

**AWWA**  
C540-93

**CSA**<sup>®</sup>  
C 201383 US  
TYPE 4, 4X

**WE Series Weatherproof**  
CSA Approved TYPE 4 & 4X IP67

SIL<sup>✓</sup>  
IEC 61508 / IEC 61511



**KE Series**  
Weatherproof IP67

**XE Series Explosion Proof**  
ATEX/IECEX Certified  
Ex db IIB T4 Gb  
Ex tb IIIC T135°C Db  
IP67



**XC Series**  
**CSA Explosion Proof**  
Class I, Division 1, Group C & D, T4  
Ex d IIB T4 Gb  
Class I, Zone 1, AEx d IIB T4 Gb

**CSA**<sup>®</sup>  
C 258948 US  
TYPE 4, 4X, 6 & 7

**Ex**  
II 2 G  
II 2 D  
**IECEX**

# XC Series



## CSA Certification

Class I, Division 1, Groups C, D T4  
 Ex d IIB T4 Gb  
 Class I, Zone 1, AEx d IIB T4 Gb  
 TYPE 4, 4X, 6 & 7, IP66/IP67

## Standard Features

- Visual position indicator
- Torque switches (XC-01350 – XC-25900)
- Anti-condensation heater and thermostat
- Two auxiliary limit switches
- Self-locking gear train
- Manual handwheel with torque from 690 in-lbs to 25900 in-lbs
- Available supply voltages: 12VDC, 24VDC, 24VAC, 120VAC & 220VAC
- Optional proportional control (select sizes and voltages)
- Various inputs with feedback available

## Triac XC Series Actuators

See **How To Order XC Series** on page 4

The Triac XC Series Actuators are CSA Certified Type 4, 4X, 6 & 7 for hazardous locations and meet UL 1203 standard. The actuators are rugged and reliable with powder coated anodized aluminum housing for use in Oil, Gas, Chemical & Power Gen applications. The XC Series is the perfect match for resilient or high-performance butterfly valves and dampers because of the self-locking, double reduction worm drive and torque switches. The XC Series is also ideal for ball, plug or any rotary valve requiring automation in a hazardous location.

NOTE: XC Series Actuators cannot be used in applications where there is exposure to acetic acid or methanol.

Actuator Model	Maximum Load Torque				Speed, sec/90°				Full Load Amps (FLA)				Locked Rotor Amps (LRA)				Duty Cycle*				Hand-wheel Turns	Lbs
	In-Lbs				60Hz	60Hz	60Hz/DC	DC	60Hz	60Hz	60Hz/DC	DC	60Hz	60Hz	60Hz/DC	DC	S4 (IEC 60034-1)					
XC	110 VAC	220 VAC	24V AC/DC	12 VDC	110 VAC	220 VAC	24V AC/DC	12 VDC	110 VAC	220 VAC	24V AC/DC	12 VDC	110 VAC	220 VAC	24V AC/DC	12 VDC	110 VAC	220 VAC	24V AC/DC	12 VDC		
-00690	690	690	620	350	20	20	17	11	1.2	0.6	5	13.5	1.4	0.7	12.8	21.7	40%	40%	30%	30%	10	16.4
-00860	860	790	700	440	20	20	20	11	1.2	0.6	6.3	13.5	1.4	0.7	12.8	21.7	40%	40%	30%	30%	10	16.4
-01350	1350	1350	1350	-	21	23	22	-	2	1	6	-	2.5	1.2	16.9	-	70%	35%	40%	-	11	36.7
-01700	1700	1590	1410	-	21	23	22	-	2.3	1.1	7.4	-	2.5	1.2	16.9	-	70%	35%	40%	-	11	36.7
-02640	2640	2300	2120	-	26	26	32	-	2.3	1.3	8.9	-	2.9	1.4	30.8	-	70%	40%	35%	-	13.5	48.6
-04400	3980	3980	-	-	29	29	-	-	4.5	1.9	-	-	5	2.4	-	-	30%	30%	-	-	13.5	50.8
-06900	6900	6900	-	-	31	34	-	-	5.1	2.4	-	-	7.3	3.8	-	-	30%	30%	-	-	16.5	64
-10500	9600	8300	-	-	31	34	-	-	5.4	3.4	-	-	7.3	3.8	-	-	30%	30%	-	-	16.5	64
-17500	17500	17500	-	-	93	93	-	-	5.8	2.4	-	-	7.3	3.8	-	-	30%	30%	-	-	49.5	167
-25900	25900	25900	-	-	93	93	-	-	6.3	3.4	-	-	7.3	3.8	-	-	30%	30%	-	-	49.5	167

