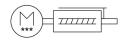
Mini slide unit EGSS-BS-KF-45-25-10P-ST-M-H1-PLK-AA

Part number: 8083814





General operating condition

Data sheet

Feature	Value
Working stroke	25 mm
Size	45
Stroke reserve	0 mm
Reversing backlash	150 µm
Screw diameter	10 mm
Spindle pitch	10 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electrical mini-slide with ball screw drive With integrated drive
Motor type	Stepper motor
Homing	Fixed stop block positive Fixed stop block, negative
Spindle type	Ball screw drive
Symbol	00997294
Position sensing	Motor encoder For proximity sensor
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Protective function	Temperature monitoring
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

EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-1Corrosion resistance class (CRC)0 - No corrosion stressLABS (PWIS) conformityVDMA24364 zone IIICleanroom classClass 9 according to ISO 14644-1Storage temperature-20 °C 60 °CRelative air humidity0 - 90 %Degree of protectionIP40Protection classIIIAmbient temperature0 °C 50 °CNote on ambient temperature20 % per K.Exed bearing dynamic basic load rating2240 NDynamic basic load rating, ball screw drive3200 NMax, force Fz1314 NFy with theoretical service life of 100 km (from a guide perspective only)3240 NFacute My7.05 NmMax, torque My7.05 NmMax, torque My200 NMax, torque Mz7.05 NmMax, torque Mz11 NMax, torque Mz120 NMax force Fx120 NMax force ration for a guide perspective onlyAn there tical service life of 100 km (from a guide perspective onlyMax torque Mz7.05 NmMax torque Mz10 NmMax torque Mz10 NmMax torque Mz10 NmMax feed force Fx120 NGuide value for payload, horizontal6 kg	Feature	Value
Idea interfaceStorp position sensor resolution16 bitParnisable voltage fluctuations4/15 %Power supply, connection technologyM32x1, T-coded as per FN 61076-2-111Power supply, connection technologyM32x1, T-coded as per FN 61076-2-111Power supply, connection pattern00993989CellfloctionRCM compliance markKC characterisKC MCCe marking (see declaration of conformity)Apper ULWA ClicetiveKC characterisKC MCCe marking (see declaration of conformity)To UK Rot15 directiveMotion resistanceStock resistance for MCTo UK Rot15 instructionsStock resistanceShock resistanceStock resistance for MCCorcision resistance dias (RCO)0 - No corresion resistanceClearopoint diasClear Space for US 16464-1Storge temperature20 °C 60 °CReative ain hundity0 - 90 %Degree of protectionIP40Protection dias111Protection dias123 VI Rot13 Ristore of Stock the protein multipue of Stock	Nominal current	3 A
Retor position sensor resolution 16 bit Permissible voltage fluctuations 4/-15 % Power supply top of connection Plug Power supply top of connection pattern 00995989 Controlling and the standard standa	Parameterization interface	IO-Link®
Permissible voltage fluctuations +/-15 % Power supply, connection technology M12x1, T-coded as per EN 61076-2111 Power supply, connection technology M12x1, T-coded as per EN 61076-2111 Power supply, connection technology M12x1, T-coded as per EN 61076-2111 Power supply, connection technology M12x1, T-coded as per EN 61076-2111 Power supply, connection technology M2x1, T-coded as per EN 61076-2111 Power supply, connection technology M2x1, T-coded as per EN 64076-2111 Power supply, connection technology M2x1, T-coded as per EN 64076-2111 Power supply, connection technology M2x1, T-coded as per EN 64076-2111 Carification REACompliance mark KC characters KC Marking (see declaration of conformity) UK kolf S Instructions Tamsport application test with severity level 1 as per FN 942017-4 an EN 60068-2: Corrosion resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2: Corrosion resistance class (CRC) 0 - N 800768-26 LABS (PWIS) conformity VDMA74364 zone III Class S according to 150 14644 1 Socrage temperature Socrage temperature 0 -90 % Degree of protection IP40 </td <td></td> <td>User interface</td>		User interface
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KC characters KC EMC EE marking (see declaration of conformity) As per EU EMC directive As per EU EMC directive As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC in OUK RoHS instructions Vibration resistance Transport application test with severity level 1 as per FN 942017-5 and EN 60068-2-6 Shock resistance Cass (CRC) 0 - No corrosion stress Corrosion resistance class (CRC) 0 - No corrosion stress Class Operation IPA0 Protection IPA0 Protection IPA0 Protection IPA0 Protection IPA0 Protection class III Ambient temperature 0 °C 60 °C Relative air humidity 0 - 90 % Degree of protection IPA0 Protection class III Ambient temperature 2% per K. Fixed bearing dynamic basic load rating 7413 N Utherary guide dynamic basic load rating 3240 N Max. force Fy 1314 N Max. force Fy 1314 N Max. force Fy 1314 N Max. forque My 7.0	Power supply, connection pattern	00995989
