

FLXBL80-600-ELE

Compact design - simple integration - high power density

Integrated BLDC Servo Motor
with EtherCAT Interface



EtherCAT 

Key Benefits

Compactness

80 mm square flange, 140 mm length and embedded electronics reduce cabinet space, wiring effort and integration volume.

Power density

628 W rated power and 4,5 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	FLXBL80-600-ELE-N	FLXBL80-600-ELE-B
Rated Voltage	V	48	48
Rated Power	W	628	628
Rated Speed	RPM	4000	4000
Rated Current	A	17	17
Peak Current	A	51	51
Rated Torque	Nm	1,5	1,5
Peak Torque	Nm	4,5	4,5
Torque constant	Nm/A	0,088	0,087
Voltage constant	V/krpm	6,5	9,0
Resistance line-line	Ω	0,087	0,11
Inductance line-line	mH	0,41	0,41
Number of poles	-	10	10
Rotor moment of inertia	kg.cm ²	0,7	0,7
Flange	mm	80	80
Overall length	mm	140	170
Motor weight	g	1900	2500

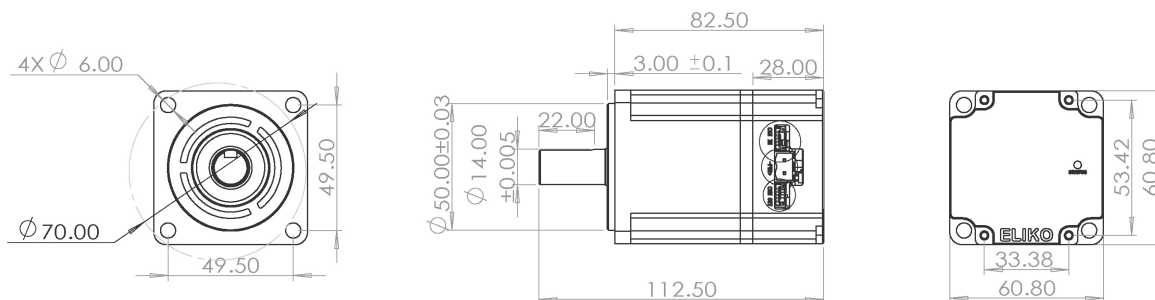
Integrated Controller & Interface

Item Name	UM	FLXBL60-300-ELE-N	FLXBL60-300-ELE-B
Main supply range	VDC	12-75	
Nominal supply	VDC	48	
Communication	-	EtherCAT, USB configuration	
CANopen network	-	Up to 127 stations	
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	

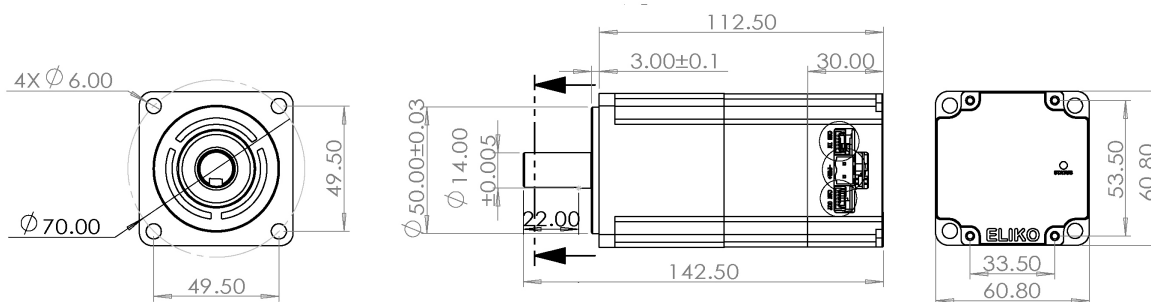
Data tolerances: ±10%. Subject to change without prior notice.

Drawing

FLXBL80-600-ELE-N



FLXBL80-600-ELE-B



Dimensions in mm

Curves

Torque-Velocity
Environment Temp:26.30°C , Humidity: 70%

