Certificate of Compliance

Certificate: 2660411 **Master Contract:** 165588

Project: 80110296 **Date Issued:** 2021-12-22

Issued To: **GE Drives & Controls, Inc.**
1501 Roanoke Blvd, Rm 291
Salem, Virginia, 24153
United States

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *Jean-Philippe Turcot*
Jean-Philippe Turcot

C US

PRODUCTS

CLASS - C225286 - PROCESS CONTROL EQUIPMENT Certified to US Standards
CLASS - C225206 - PROCESS CONTROL EQUIPMENT Process Control Equipment

Industrial Control System, Models: Mark VI Control, Mark VIe Control, Mark VIeS Control and Mark Vie Control (PAMC-Based CDM for Mark VI Control and UIO Mark VIe Panel), Rated:

For Mark VI Control, Mark VIe Control and Mark VIe S Control:

AC1/AC2: 120Vac, 25A or 240Vac, 12.5A, 50/60Hz *OR*

DC1/DC2: 125Vdc, 20A or 220Vdc, 10A *AND/OR*

DC3/DC4: 24Vdc, 40A *AND/OR*

DC: 125Vdc, 20A *AND/OR*

AUXAC: 120Vac, 15A, or 240Vac, 7.5A, 50/60Hz

For Mark VIe Control (PAMC-Based CDM for Mark VI Control and UIO Mark VIe Panel):

AC1/AC2: 120Vac, 1.0A or 240Vac, 0.5A, 50/60Hz

Or

DC: 125Vdc, 0.9A

Notes:

1. The above model is permanently connected, Permanently Installed, Equipment Class 1, Pollution Degree 2 & Installation Category II.
2. Mode of operation: Continuous
3. Environmental Conditions (Extended):
   - Indoor use, up to 2000m,
   - Temperature: Mark VI: 0 to 45°C; Mark VIe: -30 to 60°C; Mark VIeS: -30 to 60°C ; Mark VIe Control (PAMC-Based CDM for Mark VI Control and UIO Mark VIe Panel): -30 to 60°C
   - Maximum relative humidity 95% non-condensing
   - Mains supply voltage fluctuations up +/- 10 % of the nominal voltage
   - Temporary overvoltages occurring on the mains supply

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61010-1-12	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
UL Std. No. 61010-1 (3rd Edition)	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

CONDITIONS OF ACCEPTABILITY

- Equipment is only to be installed and serviced by trained personnel.
- The control cabinet can accept power from multiple power sources. Each power input source (such as the DC and two AC sources) should feed through its own external 30A maximum (50A for DC3 and DC4 supply), two-pole thermal magnetic circuit breaker before entering the control system enclosure. When 24 V dc source is used it should feed through its own external 50A maximum circuit breaker before entering the control system enclosure. The breaker should be supplied in accordance with the required site codes.
- Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics has been conducted.

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Notes:

Products certified under Class C225206, C225286 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80110296	2021-12-22	CSA c/us report (2660411) update for the addition of PFFB, DC3 and DC4 input ratings & other fuses and connector. This update will cover FIR follow up to address FC# 261011, FIR's dated Nov 25,2021 Note: This will be the last CSA report update for 2660411 under current standard 61010-1. The next report update will be done under a new 61010+Amd1 issued in a new CSA report.
80070821	2021-04-08	CSA c/us report update for the addition of new and alternate components in the critical component list.
80033953	2020-02-27	CSA report update (2660411) for addition of accessory terminal board, IS400SSUPS1A, with Snubber and MOV protection for YSIL Emergency Trip Relay Outputs
80025463	2019-12-12	CSA c/us report update (2660411) for addition of interchangeable fuse disconnect terminal and alternate terminal block in the critical component list
80012322	2019-09-25	CSA report update (2660411) for addition of alternate component alternate components in the critical component list ** This Quote is assuming that no Testing is required.
80001537	2019-04-25	CSA c/us report update (2660411) for the addition of Interchangeable relays in the critical component list.
70202528	2019-03-28	CSA c/us report update (2660411) for the addition of Profinet Switches, WSVO, BAPB.
70171264	2018-03-02	CSA c/us report update (2660411) for the addition of new model: UIO Mark VIe Panel (based on existing Mark Vie products) and new components.

70129258	2017-04-18	CSA c/us report update (2660411) for the addition of a circuit breaker, ethernet switches, Fieldbus Gateway, Fieldbus power supply, Fieldbus diagnostic module and new PCB (IS200BIOAH1A ARCNET I/O and IS200JPDVG1A Terminal Board).
70109737	2016-12-08	CSA c/us report update (2660411) for the addition of new components (Power supply, PLC, fuse, terminal block, rectifier diode module, relays, light and Fieldbus linking device)
70084274	2016-07-15	CSA c/us report update (2660411) for the addition of new PCB (IS400BBAA, IS400SUAA, IS400MIOA, IS400BCAR) and their associated components.
70061461	2016-05-26	CSA c/us report update (2660411) for the addition of a lockout tagout emergency stop pushbutton and industrial firewalls (Wurldtech Opshield Field Devices).
70054944	2015-12-17	CSA c/us report update (2660411) for the addition of 2 industrial Ethernet Switches and a Profibus Converter.
70045002	2015-10-14	CSA (c/us) report (2660411) update for the addition of a new YSIL module (consisting of multiple boards: IS220YSILS1A, IS200TCSAS1A, IS200WCSAS1A, IS200SCSAS1A).
70033356	2015-07-06	CSA (c/us) report (2660411) update for the addition of a new PWB identification scheme including conformal coating and an approved AC source selector/transfer switch (model: AP7753).
70027716	2015-04-07	CSA c/us report update for addition of new model (Mark VIe PAMC - based CDM)
70010896	2015-02-06	CSA c/us report update (2660441) and EN report update (2660441) for resolution of finding related to FIR (February 28, 2014) for the Salem factory in VA.
2660411	2013-12-18	cCSAus Certification of an Industrial Control System, Models: Mark VI Control, Mark VIe Control & Mark VIeS Control