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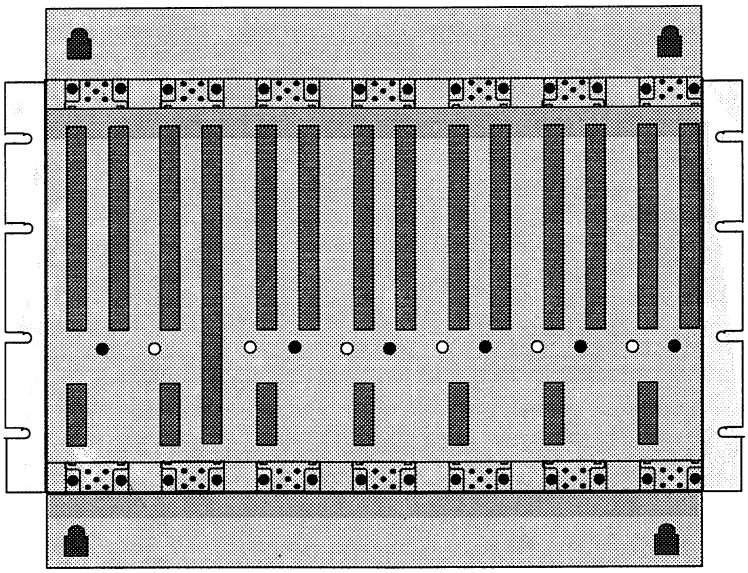
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Modicon H819 and H827 Module Housings Installation Instructions

PI-884A-011 Rev. H



MODICON

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H819 and H827 Module Housings Contain All Components Required to Configure 884 or 984 Programmable Controller Systems Utilizing 800 Series I/O.

Features

- Available in two sizes, 19 inch and 27 inch
- Supports all 800 series I/O modules
- Sturdy, structural foam molded construction
- Wiring troughs protect field wires from stress and breakage
- I/O terminal connectors allow I/O modules to be removed without disturbing field wiring.
- Optional mechanical keying of I/O modules prevents misplacement of modules.

General Description

MODICON's H819 and H827 housings are designed to house all system components for 884 and 984 controllers which utilize 800 series I/O. In addition to providing physical connection of the components, the housings provide electrical connections between components, system grounding, electromagnetic and radio frequency interference shielding.

The H819 Module housing is approximately 19 inches in width. It can be mounted in a standard 19 inch EIA rack, or on the rear panel of a 10 inch (depth) NEMA enclosure. The H819 housing comes equipped with interchangeable side plates which enable rack or panel mounting.

The H827 Module housing is approximately 27 inches in width. It can be mounted on the rear panel of a 10 inch (depth) NEMA enclosure.

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Both the H819 and H827 housings are offered in two types depending on the components required, primary or secondary. Primary racks house Power Supplies, Controllers, Remote I/O Adapters, Option Processors, and I/O modules. Secondary racks house booster power supplies and I/O modules only. Racks are connected via signal (W801) and power (W802, W804 or W808) cables.

A typical 884 Programmable Controller system includes one primary housing (–103 or –107), which contains the P884 power supply, 884 controller, controller options, and I/O modules. The primary housing can then be connected to secondary housings by use of signal (W801) and power (W802, W808) cables. Additional I/O modules, if necessary, are placed in secondary housings. If additional power is required to support the I/O modules, a booster power supply, P810, can be inserted in a secondary rack (first slot). This rack is connected to the previous rack by a W804 power cable. As many as five racks total can be used in an 884 controller system.

A typical 984 Programmable Controller system includes one primary housing (–209), which contains the 984 controller (with built-in power supply), controller options, and I/O modules. The primary housing can then be connected to secondary housings by use of signal (W801) and power (W802, W808) cables. Additional I/O modules, if necessary, are placed in secondary housings. If additional power is required to support the I/O modules, a booster power supply, P810, can be inserted in a secondary rack (first slot). This rack is connected to the previous rack by a W804 power cable. As many as five racks total can be used with a 984-680 system or two racks with a 984-380/480 system.

A typical remote I/O drop includes one primary housing (–103 or –107), which contains the P810 power supply, J810/J890 remote I/O adapter, and I/O modules. The primary housing can then be connected to secondary housings by use of a signal (W801) and power (W802, W808) cables. Additional I/O modules, if necessary, are placed in secondary housings. If additional power is required to support the I/O modules, a booster power supply, P810, can be inserted in a secondary rack (first slot). This rack is connected to the previous rack by a W804 power cable. As many as five racks total can be used in J810/J890 remote I/O drop.

A maximum of 32 I/O modules can be used in any system configuration mentioned above.

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Terminal connectors and wiring troughs are assembled to each slot designated for I/O modules. Field wiring can be connected prior to or after the connector is assembled to the housing. Each terminal connector can accommodate up to two #14 AWG or one #12 AWG wire per point. The wiring trough allows for neat field wire dressing. Once the connector is field wired, it need not be disturbed to insert or remove I/O modules.

The user has the option to implement a unique keying system that physically prevents an improper module from being inserted in a given slot. This is accomplished by arranging pins in the housing to mate with the pattern on the module. The necessary keying pins are shipped with the housing. Data for correct keying for each module type is provided on individual I/O data sheets.

