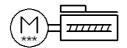
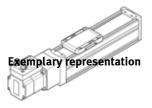
spindle axis unit ELGS-BS-KF-60-Part number: 8083398







Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Working stroke	100 800 mm
Size	60
Stroke reserve	0 mm
Spindle diameter	12 mm
Spindle pitch	12 mm/U
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
	with recirculating ball bearing spindle
	with integrated drive
Motor type	Stepper motor
Spindle type	Ball screw
Position detection	Motor encoder
	For proximity sensor
Referencing	Fixed stop block positive
	Fixed stop block negative
Rotor position sensor	Absolute single turn encoder
Rotary position encoder measuring principle	Magnetic
Temperature monitoring	Shutdown at over-temperature
	Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface
	Integrated end-position sensing
Display	LED
Ready status display	LED
Max. acceleration	3 5 m/s2
Max. speed	0.215 0.25 m/s
Repetition accuracy	±0,01 mm
Digital logic output characteristics	configurable
	Not electrically isolated
Duty cycle	100 %
Insulation protection class	В
Max. current, digital logic outputs	100 mA
Max. current consumption	5.3 A
Nominal voltage DC	24 V
Nominal current	5.3 A
Parameters configuring interface	IO-Link
	User interface
Rotor position encoder resolution	16 Bit
Permissible voltage fluctuation	+/- 15 %
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Power supply, number of pins/wires	4
Authorization	RCM Mark
KC mark	KC-EMV



Ex symbol (see declaration of conformity) BICCA marking (see declaration of conformity) BICCA marking (see declaration of conformity) FI DIX instructions for EMC. Transport application test with severity level 1 as per FN 94/017-4 and EM 60068-2-6 (60068-2-6) Shock resistance	Feature	Value
JUNEAR marking (see declaration of conformity) To UK notins from IMC	CE symbol (see declaration of conformity)	according to EU-EMV guideline
To U.K. poll's instructions		
Transport application test with severity level 1 in accordance with FN 942017-4 and EN 60068-2 2 7 Shock resistance	UKCA marking (see declaration of conformity)	To UK instructions for EMC
EN 60068-2-6 Shock resistance Shock resistanc		To UK RoHS instructions
Montanger Mont	Vibration resistance	
PWIS conformity VDMA24364 zone III	Shock resistance	1
Storage temperature Relative air hundfulty 0 - 90 % Protection class Saftery class III Note on ambient temperature of 30 °C, the power must be reduced by 2% per K. Area moment of inertia 2nd degree ly Ass. Force Ey Note on Note Note Note Note Note Note Note Note	PWIS conformity	VDMA24364 zone III
Relative air humidity 0-90% Protection class IPA0 Safety class III Ambient temperature 050 °C Note on ambient temperature by vacious interest temperature of 30 °C, the power must be reduced by 7% per K. Above an ambient temperature of 30 °C, the power must be reduced by 7% per K. Area moment of inertia 2nd degree ly 4a1E-03 mm4 Area moment of inertia 2nd degree lz 5a2E-03 mm4 Max. force Fz 600 N Fy with theoretical service life of 100 km (from a guide perspective only) 1,200 N Fy with theoretical service life of 100 km (from a guide perspective only) 1,200 N Max. torque Mx 31.8 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 117 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 117 Nm	·	17 1
Protection class		
Ambient temperature 050 °C Note on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 2% per K. Are a moment of inertia 2nd degree ly 4418-03 mm4 Area moment of inertia 2nd degree lz 5428-03 mm4 Max. Force Fy 600 N Max. Force Fy 1,800 N Fy with theoretical service life of 100 km (from a guide perspective only) 2,208 N Fy with theoretical service life of 100 km (from a guide perspective only) 31.8 Nm Max. torque Mx 31.8 Nm Max. torque My 31.8 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 107 Nm My with theoretical service life of 100 km (from a guide perspective only) 117 Nm Max. feed force Fx 200 N Reference value for working load, horizontal 20 kg Reference value for working load, horizontal 20 kg Reference value for working load, horizontal 12 mm/U Torsional mass somement of inertia it 29.8±-0.3 mm4 Feed constant 12 mm/U Moving mass 52 g Poduct weight 33.727,206 g Basic wei	•	-
