



Certificate of Compliance

Certificate: 70028792

Master Contract: 258948

Project: 70187848

Date Issued: June 28, 2018

Issued to: A-T Controls, Inc.
9955 International Blvd
Cincinnati, OH 45246
USA

Attention: Mr. Tim Malinak

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only



Jeannette Keller

Issued by:

Jeannette Keller

PRODUCTS

CLASS 3228-02 – VALVES-Actuators – for Hazardous Locations

CLASS 3228-82 – VALVES-Actuators – for Hazardous Locations – Certified to U.S. Standards

Class I, Division 1, Groups C, D; T4

Ex d IIB T4 Gb

Class I, Zone 1, AEx d IIB T4 Gb

Electrical motor-operated valve actuator, Models Series 00690, 00690A, 00690N, 00860, 00860A, 00860N, 01350, 01350A, 01700, 01700A, 02640, 02640A, 04400, 06900, 10500, 17500 or 25900;
Electrical Rating: See table below; Ambient Temperature: -20°C to +60°C; Enclosure Rating: Type 4, 4X, 6, IP66, IP67.



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Model Series:	Input: [V, PH, Hz]	Full Load Current: [FLA@50Hz (FLA@60Hz)]	Locked Rotor Current: [LRA@50Hz (LRA@60Hz)]	Torque: [Nm (in-lbs)]	Operating Speed 90°: [Sec.@50Hz (Sec.@60Hz)]	Duty Cycle: [IEC 60034-1]
TRIAC-XC-00690*	110VAC, 1PH, 50/60Hz	1.1 (1.2)	1.3 (1.4)	80 (690)	23 (20)	S4-40%
TRIAC-XC-00690*	220 VAC, 1PH, 50/60Hz	0.6 (0.6)	0.7 (0.7)	80 (690)	23 (20)	S4-40%
TRIAC-XC-00690*	24Vdc	5.0	12.8	70 (620)	17	S4-30%
TRIAC-XC-00690*	12Vdc	13.5	21.7	40 (350)	11	S4-30%
TRIAC-XC-00690A	24Vac, 24Vdc 1PH 50/60Hz	5.0	12.8	70 (620)	17	S4-30%
TRIAC-XC-00690N	12Vac, 12Vdc 1PH, 50/60Hz	13.5	21.7	40 (350)	11	S4-30%
TRIAC-XC-00860*	110VAC, 1PH, 50/60Hz	1.1 (1.2)	1.3 (1.4)	100 (860)	23 (20)	S4-40%
TRIAC-XC-00860*	220 VAC, 1PH, 50/60Hz	0.6 (0.6)	0.7 (0.7)	90 (790)	23 (20)	S4-40%
TRIAC-XC-00860*	24Vdc	6.3	12.8	80 (700)	20	S4-30%
TRIAC-XC-00860*	12Vdc	13.5	21.7	50 (440)	11	S4-30%
TRIAC-XC-00860A	24Vac, 24Vdc 1PH, 50/60Hz	6.3	12.8	80 (700)	20	S4-30%
TRIAC-XC-00860N	12Vac, 12Vdc 1PH, 50/60Hz	13.5	21.7	50 (440)	18	S4-30%
TRIAC-XC-01350*	110VAC, 1PH, 50/60Hz	1.9 (2.0)	2.4 (2.5)	150 (1350)	25 (21)	S4-70%
TRIAC-XCD-01350*X*	220 VAC, 1PH, 50/60Hz	0.9 (1.0)	1.1 (1.2)	150 (1350)	28 (23)	S4-35%
TRIAC-XC-01350*	24Vdc	6.0	16.9	150 (1350)	22	S4-40%
TRIAC-XC-01350A	24Vac, 24Vdc 1PH, 50/60Hz	6.0	16.9	150 (1350)	22	S4-40%
TRIAC-XC-01700*	110VAC, 1PH, 50/60Hz	2.2 (2.3)	2.4 (2.5)	200 (1700)	25 (21)	S4-70%
TRIAC-XCD-01700*X*	220 VAC, 1PH, 50/60Hz	1.0 (1.1)	1.1 (1.2)	180 (1590)	28 (23)	S4-35%
TRIAC-XC-01700*	24Vdc	7.4	16.9	160 (1410)	22	S4-40%
TRIAC-XC-01700A	24Vac, 24Vdc 1PH, 50/60Hz	7.4	16.9	160 (1410)	22	S4-40%
TRIAC-XC-02640*	110VAC, 1PH, 50/60Hz	2.0 (2.3)	3.0 (2.9)	300 (2640)	31 (26)	S4-70%
TRIAC-XC-02640*	220 VAC, 1PH, 50/60Hz	1.3 (1.3)	1.5 (1.4)	260 (2300)	31 (26)	S4-40%



