

FLXBL60-400-ELE

Compact design - simple integration - high power density

Integrated BLDC Servo Motor
with EtherCAT Interface



EtherCAT

Key Benefits

Compactness

60 mm square flange, 104 mm length and embedded electronics reduce cabinet space, wiring effort and integration volume.

Power density

400 W rated power and 3,81 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

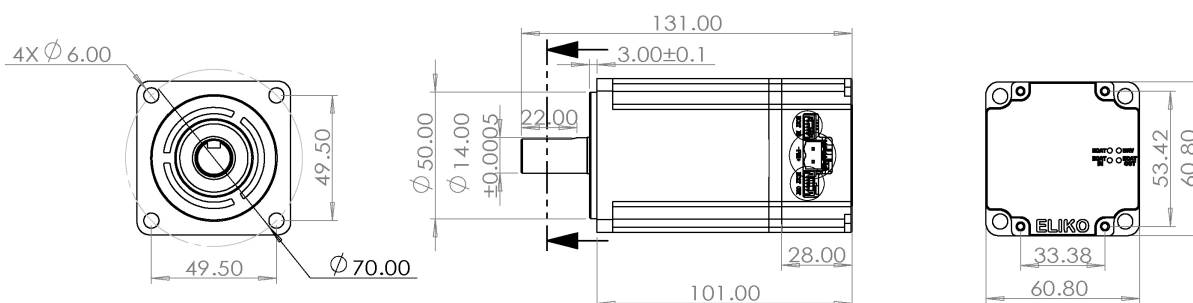
Item Name	UM	FLXBL60-400-ELE-N	FLXBL60-400-ELE-B
Rated Voltage	V	48	48
Rated Power	W	400	400
Rated Speed	RPM	3000	3000
Rated Current	A	11	11
Peak Current	A	33	33
Rated Torque	Nm	1,27	1,27
Peak Torque	Nm	3,81	3,81
Torque constant	Nm/A	0,115	0,115
Voltage constant	V/krpm	8,5	8,5
Resistance line-line	Ω	0,28	0,28
Inductance line-line	mH	0,5	0,5
Number of poles	-	10	10
Rotor moment of inertia	kg.cm ²	0,39	0,39
Flange	mm	60	60
Overall length	mm	104	134
Motor weight	g	1100	1450

Integrated Controller & Interface

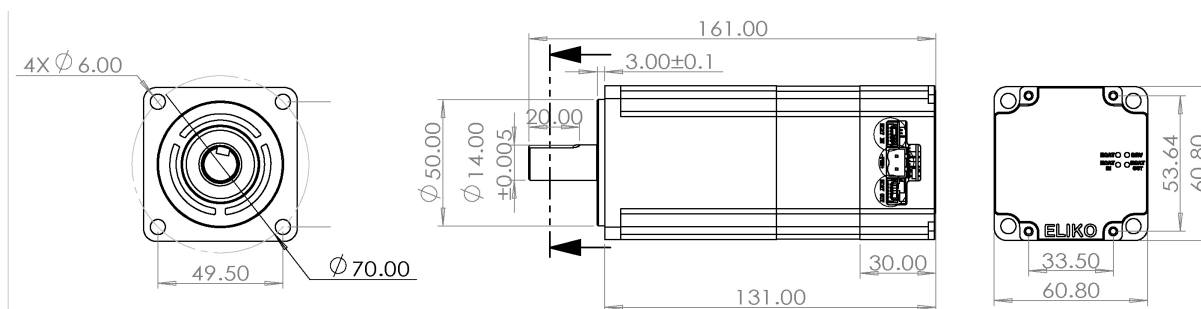
Item Name	UM	FLXBL60-400-ELE-N	FLXBL60-400-ELE-B
Main supply range	VDC	12-75	
Nominal supply	VDC	48	
Communication	-	EtherCAT, USB configuration	
Digital inputs	-	4 opto-isolated, configurable	
High-speed capture	μs	5 minimum pulse width in latch/capture mode	
Digital outputs	-	3 opto-isolated outputs	
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	

Drawing

FLXBL60-400-ELE-N



FLXBL60-400-ELE-B



Dimensions in mm

Curves

FLXBL60-400 Torque-Velocity - 48Vdc

