GE Field Control Series Service Manual

IC670CHS004

1. Description

THERMOCOUPLE COLD JUNCTION COMPENSATION BASE GE Fanuc Field Control CHS004 IC670C The GE Fanuc IC670CHS004 Thermocouple Terminal Block works as a connection interface and a junction compensation module for the correct connection of thermocouple signals in millivolts to the GE Fanuc I/O modules that are used to process that type of input. It comes from the factory with 20 connection pins which should be properly grounded in order to perform their function correctly. Technical specifications for

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Field Control**
Part	**Number IC670CHS004**
Type	**of component Thermocouple Terminal Block**
Number	**of terminals 20**
Terminal	**connection wiring AWB 16-20**
Terminal	**torque 4.5 pounds on an inch**
Maximum	**current on terminals 10 Amperes**
Hot	**swap compatible Yes**
Module	**compatibility Thermocouple Modules**
Number	**of modules per block 2 modules**
Description	
The	**GE Fanuc IC670CHS004 Terminal Block is a solid-state terminal block specifically designed for thermocouple signal connection into the GE Fanuc Field Control Station. It serves as an interface that permits the reception of millivolt voltages like the ones commonly transmitted by temperature sensors. This terminal block serves the purpose of a junction compensation circuit for thermocouples sensors that are employed as field devices for the Field Control thermocouple modules. The thermocouple sensors are connected through screw terminals in the GE Fanuc IC670CHS004 Thermocouple Terminal Block. The thermocouple modules are mounted**

3. Product Information

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Series Field Control

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Terminal connection wiring AWB 16-20

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The main advantage of using the IC670CHS004 Thermocouple Terminal Block in temperature-measuring applications is that it isolates the temperature reading from the application process, thus compensating for any interference present in the circuit, such as the temperature variations caused by the circuit electronics' generation of heat. The GE Fanuc IC670CHS004 Thermocouple Terminal Block is able to compensate for this and any other induced temperature variations in the application process by using a pair of built-in thermistors. Two different thermocouple sensors can be installed in a GE Fanuc IC670CHS004 Thermocouple Terminal Block. An important aspect to take into account is grounding because this terminal block needs to have a tight connection to the chassis ground in order to be able to properly compensate for temperature. For physically connecting the incoming cables to the pins, a proprietary tool known as the AMP Pro-Crimper II Hand Tool Assembly 90546-1 is recommended.