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Model Series:	Input: [V, PH, Hz]	Full Load Current: [FLA@50Hz (FLA@60Hz)]	Locked Rotor Current: [LRA@50Hz (LRA@60Hz)]	Torque: [Nm (in-lbs)]	Operating Speed 90°: [Sec.@50Hz (Sec.@60Hz)]	Duty Cycle: [IEC 60034-1]
TRIAC-XC-02640*	24Vdc	8.9	30.8	240 (2120)	32	S4-35%
TRIAC-XC-02640A	24Vac, 24Vdc 1PH, 50/60Hz	8.9	30.8	240 (2120)	32	S4-35%
TRIAC-XC-04400*	110VAC, 1PH, 50/60Hz	3.8 (4.5)	4.9 (5.0)	450 (3980)	35 (29)	S4-30%
TRIAC-XC-04400*	220 VAC, 1PH, 50/60Hz	1.5(1.9)	2.5 (2.4)	450 (3980)	35 (29)	S4-30%
TRIAC-XC-06900*	110VAC, 1PH, 50/60Hz	5.0 (5.1)	7.4 (7.3)	800 (6900)	37 (31)	S4-30%
TRIAC-XC-06900*	220 VAC, 1PH, 50/60Hz	2.2 (2.4)	3.9 (3.8)	800 (6900)	41 (34)	S4-30%
TRIAC-XC-10500*	110VAC, 1PH, 50/60Hz	5.4 (5.4)	7.4 (7.3)	1100 (9600)	37 (31)	S4-30%
TRIAC-XC-10500*	220 VAC, 1PH, 50/60Hz	3.3 (3.4)	3.9 (3.8)	940 (8300)	41 (34)	S4-30%
TRIAC-XC-17500*	110VAC, 1PH, 50/60Hz	5.7 (5.8)	7.4 (7.3)	2000 (17500)	112 (93)	S4-30%
TRIAC-XC-17500*	220 VAC, 1PH, 50/60Hz	2.2 (2.4)	3.9 (3.8)	2000 (17500)	112 (93)	S4-30%
TRIAC-XC-25900*	110VAC, 1PH, 50/60Hz	6.3 (6.3)	7.4 (7.3)	3000 (25900)	112 (93)	S4-30%
TRIAC-XC-25900*	220 VAC, 1PH, 50/60Hz	3.3 (3.4)	3.9 (3.8)	3000 (25900)	112 (93)	S4-30%

Notes:

1. Valve actuators are evaluated as general purpose valve actuators with 6,000 operations, intended for 90° turn operations.
2. Auxiliary switches for external connection are rated: 125/250VAC, 16A max; 125VDC, 0.6A max; 250VDC, 0.3A max
3. TRIAC-XCD-01350*X* and TRIAC-XCD-01700*X* models rated 220Vac may bear an additional character "D" designating it can be used with DHC-100A and 24Vdc model with DMC-102A control card for modulation application. Valve are evaluated to 6000 operation as general purpose valve actuator.



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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-10	General Requirements – Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 94.1-15	Enclosures for Electrical Equipment, Non-Environmental Considerations.
CAN/CSA C22.2 No. 94.2-15	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 60529:16	Degrees of Protection Provided By Enclosures (IP Code)
CAN/CSA C22.2 No. 30-M1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA C22.2 No. 60079-0:11	Explosive Atmospheres – Part 0: Equipment – General Requirements
CAN/CSA C22.2 No. 60079-1:11	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/UL 50 (Thirteenth Edition)	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 50E (Second Edition)	Enclosures for Electrical Equipment, Environmental Considerations
IEC 60529 (Edition 2.2 2013-08)	Degrees of Protection Provided By Enclosures (IP Code)
ANSI/UL 1203 (Fourth Edition)	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ANSI/UL 60079-0 (Fifth Edition)	Explosive Atmospheres – Part 0: Equipment – General Requirements
ANSI/UL 60079-1 (Sixth Edition)	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”

The following standard(s) were used in whole or in part as a guideline.

