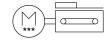
Toothed belt axis unit ELGS-TB-KF-45-200-ST-M-H1-PLK-AA

FESTO

Part number: 8083665





Data sheet

Feature	Value
Drive pinion effective diameter	19.1 mm
Working stroke	200 mm
Size	45
Stroke reserve	0 mm
Toothed belt elongation	0.187 %
Toothed belt pitch	2 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	0.96 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
DC nominal voltage	24 V
Nominal current	5.3 A
Parameterization interface	IO-Link® User interface

Power supply, type of connection Power supply, connection technology M12x1, T-coded as per EN 61076 2 111 Power supply, number of pins/wires A Certification RM compliance mark CE marking (see declaration of conformity) As per EN ENG Cherelie AND Cher	Feature	Value
Power supply, connection technology Power supply, number of pins/vires CE marking (see declaration of conformity) As per EU RMC directive EX 60068-2-0 EX 60068-2 EX 60068-2 EX 60068-2 EX 60	Permissible voltage fluctuations	+/- 15 %
Power supply, connection technology Power supply, number of pins/vires CE marking (see declaration of conformity) As per EU RMC directive EX 60068-2-0 EX 60068-2 EX 60068-2 EX 60068-2 EX 60		Plug
Power supply, number of pins /wires Certification RCM compliance mark CE marking Gee declaration of conformity) As per EU EMC directive Example application test with severity level 1 as per FN 942017-5 and EN 60068-2-27 EMES (EWIS) conformity VDMA24364 zone III ASS (EWIS) conformity Associated temperature -20 °C50 °C Associated temperature -20 °C	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification RCM compliance mark CE marking Gee declaration of conformity) Ap per DL IRM directive Apper DL IRM directive Apper DL IRM directive Transport application test with severity level 1 as per FN 94/2017-4 and EN 60068-2-27 And 60068-2-26 Shock resistance Shock resistance Shock resistance Shock resistance Apper DL IRM directive Ap		·
CE marking (see declaration of conformity) As per ELI EMC directive As per ELI SMC directive Transport application test with severity level 1 as per FN 9/2017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance VOMA2/364 zone III Storage temperature 20 °C60 °C Relative air humidity 0 - 90 % Degree of protection IP40 Number of area by Transport application test with severity level 1 as per FN 9/2017-5 and EN 60068-2-27 Storage temperature 0 °C50 °C Relative air humidity 0 - 90 % Degree of protection IP40 Note on ambient temperature 0 °C50 °C Note on ambient temperature 1 0 °C50 °C Note on ambient of area by Transport application temperature of 30°C, the power must be reduced by 27s per &c. 300 N Max. force F2 300 N Max. force F2 300 N Max. force F3 300 N Max. force Wh Max. torque My 4.7 Nm Max. torque My Max. torque	Certification	RCM compliance mark
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Storage temperature 20 °C60 °C Relative air humidity 0.90 % Degree of protection PP40 Ambient temperature 0°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 ly 140000 mm² 2nd moment of area lz 1700000 mm² Ambient temperature 600 N Max. force Fz 600 N Max. force Fz 600 N Max. torque Mx 5.5 Nm Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque My 4.7 Nm Max. teed force Fx 75 N Guide value for payload, horizontal 2.5 kg Torsion moment of inertial t 8500 mm² Feed constant 600 mm/U Moving mass 1069 g Slide weight 55 g Product weight 55 g Product weight 2250 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input 1 bit (move in) 1 bit (move out) 1 bit (move out) 1 bit (state out) IO-Link®, process data content IN 1 bit (move out) 1 bit (state out) IO-Link®, process data content IN 2 bit speed Input switching logic PNP (positive switching)	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
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Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. 2nd moment of area ly 140000 mm* 140000 mm* 170000 mm* 170000 mm* 18000 N 18000	Degree of protection	IP40
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Max. force Ez Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque My 4.7 Nm Max. torque My 4.7 Nm Max. feed force FX 75 N Guide value for payload, horizontal 2.5 kg Torsion moment of inertia It 8500 mm ⁴ Feed constant 60 mm/U Moving mass 169 g Moving mass at 0 mm stroke 169 g Slide weight 55 g Product weight 2250 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Work range of logic input Characteristics of logic input OLink®, protocol version Device V 1.1 OLink®, port class A IO-Link®, port class OLink®, porcess data content OUT 1 bit (move in) 1 bit (move out) 1 bit (gulte error) IO-Link®, process data content IN 1 2 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 2 bit speed IO-Link®, data memory required O, 5 kB Input switching logic PNP (positive switching)	2nd moment of area Iz	170000 mm⁴
Max. force Ez Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque My 4.7 Nm Max. torque My 4.7 Nm Max. feed force FX 75 N Guide value for payload, horizontal 2.5 kg Torsion moment of inertia It 8500 mm ⁴ Feed constant 60 mm/U Moving mass 169 g Moving mass at 0 mm stroke 169 g Slide weight 55 g Product weight 2250 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Work range of logic input Characteristics of logic input OLink®, protocol version Device V 1.1 OLink®, port class A IO-Link®, port class OLink®, porcess data content OUT 1 bit (move in) 1 bit (move out) 1 bit (gulte error) IO-Link®, process data content IN 1 2 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 2 bit speed IO-Link®, data memory required O, 5 kB Input switching logic PNP (positive switching)	Max. force Fy	300 N
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Max. torque Mz Max. feed force Fx 75 N Guide value for payload, horizontal 2.5 kg Torsion moment of inertia It 8500 mm³ Feed constant 60 mm/U Moving mass 169 g Moving mass at 0 mm stroke 169 g Slide weight 55 g Product weight 2250 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input Characteristics of logic input Ol-Link®, protocol version Ol-Link®, process data content IN Ol-Link®, process data content IN 1 bit (move out) 1 bit (state enve) 1 bit (state enve) 1 bit (state out) Ol-Link®, service data contents IN 2 bit position 32 bit speed Ol-Link®, data memory required Ol-Link®, open cossitic service data content out Ol-Link®, data memory required Ol-Link®, data memory required Ol-Link®, data memory required Ol-Link®, processitics on the process of the content out of the content out of the content out of the content out out on the content out out of the content out out out out out out out out out ou		4.7 Nm
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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
IO Link® Connection technology	Input switching logic	PNP (positive switching)
io-linkw, connection technology	IO-Link®, Connection technology	Plug
Logic interface, connection type Plug	Logic interface, connection type	Plug
Logic interface, connection technology M12x1, A-coded as per EN 61076-2-101	Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101

Feature	Value
Logic interface, number of poles/wires	8
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
Drive cover material	Die cast aluminum, painted
Slide carriage material	Tempered steel
Guide rail material	Tempered steel
Belt pulley material	High-alloy stainless steel
Toothed belt material	Polychloroprene with glass fiber