GE Field Control Series Service Manual

IC670MDL642

1. Description

125VDC Pos./Neg. Logic Input, 16 Point, Grouped GE Fanuc Field Control MDL642 IC67 IC670MDL The IC670MDL642 module is a PLC Field Control module manufactured by GE Fanuc. The unit has an input voltage of 125 Volts DC and input with positive/negative logic. Technical specifications for IC670MDL642

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Field Control**
Part	**Number IC670MDL642**
Rated	**Voltage 125 Volts DC**
Input	**Voltage Range 0 to 150 Volts DC**
Number	**of Inputs 16**
Current	**(User Input) 2.5 milli Amps per point at 125 Volts DC**
Isolation	**Voltage 250 Volts AC (continuous) / 1500 Volts AC for 1 minute**
Input	**Impedance 40K minimum**
On-state	**Voltage 79 to +150 Volts (positive logic) / -79 to -150 Volts (negative logic)**
Off-state	**Voltage 0 to +30 Volts (positive logic) / 0 to -30 Volts (negative logic)**
On-state	**Current 0.3 to 3 milliamps**
Off-state	**Current 0 to 0.5 milliamps**
Response	**Time (On) 6 milliseconds (typical) / 10 milliseconds (maximum)**
Response	**Time (Off) 6 milliseconds (typical) / 20 milliseconds (maximum)**
Description	
The	**IC670MDL642 Field Control module is designed and made by GE Fanuc and it includes positive and negative inputs. The users can choose an external logic power source for the module's 16 inputs, and this external power supply is combined with inputs and the assigned terminal block for I/O**

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On-state Voltage 79 to +150 Volts (positive logic) / -79 to -150 Volts (negative logic)

Off-state Voltage 0 to +30 Volts (positive logic) / 0 to -30 Volts (negative logic)

On-state Current 0.3 to 3 milliamps

Off-state Current 0 to 0.5 milliamps

Response Time (On) 6 milliseconds (typical) / 10 milliseconds (maximum)

Response Time (Off) 6 milliseconds (typical) / 20 milliseconds (maximum)

Description

The IC670MDL642 Field Control module is designed and made by GE Fanuc and it includes positive and negative inputs. The users can choose an external logic power source for the module's 16 inputs, and this external power supply is combined with inputs and the assigned terminal block for I/O. When the main switch is closed, the IC670MDL642 Field Control module is sending a signal that has a true value. The positive inputs direct the current to the power bus that is the common or negative current type. This means that the negative inputs receive the current from the power bus that is the common or positive current type. The IC670MDL642 Field Control module operates on input voltage range of 0 to 150 Volts DC and it has a user input current of 2.5 milliamps per point at the rated voltage.

The rated voltage of the IC670MDL642 Field Control module is 125 Volts DC and its isolation voltage is 250 Volts AC for continuous operation and 1500 Volts AC for the duration of 1 minute. The input impedance is a minimum of 40K and the response time is 6 milliseconds (typical) and 10 milliseconds maximum when the unit is on. The response time for the off-state includes a typical time of 6 milliseconds and a maximum time of 20 milliseconds. In addition to that, the IC670MDL642 field control module has on-state current of 0.3 to 3 milliamps and an off-state current of 0 to 0.5 milliamps. The on-state voltage is +79 to +150 Volts for the positive logic and -79 to -150 Volts for the negative logic. The off-state voltage is 0 to 30 Volts for positive logic and 0 to -30 Volts for negative logic.