C22.2 No. 139-10	Electrically Operated Valves
UL 429 (Sixth Edition)	Electrically Operated Valves
IEC 60079-0:2007 (Fifth Edition)	Explosive Atmospheres – Part 0: Equipment – General Requirements
IEC 60079-1:2007 (Sixth Edition)	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”



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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 products listed are eligible to bear the CSA Mark shown with adjacent indicators “C” and “US” for Canada and U.S. (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator “US” for U.S. only or without either indicator for Canada only.

Method of Marking: The following markings shall be provided on a 0.4 mm thick SUS304 stainless steel nameplate, secured by two rivets to the enclosure base near the cover joint.

The following markings shall appear on each unit:

1. The CSA Mark: As shown on the Certificate of Conformity.
2. Manufacturer’s name, trademark, or CSA Master Contract Number “258948” adjacent to the CSA Mark in lieu of manufacturer’s name.
3. The characters “CSA 15.70028792”, designating the certification body, followed by the last two digits of the year of report issue, followed by a period, followed by the report number.
4. Model number: As specified in the PRODUCTS section above.
5. Electrical ratings: As specified in the PRODUCTS section above.
 - a. Voltage
 - b. The notation “AC” or “DC” as applicable
 - c. Frequency and the number of phases for AC voltages
 - d. Full load current
 - e. Maximum rated torque
 - f. Duty cycle or time rating, if not continuous

- Note:** Time rating shall be expressed in maximum ON and minimum OFF period
6. Electrical ratings of contacts for the control of external loads.
 7. Ambient temperature rating: As specified in the PRODUCTS section above.
 8. Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
 9. Identification of factory location, when produced at multiple locations.
 10. Enclosure ratings: As specified in the PRODUCTS section above.
 11. Hazardous Location designation: As specified in the PRODUCTS section above (may be abbreviated).



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12. Method of Protection (Ex) markings: As specified in the PRODUCTS section above.

13. Temperature code: As specified in the PRODUCTS section above.

14. The following or equivalent words:

- a. “CAUTION - USE SUPPLY WIRES SUITABLE FOR AT LEAST 90 °C (194 °F)” and “ATTENTION - EMPLOYER DES FILS D’ALIMENTATION QUI CONVIENNENT POUR AU MOINS 90 °C (194 °F)” located at or near the point where field connections are made.
- b. “CAUTION - OPEN CIRCUIT BEFORE REMOVING COVER” and “ATTENTION - OUVRIR LE CIRCUIT AVANT D’ENLEVER LE COUVERCLE”.
- c. “A SEAL SHALL BE INSTALLED WITHIN 50 MM OF THE ENCLOSURE” and “UN SCCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 50 MM DU BOÎTER”.
- d. “CAUTION - THIS ACTUATOR SHALL NOT BE EXPOSED TO ACETIC ACID OR METHANOL” and “ATTENTION - CET ACTIONNEUR DOIT PAS ÊTRE EXPOSÉ À L’ACIDE OU MÉTHANOL ACÉTIQUE”



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
70187848	June 28, 2018	Evaluation to update Multiple Listing Report 70028792 per Model Comparison with Report 70015929, Project 70178798.
70106031	Dec. 16, 2016	Evaluation to update Multiple Listing Report 70028792 per Model Comparison with Report 70015929, Project 70098412.
70028792	May 19, 2015	Original Certification. Multiple Listing with A-T Controls, Inc. (Model comparison with Report 249581-70015929)..

Submitter Certificate	SUBMITTER HKC Co., Ltd.	LISTEE A-T Controls, Inc.	Listee Project
70015929 Project 70098412	HQ-0083*00	TRIAMC-XC-00690*	70028792
	HQ-0103*00	TRIAMC-XC-00860*	
	HQ-0153*00	TRIAMC-XC-01350*	
	HQ-0203*00	TRIAMC-XC-01700*	
	HQ-0303*00	TRIAMC-XC-02640*	
	HQ-0503*00	TRIAMC-XC-04400*	
	HQ-0803*00	TRIAMC-XC-06900*	
	HQ-1203*00	TRIAMC-XC-10500*	
	HQ-2003*00	TRIAMC-XC-17500*	
	HQ-3003*00	TRIAMC-XC-25900*	
	HQ-0153*03	TRIAMC-XCD-01350*X*	
	HQ-0203*03	TRIAMC-XCD-01700*X*	
70015929 Project 70178798			701878487
	HQ-00838	XC-00690A	
	HQ-0083A	XC-00690N	
	HQ-01038	XC-00860A	
	HQ-0103A	XC-00860N	
	HQ-01538	XC-01350A	
	HQ-02038	XC-01700A	
	HQ-03038	XC-02640A	