ELIKO TECHNOLOGY

FLEXILINE

BLDC SERIES

FLXBL80-600-ELE-O

Compact design - simple integration - high power density



Integrated BLDC Servo Motor
with EtherCAT Interface

EtherCAT

Key Benefits

Compactness

80 mm square flange, 119,50 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-O
Rated Voltage	V	48
Rated Power	W	628
Rated Speed	RPM	4000
Rated Current	A	17
Peak Current	A	51
Rated Torque	Nm	1,5
Peak Torque	Nm	4,5
Torque constant	Nm/A	0,088
Voltage constant	V/krpm	6,5
Resistance line-line	Ω	0,087
Inductance line-line	mH	0,41
Number of poles	-	10
Rotor moment of inertia	$kg.cm^2$	0,7
Flange	mm	80
Overall length	mm	119,50
Motor weight	g	185

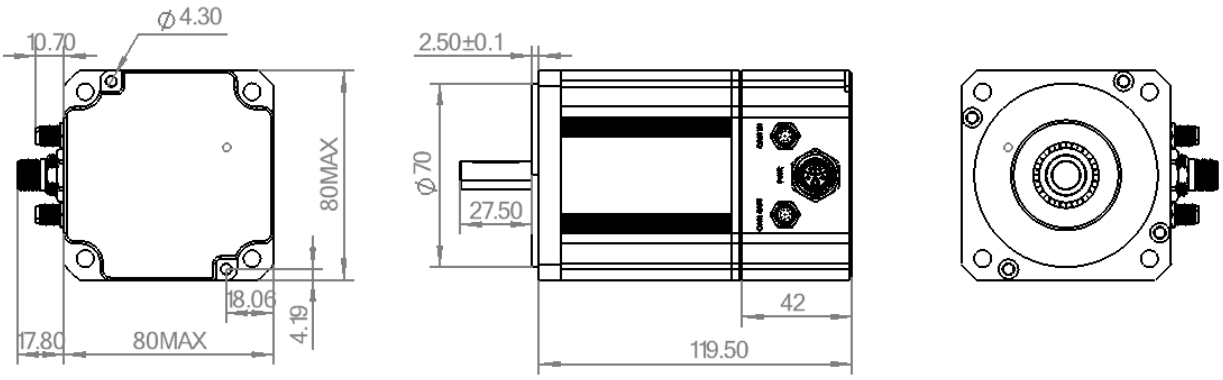
Integrated Controller & Interface

Item Name	UM	FLXBL60-300-ELE-N-O
Main supply range	VDC	12-75
Nominal supply	VDC	48
Communication	-	EtherCAT, USB configuration
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-O



Dimensions in mm

Curves

