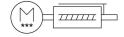
Electric cylinder unit EPCS-BS-45-100-3P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118276





Data sheet

Feature	Value
Size	45
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash	100 μm
Screw diameter	10 mm
Spindle pitch	3 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	0.074 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	3000 mA
DC nominal voltage	24 V
Nominal current	3 A

User interface	Feature	Value
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 4-7-15 % Power supply, per Connection Pug Power supply, per Connection pattern 00995999 MIZ21, I coded as per EN 61076 2-111 Power supply, connection pattern 00995999 AR 1221, I coded as per EN 61076 2-111 Power supply, connection pattern 00995999 Certification RCM compliance mark KC brace State St	Parameterization interface	
Permissible voltage fluctuations -/.15 % Power supply, connection Plug Power supply, connection technology M12.1, T-coded as per EN 61076-2-111 Power supply, connection technology Power supply, connection pattern O0995989 Certification RCM compliance mark KC characters CE marking (see declaration of conformity) As per EU BNC directive As pe		
Power supply, type of connection Plus Power supply, manection technology MT2x1, T-coded as per EN 61076-2-111 Power supply, connection pattern O00995999 Certification RC M compliance mark KC EMC KC tharacteris KC EMC To LUK instructions for EMC To LUK instructions for EMC To LUK instructions for EMC To LUK ends the supplication test with severity level 1 as per FN 942017-4 and EM 60068-2-6 EM 60068-2-6 Shock resistance Shock resistance 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 VDM24364 acroe III Storage temperature 20 °C 60 °C Relative at humidity O .90 % Non-conformity Non-condensing Degree of protection IPAO Manubent temperature O °C 50 °C Max. torque MX M		
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 the per LU ENC directive As per LU ENC directive As per LU ENC directive As per LU Rolls directive IUK.A marking (see declaration of conformity) To LUK Routs instructions for ENC To LUK Routs instructions for ENC To LUK Routs instructions Shade resistance Shade treats and the seeming the per EN 94/2017-4 and EN 60068-2-6 Shade treats the seeming the per EN 94/2017-5 and EN 60068-2-6 Shade treats the seeming the per EN 94/2017-5 and EN 60068-2-70 consolon resistance class (CRC) O No corrosion stress Storage temperature Power of protection Page Power of Power of Power Powe	<u>-</u>	· ·
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Certification RCM compliance mark KC characters CC EMC KC EMACING (see declaration of conformity) As per EU EM directive UKCA marking (see declaration of conformity) IO UK instructions for EMC IO UK Rolfs Instructions Transport application test with severity level 1 as per FN 94/2017-4 and eM 60068-2-6 No 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 94/2017-5 and EN 60068-2-7 Corosion resistance class (CRC) O - No corrosion stress LABS (PWIS) conformity VDMA2/364 one III Storage temperature 20°C 60°C Relative air humidity O - 90 % Non-condensing Degree of protection Relative air humidity O - 90 % Non-condensing Degree of protection PAW Above an ambient temperature O °C 50°C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 25s per K. Max. torque Mx O Nm Max. torque My D Nm		
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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 Nove an ambient temperature Nax. torque MX O N M Max. torque MX O N M Max. torque My 2.9 Nm Max. rotque My 2.9 Nm Max. rotque My 3.9 Nm Max. rotque My 3.9 Nm Max. rotque My 3.9 Nm Max. rotque My 4.50 N Max. feed force FX 450 N Guide value for payload, horizontal 60 kg Guide value for payload, horizontal 779 g Additional moving mass per 10 mm stroke 179 g Additional moving mass per 10 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic inputs Characteristics of logic input O-Link®, protecol version D-Link®, protecol version D-Link®, protecol version D-Link®, protecol state on the Unit (move out) 1 bit (quit error)	UKCA marking (see declaration of conformity)	
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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 Ass. torque Mx Ass. torque My 2.9 Mm Max. torque My 2.9 Nm Max. torque My 2.9 Nm Max. forque My 3.9 Nm Max. forque My 450 N Guide value for payload, horizontal 66 kg Guide value for payload, vertical 33 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke 4.1 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 120 kg input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated Not galvanically isolated 10-Link®, protocol version 10-Link®, protocol version 10-Link®, protoces 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	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 Ass. torque My Ass. torque Mz As	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 of 30°C, the power must be reduced by 2% per K. Max. torque Mx Nax. torque My Nax. torque My Nax. torque Mz Nax	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 Not Max. torque My Ass. torque My Ass. torque Mz Ass. torque	Relative air humidity	
Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx 0 Nm Max. torque My 2.9 Nm Max. torque MZ 2.9 Nm Max. radial force on actuator shaft 180 N Max. feed force Fx 450 N Guide value for payload, horizontal 60 kg Guide value for payload, vertical 23 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 b Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input Cho-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, protess data width OUT 1 bit (move in) 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (move in) 1 bit (move in) 1 bit (move out) 1 bit (move out) 1 bit (move in)	Degree of protection	IP40
2% per K. Max. torque Mx 0 Nm Max. torque My 2.9 Nm Max. radial force on actuator shaft 180 N Max. feed force Fx 450 N Guide value for payload, horizontal 60 kg Guide value for payload, vertical 23 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight Basic weight with 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input 10-Link®, SIO mode support 10-Link®, protocols weight outputs case A lot-Link®, protocess data content OUT 1 bit (move out)	Ambient temperature	0 ℃ 50 ℃
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Max. torque Mz 2.9 Nm Max. radial force on actuator shaft 180 N Max. feed force Fx 450 N Guide value for payload, horizontal 60 kg Guide value for payload, vertical 23 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight Basic weight with 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs Logic input specification Work range of logic input Characteristics of logic input Characteristics of logic input O-Link®, SIO mode support Ves 10-Link®, protocol version Device V 1.1 O-Link®, process data width OUT Lolich®, process data content OUT Lolic (move out) 1 bit (quit error)	Max. torque Mx	0 Nm
Max. radial force on actuator shaft Max. feed force Fx 450 N Guide value for payload, horizontal 60 kg Guide value for payload, vertical 23 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Logic input specification Based on IEC 61131-2, type 1 Work range 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 Libit (move in) Libit (move out) Libit (move out) Libit (move out) Libit (move in) Libit	Max. torque My	2.9 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical Additional moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke 179 g Additional moving mass per 10 mm stroke 1595 g Basic weight with 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 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 Ves 10-Link®, SIO mode support Ves 10-Link®, protocol version Device V 1.1 10-Link®, communication mode COM3 (230.4 kBd) 10-Link®, number of ports 1 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move out)	Max. torque Mz	2.9 Nm
Guide value for payload, horizontal Guide value for payload, vertical 23 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 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 protocol version IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, number of ports A IO-Link®, number of ports IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT Ibit (move out) 1 bit (move out)	Max. radial force on actuator shaft	180 N
Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Al 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 Configurable Not galvanically isolated 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®, 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 (move out) 1 bit (quit error)	Max. feed force Fx	450 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 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 Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 COM3 (230.4 kBd) IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move ui) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Guide value for payload, horizontal	60 kg
Additional moving mass per 10 mm stroke Product weight 1595 g Basic weight with 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 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 potocol version 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 (move out) 1 bit (quit error)	Guide value for payload, vertical	23 kg
Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input O-Link®, SIO mode support O-Link®, protocol version O-Link®, port class O-Link®, port class IO-Link®, process data width OUT IO-Link®, process data content OUT Device V 1.1 Io-Link®, process data content OUT I bit (move out) I bit (quit error)	Moving mass at 0 mm stroke	179 g
Basic weight with 0 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 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	4.9 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	1595 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 Ves 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)	Basic weight with 0 mm stroke	1185 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	41 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 (quit error)	Number of digital logic inputs	2
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IO-Link®, protocol version IO-Link®, communication mode COM3 (230.4 kBd) 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)	Characteristics of logic input	
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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