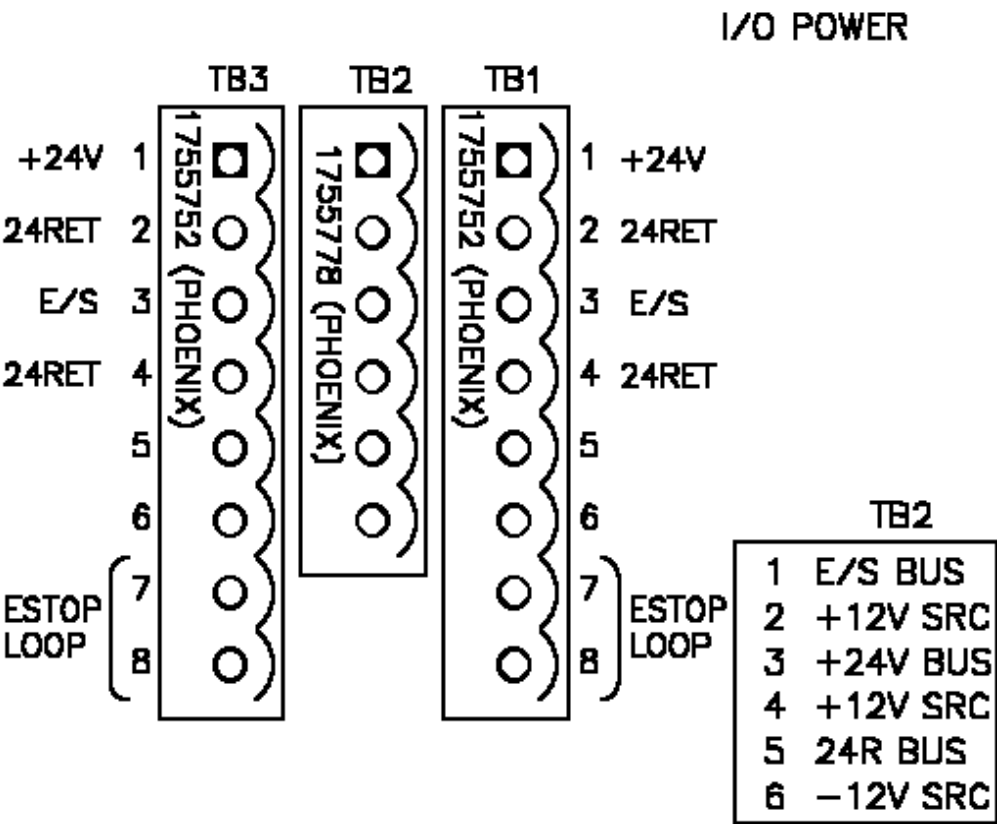
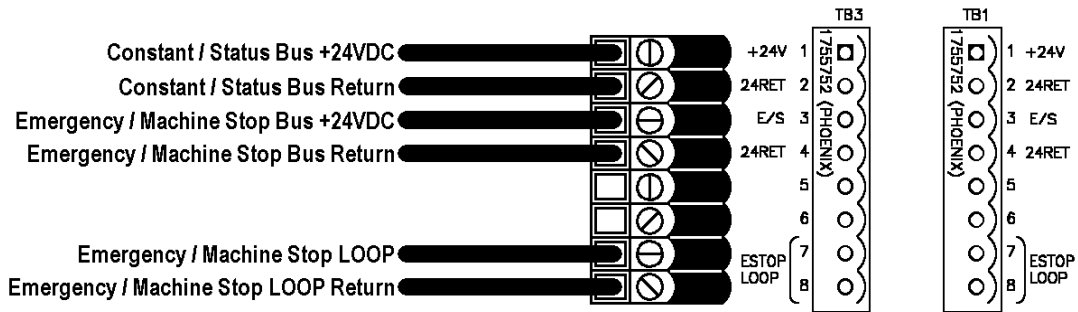
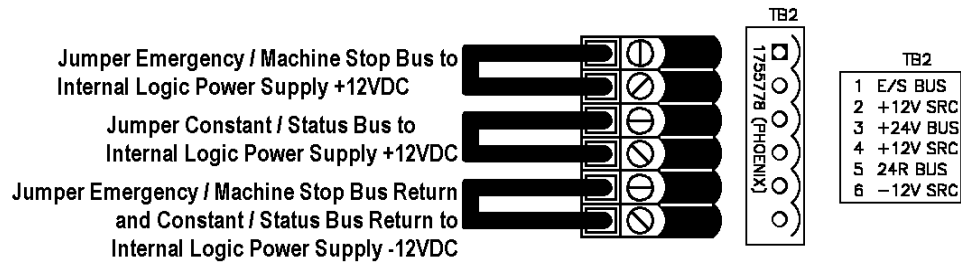


