

FLXBL60-400-ELC

Compact design - simple integration - high power density

Integrated BLDC Servo Motor
with CANopen Interface



CANopen®

Key Benefits

Compactness

60 mm square flange, 101 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

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

Technical Data

Item Name	UM	FLXBL60-400-ELC-N	FLXBL60-400-ELC-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	101	134
Motor weight	g	1100	1450

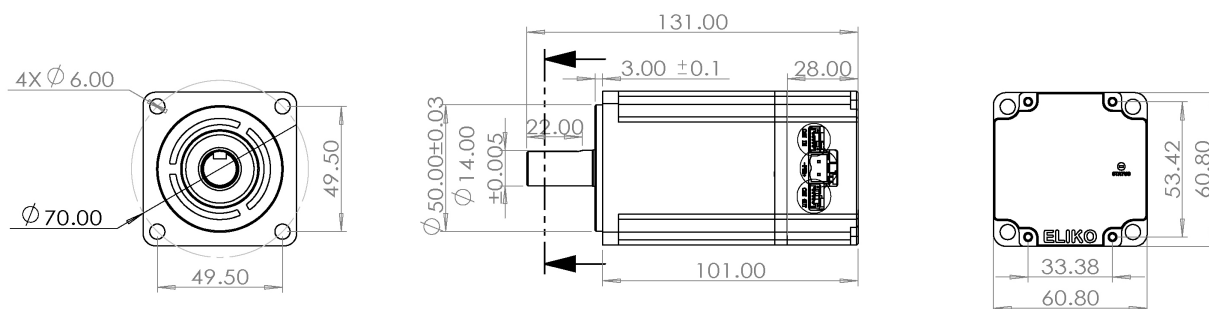
Integrated Controller & Interface

Item Name	UM	FLXBL60-400-ELC-N	FLXBL60-400-ELC-B
Main supply range	VDC	12-75	
Nominal supply	VDC	48	
Communication	-	CANopen, USB configuration	
CANopen network	-	Up to 127 stations	
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	

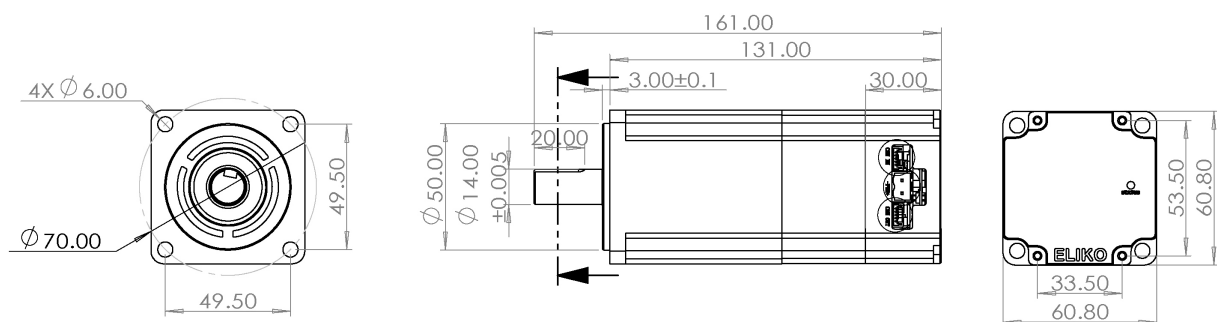
Data tolerances: ±10%. Subject to change without prior notice.

Drawing

FLXBL60-400-ELC-N



FLXBL60-400-ELC-B



Dimensions in mm

Curves

FLXBL60-400 Torque-Velocity - 48Vdc

