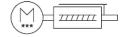
Electric cylinder unit EPCS-BS-60-50-5P-A-ST-M-H1-PLK-AA Part number: 8118287

FESTO





Data sheet

Feature	Value
Size	60
Stroke	50 mm
Stroke reserve	0 mm
Piston rod thread	M12x1.25
Reversing backlash	100 μm
Screw diameter	12 mm
Spindle pitch	5 mm/U
Max. angle of rotation of the piston rod +/-	1 deg
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor
Structural design	Electric actuator with ball screw drive With integrated drive
Spindle type	Ball screw drive
Symbol	00997294
Protection against torsion/guide	With plain-bearing guide
Homing	Fixed stop block positive Fixed stop block, negative Reference switch
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Additional functions	User interface Integrated end-position sensing
Display	LED
Ready status indication	LED
Max. acceleration	1.5 m/s ²
Max. speed	0.09 m/s
Repetition accuracy	±0.02 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
DC nominal voltage	24 V
Nominal current	5.3 A

User interface	Feature	Value
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 4-7-15 % Permissible voltage fluctuations 4-7-15 % Power supphy, connection technology MI221, 1 coded as per EN 61076 2-111 Power supphy, connection pattern 00995989 Certification RCM compliance mark (K.characters K.E.M.) CE marking (see declaration of conformity) Repet U. Rotor discretive AS per EU EMC directive IVEX. In this interviolation of Conformity) Repet EU EMC directive AS per EU EMC directive AS per EU EMC directive IVEX. In this interviolation for EMC To LUK Rotors's instructions IVEX. In this interviolation for EMC To LUK Rotors's instructions IVEX. In this interviolation for EMC To LUK Rotors's instructions IVEX. In this interviolation for EMC To LUK Rotors's instructions IVEX. In this interviolation for EMC To LUK Rotors's instructions IVEX. In this interviolation for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction for EMC To LUK Rotors's instructions IVEX. In this instruction is supported to LUK Rotors's instructions. In this instruction is supported to LUK Rotors's instructions. In this instruction is supported to LUK Rotors's instructions. In this instruction is supported to LUK Rotors's instruction is supported to LUK Rotors's Instructions. In this instruction is supported to LUK Rotors's Instruction is Instruction is	Parameterization interface	
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Power supply, connection technology M12x1, T coded as per EN 61076 2:111 Power supply, number of pins/wires 4 Power supply, number of pins/wires 00995/899 Certification KC characters CE marking (see declaration of conformity) To LUK and supply (see declaration of conformity) To LUK and supply (see declaration of conformity) To LUK Routs instructions for EMC To LUK Routs instructions for EMC To LUK Routs instructions To LUK Routs instructions Shock resistance Shock resistance Shock resistance (Shock CO) On No corrosion stress Shock resistance (Sing CO) On No corrosion stress Storage temperature 20 °C 60 °C Relative air humidity On 90% Non-condensing Degree of protection Pip AD Ambient temperature Or C 50 °C Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature Or C 50 °C Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note on ambient temperature of 30°C, the power must be reduced by 25° per K. Note of 30°C, the power must be reduced by 25° per K. Note of 30°C, the power must be reduced by 25° per K. On Minute of 30°C, the power must be reduced by 25° per K. Note of 30°C, the power p		·
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El 60068-2-6 Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Storage temperature 2-0 °C. 60 °C Relative air humidity Non-condensing Degree of protection IP40 Ambient temperature Note on ambient temperature Note on ambient temperature Note on ambient temperature Note on ambient temperature Nax. torque MX O N M Max. torque MX O N M Max. torque My 6-4 Nm Max. rotque My 6-4 Nm Max. rotque My 6-4 Nm Max. rotque My 6-5 Nm Max. rotque My 6-6 Nm Max. rotque My 6-6 Nm Max. rotque My 6-7 Nm Max. rotque My 6-8 Nm Max. rotque My 6-9 Nm Max. rotque My	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC) O - No corrosion stress VDMA23564 zone III VDMA23564 zone III VDMA23564 zone III PAO Relative air humidity O - 90 % Non-condensing Degree of protection IPAO 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. Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx O N m Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. red force Fx 900 N Guide value for payload, horizontal 230 N Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC 2 Number of digital logic input Configurable Not galvanically isolated Not galvanically isolated Not galvanically isolated Ol-Link®, SIO mode support Ol-Link®, Forcess data width OUT 2 Byte IO-Link®, process data content OUT I bit (move in) 1 bit (move out)	Vibration resistance	
LABS (PWIS) conformity VDMA24364 zone III Storage temperature -20 °C 60 °C -90 °S Non-condensing Degree of protection IP40 Ambient temperature 0°C 50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2°S per K. Max. torque Mx As torque My 6.4 Mm Max. torque My 6.4 Mm Max. torque My 6.5 Mm Max. torque My 6.6 Mm Max. forque My 6.6 Mm Max. forque My 6.7 Mm Max. torque My 6.8 Mm Max. forque My 6.9 Nm Max. forque My 6.9 Nm Max. forque My 6.9 Nm Max. forque My 6.9 S Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight 2639 g Basic weight with 0 mm stroke 294 g Additional weight per 10 mm stroke 294 g Additional weight per 10 mm stroke 305 g Additional weight per 10 mm stroke 40 g Work range of logic inputs 2 Logic input 306 range figate input 407 versume of logic input 408 value for payload begin per 10 mm stroke 50 g Norman of logic input 50 g Norman of logic input 50 g 10 Link®, protocol version 10 Link®, protocol version 10 Link®, protocol stata width OUT 2 Byte 10 Link®, process data width OUT 2 Byte 10 Link®, process data content OUT 1 bit (move in) 1 bit (move in) 1 bit (move out)	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Storage temperature -20 °C 60 °C 90 °C 80 °C 80 °C 90 °S 80 °C 90 °S 80 °C 90 °S 80 °C 90 °C	Corrosion resistance class (CRC)	0 - No corrosion stress
Relative air humidity Degree of protection 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. Max. torque Mx Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.4 Nm Max. roadial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 469 g Number of digital logic outputs 24 V DC 2 logic input specification Work range of logic input Configurable Not galvanically isolated O'-Link®, S10 mode support Yes IO-Link®, proteool version Device V 1.1 Ol-Link®, port class IO-Link®, porcess data width OUT 2 Byte IO-Link®, process data content OUT I bit (move out)	LABS (PWIS) conformity	VDMA24364 zone III
Non-condensing Degree of protection Note on ambient temperature Note on ambient temperature Note on ambient temperature Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Nax. torque My 6.4 Mm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.4 Nm Max. redial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 239 g Basic weight with 0 mm stroke Additional weight per 10 mm stroke 49 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input Configurable Not galvanically isolated 10-Link®, protecol version Device V 1.1 10-Link®, proteos data width OUT 2 Byte 10-Link®, process data width OUT 1 Link (move out) 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Storage temperature	-20 °C 60 °C
