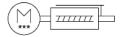
Electric cylinder unit EPCS-BS-45-100-10P-A-ST-M-H1-PLK-AA

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

CE marking (see declaration of conformity) As per EU Rick Silective As per EU Rick Silective UKCA marking (see declaration of conformity) To UK instructions for FMC To UK RoHS instructions Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2 of Shock resistance Shock resistance Shock resistance (CRC) O - No corrosion stress Corrosion resistance class (CRC) O - No corrosion stress Corrosion resistance (CRC) LABS (PMIS) conformity VDMA24364 zone III Storage temperature - 20 °C 60 °C Relative air humility O - 90 °C Non-condensing Degree of protection Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 22°s per K. Max. torque Mx O Nm Max. torque Mx O Nm Max. torque My 2.9 Nm Max. torque My Amx. torq	Feature	Value
Rotor position sensor resolution 16 bit Permissible voltage fluctuations -/-15 % Power supply, to per Connection Plug Power supply, connection performance of pins / wires A Power supply, connection pattern 00999989 RCM compliance mark RC Maccompliance RC Maccompliance RC Maccompliance	Parameterization interface	
Permissible voltage fluctuations -/.15 % Power supply, connection exheriology M124, T-coded as per EN 61076-2-111 Power supply, connection technology M24, T-coded as per EN 61076-2-111 Power supply, connection pattern O0995899 Certification RCM compliance mark KC characters CE marking (see declaration of conformity) As per EU ENC directive As per EU		
Power supply, type of connection Power supply, connection rectinology MT2x1, T-coded as per EN 61076-2-111 Power supply, connection pattern O0099899 Certification RCM compliance mark KC-EMC K		
Power supply, connection technology All 2x1, T coded as per EN 61076 2-111 Power supply, number of pins wires A 00995/89 Certification KC characters CE marking (see declaration of conformity) As per EU ENC directive As per EU EU ENC directive As per EU		· ·
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Storage temperature	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 Max. torque Mz Ass. torque Mz As	LABS (PWIS) conformity	VDMA24364 zone III
Non-condensing Degree of protection 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. Max. torque Mx Max. torque My 2.9 Nm Max. torque My 2.9 Nm Max. torque Mz 2.9 Nm Max. torque Mz 2.9 Nm Max. fore 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 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, protocol version Device V 1.1 IO-Link®, port class IO-Link®, porcess data width OUT 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Storage temperature	-20 °C 60 °C
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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 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 inputs 2 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 2 Byte O'Link®, process data content OUT 1 bit (move out) 1 bit (quit error)	Max. torque Mx	0 Nm
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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 Additional moving mass per 10 mm stroke Additional weight with 0 mm stroke Additional weight per 10 mm stroke Also guide wei	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 4.9 g Product weight Basic weight with 0 mm stroke 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 Work range of logic input Characteristics of logic input Characteristics of logic input OLink®, SIO mode support Ves IO-Link®, protocol version OL-Link®, number of ports 1 OL-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT Link®, process data content 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 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 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®, 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	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 IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, ommunication mode COM3 (230.4 kBd) IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move un) 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 solo mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, process data width OUT Jorden Support Jorden Suppo	Guide value for payload, vertical	13 kg
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 24 V Characteristics of logic input Not galvanically isolated Not galvanically isolated Not galvanically isolated Not galvanically isolated Not Julia (COM3 (230.4 kBd)) IO-Link@, protocol version Device V 1.1 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)	Moving mass at 0 mm stroke	179 g
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Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC 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®, 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 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 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)	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 Yes 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
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IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	·	
	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