GE Versamax Series Service Manual

IC200CHS002

1. Description

The IC200CHS002 is a Compact I/O carrier module. It is part of the VersaMax platform, currently under Emerson Automation, formerly produced by GE Intelligent Platforms (GE IP).

This is a Compact Box-style I/O carrier that comes with 36 terminals from A1 - A18 and B1 - B18. This carrier accommodates up to 0-264 VAC voltage range, 2 Amperes per point or 8 Amperes per power

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Versamax**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC200CHS002**
Series	**VersaMax**
Product	**Type Box-style terminal I/O carrier**
Part	**Number IC200CHS002**
Box-Style	**Terminals 36**
Product	**Description I/O Carrier Module**
Dimensions	**Height: 133.4 mm (5.25 in) Length: 66.80 mm (2.63 in)**
Carrier	**module style Box style**
Single	**Copper Wire Size 2.1 mm2 to 0.36 mm2**
Field	**Termination type Integrated**
Dual	**Copper Wire Size up to 0.86 mm2**
No.	**of Terminals 36 terminal**
Terminal	**Torque 0.37 to 0.45 pounds on a foot**
Compatible	**wire size AWG # 14 to AWG #22 for single wire connection; AWG #18 for Two (2) wire connection**
Per	**Power/Ground Current 8 Amps**
Voltage	**rating 0-264 VAC**
Per	**Point Current 2 Amps**
Current	**rating, per point 2 Amperes**
Current	**rating per ground and power segment 8 Amperes**
Transient	**Voltage rating up to 300 VAC**
Mounting	**DIN Rail**
Mounting	**orientation Horizontal**
Mounting	**clearance Top and bottom: 2 inches (5.1cm) Side:1 inch (2.54c**

3. Product Information

The IC200CHS002 is a Compact I/O carrier module. It is part of the VersaMax platform, currently under Emerson Automation, formerly produced by GE Intelligent Platforms (GE IP). This is a Compact Box-style I/O carrier that comes with 36 terminals from A1 - A18 and B1 - B18. This carrier accommodates up to 0-264 VAC voltage range, 2 Amperes per point or 8 Amperes per power

Technical specifications for IC200CHS002

Brand GE Fanuc

Series Versamax

Manufacturer GE Intelligent Platforms (Former); Emerson Automation (Current)

Part Number IC200CHS002

Series VersaMax

Product Type Box-style terminal I/O carrier

Part Number IC200CHS002

Box-Style Terminals 36

Product Description I/O Carrier Module

Dimensions Height: 133.4 mm (5.25 in) Length: 66.80 mm (2.63 in)

Carrier module style Box style

Single Copper Wire Size 2.1 mm2 to 0.36 mm2

Field Termination type Integrated

Dual Copper Wire Size up to 0.86 mm2

No. of Terminals 36 terminal

Terminal Torque 0.37 to 0.45 pounds on a foot

Compatible wire size AWG # 14 to AWG #22 for single wire connection; AWG #18 for Two (2) wire connection

Per Power/Ground Current 8 Amps

Voltage rating 0-264 VAC

Per Point Current 2 Amps

Current rating, per point 2 Amperes

Current rating per ground and power segment 8 Amperes

Transient Voltage rating up to 300 VAC

Mounting DIN Rail

Mounting orientation Horizontal

Mounting clearance Top and bottom: 2 inches (5.1cm) Side:1 inch (2.54cm)

The IC200CHS002 is a VersaMax I/O carrier module. This module provides modular approach as it permits servicing, troubleshooting and replacement of I/O modules without the need of dismantling existing wiring terminations. In general, this carrier module provides mounting and field wiring as well as the backplane communication capability of the hosted module. This module mainly features 36 terminals arranged in Two (2) strips labelled A1 to A18 and B1 to B18. This module is compatible for use with 32 point I/O modules or high-density I/Os devices from the same VersaMax product family. This module has 4 common / power connections and embedded with keying dials which is set to match the designated keying position of the module being hosted by the I/O carrier. This hardware also comes with carrier mating connectors for quick assembly and connection to the backplane. It also has a module latch hole to lock the hosted IO module into place. The terminals of the IC200CHS002 is capable of withstanding up to 300 VAC transient voltage. At normal operation, each terminal is designed for voltage range of 0-264 VAC and 2 Ampere current rating per terminal and 8 Ampere capacity per power / common terminal. Each terminal supports termination of up to 2 wires with recommended wire sizes of AWG # 14 (avg. 2.1mm2 cross section) to AWG #22 (avg. 0.36mm2 cross section) for single wire connection and AWG #18 (avg. 0.86mm2 cross section) for Two (2) wire connection in a single terminal for implementing terminal shorting.

The GE Fanuc IC200CHS002 carrier is a Versamax series box-style terminal I/O carrier. The Versamax products are designed for industrial automation applications and they provide common and flexible I/O structures for local/remote configurations. There are 3 types of I/O carriers in the Versamax product line, and they are terminal-style carriers, compact terminal-style carriers, and connector-style I/O carriers. The IC200CHS002 carrier has 36 IEC box-type terminals. The IC200CHS002 carrier provides backplane communications, mounting connections, and field wiring for one I/O module. The dimensions of the IC200CHS002 carrier are 110.5 x 70 x 139.7 millimeters. The terminals on the IC200CHS002 carrier are compatible with solid/stranded copper wire which have 0.36 to 2.1 square millimeters cross-sectional areas, or 2 wires that have up to 0.86 square millimeters cross-sectional areas. Copper wire that is rated for 194 degrees Fahrenheit is recommended for use with the Versamax IC200CHS002 carrier module. The recommended terminal torque for the IC200CHS002 carrier is 0.37 to 0.45 pounds on a foot. The label provided with the IC200CHS002 carrier can be inserted into the transparent door of the module. Current levels of 8 Amps per power and ground connection or 2 Amps per point can be accommodated by the IC200CHS002 carrier. The module will not be damaged by voltage transients of up to 300 Volts AC. The IC200CHS002 carrier supports up to 4 power/common connections and 32 I/O points. The module features carrier-to-carrier mating connectors for the rapid installation of the backplane connections. Keying dials with keys which are set to match the keying on the bottom of the module are also provided.