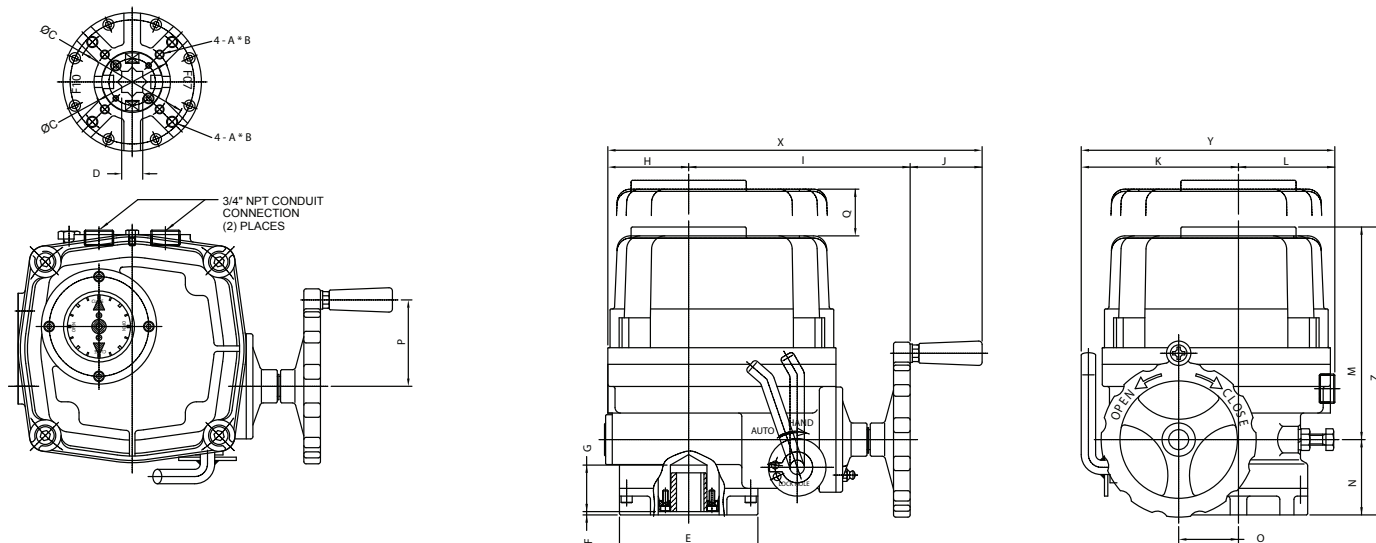
\*DUTY CYCLE: FULL LOAD WITH 158°F AMBIENT TEMP

# XC Series

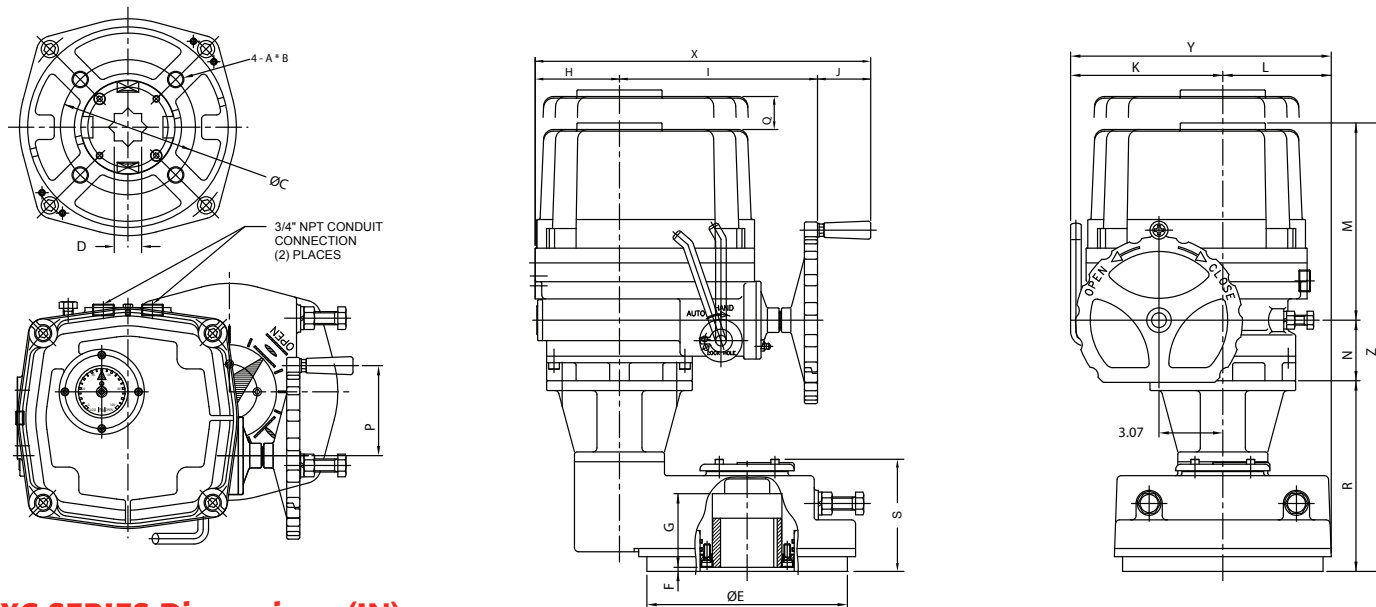
ELECTRIC ACTUATORS

## Dimensional Drawings

XC-00690, 00860, 01350, 01700, 02640, 04400, 06900, 10500



XC-17500, 25900



### XC SERIES Dimensions (IN)

Model XC	ISO 5211	A	B	C	D sq	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	X	Y	Z
-00690	F07	M8	0.47	2.756	0.669	3.46	0.12	1.26	1.97	6.18	2.01	3.94	2.76	7.10	2.09	1.57	2.36	4.72	-	-	10.16	6.69	9.78
-00860	F07	M8	0.47	2.756	0.669	3.46	0.12	1.26	1.97	6.18	2.01	3.94	2.76	7.10	2.09	1.57	2.36	4.72	-	-	10.16	6.69	9.78
-01350	F07/F10	M8/M10	0.47/0.59	2.756/4.016	0.748	4.92	0.12	1.65	2.87	7.87	2.56	5.59	3.43	8.09	2.68	2.13	3.07	6.30	-	-	13.31	9.02	11.08
-01700	F07/F10	M8/M10	0.47/0.59	2.756/4.016	0.748	4.92	0.12	1.65	2.87	7.87	2.56	5.59	3.43	8.09	2.68	2.13	3.07	6.30	-	-	13.31	9.02	11.08
-02640	F10/F12	M10/M12	0.59/0.71	4.016/4.921	1.063	5.83	0.12	1.93	3.23	8.70	2.56	6.30	3.90	9.23	2.72	2.56	3.07	7.09	-	-	14.49	10.20	11.95
-04400	F10/F12	M10/M12	0.59/0.71	4.016/4.921	1.063	5.83	0.12	1.93	3.23	8.70	2.56	6.30	3.90	9.23	2.72	2.56	3.07	7.09	-	-	14.49	10.20	12.50
-06900	F14	M16	0.95	5.512	1.417	7.01	0.12	2.24	4.06	9.53	2.56	7.32	4.37	10.02	2.91	3.07	4.33	8.27	-	-	16.14	11.69	13.52
-10500	F14	M16	0.95	5.512	1.417	7.01	0.12	2.24	4.06	9.53	2.56	7.32	4.37	10.02	2.91	3.07	4.33	8.27	-	-	16.14	11.69	13.52
-17500	F16	M20	1.18	6.496	1.417	9.65	0.20	3.54	4.06	9.53	2.56	7.32	5.24	10.02	2.91	3.07	4.33	8.27	9.17	5.24	16.14	12.56	22.70
-25900	F16	M20	1.18	6.496	1.417	9.65	0.20	3.54	4.06	9.53	2.56	7.32	5.24	10.02	2.91	3.07	4.33	8.27	9.17	5.24	16.14	12.56	22.70

# How to order XC Series

## TRIAS® XC Series

### CSA Approved Explosion Proof Actuators

### Part Number Reference

Series	
XC	Explosion Proof, CSA Class I, Division 1, Groups C, D; T4 Type 4, 4X, 6 & 7, IP66/IP67 Ex d IIB T4 Gb Class I, Zone 1, AEx d IIB T4Gb

Control	
Blank	(2) Position Control (Open / Close)
D	Modulating Controller (Sizes 01350 -01700) See Note 2



Actuator Size	Output Torque			
	110 VAC	220 VAC	24V AC/DC	12 VDC
-00690	690	690	620	350
-00860	860	790	700	440
-01350	1,350	1,350	1,350	-
-01700	1,700	1,590	1,410	-
-02640	2,640	2,300	2,120	-
-04400	3,980	3,980	-	-
-06900	6,900	6,900	-	-
-10500	9,600	8,300	-	-
-17500	17,500	17,500	-	-
-25900	25,900	25,900	-	-

Motor	
X	110VAC/1PH
A	24VDC/24VAC on/off (Sizes 00690 - 02640)
B	12VDC (Sizes 00690 & 00860)
C	24VDC XCD MODELS ONLY (Sizes 01350 - 01700)
E	220VAC /1PH
N	12VDC/12VAC on/off (Sizes 00690 - 00860)

Options		Note: Add all miscellaneous options to end of part number
Blank	No options	
XT	0-10VDC/4-20mA Transmitter	XCD MODELS ONLY

**NOTE:**

- (1) Class I, Division 2 areas require a certified seal-off fitting during installation.
- (2) cCSAus certification only applies to sizes 01350 & 01700 when used with motor voltage C or E.



### Example

**XC-01350X** - Triac Explosion Proof Electric Actuator, 1350 In-Lbs (150Nm), 21 Second Operation, 110VAC/1PH, 50-60Hz, 2 FLA, Two Position Control, ISO Mounting, 10 Watts Compartment Heater & Thermostat, (2) Auxiliary Limit Switches with Independent Cams, (2) Torque Switches, Diecast Anodized Aluminum Polyester Coated Construction, Class F Extended Duty Fan Motor, Manual Override, (2) 3/4" NPT Conduit Connections, F07/F10 ISO Mounting Pad, 19MM (0.748) Star Output Drive, cCSAus Approved Class I, Division 1, Groups C, D; T4, Ex d IIB Gb T4, Class I, Zone 1, AEx d IIB Gb T4, Type 4, 4X, 6 & 7, IP66, IP67, Ambient Temp = -20°C to +60°C  
Color - Silver

A-T Controls reserves the right to change product designs and technical/dimensional specifications without notice. See website for updates.