GE Field Control Series Service Manual

IC670MDL930

1. Description

Relay 2A, 8 Point, 6 Form A/2 Form C, Isolated MDL930 Field Control IC670M IC670MD IC670MDL The IC670MDL930 is a Field Control I/O module that is manufactured by GE Fanuc. This module is a Relay output module featuring a total of Eight (8) relay output channels consisting of Six (6) groups of Forma A contacts and Two (2) Form C contact outputs with each channel installed with individual isolation. Each output contact is rated 5VDC / 24 VDC / 125 DC voltages and 120 / 240 VAC Technical specifica

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Field Control**
Manufacturer	**GE Fanuc**
Part	**Number IC670MDL930**
Series	**Field I/O control**
Product	**Description Relay output module**
Part	**Number IC670MDL930**
Rated	**Voltage 5/24/125 Volts DC, 120/240 Volts AC**
No	**of Channels Eight (8) relay outputs**
Voltage	**Range 0-130 Volts DC, 0-265 Volts AC**
Contact	**Forms Six (6) Normally Open (N.O.) contacts (Form A); Two (2) Normally Closed (N.C.) contact (Form C**
Frequency	**Range 47-63 Hertz**
Rated	**Voltage 5/24/125 VDC, 120/240 VAC**
Maximum	**Load Current 16 Amps per module**
Voltage	**Range 0–130 VDC, 0–265 VAC (47–63 Hz)**
Relay	**Type Fixed coil, moving armature**
Maximum	**Load Current (resistive) 16 A per module**
Current	**drawn from BIU 313 mA**
LED	**indicators Individual channel LED; PWR LED**
Switching	**Frequency 20 cycle/minute**
Relay	**Type: Fixed coil, moving armature**
Contact	**Type Silver Alloy**
Current	**draw 313 mA**
Protection	**Snubbber, no fuse**
Maximum	**load current 2.0 Amps from 5 to 265VAC; 2.0 Amps from 5 to 30VDC; 0.2 Amps from 31 to 125VDC**
Maximum	**Inrush**

3. Product Information

Relay 2A, 8 Point, 6 Form A/2 Form C, Isolated MDL930 Field Control IC670M IC670MD IC670MDL The IC670MDL930 is a Field Control I/O module that is manufactured by GE Fanuc. This module is a Relay output module featuring a total of Eight (8) relay output channels consisting of Six (6) groups of Forma A contacts and Two (2) Form C contact outputs with each channel installed with individual isolation. Each output contact is rated 5VDC / 24 VDC / 125 DC voltages and 120 / 240 VAC Technical specifications for IC670MDL930

Brand GE Fanuc

Series Field Control

Manufacturer GE Fanuc

Part Number IC670MDL930

Series Field I/O control

Product Description Relay output module

Part Number IC670MDL930

Rated Voltage 5/24/125 Volts DC, 120/240 Volts AC

No of Channels Eight (8) relay outputs

Voltage Range 0-130 Volts DC, 0-265 Volts AC

Contact Forms Six (6) Normally Open (N.O.) contacts (Form A); Two (2) Normally Closed (N.C.) contact (Form C

Frequency Range 47-63 Hertz

Rated Voltage 5/24/125 VDC, 120/240 VAC

Maximum Load Current 16 Amps per module

Voltage Range 0–130 VDC, 0–265 VAC (47–63 Hz)

Relay Type Fixed coil, moving armature

Maximum Load Current (resistive) 16 A per module

Current drawn from BIU 313 mA

LED indicators Individual channel LED; PWR LED

Switching Frequency 20 cycle/minute

Relay Type: Fixed coil, moving armature

Contact Type Silver Alloy

Current draw 313 mA

Protection Snubbber, no fuse

Maximum load current 2.0 Amps from 5 to 265VAC; 2.0 Amps from 5 to 30VDC; 0.2 Amps from 31 to 125VDC

Maximum Inrush 5 Amps for 20mS

Minimum Load Current 10 mA per point

Contact Life Mechanical: 20 x 10^6 operations; Electrical: 10^5 operations at rated resistive load

Protection Snubber (R=47.5 ohms, C=0.022 ufd). No fuse

Product Lifecycle Status Discontinued/Obsolete Description

The IC670MDL930 is a relay output module from the Field control module series of GE Fanuc. This module comes with individually isolated channels, specifically, Six (6) Form A or Normally Open (N.O.) contacts and Two (2) Form C Normally Open (N.O) and Normally Closed (N.C.) contact outputs. Each output contacts are rated 5VDC / 24 VDC / 125 DC or and 120 / 240 VAC nominal voltages with actual voltage ranges of 0-130 VDC, 0-265 VAC, 47-63 Hz and the maximum load current per module is 16 A. The module has a fixed coil, moving armature relay type and has current consumption of 313 mA, maximum. The module comes with typical rating of isolation between input to logic, user input to frame ground and group to group isolation specifically, 250 VAC continuous, 1500 VAC for 1 minute. The module maximum current for resistive loads rated 2.0 Amps from 5 to 265VAC; 2.0 Amps from 5 to 30VDC and 0.2 Amps from 31 to 125VDC while the maximum inrush current is 5 A for 20 ms and maximum load current of 10 mA per input. The module’s response time for ON and Off signal transition are typical which is maximum of 10 ms while the maximum switching frequency of each channel is 20 cycles per minute if used with an inductive load. The contact outputs of the module are made of Silver Alloy with contact resistance of 0.2 ohms at 1 A at 6 VDC. Each contact has operational life of 20 x 10^6 operations (mechanical) and 10^5 operations at rated resistive load (electrical).

The Field Control IC670MDL930 Relay Output Module is an isolated NO/NC relay discrete output module that is made by GE Fanuc. The IC670MDL930 Relay Output Module provides 8 isolated outputs that have 6 normally-open contacts and 2 normally-closed and normally-open contacts. These relays are also referred to as Form A relays and Form C relays, respectively. In order to reduce the high-frequency noise transient, the outputs are suppressed with an RC snubber. The Form A relay has normally-open contacts and the Form C relay has normally open or normally closed contacts. The contacts of the module are made of silver alloy. The mechanical life of the contacts is 20 x 10^6 operations and the electrical life of the contacts is 10^5 operations. The IC670MDL930 Relay Isolated NO/NC Output Module requires more power from the BIU when it has a large number of connected relay output modules. The users must supply an external AC or DC power source to the load which is driven by the contacts. Each output has an indicator LED on the logic side. This module offers fault reporting facilities for efficient operation. It has 8 bits of discrete output data which is processed for use with the bus interface module. The IC670MDL930 Relay Output Module must be supplied with the power needed to energize the relay coils. The maximum load current of the module is 2 Amps at 5 to 265 Volts AC, 2 Amps at 5 to 30 Volts DC, and 0.2 Amps at 31 to 125 Volts DC. It comes with a fixed coil relay type with a moving armature. It draws 313 milliamps of maximum current from the bus interface module power supply in order to power up.