



**Certificate no. TAI-FS-C-24-0038**

WE HEREBY CERTIFY THAT

**Product description** ELECTRICAL ACTUATOR

**Models** F01-2000

**Configurations**

- F01.150-xyz
- F01.300-xyz
- F01.600-xyz

with single-phase or 3-phase 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-24-0076

**Expiry date** 28.04.2027

**Issue date** 29.04.2024

TUV AUSTRIA ITALIA  
29.04.2024, Monte Roberto (AN)

Ing. Crescenzo Di Fratta

**TUV AUSTRIA ITALIA S.p.A.**  
Via del Commercio, 6/A 60030 Monte Roberto (AN)  
+39 0731 22781 - info@tuvaustraiitalia.com - tuvaustraiitalia@pec.it  
C.F./P. IVA IT01055750333 - Cap. Soc. i.v. € 400.000,00 - REA AN n. 211030  
Società a socio unico, soggetta a controllo e coordinamento di:  
TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria  
www.tuvaustraiitalia.com

**Annex to certificate no. TAI-FS-C-24-0038**

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

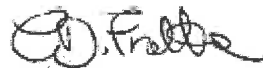
Random failure rates				
Configuration	Safety function	$\lambda_{DU}$ [1/h]	$\lambda_{DD}$ [1/h]	$\lambda_S$ [1/h]
F01-2000 (with internal diagnostics, including PST)	1	1,25E-08	3,97E-08	3,52E-08
F01-2000 (with internal diagnostics, including PST)	2	5,60E-08	1,77E-07	3,52E-08

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

- 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 015

END OF CERTIFICATE

TUV AUSTRIA ITALIA  
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