



Product Notice

Biffi ICON3000

FOR YOUR INFORMATION

ICON3000 Multiturn Electric Actuator:

The extremely reliable and flexible Biffi ICON family of electric multi-turn actuators has been for more than 20 years a real “icon” across the global market for oil & gas, power and process industry operators.

With the new interface and position detection system, we are taking the ICON3000 a step forward enhancing its reliability and smartness.

This is to inform you that ICON3000 Multiturn Electric Actuator is the present currently offered replacements for ICON2000 Multiturn Electric Actuator.

The Biffi “ICON3000” Series electric actuator is a product made available since 2018.

The Biffi “ICON3000” Series electric actuator has been introduced in the BIFFI Electric Portfolio in order to upgrade the product with new features required by the market.

ADDITIONAL RESOURCES:

[Biffi ICON3000 Web Site](#)

[Electric Actuator](#)

[Brochure](#)

[Product Data Sheet](#)

[Certifications](#)

[Manuals](#)

Comparison table:

Main Features	ICON2000	ICON3000
Power supply: 3 phase from 208V to 690V at 50/60Hz, 1 single phase from 110V to 240V at 50/60Hz, DC (direct current) from 24V to 110V	✓	✓
Torque output: from 30 to 1,440Nm	✓	✓
Speed range: from 12 to 173RPM at 50/60Hz	✓	✓
Ambient temperature standard range: down to -60°C (-76F°)	✓	✓
Bluetooth™ wireless connectivity	✓	✓
Certification	ICON2000	ICON3000
Waterproof: IP68 or NEMA 4, 4X and NEMA 6	✓	✓
Ex-d IIB/IIC T4 higher Explosion Proof classifications available	✓	✓
Atex d, FM (US), FM_C (Canada), IECEx, NEMA, IP, CCC (China), EAC_(CU-TR), INMETRO (Brazil), KOSHA (Korea), CCOE (India), EAC (Emirates)	✓	✓
Suitable for SIL 2 applications	✓	✓
Functionality	ICON2000	ICON3000
Torque is calculated Compensates (voltage and temp.)	✓	✓
High accuracy all the way up to 173RPM	✓	✓
Can adjust output torque to 40-100% of nominal torque	✓	✓
On off & Modulating duty	✓	✓
Internal gearing (standard) 20:1, 40:1, 80:1	✓	✓
Coupling Block Detachable	✓	✓
Orientation Installation	✓	✓
Housing Material	✓	✓
Optional Gear Range	✓	✓
Fieldbus Optional	✓	✓

New Features	ICON2000	ICON3000
Absolute encoder	N/A	✓
New dot matrix OLED display	N/A	✓
Easy battery management	N/A	✓
DCMLink compatibility	N/A	✓

Extra Main Features implemented on ICON3000

Absolute encoder

- High Reliability with New Absolute Encoder
- Up to 8,580 output revolutions
- Position detection is guaranteed even without main power and lack of internal battery

New dot matrix OLED display

- Improved User Interface with New Dot Matrix OLED Display
wider screen switchable for text up to 4 lines
- Possibility to show more detailed information, icons, drawings
- User-friendly menu remains the same as ICON2000
- Operates effectively even under the strongest sunlight
- Suitable for extreme temperatures down to -60°C (-76°F)

Easy battery management

- Common battery, easy to find
- New seat, easier to replace
- Possibility of configuring a maintenance-free actuator without any battery
- Explosion proof design Guaranteed functionalities with battery:
 - Local position display active (LCD 3 ½ digit)
 - Real Time Clock back-up
 - Remote position indication active [4-20mA (ext. supplied) and relays]

DCMLink compatibility

- Fully compatible with DCMLink Emerson standard configuration tool

For further information or clarification, please contact me per the contact details outlined on this letter.

Please be notified that document are available on the
BIFFI | **Automation Solutions** | Electric Actuator webpage.

<https://biffi.it/en-us>

Sincerely,



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For Your Information emails are used by the Actuation Technologies business unit to share product and literature updates with employees and sales offices worldwide.

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