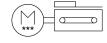
## Toothed belt axis unit ELGS-TB-KF-60-600-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8083573





## **Data sheet**

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	600 mm
Size	60
Stroke reserve	0 mm
Toothed-belt stretch	0.124 %
Toothed-belt pitch	3 mm
Mounting position	Horizontal
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With toothed belt With integrated drive
Position detection	Motor encoder Via proximity switch
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Temperature monitoring	Switch-off for excessive temperature Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	6 m/s <sup>2</sup>
Max. speed	1.3 m/s
Repetition accuracy	±0.1 mm
Features of digital logic outputs	Configurable Not galvanically 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
Parameterisation interface	IO-Link User interface

Value
+/- 15%
Plugs
M12x1, T-coded according to EN 61076-2-111
4
RCM trademark
To EU EMC Directive
In accordance with EU RoHS Directive
Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
VDMA24364 zone III
-20 °C60 °C
0 - 90%
IP40
0 ℃50 ℃
Power must be reduced by 2% per K at ambient temperatures above 30°C.
441000 mm⁴
542000 mm⁴
600 N
1800 N
29.1 Nm
31.8 Nm
31.8 Nm
65 N
4 kg
29800 mm <sup>4</sup>
78 mm/U
482 g
482 g
139 g
5535 g
2
2
24 V
Configurable Not galvanically isolated
Device V 1.1
COM3 (230.4 kBaud)
A
1
1-bit (move in) 1-bit (move out) 1-bit (quit error)
1-bit (state device) 1-bit (state move) 1-bit (state in) 1-bit (state out)
32-bit force 32-bit position 32-bit speed
0,5 kB
DND (itiit-l-i)
PNP (positive switching)
Plugs
<u>-</u>

Feature	Value
Logic interface, number of pins/wires	8
Material end cap	Painted die cast aluminium
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	Stainless steel strip
Material drive cover	Painted die cast aluminium
Material guide slide	Tempered steel
Material guide rail	Tempered steel
Material pulleys	High-alloy stainless steel
Material toothed belt	Polychloroprene with glass fibre