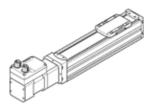
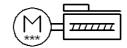
spindle axis unit ELGS-BS-KF-45-600-10P-ST-M-H1-PLK-AA Part number: 8083475







Data sheet

Feature	Value
Working stroke	600 mm
Size	45
Stroke reserve	0 mm
Spindle diameter	10 mm
Spindle pitch	10 mm/U
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
	with recirculating ball bearing spindle
	with integrated drive
Motor type	Stepper motor
Spindle type	Ball screw
Position detection	Motor encoder
- SSIGN GSISSISI	For proximity sensor
Referencing	Fixed stop block positive
	Fixed stop block negative
Rotor position sensor	Absolute single turn encoder
Rotary position encoder measuring principle	Magnetic
Temperature monitoring	Shutdown at over-temperature
Temperature monitoring	Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface
	Integrated end-position sensing
Display	LED
Ready status display	LED
Max. acceleration	5 m/s2
Max. speed	0.25 m/s
Repetition accuracy	±0,015 mm
Digital logic output characteristics	configurable
bigitut togic output characteristics	Not electrically isolated
Duty cycle	100 %
Insulation protection class	В
Max. current, digital logic outputs	100 mA
Max. current consumption	3 A
Nominal voltage DC	24 V
Nominal current	3 A
Parameters configuring interface	IO-Link
arameters comiganing interface	User interface
Rotor position encoder resolution	16 Bit
Permissible voltage fluctuation	+/- 15 %
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Power supply, connection technology Power supply, number of pins/wires	4
Authorization	RCM Mark
KC mark	KC-EMV
CE symbol (see declaration of conformity)	according to EU-EMV guideline
CL Symbol (See decidiation of Comoffility)	
	in accordance with EU RoHS directive



Feature	Value
UKCA marking (see declaration of conformity)	To UK instructions for EMC
, , , , , , , , , , , , , , , , , , ,	To UK RoHS instructions
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
PWIS conformity	VDMA24364 zone III
Storage temperature	-20 60 °C
Relative air humidity	0 - 90 %
Protection class	IP40
Safety class	III
Ambient temperature	0 50 °C
Note on ambient temperature	Above an ambient temperature of 30 °C, the power must be reduced by 2% per K.
Area moment of inertia 2nd degree ly	140E+03 mm4
Area moment of inertia 2nd degree Iz	170E+03 mm4
Max. force Fy	300 N
Max. force Fz	600 N
Fy with theoretical service life of 100 km (from a guide perspective only)	1,104 N
Fz with theoretical service life of 100 km (from a guide perspective only)	2,208 N
Max. torque Mx	5.5 Nm
Max. torque My	4.7 Nm
Max. torque Mz	4.7 Nm
Mx with theoretical service life of 100 km (from a guide perspective only	20 Nm
My with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Max. feed force Fx	100 N
Reference value for working load, horizontal	10 kg
Reference value for working load, vertical	5 kg
Torsional mass moment of inertia It	8.5E+03 mm4
Feed constant	10 mm/U
Moving mass	220 g
Product weight	3,514 g
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm
Static deflection (load at standstill)	0.1% of the axis length
Number of 24 V DC digital logic outputs	2
Number of digital logic inputs	2
Specification, logic input	Based on IEC 61131-2, type 1
Logic input working range	24 V
IO-Link, SIO mode support	Yes
Logic input characteristics	configurable
	Not electrically isolated
IO-Link, protocol	Device V 1.1
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, port type	A
IO-Link, number of ports	1
IO-Link, process data width OUT	2 Byte
IO-Link, process data content OUT	1 bit (Move in)
	1 bit (Move out)
	1 bit (Quit Error)
IO-Link, process data width IN	2 Byte
IO-Link, process data content IN	1 bit (State Device)
	1 bit (State Move)
	1 bit (State in)
10 Link Coming data control (18)	1 bit (State out)
IO-Link, Service data contents IN	32 bit Force
	32 bit Position
	32 bit Speed
IO-Link, minimum cycle time	1 ms
IO-Link, data memory required	0.5 Kilobyte
Max. line length	15 m outputs



Feature	Value
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	PNP (positive-switching)
Input circuit logic	PNP (positive-switching)
IO-Link, connection technology	Plug
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	High alloy steel, non-corrosive
Material drive cover	Die-cast aluminium, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Aluminum die cast
Material spindle nut	Steel
Material spindle	Steel