GE Versamax Series Service Manual

IC200CHS022

1. Description

The IC200CHS022 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	**Emerson Automation / GE Fanuc (former)**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC200CHS022**
Series	**VersaMAx**
Series	**VersaMax**
Product	**Type Compact box-style I/O carrier**
Product	**Description I/O carrier module**
Part	**Number IC200CHS022**
Box-style	**Terminals 36**
No	**of terminal strips Three (3)**
Product	**Description I/O Carrier Module**
Dimensions	**Height: 167.89mm (6.61in) Length: 66.80mm (2.63in)**
No.	**of Terminals 36 terminal**
Carrier	**module style Compact I/O, Box style**
Single-Wire	**Cross Section 0.36 mm2 to 2.1 mm2**
Recommended	**wire size per terminal: Single wire: AWG #14 (avg. 2.1mm2 cross section) maximum size of AWG #22 (avg. 0.36mm2 cross section) Two (2) wire: AWG #18 (avg. 0.86mm2 cross section).**
Compatible	**wire size AWG # 14 to AWG #22 for single wire connection; AWG #18 for Two (2) wire connection**
Two-Wire	**Cross Section Up to 0.86 mm2**
Current	**rating per point 2 A**
Voltage	**rating 0-264 VAC**
Current	**per Poin**

3. Product Information

The IC200CHS022 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 IC200CHS022

Brand GE Fanuc

Series Versamax

Manufacturer Emerson Automation / GE Fanuc (former)

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

Part Number IC200CHS022

Series VersaMAx

Series VersaMax

Product Type Compact box-style I/O carrier

Product Description I/O carrier module

Part Number IC200CHS022

Box-style Terminals 36

No of terminal strips Three (3)

Product Description I/O Carrier Module

Dimensions Height: 167.89mm (6.61in) Length: 66.80mm (2.63in)

No. of Terminals 36 terminal

Carrier module style Compact I/O, Box style

Single-Wire Cross Section 0.36 mm2 to 2.1 mm2

Recommended wire size per terminal: Single wire: AWG #14 (avg. 2.1mm2 cross section) maximum size of AWG #22 (avg. 0.36mm2 cross section) Two (2) wire: AWG #18 (avg. 0.86mm2 cross section).

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

Two-Wire Cross Section Up to 0.86 mm2

Current rating per point 2 A

Voltage rating 0-264 VAC

Current per Point 2 Amps

Current rating per each power terminal 8A

Current rating, per point 2 Amperes

Ground Current 8 Amps

Voltage supply, max 264 VAC

Current rating per ground and power segment 8 Amperes

Maximum Voltage per Point 264 Volts AC

Transient voltage, max. 300 VAC

Transient Voltage rating up to 300 VAC

Mounting: DIN Rail / Panel mounting

Mounting DIN Rail

Compatible modules: All VersaMax modules

Enclosure depth 70 mm

Dimensions: 66.8 x 70 x 163.5 mm

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

Application areas: Class I, Div. 2, Groups A, B, C, and D, and Class 1 Zone 2 locations.

The IC200CHS022 is a carrier module from the VersaMax product family that is manufactured by Emerson Automation This module is combined with VersaMax I/O modules, providing wiring terminals for termination of input and output devices, depending on the module type installed. The IC200CHS022 may also be referred to as a terminal base. It features 36 screw type terminals that are designed to accommodate Solid or stranded copper ranging AWG # 14 to AWG #22 for single wire connection and AWG #18 for Two (2) wire connection in a single terminal for implementing terminal shorting. The carrier’s terminal are labeled A1 - A18 and B1-B18 for proper grouping. Each terminal is rated 0-264 VAC, 2 Amperes per terminal and 8 Amperes per ground and power segment. Each terminals are also designed to withstand up to 300 VAC transient voltage. The IC200CHS022 provides flexibility and modularity as it allows hosted VersaMax I/O modules to be replaced or serviced without the need of removing the existing wiring connections to the carrier modules. With this, troubleshooting time is significantly reduced especially control system or module downtime. This carrier module also provides the mounting assembly such as the DIN slot or panel mounting tabs to fix the carrier module into place along the partner I/O module. The IC200CHS022 is provided with a card holder that hinges down over the terminal wiring. It also has a card holder which locks the I/O module into place. During operation, this card holder must be in the retracted orientation.

The GE Fanuc IC200CHS022 carrier is a Versamax series compact box-style I/O carrier. The IC200CHS022 carrier includes 36 IEC box-style terminals. This module provides field wiring, mounting, and backplane communications for one Versamax I/O module which mounts vertically on the IC200CHS022 carrier. The dimensions of the IC200CHS022 carrier are 66.8 x 70 x 163.5 millimeters. The IC200CHS022 carrier has a built-in card holder which hinges down over the terminal wiring. A wiring card is provided with the module and it can be inserted in this card holder. The card holder should be in the retracted position while the system is in operation. Each terminal on the IC200CHS022 carrier can accommodate a single wire or 2 wires. Copper wire which is stranded or solid can be used for termination wiring. Single copper wire used for termination can have a 0.36 mm2 to 2.1 square millimeters cross section. Two copper wires used for termination can have up to 0.86 square millimeters cross section. Each point on the IC200CHS022 carrier is rated for up to 2 Amps of current. Each power and ground connection on the IC200CHS022 carrier is rated for up to 8 Amps of current. The points and power/ground connections on the IC200CHS022 carrier are rated

for up to 264 Volts AC and they can sustain voltage transients of up to 300 Volts AC. The IC200CHS022 carrier is designed for mounting on a DIN rail measuring 7.5 x 35 millimeters. One inch of horizontal spacing and 2 inches of vertical spacing should be provided around the mounted module. For optimal performance, the ambient temperature around the working IC200CHS022 carrier must be between 0 and 60 degrees Celsius.