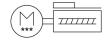
Ball Screw axis unit ELGS-BS-KF-60-200-12P-ST-M-H1-PLK-AA

FESTO

Part number: 8083384





General operating condition

Data sheet

Feature	Value
Working stroke	200 mm
Size	60
Stroke reserve	0 mm
Screw diameter	12 mm
Spindle pitch	12 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	±0.01 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	5300 mA
Logic max. current consumption	0.3 A
DC nominal voltage	24 V
Nominal current	5.3 A

User Interface	Feature	Value
Rotor position sensor resolution A/-15 % Permissible voltage fluctuations A/-15 % Power supply, top of connection Plag Power supply, connection pattern O0995989 RCM compliance mark CK-characters KC FMC CE marking (see declaration of conformity) RCM supply and supply connection pattern (KC-characters KC FMC CE marking (see declaration of conformity) RCM supply and supp	Parameterization interface	· · · · · · · · · · · · · · · · · · ·
Permissible voltage fluctuations 4,7-15 % Peower supply, toped connection Plug Power supply, tomedion technology M12.1,1-coded as per EN 61076-2-111 Power supply, cunnection pattern 00995989 Power supply, cunnection pattern 00995989 Certification RCM compliance mark KC characters RCM Emarking (see declaration of conformity) Reper EU EMC directive As per EU EMC dir		
Power supply, type of connection Pug Power supply, connection technology Power supply, connection patient Control of the chinology Power supply, connection patient Control of the control		16 bit
Power supply, connection technology A 12x1, T-coded as per EN 61076-2-111 Powers supply, number of piny sivines Certification K compressipply, connection pattern Copysysps Certification K characters K c EMC C marking (see declaration of conformity) As per EU EMC directive As a per EU EMC directive As per EU	-	·
Prover supply, number of pins/wires Prover supply, connection pattern CE marking (See declaration of conformity) KC characters CE marking (See declaration of conformity) KC characters CE marking (See declaration of conformity) KC characters CE marking (See declaration of conformity) No LK instructions for EMC (In Kentis directive As per EU EMC directive Transport application test with severity level 1 as per FN 942017-4 and EMC 60068-2-07 and EMC		Plug
Prover supply, connection pattern Retrification Ret Mic compliance mark Ret Mic Mic Compliance mark Ret Mic	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification RCM compliance mark KC characters KC EMC Compliance mark KC characters KC Emarking (see declaration of conformity) As per EU RoHS directive To UK RoHS instructions In UK instructions for EMC To UK RoHS instructions To UK RoHS instructions Shock resistance S	Power supply, number of pins/wires	4
KC Characters KC Emarking (see declaration of conformity) As per EU EMC directive As EMC EMC As per EU EMC directive As EMC EMC As EMC	Power supply, connection pattern	00995989
CE marking (see declaration of conformity) As per EU EMC directive and EM EM EVA 200 PC As correction As according to 150 14644-1 As per EU ex ent in the serior place of 100 km (from a guide perspective only) As according to 150 km (from a guide perspective only) As according to 150 km (from a guide perspective only) As according to 150 km (from a guide perspective only) As according to 150 km (from a guide perspective only) As according to 150 km (from a guide perspective only) As according to 150 km (from a guide perspective only) As according to 1	Certification	RCM compliance mark
As per EU RoHS directive UKCA marking (see declaration of conformity) ICE Amarking (see declaration of conformity) ICE AMS (PWIS) conformity ICE AMS (PWIS) c	KC characters	KC EMC
To UR RoHS instructions Wibration resistance Transport application test with severity level 1 as per FN 942017-4 and RN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-7 M 60068-2-6 M 60068-2-7	CE marking (see declaration of conformity)	
EN 60088-2 6	UKCA marking (see declaration of conformity)	
LABS (PWIS) conformity	Vibration resistance	
LABS (PWIS) conformity	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Clean room class Class 7 according to ISO 14644-1 Storage temperature -20 °C 60 °C Relative air humidity 0 - 90 % Degree of protection Protection class III Ambient temperature 0 °C 50 °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 2nd moment of area lz 2nd moment of area lz 3641 N Max. force Fy 3641 N Max. force Fy total axis 600 N Max. force Fy total axis 4800 N Fy with theoretical service life of 100 km (from a guide perspective only) 13400 N Max. torque Mx 31.8 Nm Max. torque Mx Max. moment Mx total axis Mx. moment Mx total axis Mx. moment Mx total axis Mx. with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx. with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx wi	LABS (PWIS) conformity	
Storage temperature Relative air humidity O - 90 % Degree of protection Protection (also III Ambient temperature O ° C 50 ° 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 Ad 1000 mm² 2nd moment of area ly Ad 1000 mm² 3nd x, force Fy Ad 14 N Max. force Fy Ad 14 N Max. force Fy Ad 18 N Max. force Fy total axis Amx. force Fy tota	Cleanroom class	
