ELIKO TECHNOLOGY

# FLEXILINE

## BLDC SERIES

## FLXBL60-300-ELE-O

**Compact design - simple integration - high power density**



**Integrated BLDC Servo Motor**
**with EtherCAT Interface**

EtherCAT

# Key Benefits

### Compactness

60 mm square flange, 108 mm length and embedded electronics reduce cabinet space, wiring effort and integration volume.

### Power density

353 W rated power and 1.95 Nm peak torque in a compact FlexiLine package.

### Ease of use

EtherCAT communication, USB configuration, configurable I/O and integrated protections simplify commissioning.

# Technical Data

| Item Name | UM | FLXBL60-300-ELE-N-O |
|---|---|---|
| Rated Voltage | V | 48 |
| Rated Power | W | 353 |
| Rated Speed | RPM | 5200 |
| Rated Current | A | 9,2 |
| Peak Current | A | 27,6 |
| Rated Torque | Nm | 0,65 |
| Peak Torque | Nm | 1,95 |
| Torque constant | Nm/A | 0,07 |
| Voltage constant | V/krpm | 4,2 |
| Resistance line-line | Ω | 0.29 |
| Inductance line-line | mH | 0,35 |
| Number of poles | - | 10 |
| Rotor moment of inertia | $kg.cm^2$ | 0,39 |
| Flange | mm | 60 |
| Overall length | mm | 108 |
| Motor weight | g | 900 |

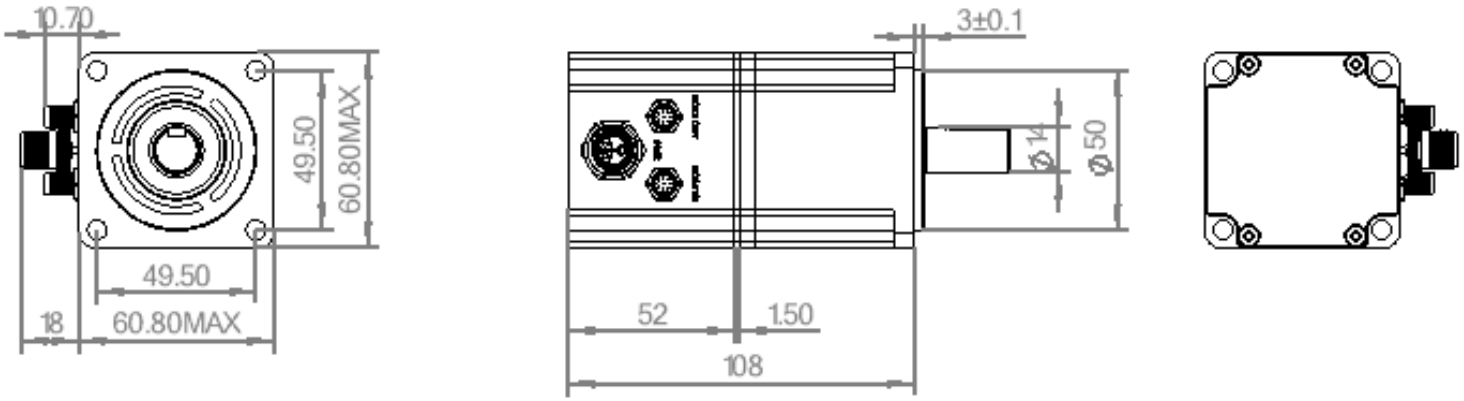
# Integrated Controller & Interface

| Item Name | UM | FLXBL60-300-ELE-N-O |
|---|---|---|
| Main supply range | VDC | 12-75 |
| Nominal supply | VDC | 48 |
| Communication | - | EtherCAT, USB configuration |
| Digital inputs | - | 3 opto-isolated, configurable |
| High-speed capture | µs | 5 minimum pulse width in latch/capture mode |
| Digital outputs | - | 2 opto-isolated outputs |
| Output supply / current | - | 12-30 VDC, up to 30 mA |
| Analog input | - | 1 differential, ±10 V |
| Analog resolution | bit | 12 |
| STO input | VDC | 12-28.8, nominal 24 |
| Protection functions | - | Short-circuit, over-current, over/under-voltage |
| Operating temperature | °C | -10 to +40 |
| Humidity | % | <85, non-condensing |

Data tolerances: ±10%. Subject to change without prior notice.

## Drawing

FLXBL60-300-ELE-N-O




Dimensions in mm

## Curves