Ambient temperature 050 °C Note on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 2% per K. Are a moment of inertia 2nd degree ly 4418-03 mm4 Area moment of inertia 2nd degree lz 5428-03 mm4 Max. Force Fy 600 N Max. Force Fy 1,800 N Fy with theoretical service life of 100 km (from a guide perspective only) 2,208 N Fy with theoretical service life of 100 km (from a guide perspective only) 31.8 Nm Max. torque Mx 31.8 Nm Max. torque My 31.8 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 107 Nm My with theoretical service life of 100 km (from a guide perspective only) 117 Nm Max. feed force Fx 200 N Reference value for working load, horizontal 20 kg Reference value for working load, horizontal 20 kg Reference value for working load, horizontal 12 mm/U Torsional mass somement of inertia it 29.8±-0.3 mm4 Feed constant 12 mm/U Moving mass 52 g Poduct weight 33.727,206 g Basic wei	Safety class	
Note on ambient temperature by 2% per K. Area moment of inertia 2nd degree ly 441E-03 mm4 Area moment of inertia 2nd degree l2 542E-03 mm4 Max. force F2 600 N Max. force F2 1,800 N F2 with theoretical service life of 100 km (from a guide perspective only) 2,908 N F2 with theoretical service life of 100 km (from a guide perspective only) 2,91 Nm Max. torque Mx 29.1 Nm Max. torque Mx 31.8 Nm Max. torque Mx 29.1 Nm M	•	0 50 °C
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Ace amment of inertia 2nd degree tz	Area moment of inertia 2nd degree ly	441E+03 mm4
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Fy with theoretical service life of 100 km (from a guide perspective only)		1,800 N
Max. torque Mx Max. torque My Mx. 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. feed force Fx Mx Reference value for working load, horizontal Reference value for working load, vertical Mx. feed force Fx Mx Reference value for working load, vertical Mx. feed constant Mx. feed constant Mx. feed constant Mx. feed constant Mx. feed force Mx Mx Mx. feed force Mx Mx Mx. feed force Mx M	Fy with theoretical service life of 100 km (from a guide perspective only)	2,208 N
Max. torque My Max. torque Mz Mix 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) Mix. field force Fx 200 N Reference Value for working load, horizontal Reference value for working load, horizontal Reference value for working load, vertical 13 kg Torsional mass moment of inertia it 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 18 g Dynamic deflection (load at standstill) 0,05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,1% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,1% of the axis length Number of 24 V DC digital logic outputs 2 punder of digital logic inputs 2 punder of digital logic inputs 2 punder of digital logic inputs 2 punder of digital logic outputs 2 configurable Northing range 2 4 V 10-Link, SIO mode support 10-Link, protocol 10-Link, protess data width OUT 10-Link, process data content OUT 1 bit (Move out) 1 bit (Move out) 1 bit (Move out) 1 bit (Move out) 1 bit (State Move)	Fz with theoretical service life of 100 km (from a guide perspective only)	6,624 N
Max. torque Mz 31.8 Nm Mx with theoretical service life of 100 km (from a guide perspective only) 107 Nm Mz with theoretical service life of 100 km (from a guide perspective only) 117 Nm Max. feed force Fx 200 N Reference value for working load, horizontal 20 kg Reference value for working load, vertical 13 kg Torsional mass moment of inertia it 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight 3,372 7.206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load moved) 0.05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0.05% of the axis length Number of 24 V DC digital logic outputs 2 Number of digital logic inputs 2 Logic input working range 24 V 10-Link, S10 mode support Yes Logic input characteristics configurable 10-Link, portocol Device V 1.1 10-Link, portocol COM3 (23.04 kbd) 10-Link, por	Max. torque Mx	29.1 Nm
