GE Field Control Series Service Manual

IC670CHS102

1. Description

The GE Fanuc IC670CHS102 I/O Terminal Block with box terminals is a type of PLC backplane that is specifically designed and manufactured by GE Fanuc to be used with their IC670 Field Control family of I/O modules. Up to 2 independent I/O modules can be installed in each terminal box by simply inserting them into an available compatible slot, and this is easy since the modules come with a special set of keys that allow them fit only into the proper slot. The GE Fanuc IC670CHS102 I/O Terminal Bloc

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Field Control**
Part	**Number IC670CHS102**
Type	**of Component I/O Terminal Block**
Number	**of Terminals 37**
Terminal	**Connection Wiring AWB 14-22**
Terminal	**Torque 4.5 pounds on an inch**
Maximum	**Current on Terminals 10 Amperes**
Hot	**Swap Compatible Yes**
Number	**of Modules per Block 2 modules**
IP	**Rating IP20 Description**
The	**GE Fanuc Field Control IC670CHS102 I/O base terminal block works as a wiring-to-board interface for the connection of GE Fanuc I/O modules with field device wiring without the need to physically connect those modules directly. Having this type of terminal block instead of direct module connections helps keep the panels in order, avoid messy cabling configurations, and makes troubleshooting easy by permitting the insertion and removal of modules even when the power has not been turned off. The GE Fanuc IC670CHS102 I/O base terminal block has t3 independent groups of terminal connection points that share a common connection between them but are isolated from one ano**

3. Product Information

The GE Fanuc IC670CHS102 I/O Terminal Block with box terminals is a type of PLC backplane that is specifically designed and manufactured by GE Fanuc to be used with their IC670 Field Control family of I/O modules. Up to 2 independent I/O modules can be installed in each terminal box by simply inserting them into an available compatible slot, and this is easy since the modules come with a special set of keys that allow them fit only into the proper slot. The GE Fanuc IC670CHS102 I/O Terminal Block supports hot swap operations, which allows for a quick troubleshooting procedure, because no power disconnection is necessary when connecting or disconnecting I/O modules. Once the I/O modules are mounted on the base terminal block, they should be secured in place with screws in order to provide vibration resistance.

The GE Fanuc IC670CHS102 I/O Terminal Block with box terminals uses 16 screw terminals to receive external wiring from field inputs and outputs. For data communication with the main Programmable Logic Controller (PLC), the GE Fanuc IC670CHS102 I/O Terminal Block needs to use a Bus Interface Unit (BIU) that is version 2.1 or later. Hot insertion or removal of I/O modules should not be performed if the base terminal block is installed in a hazardous location, because of the risk of sparks which may contribute to an accident, personal injury, equipment damage, or fire. The operating temperature of the I/O terminal blocks should be maintained between -25 and 70 degrees Celsius (-13 to 158 degrees Fahrenheit) in order to guarantee the proper functioning of the device. The GE Fanuc Field Control IC670CHS102 I/O base terminal block serves as a connection platform for incoming wires to the GE Fanuc I/O modules, in order to insert or remove the modules quickly and without shutting down the power to the system. Each I/O base terminal block can accommodate up to 2 independent modules. Technical specifications for IC670CHS102

Brand GE Fanuc

Series Field Control

Part Number IC670CHS102

Type of Component I/O Terminal Block

Number of Terminals 37

Terminal Connection Wiring AWB 14-22

Terminal Torque 4.5 pounds on an inch

Maximum Current on Terminals 10 Amperes

Hot Swap Compatible Yes

Number of Modules per Block 2 modules

IP Rating IP20 Description

The GE Fanuc Field Control IC670CHS102 I/O base terminal block works as a wiring-to-board interface for the connection of GE Fanuc I/O modules with field device wiring without the need to physically connect those modules directly. Having this type of terminal block instead of direct module connections helps keep the panels in order, avoid messy cabling configurations, and makes troubleshooting easy by permitting the insertion and removal of modules even when the power has not been turned off. The GE Fanuc IC670CHS102 I/O base terminal block has t3 independent groups of terminal connection points that share a common connection between them but are isolated from one another. Those groups are known as groups A, B, and E. Groups A and B are for power source connections, while Group E is used as a common reference point for application wiring.

The GE Fanuc I/O modules can be inserted or detached from the GE Fanuc IC670CHS102 I/O base terminal block without the need to disconnect the power beforehand. Nevertheless, this operation (known as hot-swapping) should not be executed in hazardous locations, because this might generate a spark that could start a fire in those locations. Hot-swap operations are available only if the Bus Interface Unit or BIU in the system is of version 2.1 or above. Each GE Fanuc IC670CHS102 I/O base terminal block can accommodate up to 2 independent modules with a catalog number suffix of "J" or beyond. There are 37 screw connection points in the terminal block, and each one is able to receive 1 AWG #14 wire or two AWG #18 to AWG #22 wires.