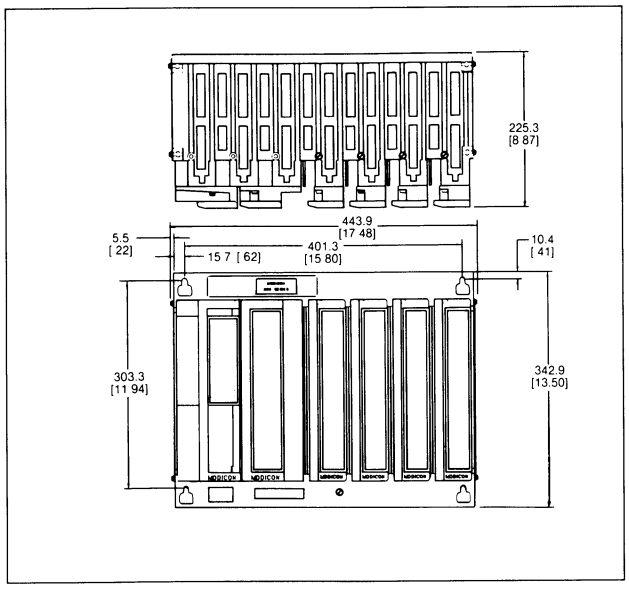
The H819 and H827 housings provide effective shielding from external electromagnetic (EMI) and radio frequency interference (RFI). The backplane of each housing, which electrically interconnects all modules, is protected from EMI and RFI by conductive metal plates.

The housing frames are constructed of a rugged structural – foam molded material, capable of withstanding the stress of a harsh industrial environment.

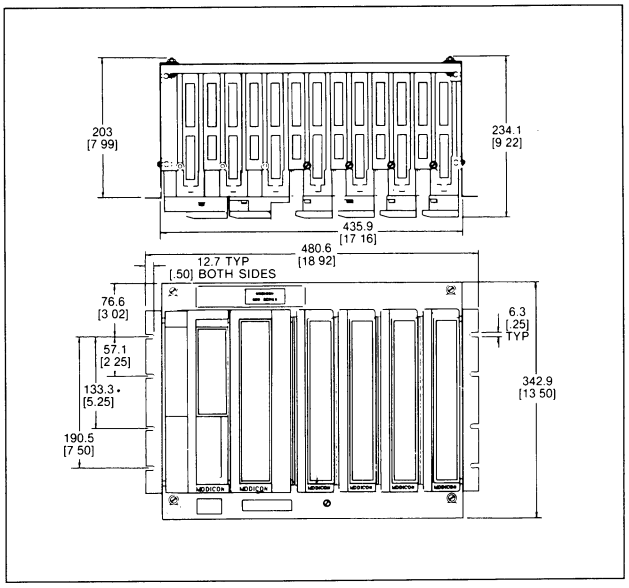
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Figure 1

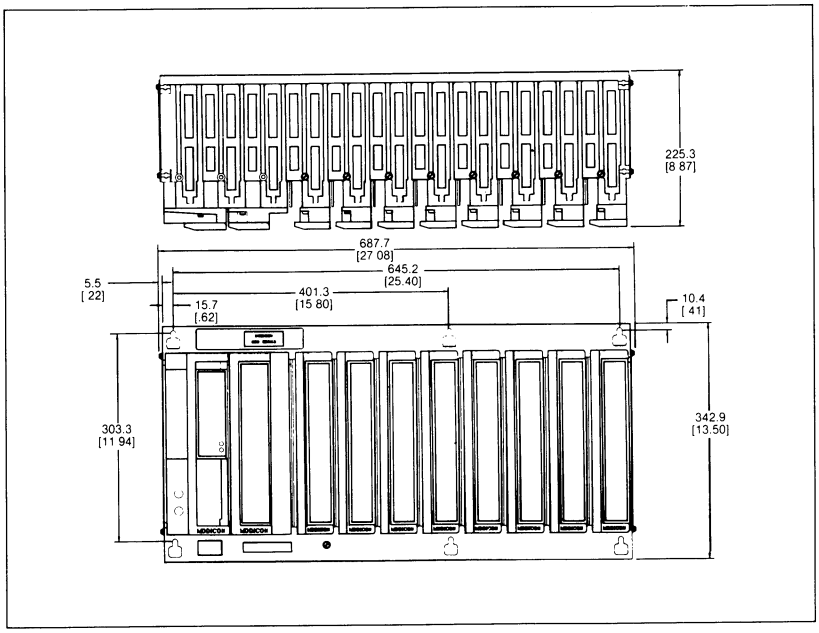
H819/H827 Mounting Dimensions



H819 Panel mount



H819 Rack mount



H827 Rack mount

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Specifications

Temperature	0 °C to 60 °C
Humidity	95% relative humidity (non–condensing)
Shock	10 G for 10 ms
Dimensions (W x H x D)	
H819–XXX	17.48 in x 13.5 in x 8.87 in (443.9 mm x 342.9 mm x 225.3 mm)
H827–XXX	27.08 in x 13.5 in x 8.87 in (687.7 mm x 342.9 mm x 225.3 mm)
Weight	
H819–XXX	15 lbs (6.80 kgs)
H827–XXX	20 lbs (9.07 kgs)

☞ **Note** Both the H819 and H827 housings come with a protective cardboard cover used to prevent metal filings and wire clippings from entering the connectors. Ensure that the cover is removed after mounting and before use.

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