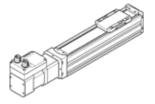
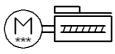
spindle axis unit ELGS-BS-KF-45-500-10P-ST-M-H1-PLK-AA Part number: 8083474

FESTO





Data sheet

Feature	Value
Working stroke	500 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
	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
	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
	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
	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 to EN 61076-2-111
Power supply, number of pins/wires	4
Authorisation	RCM Mark
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC
	in accordance with EU RoHS directive

FESTO

60063-27 Storage temperature 2060°C Relative air humidity 090% Protection class IP40 Safery class III Ambient temperature 0	942017-4 and tN 00082-3-4 Shock resistance 5 block testistance with PN 942 Sorage temperature 6008-3-27 Relative air humidity 0.90% Protection class 10 Ambient temperature 050 °C Anto temperature 050 °C Anto temperature 050 °C Acte on ambient temperature 050 °C Acte on ambient temperature 050 °C Acte on ambient temperature of 30 °C, the power must by 2% per K. 050 °C Area moment of inertia 2nd degree ly 1406-03 mm4 Area moment of inertia 2nd degree ly 1406-03 mm4 Area moment of inertia 2nd degree ly 1000 N Max. force fy 000 N Fy with theoretical service life of 100 km (from a guide perspective only) 1,040 N Fave with theoretical service life of 100 km (from a guide perspective only) 20 N Max. torque My 4.7 Nm Max. torque My 4.7 Nm <	Value
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Relative air humidity 0 - 90 % Protection class IP40 Sterty class III Ambient temperature 0 50 °C Aboxe on ambient temperature boxe an ambient temperature of 10 °C (the power must be reduced by 2% per K. Area moment of inertia 2nd degree ly 100-6-03 mm4 Area moment of inertia 2nd degree ly 100-6-03 mm4 Area moment of inertia 2nd degree ly 300 N Max. force Fy 300 N Max. force Fy 300 N Max. torque Mx 5.5 Mm Max. torque Mx 4.7 Mm Max. forque Mx 4.7 Mm Max. feed force fx 100 Mn/U	Relative air humidity 0.90 % Protection class IP40 Ambient temperature 0.50 °C Note on ambient temperature Above an ambient temperature of 10 °C, the power must log 2% per K. Area moment of inertia 2nd degree ly 1406-63 mm4 Area moment of inertia 2nd degree ly 1406-63 mm4 Area moment of inertia 2nd degree ly 1406-63 mm4 Max. force Fy 300 N Max. force Fy 300 N Max. force Fy 300 N Max. forque Mx 5.5 Nm Max. forque Mx 6.7 Nm <tr< td=""><td>Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27</td></tr<>	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
Protection class IP40 Safety class III Anbient temperature 0 50 °C Note on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 28 per K. Area moment of Inertia 2nd degree Iy 1064-03 mm4 Area moment of Inertia 2nd degree Iz 17064-03 mm4 Max. force Fy 300 N Max. force Fy 300 N Max. torge My 1.10 A N Zr with theoretical service IIF of 100 km (from a guide perspective only) 2.00 N Max. torgue Mx 5.5 Nm Max. torgue Mx 4.7 Mm Max. torgue for working load, horizontal 100 N Reference value for working load, horizontal 10 kg Reference value for working load, horizontal<	Protection class Protection Prote	-20 60 °C
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20 m with IO-Link operation		
	Switching logic, outputs PNP (positive-switching)	

FESTO

Feature	Value
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	Contains PWIS substances
	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	Aluminium die cast
Material spindle nut	Steel
Material spindle	Steel