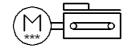
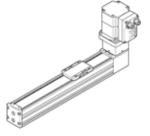
toothed belt axis unit ELGS-TB-KF-45-1000-ST-M-H1-PLK-AA Part number: 8083670







Data sheet

Feature	Value
Effective diameter of drive pinion	19.1 mm
Working stroke	1,000 mm
Size	45
Stroke reserve	0 mm
Toothed-belt stretch	0.187 %
Toothed-belt pitch	2 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
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	6 m/s2
Max. speed	1.2 m/s
Repetition accuracy	±0,1 mm
Digital logic output characteristics	configurable
Digital logic output characteristics	Not electrically isolated
Duty cycle	100 %
Insulation protection class	В
Max. current, digital logic outputs	100 mA
Max. current consumption	5.3 A
Nominal voltage DC	24 V
Nominal current	5.3 A
Parameters configuring interface	IO-Link
arameters comiguing 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 to EN 61076-2-111
Power supply, connection technology Power supply, number of pins/wires	
Authorisation	4 RCM Mark
	KC-EMV
KC mark CE mark (see declaration of conformity)	to EU directive for EMC
	in accordance with EU RoHS directive



Value
To UK instructions for EMC
To UK RoHS instructions
Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
VDMA24364 zone III
-20 60 °C
0 - 90 %
IP40
0 50 °C
Above an ambient temperature of 30 $^{\circ}$ C, the power must be reduced by 2% per K.
140E+03 mm4
170E+03 mm4
300 N
600 N
5.5 Nm
4.7 Nm
4.7 Nm
75 N
2.5 kg
8.5E+03 mm4
60 mm/U
169 g
169 g
55 g
4,090 g
2
2
Based on IEC 61131-2, type 1
24 V
Yes
configurable
Not electrically isolated Device V 1.1
COM3 (230.4 kbd)
A
1 2 Byte
1 bit (Move in)
1 bit (Move out)
1 bit (Move out) 1 bit (Quit Error)
2 Byte
1 bit (State Device)
1 bit (State Move)
1 bit (State in)
1 bit (State out)
32 bit Force
32 bit Position
32 bit 7 oskton
1 ms
0.5 Kilobyte
15 m outputs
15 m inputs
20 m with IO-Link operation
PNP (positive-switching)
PNP (positive-switching)
Plug
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1



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	Aluminium die cast
Material toothed belt	Polychloroprene with glass fibres