Mx with theoretical service life of 100 km (from a guide perspective only) 107 Nm My with theoretical service life of 100 km (from a guide perspective only) 117 Nm Mx. feed force Fx 200 N Reference value for working load, horizontal 20 kg Reference value for working load, vertical 13 kg Torsional mass moment of inertial it 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load at standstill) 0.05% of the axis length, max, 0.5 mm Static deflection (load at standstill) 0.1% of the axis length, max, 0.5 mm Number of 24 V DC digital logic outputs 2 Specification, logic input 2 Logic input working range 24 V Logic input working range 24 V Logic input characteristics configurable Not electrically isolated Not electrically isolated 10-Link, protocol 0.04 (39.04 kbd) 10-Link, protocol 0.04 (39.04 kbd) 10-Link, protessed data width OUT 2 Byte 10-Link, process data content OUT 1 bit (Move in) 1 bit (Move out) 1 bit (State Move	Max. torque My	31.8 Nm
My with theoretical service life of 100 km (from a guide perspective only) 117 Nm Mz with theoretical service life of 100 km (from a guide perspective only) 117 Nm Max. feed force Fx 200 N Reference value for working load, vertical 13 kg Torsional mass mement of inertia lt 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load at standstill) 0.05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0.1% of the axis length, max. 0.5 mm Number of Z4 V DC digital logic outputs 2 Specification, logic input Based on IEC 61131-2, type 1 Logic input working range 24 V 10-Link, S1O mode support 24 V Logic input tharacteristics configurable 10-Link, protocol Device V 1.1 10-Link, protosed A 10-Link, protess data width OUT 2 Byte 10-Link, process data content OUT 1 bit (Move in)	Max. torque Mz	31.8 Nm
Mz. with theoretical service life of 100 km (from a guide perspective only) Max. feed force Fx 20 0 N Reference value for working load, horizontal Reference value for working load, vertical 13 kg Torsional mass moment of inertia It 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 3,372 7,206 g Basic weight for 0 mm stroke 4,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load moved) 51 g Dynamic deflection (load at standstill) 0.1% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0.1% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0.1% of the axis length Number of 24 V DC digital logic outputs 2 Number of digital logic inputs 2 24 V 10-Link, logic input Logic input working range 10-Link, protocol 10-Link, protocol 10-Link, protocol 10-Link, protocol 10-Link, protocol 10-Link, communication mode 10-Link, communication mode 10-Link, prot type A 10-Link, process data width OUT 2 Byte 10-Link, process data content OUT 1 bit (Move in) 1 bit (Quit Error) 10-Link, process data width IN 10-Link, process data width IN 10-Link, process data width IN 10-Link, process data content IN 1 bit (State Move) 1 bit (State Move) 1 bit (State Move) 1 bit (State Move)	Mx with theoretical service life of 100 km (from a guide perspective only	107 Nm
Max. feed force Fx Reference value for working load, horizontal Reference value for working load, vertical Torsional mass moment of inertia it Peed constant 12 mm/U Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 15 g Dynamic deflection (load moved) Static deflection (load at standstill) 0,05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,0% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,0% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,0% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,0% of the axis length Number of 24 V DC digital logic outputs 2 Number of 24 V DC digital logic inputs 2 Specification, logic input 10-Link, SIO mode support 10-Link, SIO mode support 10-Link, SIO mode support 10-Link, protocol 10-Link, protocol 10-Link, protocol 10-Link, communication mode 10-Link, communication mode 10-Link, port type 10-Link, port type 10-Link, port type 10-Link, protess data width OUT 2 Byte 10-Link, process data width OUT 2 Byte 10-Link, process data width IN 1 bit (Move in) 1 bit (Move out) 1 bit (Quit Error) 10-Link, process data width IN 1 bit (State Device) 1 bit (State Move) 1 bit (State Inn)	My with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Reference