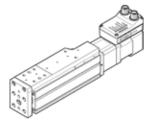
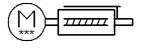
mini slide unit EGSS-BS-KF-60-50-12P-ST-M-H1-PLK-AA Part number: 8083716

FESTO





Data sheet

Feature	Value	
Working stroke	50 mm	
Size	60	
Stroke reserve	0 mm	
Reversing backlash	150 μm	
Spindle diameter	12 mm	
Spindle pitch	12 mm/U	
Assembly position	Any	
Guide	Recirculating ball bearing guide	
Design structure	Electric mini slide	
	With ball screw	
	with integrated drive	
Motor type	Stepper motor	
Referencing	Fixed stop block positive	
	Fixed stop block negative	
Spindle type	Ball screw	
Position detection	Motor encoder	
	For proximity sensor	
Rotor position sensor	Absolute single turn encoder	
Rotary position encoder measuring principle	Magnetic	
Protective function	Temperature monitoring	
Additional functions	User interface	
	Integrated end-position sensing	
Display	LED	
Ready status display	LED	
Max. acceleration	5 m/s2	
Max. speed	0.24 m/s	
Speed "Speed press"	0.01 m/s	
Repetition accuracy	±0,015 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	
Max. current consumption, logic	300 mA	
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	

FESTO

Feature	Value
CE symbol (see declaration of conformity)	according to EU-EMV guideline
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and
	EN 60068-2-6
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364 zone III
Cleanroom class	ISO class 9
Storage temperature	-20 60 °C
Relative air humidity	0 - 90 %
Protection class	IP40
Safety class	
Ambient temperature	0 50 °C
Note on ambient temperature	Above an ambient temperature of 30 °C, the power must be reduced by 2% per K.
Fixed bearing dynamic basic load rating	13,321 N
Linear guide dynamic basic load rating	13,400 N
Ball screw drive dynamic basic load rating	4,600 N
Max. force Fy	4,937 N
Max. force Fz	4,937 N
Fy with theoretical service life of 100 km (from a guide perspective only)	13,400 N
Fz with theoretical service life of 100 km (from a guide perspective only)	13,400 N
Max. torque Mx	20 Nm
Max. torque My	30 Nm
Max. torque Mz	30 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
Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Max. radial force at drive shaft	420 N
Max. feed force Fx	250 N
Reference value for working load, horizontal	10 kg
Reference value for working load, vertical	10 kg
Ball screw drive statistical basic load rating	8,500 N
Linear guide statistical basic load rating	26,900 N
Feed constant	12 mm/U
Fixed bearing statistical basic load rating	7,000 N
Reference value, running performance	5,000 km
Maintenance interval	Life-time lubrication
Moving mass with 0 mm stroke	675 g
Additional mass factor per 10 mm of stroke	40 g
Product weight	3,210 g
Basic weight for 0 mm stroke	2,735 g
Additional weight per 10 mm stroke	95 g
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	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, port type	A
IO-Link, number of ports	
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)

FESTO

Feature	Value
	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	0.5 Kilobyte
Max. line length	15 m outputs
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	PNP (positive-switching)
Input circuit logic	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
Mounting type	with internal (female) thread
	with centering sleeve
	with accessories
	With cylindrical dowel pin
Materials note	Conforms to RoHS
Material guide slide	Roller bearing steel
Material guide rail	Roller bearing steel
Material housing	Anodised wrought aluminium alloy
Material yoke plate	Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material slide	Anodised wrought aluminium alloy
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel