



Certificate no. TAI-FS-C-23-0003

WE HEREBY CERTIFY THAT

Product description ELECTRICAL ACTUATOR

Series BIFFI™ SERIES ICON3000
BETTIS™ SERIES XTE3000

Configurations

- ICON/XTE, multi-turn actuator
- BGR (Bevel Gear Reducer) + ICON/XTE, multi-turn actuator
- SGR (Spur Gear Reducer) + ICON/XTE, multi-turn actuator
- WGR (Worm Gear Reducer) + ICON/XTE, quarter-turn actuator
- ELGA (scotch-yoke reducer) + ICON/XTE, quarter-turn actuator
- ICON3000L/XTE3000L, linear actuator

All with 3-phase / single-phase / DC motors

Manufacturer Emerson Process Management (Tianjin) Valves Co. Ltd.
No. 15, Xingwang Road
Wuqing Development Area
Tianjin, 301700
People's Republic of China

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

IEC 61508 Parts 1–7:2010

AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION
SET OUT IN THE ABOVE-MENTIONED STANDARDS

Summary Report no. TAI-FS-R-23-0007

Expiry date 08.01.2026

Issue date 09.01.2023

TÜV AUSTRIA ITALIA - Blu Solutions s.r.l.
09.01.2023, Monte Roberto (AN)

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Cod. Id. CEE IT02217380423 REA AN n. 170070
A socio unico, soggetta a controllo e coordinamento di:
TÜV AUSTRIA HOLDING AG, Deutschstrasse 10, 1230, Vienna, Austria
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Annex to certificate no. TAI-FS-C-23-0003

Type	B
HFT	0
Safety functions	<ol style="list-style-type: none"> 1. The actuator maintains its position (stay put), according to the settings of the ESD signal 2. The actuator moves to a defined position (close / open / pre-set position), according to the settings of the ESD signal
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
Biffi™ series ICON3000, Bettis™ series XTE3000 (with internal diagnostics, including PST)	1	8,25E-09	1,60E-08	1,61E-08
Biffi™ series ICON3000, Bettis™ series XTE3000 (with internal diagnostics, including PST)	2	7,10E-08	1,38E-07	1,61E-08

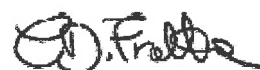
Systematic capability	2 (Route 2s applied)			
Architectural constraints	Route 1_H:	Not applied	Route 2_H:	Applied
	The product can be used in: <ul style="list-style-type: none"> • single channel configuration: up to SIL 2 • double channel configuration: up to SIL 3 			

Remarks:

- For further details, including environmental conditions, limitations of use, lifetime, failure rates traceability, mean repair times, common cause factors and systematic capability constraints, make reference to Safety Manual SM 031, SM-031-XTE3000.

END OF CERTIFICATE

TÜV AUSTRIA ITALIA - Blu Solutions s.r.l.
09.01.2023, Monte Roberto (AN)



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