



Certificate no. TAI-FS-C-24-0008

WE HEREBY CERTIFY THAT

Product description ELECTRICAL ACTUATOR

Models ICON2000

Configurations

- ICON multi-turn actuator
- BGR (Bevel Gear Reducer) multi-turn actuator
- SGR (Spur Gear Reducer) multi-turn actuator
- WGR (Worm Gear Reducer) quarter-turn actuator
- ELGA actuator, with scotch-yoke reducer
- ICON2000L linear actuator

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

Manufacturer

BIFFI ITALIA S.r.l.
Strada Biffi 165
I-29017 Fiorenzuola d'Arda (PC)

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-24-0016

Expiry date 13.02.2027

Issue date 14.02.2024

TUV AUSTRIA ITALIA
14.02.2024, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

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TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria
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Annex to certificate no. TAI-FS-C-24-0008

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]
ICON2000 (with internal diagnostics, including PST)	1	9,59E-09	1,86E-08	1,28E-08
ICON2000 (with internal diagnostics, including PST)	2	7,27E-08	1,41E-07	1,49E-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 011

END OF CERTIFICATE

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