value for working load, horizontal Reference value for working load, vertical 13 kg Reference value for working load, vertical 13 kg 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load moved) 0,05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,1% of the axis length Number of 24 V DC digital logic outputs 2 Number of digital logic input 2 begic input working range 2 4 V IO-Link, SIO mode support Ves Logic input characteristics Configurable Not electrically isolated IO-Link, protocol Device V 1.1 IO-Link, protocol Device V 1.1 IO-Link, protoss data width OUT 2 byte IO-Link, process data width OUT 1 bit (Move in) 1 bit (Move out) 1 bit (Quit Error) IO-Link, process data content IN I bit (State Device) 1 bit (State Device) 1 bit (State Device) 1 bit (State in)	Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Reference value for working load, vertical Torsional mass moment of inertia It 29.8E+03 mm4 Feed constant 12 mm/U Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load moved) 0.05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0.1% of the axis length Number of 24 V DC digital logic outputs 2 Specification, logic input Based on IEC 61131-2, type 1 Logic input working range 24 V IO-Link, SIO mode support Ves Logic input characteristics configurable Not electrically isolated IO-Link, protocol DO-Link, communication mode COM3 (230.4 kbd) IO-Link, port type IO-Link, port type IO-Link, process data width OUT IO-Link, process data width OUT IO-Link, process data content OUT I bit (Move out) I bit (Move out) I bit (State Move)	Max. feed force Fx	200 N
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Feed constant Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load moved) Static deflection (load at standstill) Number of 24 V DC digital logic outputs 2 Number of digital logic inputs 2 Specification, logic input Based on IEC 61131-2, type 1 Logic input working range 24 V IO-Link, SIO mode support Logic input characteristics configurable Not electrically isolated IO-Link, protocol Device V 1.1 IO-Link, communication mode IO-Link, communication mode IO-Link, number of ports I IO-Link, process data width OUT 2 Byte IO-Link, process data width IN 2 Byte IO-Link, process data content IN I bit (Move out) 1 bit (State Move) 1 bit (State Move) 1 bit (State Move) 1 bit (State in)	Reference value for working load, vertical	13 kg
Moving mass 525 g Product weight 3,372 7,206 g Basic weight for 0 mm stroke 2,862 3,126 g Additional weight per 10 mm stroke 51 g Dynamic deflection (load moved) 0,05% of the axis length, max. 0.5 mm Static deflection (load at standstill) 0,1% of the axis length Number of 24 V DC digital logic outputs 2 Number of igital logic inputs 2 Specification, logic input Based on IEC 61131-2, type 1 Logic input working range 24 V IO-Link, SIO mode support Yes Logic input characteristics configurable Not electrically isolated IO-Link, protocol Device V 1.1 IO-Link, communication mode COM3 (230.4 kbd) IO-Link, prot type 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) IO-Link, process data content IN 1 bit (State Device) 1 bit (State Move) 1 bit (State Move) 1 bit (State in)	Torsional mass moment of inertia It	29.8E+03 mm4
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1 bit (State Move) 1 bit (State in)	·	
1 bit (State in)	To Link, process data content in	
		, ,
11 bit (State out)		1 bit (State out)
IO-Link, Service data contents IN 32 bit Force	IO-Link Service data contents IN	
32 bit Position	To Enny Service data contents in	



Feature	Value
	32 bit Speed
IO-Link, minimum cycle time	1 ms
IO-Link, data memory required	0.5 Kilobyte
Max. line length	15 m outputs
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	NPN (negative switching)
	PNP (positive-switching)
Input circuit logic	NPN (negative switching)
	PNP (positive-switching)
IO-Link, connection technology	Plug
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	High alloy steel, non-corrosive
Material drive cover	Die-cast aluminium, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Aluminum die cast
Material spindle nut	Steel
Material spindle	Steel