Relative air humidity Degree of protection Perotection class III Ambient temperature O °C 50 °C Note on ambient temperature O °C 50 °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 2nd moment of area ly 2nd moment of area lz Ass. force Fy 3641 N Max. force Fy 3641 N Max. force Fy 3641 N Max. force Fy total axis 600 N Max. force Fy total axis 4000 N Max. force Fy total axis 1800 N Ty with theoretical service life of 100 km (from a guide perspective only) 31.80 N Max. torque Mx 29.1 Nm Max. torque Mx 31.8 Nm Max. moment My total axis 31.8 Nm Max. momen	Storage temperature	
Degree of protection Protection class III Ambient temperature O °C50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. 2% per K. 2nd moment of area ly Ad1000 mm⁴ Ad1000 mm⁴ Ad2 Ad2 Max. force Fy Ad41000 mm⁴ Ad4100 mm² Ad41000	Relative air humidity	
Protection class Ambient temperature \(\text{of S} \circ \	,	
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 441000 mm² 2nd moment of area lz 542000 mm² Max. force Fy 3641 N Max. force Fy 3641 N Max. force Fy total axis 600 N Max. force Fy total axis 1800 N Fy with theoretical service life of 100 km (from a guide perspective only) 13400 N Fz with theoretical service life of 100 km (from a guide perspective only) 13400 N Max. torque Mx 29.1 Nm Max. torque My 31.8 Nm Max. moment Mx total axis 29.1 Nm Max. moment Mx total axis 31.8 Nm Mx mx		
Above an ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. 2nd moment of area ly 2nd moment of area le 2nd moment of area le 2nd moment of area le 3640 N Max. force Fy 3641 N Max. force Fy total axis 600 N Max. force Fy total axis 1800 N Ex with theoretical service life of 100 km (from a guide perspective only) 13400 N Max. torque Mx 29.1 Nm Max. torque My 31.8 Nm Max. torque My 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment fy total axis 31.8 Nm Max. iced force Fx 200 N Guide value for payload, horizontal 30 kg Guide value for payload, horizontal 31 kg Torsion moment of inertia lt 29800 mm Feed constant 12 mm/U Reference service life Moving mass 525 g Product weight 3882 g		
2nd moment of area ly 2nd moment of area lz 542000 mm ⁴ Max. Force Fy 3641 N Max. Force Fy 3641 N Max. Force Fy total axis 600 N Max. Force Fy total axis 1800 N Fy with theoretical service life of 100 km (from a guide perspective only) 13400 N Fz with theoretical service life of 100 km (from a guide perspective only) 13400 N Max. torque Mx 29.1 Nm Max. torque Mx 31.8 Nm Max. torque Mz 31.8 Nm Max. moment Mx total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment Mz total axis 31.8 Nm Max. moment Mz total axis 31.8 Nm Max. 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) 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) 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) 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) 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) 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) 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) 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) 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) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with the	Note on ambient temperature	Above an ambient temperature of 30°C, the power must be reduced by
And moment of area lz Max. force Fy 3641 N Max. force Fz 3641 N Max. force Fz total axis 600 N Max. force Fz total axis 1800 N Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque My 31.8 Nm Max. torque My 31.8 Nm Max. moment Mx total axis 29.1 Nm Max. moment Mx total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. with theoretical service life of 100 km (from a guide perspective only) Max. 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) 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) 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) 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) 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) 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) 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) 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) 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) Mz with theoretical service life of 100 km (from a guide perspec	2nd moment of area ly	· ·
Max. force Fy Max. force Fy Max. force Fy total axis 1800 N Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque My Max. torque My Max. moment Mx total axis Max. moment My total axis My 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) My 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) My with theoretical service life of 100 km (from a guide perspective only) Max. feed force Fx Guide value for payload, horizontal Guide value for payload, vertical Torsion moment of inertia It 2800 mm ⁴ Feed constant Reference service life Moving mass 525 g Product weight 3882 g	<u> </u>	
Max. force Fz 3641 N Max. force Fy total axis 600 N Max. force Fz total axis 1800 N Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 29.1 Nm Max. torque My 31.8 Nm Max. torque Mz 31.8 Nm Max. moment Mx total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment My total axis 31.8 Nm Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical servi		
