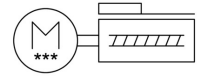


Ball Screw axis unit ELGS-BS-KF-32-600-8P-ST-M-H1-PLK-AA

Part number: 8083429

FESTO



Data sheet

Feature	Value
KC characters	KC EMC
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Logic input specification	Based on IEC 61131-2, type 1
Insulation protection class	B
Max. cable length	15 m outputs 15 m inputs 20 m for IO-Link® operation
Parameterization interface	IO-Link® User interface
Relative air humidity	0 - 90 %
Rotor position sensor	Absolute encoder, single-turn
Permissible voltage fluctuations	+/- 15 %
Homing	Fixed stop block positive Fixed stop block, negative
Note on ambient temperature	Above an ambient temperature of 30°C, the power must be reduced by 2% per K.
Input switching logic	PNP (positive switching)
Rotor position sensor measuring principle	Magnetic
Position sensing	Motor encoder For proximity sensor
Display	LED
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Switching logic at outputs	PNP (positive switching)
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Ready status indication	LED
Characteristics of logic input	Configurable Not galvanically isolated
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Power supply, connection pattern	00995989
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Logic interface, connection pattern	00992264
Power supply, type of connection	Plug
Number of digital logic inputs	2
Number of digital logic outputs 24 V DC	2
Guide value for payload, vertical	2 kg

Feature	Value
Power supply, number of pins/wires	4
Max. current of digital logic outputs	100 mA
Guide value for payload, horizontal	2 kg
Logic interface, number of poles/wires	8
DC nominal voltage	24 V
Work range of logic input	24 V
Storage temperature	-20 °C ... 60 °C
Rotor position sensor resolution	16 bit
Nominal current	3 A
Max. current consumption	3000 mA
IO-Link®, process data width IN	2 Byte
IO-Link®, minimum cycle time	1 ms
IO-Link®, SIO mode support	Yes
IO-Link®, process data content OUT	1 bit (move in) 1 bit (move out) 1 bit (quit error)
IO-Link®, process data content IN	1 bit (state device) 1 bit (state move) 1 bit (state in) 1 bit (state out)
IO-Link®, service data contents IN	32 bit force 32 bit position 32 bit speed
IO-Link®, communication mode	COM3 (230.4 kBd)
IO-Link®, process data width OUT	2 Byte
Protection class	III
IO-Link®, protocol version	Device V 1.1
IO-Link®, number of ports	1
IO-Link®, port class	A
IO-Link®, Connection technology	Plug
IO-Link®, data memory required	500 byte
Working stroke	600 mm
Size	32
Stroke reserve	0 mm
Screw diameter	8 mm
Spindle pitch	8 mm/U
Type code	ELGS
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis with ball screw With integrated drive
Motor type	Stepper motor
Spindle type	Ball screw drive
Symbol	00997292
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
Max. acceleration	5 m/s ²
Max. speed	0.18 m/s
Repetition accuracy	±0.015 mm
Duty cycle	100%
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
Degree of protection	IP40

Feature	Value
Ambient temperature	0 °C ... 50 °C
Certification	RCM compliance mark
2nd moment of area Iy	38000 mm ⁴
2nd moment of area Iz	45000 mm ⁴
Max. force Fy	150 N
Max. force Fz	300 N
Fy with theoretical service life of 100 km (from a guide perspective only)	552 N
Fz with theoretical service life of 100 km (from a guide perspective only)	1104 N
Max. torque Mx	1.3 Nm
Max. torque My	1.1 Nm
Max. torque Mz	1.1 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	5 Nm
My with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	4 Nm
Max. feed force Fx	40 N
Torsion moment of inertia It	1700 mm ⁴
Feed constant	8 mm/U
Moving mass	83.4 g
Product weight	1969 g
Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Static deflection (load at standstill)	0.1 % of axis length
Material of end caps	Die cast aluminum, painted
Profile material	Wrought aluminum alloy, anodized
Note on materials	Contains paint-wetting impairment substances 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