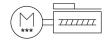
## Ball Screw axis unit ELGS-BS-KF-45-600-10P-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8083475





General operating condition

## **Data sheet**

Working stroke Size	600 mm
Size	15
	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 <sup>2</sup>
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

User Interface	Feature	Value
Rotor position sensor resolution  A/-15 %  Permissible voltage fluctuations  A/-15 %  Power supply, top of connection Plug  Power supply, connection pattern  Opperes supply, connection of pattern  Opperes supply, connection pattern  Opperes suppl	Parameterization interface	· · · · · · · · · · · · · · · · · · ·
Permissible voltage fluctuations		
Power supply, type of connection Pug Power supply, connection technology M12x1, T coded as per EN 61076 2 111 Power supply, connection pattern Corporation to the control of the control o		16 bit
Power supply, connection technology  All 2x1, F-coded as per EN 61076-2-111  Power supply, number of piny swines  A 00995999  Certification  KC characters  CE marking (see declaration of conformity)  As per EU EMC directive As per EU EMC directiv	Permissible voltage fluctuations	·
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KC Characters  KC Emarking (see declaration of conformity)  As per EU LEMC directive As EU LEMC din eu LEMC directive As EU LEMC directive As EU LEMC directive As	Power supply, connection pattern	00995989
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EN 60088-2-6	UKCA marking (see declaration of conformity)	
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Max. moment My total axis  4.7 Nm  Max. moment Mz total axis  4.7 Nm  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Max. feed force Fx  100 N  Guide value for payload, horizontal  10 kg  Guide value for payload, vertical  5 kg  Torsion moment of inertia It  8500 mm <sup>4</sup> Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight	·	
Max. moment Mz total axis  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Max. feed force Fx  100 N  Guide value for payload, horizontal  10 kg  Guide value for payload, vertical  5 kg  Torsion moment of inertia lt  8500 mm <sup>4</sup> Feed constant  10 mm/U  Reference service life  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight		
Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Max. feed force Fx  100 N  Guide value for payload, horizontal  10 kg  Guide value for payload, vertical  5 kg  Torsion moment of inertia lt  8500 mm <sup>4</sup> Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight	· ·	
My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Max. feed force Fx  100 N  Guide value for payload, horizontal  10 kg  Guide value for payload, vertical  5 kg  Torsion moment of inertia It  8500 mm <sup>4</sup> Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight		
Mz with theoretical service life of 100 km (from a guide perspective only)  Max. feed force Fx  100 N  Guide value for payload, horizontal  Guide value for payload, vertical  Torsion moment of inertia It  Feed constant  Reference service life  Maintenance interval  Moving mass  Product weight  10 kg  10 kg  8500 mm <sup>4</sup> 10 mm/U  10 mm/U  220 g  Product weight	only)	20 Nm
Max. feed force Fx  Guide value for payload, horizontal  Guide value for payload, vertical  5 kg  Torsion moment of inertia lt  Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight	My with theoretical service life of 100 km (from a guide perspective only)	
Guide value for payload, horizontal  Guide value for payload, vertical  5 kg  Torsion moment of inertia It  8500 mm <sup>4</sup> Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight	Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Guide value for payload, vertical  Torsion moment of inertia It  8500 mm <sup>4</sup> Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight  3514 g	Max. feed force Fx	100 N
Torsion moment of inertia It  Feed constant  10 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  220 g  Product weight  3514 g	Guide value for payload, horizontal	10 kg
Feed constant 10 mm/U  Reference service life 5000 km  Maintenance interval Life-time lubrication  Moving mass 220 g  Product weight 3514 g	Guide value for payload, vertical	5 kg
Reference service life 5000 km  Maintenance interval Life-time lubrication  Moving mass 220 g  Product weight 3514 g	Torsion moment of inertia It	8500 mm⁴
Maintenance interval Life-time lubrication  Moving mass 220 g  Product weight 3514 g	Feed constant	10 mm/U
Moving mass 220 g Product weight 3514 g	Reference service life	5000 km
Product weight 3514 g	Maintenance interval	Life-time lubrication
Product weight 3514 g	Moving mass	220 g
	Product weight	
HILL CAN HIGH MANUAL CITED A CANAL CONTRACT CONT	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	A
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