Figure 3-2 Field Power from External Power Bus Control System



Note: ESTOP LOOP will open whenever the Media Pro's Power is OFF,
E/S LOOP isolated contact should not exceed 250ma@24vdc.

Figure 3-3 Field Power from Internal Logic Supply



Note: If the Internal Logic Power Supply is Jumpered to the Constant/ Status, and Emergency / Machine Stop Buses, there is insufficient power on the 24VDC busses for Power Output Modules (AOM, ASM, IOM).

3.2 Keying and Connector Information

To prevent tying Internal and External Power together, Phoenix terminal socket TB2 cannot be connected at the same time as TB1 & TB3.

TB1 & TB3 can both be used at the same time to chain power to multiple racks.

Figure 3-2a. HMR-4000 TB1 & TB3 Pinout Information

Pin	Function
1	+24VDC Field Power, Constant Bus Input
2	Return for 24VDC Constant Bus Input
3	+24VDC Field Power, Emergency Stop Bus Input
4	Return for 24VDC Emergency Stop Bus Input
5	Unused
6	Unused
7	Emergency Stop Loop
8	Return for Emergency Stop Loop

Figure 3-2b. HMR-4000 TB2 Pinout Information

Pin	Function
1	Emergency Stop Bus Input
2	+12vdc from Internal Logic Supply
3	Constant Bus Input
4	+12vdc from Internal Logic Supply
5	Return for Constant & Emergency Stop Buses
6	-12vdc from Internal Logic Supply

3.3 Support Tools and Part Numbers

The following connectors or equivalents may be used:

Parts for HMR-4000	Number
8 Pin Phoenix connector (24-12AWG)	MSTB2,5/8-ST-5,08 : 1757077
6 Pin Phoenix connector (24-12AWG)	MSTB2,5/6-ST-5,08 : 1757051
2 Pin Phoenix connector (24-12AWG)	MSTB2,5/2-ST-5,08 : 1757019

Parts for HMR-4000	Number
Din48F connector (Z-Rail mount) (Solder Tail)	Harting 09-06-248-6823
Din48F connector (Z-Rail mount) (Wire Wrap)	Harting 09-06-248-6821
Din48F connector (Z-Rail mount) (Crimp Pins required)	Harting 09-06-248-3201
(50) crimp pins (for above connector) 26-20 AWG	Harting 09-06-000-8481
(50) crimp pins (for above connector) 20-16 AWG	Harting 09-06-000-8482
Crimping tool for 26-20 AWG pins	Harting 09-99-000-0076
Crimping tool for 20-16 AWG pins	Harting 09-99-000-0077
Pin Locator (for above crimping tools)	Harting 09-99-000-0086
Crimp Pin Insertion Tool	Harting 09-99-000-0088
Crimp Pin Removal Tool	Harting 09-99-000-0087
*(2) M2.5X6 Screws	*Schroff 21100-146
Code Pin (metal key post)	Harting 09-06-000-9950
Code Pin Insertion Tool	Harting 09-99-000-0103

*These items are packed in bags of 100. Only 2 screws are needed per Module.