Ambient temperature Note on ambient temperature Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.4 Nm Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight 2294 g Additional weight per 10 mm stroke 84ditional weight per 10 mm stroke 85 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 22 Logic input specification 8ased on IEC 61131-2, type 1 Characteristics of logic input Characteristics of logic input Characteristics of logic input Configurable Not galvanically isolated 10-Link®, SIO mode support Yes 10-Link®, protecol version 10-Link®, protecol version 10-Link®, communication mode 10-Link®, number of ports 1 10-Link®, process data width OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Relative air humidity	
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2% per K. Max. torque Mx Max. torque My 6.4 Nm Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input Characteristics of logic input 10-Link®, SIO mode support 10-Link®, protocol version 10-Link®, protocess data content OUT Link®, process data content OUT 2 byte 10-Link®, process data content OUT 2 bit (move out) 1 bit (move out)	Ambient temperature	0 °C 50 °C
Max. torque My Max. torque Mz Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke 2294 g Additional weight per 10 mm stroke 869 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Configurable Not galvanically isolated Not galvanically isolated Not galvanically isolated 10-Link®, Fotocol version Device V 1.1 Ol-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move out) 1 bit (quit error)	Note on ambient temperature	
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Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight 2639 g Basic weight with 0 mm stroke 69 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input Ot-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT I bit (move in) 1 bit (move out)	Max. torque My	6.4 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Assault logic input Additional weight per 10 mm stroke Assault logic logic	Max. torque Mz	6.4 Nm
Guide value for payload, horizontal Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Basic weight with 0 in mistroke Additional weight per 10 mm stroke Based on IEC 61131-2, type 1 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 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 I bit (move in) I bit (move out) I bit (quit error)	Max. radial force on actuator shaft	230 N
Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Based on IEC 61131-2, type 1 Logic input specification Based on IEC 61131-2, type 1 Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, port class A 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)	Max. feed force Fx	900 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 2639 g Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 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 Characteristics of logic input Characteristics of logic input Chink®, SIO mode support Ves 10-Link®, protocol version Device V 1.1 COM3 (230.4 kBd) 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Guide value for payload, horizontal	120 kg
Additional moving mass per 10 mm stroke Product weight 2639 g Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 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 Characteristics of logic input Characteristics of logic input Work specification Poetice V 1.1 O-Link®, protocol version Device V 1.1 O-Link®, port class A O-Link®, port class A O-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)	Guide value for payload, vertical	46 kg
Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke 89 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated 10-Link®, SIO mode support Ves 10-Link®, protocol version 10-Link®, port class A 10-Link®, port class A 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move out) 1 bit (quit error)	Moving mass at 0 mm stroke	305 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke 69 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 Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) 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)	Additional moving mass per 10 mm stroke	6.5 g
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 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 out) 1 bit (move out) 1 bit (quit error)	Product weight	2639 g
Number of digital logic outputs 24 V DC Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support IO-Link®, communication mode IO-Link®, communication mode IO-Link®, port class 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)	Basic weight with 0 mm stroke	2294 g
Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A 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)	Additional weight per 10 mm stroke	69 g
Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes 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 I 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)	Number of digital logic outputs 24 V DC	2
Work range of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes 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)	Number of digital logic inputs	2
Characteristics of logic input Configurable Not galvanically isolated Yes 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 I IO-Link®, process data width OUT IO-Link®, process data content OUT Device V 1.1 IO-Link®, process data content OUT Device V 1.1 IO-Link®, port class A IO-Link®, number of ports I IO-Link®, process data content OUT Device V 1.1 I bit (move in) I bit (move out) I bit (quit error)	Logic input specification	Based on IEC 61131-2, type 1
Not galvanically isolated IO-Link®, SIO mode support Yes 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)	Work range of logic input	24 V
IO-Link®, protocol version IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports I UO-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)	Characteristics of logic input	
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, SIO mode support	
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, protocol version	Device V 1.1
10-Link®, number of ports 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, communication mode	COM3 (230.4 kBd)
IO-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, port class	A
IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, number of ports	1
IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, process data width OUT	2 Byte
	IO-Link®, process data content OUT	1 bit (move in) 1 bit (move out)
	IO-Link®, process data width IN	2 Byte

Feature	Value
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®, 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	NPN (negative switching) PNP (positive switching)
Input switching logic	NPN (negative switching) PNP (positive switching)
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 accessories
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy, smooth-anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel