



Certificate of Compliance

Certificate: 2840117 (Alternate 74317)

Master Contract: 165970

Project: 2840117

Date Issued: July 17, 2015

Issued to: Phoenix Contact Inc.
PO Box 4100
Harrisburg, PA 17111-0100
USA
Attention: Mr. David Landis

The products listed below are eligible to bear the CSA Mark shown



Issued by: Lyn Murray
Lyn Murray

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Solid State Overcurrent Protectors – Models EC-E-e-DC24V, EC-E1-e, EC-E4-e, ECP-E-e, ECP-E2-e & ECP-E3-e

Input: 24 V dc, 12A Max. Switched Signal Output for models EC-E, ECP-E: 0.2A, 24 VDC resistive. Switched Output for models EC-E1, EC-E4, ECP-E2, ECP-E3: 0.5A, 30VDC resistive. Temperature code T4A; Ambient temperature 0°C to 50°C.

EC-E = rail mounting option
standard version without physical isolation
with reset input
status output

EC-E1 = rail mounting option
standard version without physical isolation
without control input
signal output "F" - single signal N/O



Certificate: 2840117

Master Contract: 165970

Project: 2840117

Date Issued: July 17, 2015

EC-E4 = rail mounting option
standard version without physical isolation
without signal input
signal output "F" - single signal N/C

ECP-E = socket mount version
standard version without physical isolation
with reset input
status output

ECP-E2 = socket mount version
standard version without physical isolation
without control input
signal output "F" - group signal N/O

ECP-E3 = socket mount version
standard version without physical isolation
with reset input
signal output "F" - group signal N/O

e = Current rating, in Amperes, 0.5, 1, 2, 3, 4, 6, 8, 10, or 12

Notes:

- 1) These devices are OPEN type equipment that must be used within a suitable end-use system enclosure, the interior of which is accessible only through the use of a tool. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
- 2) Wiring to or from these devices, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.
- 3) Electrical spacings within these devices are not specified.
- 4) The terminals of these devices are suitable for factory wiring only. The suitability of the terminal connections is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
- 5) Socket mount versions of model ECP are designed for use with terminal base, model TMCP SOCKET M.
- 6) These devices have been evaluated with respect to continuous current operation at the rated current levels.
- 7) These devices have been evaluated for use in a circuit having a capacity of 250 Amperes (1000/V), 250VA. They are intended for use in load circuits of switch mode power supplies, supplying 24V dc.
- 8) These devices have been evaluated for use in an ambient temperature of 50°C. Suitability for use in higher ambient temperatures is subject to investigation by the local Authority Having Jurisdiction at the time of installation.



Certificate: 2840117

Master Contract: 165970

Project: 2840117

Date Issued: July 17, 2015

- 9) Rail mounted version of these devices may be used with busbar accessories, models FBST 500 TMC-xxx and FBST 500-PLC-xxx, in ambient temperatures of 50°C. Suitability for use in higher ambient temperatures is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
- 10) Temperature testing of devices utilizing the accessory busbars operating at maximum rated current has not been evaluated. Suitability for use in this application is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
- 11) These devices are designed to trip within the curve characteristics specified by the manufacturer.
- 12) These devices have not been evaluated for use in Telcom applications. Suitability for use in this application is subject to investigation by the local Authority Having Jurisdiction at the time of installation.

APPLICABLE REQUIREMENTS

CAN/CSA Standard C22.2 No. 0-M91 (Reaffirmed 2001)	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No. 142-M1987 (Reaffirmed 2000)	Process Control Equipment
CSA Standard C22.2 No. 213-M1987 (Reaffirmed 1999)	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

The following standards were used in whole or in part as a guideline.

CAN/CSA Standard C22.2 No. 14-05 (March 2006)	Industrial Control Equipment
--	------------------------------

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The following markings are laser etched on the side of the polymeric housing:

- Company's name: or CSA Master Contract Number "74317", adjacent to the CSA Mark in lieu of manufacturers name.
- Model number, as specified in the PRODUCTS section, above.
- Electrical ratings: "24V dc" or "DC24V" followed by the current rating in Amps, as specified in the PRODUCTS section, above.
- Ambient temperature rating: " $0^{\circ}\text{C} \leq T_a \leq 50^{\circ}\text{C}$ ", or " 0°C to 50°C ".
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.



Certificate: 2840117

Master Contract: 165970

Project: 2840117

Date Issued: July 17, 2015

- Terminal designations, adjacent to the wiring terminals.
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation: "Class I, Division 2, Group A, B, C, D", or "CL. I, DIV. 2, GP. A, B, C, D".
- Temperature code: "T4A".
- The words "WARNING - EXPLOSION HAZARD. Do not connect or disconnect unless power has been removed or the area is known to be nonhazardous", or suitable equivalent.

An installation manual or data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturers name and address
- Electrical ratings: "24V dc, 0.5 to 12A".
- Specification for ambient temperature rating: " $0^{\circ}\text{C} \leq T_a \leq 50^{\circ}\text{C}$ ", or " 0°C to 50°C ".
- Specification for the mating busbar interconnect, terminal base (if applicable), or connector, by E-T-A model/part number, or manufacturers name and part number.
- Specification for appropriate wiring to the terminals, including definition of terminal functions, and specification for wire gage range.
- Mounting and installation instructions, including dimensions, and the following words, or equivalent:
 - This device is OPEN type equipment that must be used within a suitable end-use system enclosure, the interior of which is accessible only through the use of a tool. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
 - Wiring to or from this device, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.
- The following words:
 - This equipment is suitable for installation in Class I, Division 2, Group A, B, C, D hazardous locations or nonhazardous locations only.
 - WARNING - Explosion Hazard. Do not connect or disconnect this equipment unless power has been removed or the area is known to be nonhazardous.
 - WARNING - Explosion Hazard. Substitution of components may impair suitability for Class I, Division 2.

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".