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Max. force Fz1314 NFy with theoretical service life of 100 km (from a guide perspective only)3240 NFz with theoretical service life of 100 km (from a guide perspective only)3240 NMax. torque Mx8.14 NmMax. torque Mz7.05 NmMax. torque Mz7.05 NmMax. torque Mz7.05 NmMax with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. radial force on actuator shaft340 NMax. fed force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Dynamic basic load rating, ball screw drive	3200 N
Fy with theoretical service life of 100 km (from a guide perspective only)3240 NFz with theoretical service life of 100 km (from a guide perspective only)3240 NMax. torque Mx8.14 NmMax. torque My7.05 NmMax. torque Mz7.05 NmMax. torque Mz7.05 NmMax with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. red force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Max. force Fy	1314 N
Fz with theoretical service life of 100 km (from a guide perspective only)3240 NMax. torque Mx8.14 NmMax. torque My7.05 NmMax. torque Mz7.05 NmMx with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMx. radial force on actuator shaft340 NMax. feed force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 nm stroke212 g	Max. force Fz	1314 N
Max. torque Mx8.14 NmMax. torque My7.05 NmMax. torque Mz7.05 NmMx with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. red force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Fy with theoretical service life of 100 km (from a guide perspective only)	3240 N
Max. torque My7.05 NmMax. torque Mz7.05 NmMx with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMz with theoretical service life of 100 km (from a guide perspective only)17 NmMz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. feed force Fx120 NGuide value for payload, horizontal Guide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Fz with theoretical service life of 100 km (from a guide perspective only)	3240 N
Max. torque Mz7.05 NmMx with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMz with theoretical service life of 100 km (from a guide perspective only)17 NmMz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. feed force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Max. torque Mx	8.14 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)20 NmMy with theoretical service life of 100 km (from a guide perspective only)17 NmMz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. radial force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Max. torque My	7.05 Nm
only)Image: constant service life of 100 km (from a guide perspective only)Mz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. radial force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Max. torque Mz	7.05 Nm
only)Mz with theoretical service life of 100 km (from a guide perspective only)17 NmMax. radial force on actuator shaft340 NMax. feed force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		20 Nm
Max. radial force on actuator shaft340 NMax. feed force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		17 Nm
Max. radial force on actuator shaft340 NMax. feed force Fx120 NGuide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Guide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Guide value for payload, horizontal6 kgGuide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g	Max. feed force Fx	120 N
Guide value for payload, vertical6 kgBall screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Ball screw drive statistical basic load rating5900 NLinear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Linear guide statistical basic load rating5630 NFeed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Feed constant10 mm/UStatistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		5630 N
Statistical fixed bearing load rating3966 NReference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Reference service life5000 kmMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Maintenance intervalLife-time lubricationMoving mass at 0 mm stroke212 g		
Moving mass at 0 mm stroke 212 g		
Additional moving mass per 10 mm stroke 30 g	Additional moving mass per 10 mm stroke	

Feature	Value
Product weight	1395 g
Basic weight with 0 mm stroke	1238 g
Additional weight per 10 mm stroke	63 g
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	1 bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (move intermediate)
IO-Link®, process data width IN	2 Byte
IO-Link®, process data content IN	1 bit (state device) 1 bit (State Intermediate) 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®, 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 With accessories With cylindrical pin
Note on materials	RoHS-compliant
Slide carriage material	Roller bearing steel
Guide rail material	Roller bearing steel
Housing material	Wrought aluminum alloy, anodized
Material of yoke plate	Wrought aluminum alloy, anodized
Piston rod material	High-alloy stainless steel
Slide material	Wrought aluminum alloy, anodized
Spindle nut material	Roller bearing steel
Spindle material	Roller bearing steel