



C E R T I F I C A T E

Certificate no. 17-SIL-0010008-05-TIC

WE HEREBY CERTIFY THAT

Product description ELECTRICAL ACTUATOR

Series 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.

Loc. Caselle S. Pietro – 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. RC-1017-SIL-TIC-PC-0010008-17-10

Expiry date 30.10.2020

Note

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.

This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Reggio Emilia, 31.10.2017

Eng. Andrea Vivi
TÜV INTERCERT Certification Body

Page 1 of 2

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ ■ 証明書 ■ 인증서

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ



C E R T I F I C A T E

ANNEX to Certificate no. 17-SIL-0010008-05-TIC

Type	B
HFT	0
Safety functions	<ol style="list-style-type: none"> The actuator maintains its position (stay put), according to the settings of the ESD signal 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	1,00E-08	3,36E-08	7,16E-08
ICON2000 (with internal diagnostics, including PST)	2	6,34E-08	2,12E-07	7,16E-08

Systematic capability	2 (Route 2 _S 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

Reggio Emilia, 31.10.2017


 Eng. Andrea Vivi
 TÜV INTERCERT Certification Body

Page 2 of 2

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTİFİKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ ■ 証明書 ■ 証明 ■ شهادة

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ SERTİFİKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