Max. force Fy total axis Max. force Fz total axis 1800 N Fy with theoretical service life of 100 km (from a guide perspective only) 13400 N Fz with theoretical service life of 100 km (from a guide perspective only) 13400 N Max. torque Mx 29.1 Nm Max. torque My 31.8 Nm Max. torque Mz 31.8 Nm Max. moment Mx total axis 29.1 Nm Max. moment My total axis 31.8 Nm Max. moment My total axis 31.8 Nm Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) 117 Nm Mx. feed force Fx 200 N Guide value for payload, horizontal 20 kg Guide value for payload, horizontal 12 kg Torsion moment of inertial t 29 800 mm Feed constant Reference service life Mx in theoretical service life of 100 km (from a guide perspective only) Mx in theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspectiv	·	
Max. force Fz total axis Fy with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque My Max. torque My Max. torque Mz Max. moment Mx total axis Max. moment My total axis 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) My 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) My 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) My 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) My 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) My 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) My 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) My 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) My 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) My 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) My 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) My with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a		
Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical s	•	
Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx 29.1 Nm Max. torque My 31.8 Nm Max. moment Mx total axis 29.1 Nm Max. moment My total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment My total axis 31.8 Nm Max. moment Mz total axis 31.8 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) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective		
Max. torque Mx Max. torque My Max. torque Mz Max. moment Mx total axis Max. moment Mx total axis Max. moment My total axis Max. moment My total axis 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) 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) 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) 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) Mz with theoretical service life of 100 km (from a guide perspective only) Max. feed force Fx 200 N Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia lt 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight		
Max. torque My Max. torque Mz Max. moment Mx total axis Max. moment My total axis Max. moment My total axis Max. moment My total axis Max. moment Mz total axis Mix. moment Mix. mo		
Max. torque Mz Max. moment Mx total axis Max. moment My total axis Max. moment My total axis Max. moment Mz total axis 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 Guide value for payload, horizontal Guide value for payload, vertical 13 kg Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight		
Max. moment Mx total axis Max. moment My total axis 31.8 Nm Max. moment Mz total axis 31.8 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 Guide value for payload, horizontal Guide value for payload, vertical Torsion moment of inertia It Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight		
Max. moment My total axis Max. moment Mz total axis 31.8 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) Mz with theoretical service life of 100 km (from a guide perspective only) Max. feed force Fx 200 N Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia It 29800 mm ⁴ Feed constant Feed constant Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 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 200 N Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 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 200 N Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia lt 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 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 200 N Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g		
Mz with theoretical service life of 100 km (from a guide perspective only) 117 Nm Max. feed force Fx 200 N Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	only)	107 Nm
Max. feed force Fx Guide value for payload, horizontal 20 kg Guide value for payload, vertical 13 kg Torsion moment of inertia lt 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	My with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Guide value for payload, horizontal Guide value for payload, vertical 13 kg Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Guide value for payload, vertical Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	Max. feed force Fx	200 N
Torsion moment of inertia It 29800 mm ⁴ Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	Guide value for payload, horizontal	20 kg
Feed constant 12 mm/U Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	Guide value for payload, vertical	13 kg
Reference service life 5000 km Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	Torsion moment of inertia It	29800 mm⁴
Maintenance interval Life-time lubrication Moving mass 525 g Product weight 3882 g	Feed constant	12 mm/U
Moving mass 525 g Product weight 3882 g	Reference service life	5000 km
Product weight 3882 g	Maintenance interval	Life-time lubrication
Product weight 3882 g	Moving mass	525 g
	Product weight	
- ,	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