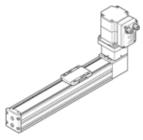
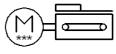
toothed belt axis unit ELGS-TB-KF-60-500-ST-M-H1-PLK-AA Part number: 8083572

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	500 mm
Size	60
Stroke reserve	0 mm
Toothed-belt stretch	0.124 %
Toothed-belt pitch	3 mm
Assembly position	Horizontal
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
	With toothed belt
	with integrated drive
Motor type	Stepper motor
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	6 m/s2
Max. speed	1.3 m/s
Repetition accuracy	±0,1 mm
Digital logic output characteristics	configurable
0	Not electrically isolated
Duty cycle	100 %
Insulation protection class	В
Max. current, digital logic outputs	
Max. current consumption	5.3 A
Nominal voltage DC	24 V
Nominal current	5.3 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 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
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	in accordance with EU RoHS directive



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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	
Ambient temperature	0 50 °C
Note on ambient temperature	Above an ambient temperature of 30 $^{\circ}\text{C}$, the power must be reduced by 2% per K.
Area moment of inertia 2nd degree ly	441E+03 mm4
Area moment of inertia 2nd degree Iz	542E+03 mm4
Max. force Fy	600 N
Max. force Fz	1,800 N
Max. torque Mx	29.1 Nm
Max. torque My Max. torque Mz	31.8 Nm 31.8 Nm
Max. forque Mz Max. feed force Fx	65 N
Reference value for working load, horizontal	65 N 4 kg
Torsional mass moment of inertia It	29.8E+03 mm4
Feed constant	78 mm/U
Moving mass	482 g
Moving mass with 0 mm stroke	482 g
Slide weight	139 g
Product weight	5,105 g
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 IO-Link, communication mode	Device V 1.1
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, number of ports	1
IO-Link, process data width OUT	2 Byte
IO-Link, process data wheth OOT	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)
	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
	15 m inputs
Switching logic outputs	20 m with IO-Link operation
Switching logic, outputs Input circuit logic	PNP (positive-switching) PNP (positive-switching)
IO-Link, connection technology	Plug
Logic interface, connection type	Plug
	11 105

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Feature	Value
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	Stainless steel strip
Material drive cover	Die-cast aluminium, painted
Material guide slide	Heat-treatment steel
Material guide rail	Heat-treatment steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Aluminum die cast
Material toothed belt	Polychloroprene with glass fibers