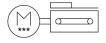
Toothed belt axis unit ELGS-TB-KF-60-300-ST-M-H1-PLK-AA

FESTO

Part number: 8083571





Data sheet

Feature	Value
Drive pinion effective diameter	24.83 mm
Working stroke	300 mm
Size	60
Stroke reserve	0 mm
Toothed belt elongation	0.124 %
Toothed belt pitch	3 mm
Mounting position	Horizontal
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with toothed belt With integrated drive
Position sensing	Motor encoder For proximity sensor
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Temperature monitoring	Shutdown in the event of over temperature Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	6 m/s²
Max. speed	1.17 m/s
Repetition accuracy	±0.1 mm
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current of digital logic outputs	100 mA
Max. current consumption	5.3 A
Logic max. current consumption	0.3 A
DC nominal voltage	24 V
Nominal current	5.3 A

User interface	Feature	Value
Power supply, type of connection Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Powers supply, number of pins/wires 4 Certification CE marking (see declaration of conformity) As per EU EMC directive As per EU Rolfs directive Ambient temperature Or C, 50 °C Ambient temperature Or C, 50 °C Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2°E per K. As direct EV As a directive and a direct	Parameterization interface	
Power supply, connection technology Power supply, number of piny-wives A FORM compliance mark AEM Compliance mark AEM Compliance A	Permissible voltage fluctuations	+/- 15 %
Prover supply, number of pins/wires 4	Power supply, type of connection	Plug
Certification RCM compliance mark CE marking [see declaration of conformity) As per EU RM directive Asper EU RM directive ASPECT BURK directive NORLOW (Committy) VDMA24364 zone III Storage temperature 20 °C60 °C Relative air humidity 0 - 90 % Degree of protection IPA0 More on ambient temperature Above an ambient temperature of 2°C50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. 2nd moment of area by Advoloon mm* 2nd moment of area by Advoloon mm* 3641 N 3640 N 36	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
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Static deflection (load at standstill) Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Work range of logic input Characteristics of logic input Characteristics of logic input Nove 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 Wove 1 bit State Wove 1 bit State Wove 1 bit State Wove 1 bit State Unt 1 bit State Over 1 bit State	Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
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Input switching logic PNP (positive switching)	IO-Link®, service data contents IN	32 bit position
, , ,	IO-Link®, data memory required	0.5 KB
Logic interface, connection type Plug	Input switching logic	PNP (positive switching)
	Logic interface, connection type	Plug

Feature	Value
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Type of mounting	With internal thread With centering sleeve and pin With accessories
Material of end caps	Die cast aluminum, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	RoHS-compliant
Cover strip material	Stainless steel strip
Slide carriage material	Tempered steel
Guide rail material	Tempered steel
Toothed belt material	Polychloroprene with glass fiber