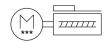
Ball Screw axis unit ELGS-BS-KF-45-300-10P-ST-M-H1-PLK-AA

Part number: 8083472





FESTO

General operating condition

Data sheet

Feature	Value
Working stroke	300 mm
Size	45
Stroke reserve	0 mm
Screw diameter	10 mm
Spindle pitch	10 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with ball screw With integrated drive
Motor type	Stepper motor
Spindle type	Ball screw drive
Symbol	00997292
Position sensing	Motor encoder For proximity sensor
Homing	Fixed stop block positive Fixed stop block, negative
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
Ready status indication	LED
Max. acceleration	5 m/s ²
Max. speed	0.25 m/s
Speed "Speed Press"	0.01 m/s
Repetition accuracy	±0.015 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	3000 mA
Logic max. current consumption	0.3 A
DC nominal voltage	24 V
Nominal current	3 A

Parametrication interfaceInterfaceRoto position sensor resolution24 bitPermissible voltage floctuations4/ 15 %Permissible voltage floctuations4/ 15 %Power supply, top connection technologyM12.1, 1-codd spor EN 61076 2.111Power supply, nomection pattern0995999CertificationKCM compliance markPower supply, nomection pattern0995999CertificationKCM compliance markCertificationKCM compliance markCertification of conformity)Ka per FU BMS directiveUICA marking (see declaration of conformity)To UK instructions for EMC to UK instructions for EMC<	Feature	Value
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Mz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. feed force Fx100 NGuide value for payload, horizontal10 kgGuide value for payload, vertical5 kgTorsion moment of inertia It8500 mm ⁴ Feed constant10 mm/UReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass220 gProduct weight2434 g		17 Nm
Max. feed force Fx100 NGuide value for payload, horizontal10 kgGuide value for payload, vertical5 kgTorsion moment of inertia It8500 mm ⁴ Feed constant10 mm/UReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass220 gProduct weight2434 g		17 Nm
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Guide value for payload, vertical5 kgTorsion moment of inertia It8500 mm4Feed constant10 mm/UReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass220 gProduct weight2434 g	Guide value for payload, horizontal	10 kg
Torsion moment of inertia It8500 mm4Feed constant10 mm/UReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass220 gProduct weight2434 g		
Feed constant10 mm/UReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass220 gProduct weight2434 g		
Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 220 g Product weight 2434 g	Feed constant	10 mm/U
Maintenance intervalLife-time lubricationMoving mass220 gProduct weight2434 g		
Moving mass 220 g Product weight 2434 g		
Product weight 2434 g		
IVITATING OCTOCOLOGY INVEDIATION IN TO AND	Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm

Feature	Value
Static deflection (load at standstill)	0.1 % of axis length
Number of digital logic outputs 24 V DC	2
Number of digital logic inputs	2
Logic input specification	Based on IEC 61131-2, type 1
Work range of logic input	24 V
IO-Link®, SIO mode support	Yes
Characteristics of logic input	Configurable Not galvanically isolated
IO-Link®, protocol version	Device V 1.1
IO-Link®, communication mode	COM3 (230.4 kBd)
IO-Link®, port class	Α
IO-Link®, number of ports	1
IO-Link®, process data width OUT	2 Byte
IO-Link®, process data content OUT	Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit
IO-Link®, process data width IN	2 Byte
IO-Link®, process data content IN	State In 1 bit State Out 1 bit State Move 1 bit State Device 1 bit State Intermediate 1 bit
IO-Link®, service data contents IN	32 bit force 32 bit position 32 bit speed
IO-Link®, minimum cycle time	1 ms
IO-Link®, data memory required	500 byte
Max. cable length	15 m outputs 15 m inputs 20 m for IO-Link® operation
Switching logic at outputs	PNP (positive switching)
Input switching logic	PNP (positive switching)
IO-Link®, Connection technology	Plug
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
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	High-alloy stainless steel
Drive cover material	Die cast aluminum, painted
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Die-cast aluminum
Spindle nut material	Steel
Spindle material	Steel