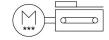
Toothed belt axis unit ELGE-TB-35-100-0H-ST-M-H1-PLK-AA-AT-FR

FESTO

Part number: 8083931





Data sheet

Feature	Value
Effective diameter of drive pinion	18.46 mm
Working stroke	100 mm
Size	35
Toothed-belt stretch	0.094 %
Toothed-belt pitch	2 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	8.5 m/s ²
Max. speed	0.72 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
Max. current consumption, logic	0.3 A
Nominal voltage DC	24 V
Nominal current	5.3 A
Parameterisation interface	IO-Link User interface

+/- 15%
·/ ±2/0
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 2 to FN 942017-4 and EN 60068-2-6
Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
VDMA24364 zone III
-20 °C60 °C
0 - 90%
IP20
0 °C50 °C
Power must be reduced by 2% per K at ambient temperatures above 30°C.
3770 mm⁴
4190 mm⁴
50 N
50 N
2.5 Nm
8 Nm
8 Nm
50 N
2.8 kg
58 mm/U
5000 km
0.31 g
2740 g
2
2
24 V
Configurable Not galvanically isolated
Device V 1.1
COM3 (230.4 kBaud)
A
Device 1
2 bytes
Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit
State Device 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit
32-bit force 32-bit position 32-bit speed
1 ms
0.5 KB
PNP (positive switching)
Plugs

Feature	Value
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101
Logic interface, number of pins/wires	8
Type of mounting	Profile mounting
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material drive cover	Anodised wrought aluminium alloy
Material pulleys	High-alloy stainless steel
Material toothed belt clamping piece	Beryllium bronze
Material toothed belt	Polychloroprene with glass filament and nylon coating