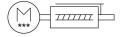
Electric cylinder unit EPCS-BS-45-100-10P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118282





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	10 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	5 m/s ²
Max. speed	0.23 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 % 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 of Conformity IVEX. In this interviolation for EMC To LUK Rotor's instructions IVEX. In this interviolation for EMC To LUK Rotor's instructions IVEX. In this interviolation for EMC To LUK Rotor's instructions IVEX. In this interviolation for EMC To LUK Rotor's instructions IVEX. In this interviolation for EMC To LUK Rotor's instructions IVEX. In this interviolation for EMC To LUK Rotor's instructions IVEX. In this instruction for EMC To LUK Rotor's instructions IVEX. In this instruction for EMC To LUK Rotor's instructions IVEX. In this instruction for EMC To LUK Rotor's instructions IVEX. In this instruction for EMC To LUK Rotor's instructions IVEX. In this instruction for EMC To LUK Rotor's instructions IVEX. In this instruction instruction IVEX. In this instruction IVEX. I	Parameterization interface	
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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 KC EMC as per EU Rotts' directive As per EU Rott directive As per EU Rott directive As per EU Rotts' directive As per EU Rotts' directive LUK A marking (see declaration of conformity) LUK (Rotts instructions for EMC To LUK end that the severity level 1 as per FN 942017-4 and EM 60068-2-27 Corrosion resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosions netwess LUK EMP SUPPLY (LUK EMP) LUK EMP		
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KC characters KC Emarking (see declaration of conformity) As per EU BMC directive AS DMC RASH Sinstructions Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 EN 60068-2-6 Shock resistance AS CROW On No corrosion stress AS DMC RASH Sinstructions AS CRWIS Conformity VDMA24364 ame III Storage temperature -20 °C 60 °C Relative air humidity -0. 90 % Non-condensing Degree of protection IPA0 Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque MX Max. feed force on actuator shaft -180 N Max. feed force FX Guide value for payload, horizontal -180 N Max. feed force FX Guide value for payload, vertical -193 kg Moving mass at 0 mm stroke -179 g Additional moving mass per 10 mm stroke -199 g Additional moving mass per 10 mm stroke -199 g Additional moving mass per 10 mm stroke -1185 g Additional moving mass per 10 mm stroke -1185 g Additional longic inputs -24 V Characteristics of logic input -25 MX -26 MX -27 MX -		
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EN 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 4.9 Nm Max. flore on actuator shaft 180 N Max. flore on actuator shaft 180 N Max. flore on May 138 R Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 8 Product weight 1595 g Basic weight with 0 mm stroke 1185 g Additional weight per 10 mm stroke 4.1 g Number of digital logic inputs Characteristics of logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input Ol-Link®, protecol version Device V1.1 Ol-Link®, protecol version Ol-Link®, protecol state on the III bit (move ou) 1 bit (quit error)	UKCA marking (see declaration of conformity)	To UK RoHS instructions
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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 Asx. torque Mx Asx. 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 4.9 S Guide value for payload, horizontal 40 kg Guide value for payload, vertical 31 kg Moving mass at 0 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke 4.1 g Additional moving mass per 10 mm stroke 4.1 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 32 la g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 logic input 3 AV 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 out) 1 bit (move in) 1 bit (move out) 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 °	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 Max. torque Mz 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 Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Nax. torque My 2.9 Nm Max. torque My 2.9 Nm Max. torque Mz 2.9 Nm Max. torque Mz 2.9 Nm Max. redial force on actuator shaft 180 N Max. feed force Fx 250 N Guide value for payload, horizontal 40 kg Guide value for payload, vertical 13 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 179 g Additional moving mass per 10 mm stroke 1188 g Additional weight per 10 mm stroke 41 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®, protocol version Device V 1.1 10-Link®, protocol version Device W 1.1 10-Link®, process 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 (quit error)	Storage temperature	-20 °C 60 °C
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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. radial force on actuator shaft 180 N Max. rede force Fx 250 N Guide value for payload, horizontal Guide value for payload, vertical 13 kg 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 Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC 2 Number of digital logic inputs Characteristics of logic input Characteristics of logic input Characteristics of logic input Ol-Link®, SIO mode support Ol-Link®, communication mode Ol-Link®, communication mode Ol-Link®, communication mode Ol-Link®, norcess data content OUT 1 bit (move unt) 1 bit (move unt) 1 bit (move unt) 1 bit (move out) 1 bit (move unt)	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 250 N Guide value for payload, horizontal 40 kg Guide value for payload, vertical 13 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 Characteristics of logic input 10-Link®, SIO mode support 10-Link®, protocol version 10-Link®, protocess data content OUT 2 Byte 10-Link®, process data content OUT 1 bit (move out)	Ambient temperature	0 ℃ 50 ℃
Max. torque My Max. torque Mz 2.9 Nm Max. radial force on actuator shaft 180 N Max. feed force Fx 250 N Guide value for payload, horizontal 40 kg 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 1185 g Additional weight per 10 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 22 Logic input 524 V Characteristics of logic input Configurable Not galvanically isolated Not galvanically isolated Not galvanically isolated 10-Link®, Fotocol version Device V 1.1 10-Link®, opmound assumed	Note on ambient temperature	
Max. torque Mz 2.9 Nm Max. radial force on actuator shaft 180 N Max. feed force Fx 250 N Guide value for payload, horizontal 40 kg Guide value for payload, vertical 13 kg Moving mass at 0 mm stroke 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 Based on IEC 61131-2, type 1 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®, protocss data width OUT 2 byte 10-Link®, process data content OUT 1 bit (move out) 1 bit (quit error)	Max. torque Mx	0 Nm
Max. radial force on actuator shaft Max. feed force Fx 250 N Guide value for payload, horizontal 40 kg Guide value for payload, vertical 13 kg 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 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input Characteristics of logic input Othink®, SIO mode support Othink®, protocol version Othink®, protocals data width OUT Othink®, process data width OUT Othink®, process data content OUT Ibit (move in) 1 bit (move out)	Max. torque My	2.9 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical 13 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 418 Mumber of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Characteristics of logic input Characteristics of logic input Work range of logic input Characteristics of logic input 10-Link®, protocol version Device V 1.1 DI-Link®, number of ports 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 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 At 1g Number of digital logic inputs 24 V DC 2 Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 24 V 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®, number of ports 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 (move out) I bit (move out) I bit (quit error)	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	250 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	40 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	13 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
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 IO-Link®, process data width OUT IO-Link®, process data content OUT Device V 1.1 IO-Link®, port class A IO-Link®, number of ports 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®, SIO mode support IO-Link®, protocol version IO-Link®, communication mode IO-Link®, port class IO-Link®, port class IO-Link®, number of ports IO-Link®, process data width OUT IO-Link®, process data content OUT ID-Link®, process data content OUT I bit (move in) I bit (move out) I 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