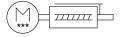
Electric cylinder unit EPCS-BS-60-250-12P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118300





Data sheet

Feature	Value
Size	60
Stroke	250 mm
Stroke reserve	0 mm
Piston rod thread	M12x1.25
Reversing backlash	100 μm
Screw diameter	12 mm
Spindle pitch	12 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	0.22 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

CE marking (see declaration of conformity) As per EU RMC directive As per EU RMS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Transport a papilication fest with severity level 1 as per FN 942017-4 and EN 60068-2 o Shock resistance Shock resistance Shock resistance (CRC) O - No corrosion stress Corrosion resistance class (CRC) O - No corrosion stress CORPURS) conformity VDMA24364 sone III Storage temperature -20 °C60 °C Relative air humility O -90 °K Non-condensing Degree of protection IP40 Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2°S per K. Max. torque Mx O Nm Max. torque Mx Abax. torque Mx O Nm Max. torque My 6.4 Nm Max. torque My Mox. t	Feature	Value
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 4-7.15 % Power supply, top of connection Plug Power supply, connection technology M122.1, T. coded as per EN 61076 2.111 Power supply, connection pattern 00995989 Certification RCM compliance mark KC. BMC CE marking (see declaration of conformity) Max per EU EMC directive AS per EU E	Parameterization interface	
Permissible voltage fluctuations		
Power supply, type of connection Power supply, connection technology MT2x1, T-coded as per EN 61076-2-111 Power supply, connection pattern O0999999 Certification RCM compliance mark RC Emarking (see declaration of conformity) As per EU RMC directive As per EU RMC direct		
Power supply, connection technology All 2x1, T coded as per EN 61076 2:111 Power supply, number of pins wires 4 Power supply, commection pattern 00995899 Certification RCM compliance mark KC characters CE marking (see declaration of conformity) As per EU EMC directive As per EU EMC d	_	· ·
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Storage temperature - 20 °C 60 °C 80 °	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 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 6.4 Nm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.4 Nm Max. fore on actuator shaft 230 N Max. feed force Fx 375 N Guide value for payload, horizontal 56 kg Guide value for payload, vertical 18 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 4019 g Basic weight with 0 mm stroke Additional weight per 10 mm stroke 4019 g Basic weight with 0 mm stroke 69 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Configurable Not galvanically isolated Not galvanically isolated 10-Link®, protocol version Device V 1.1 10-Link®, protocol version Device W 1.1 10-Link®, porcess data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move ini) 1 bit (move ini) 1 bit (move ini) 1 bit (quit error)	Storage temperature	-20 °C 60 °C
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2% per K. Max. torque Mx Max. torque My Max. torque My Max. radial force on actuator shaft 230 N Max. feed force Fx 375 N Guide value for payload, horizontal 56 kg Guide value for payload, vertical Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 4019 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 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support IO-Link®, protocol version IO-Link®, protocss data width OUT Link®, process data content OUT Link (move in) Lith (mut error)	Ambient temperature	0 °C 50 °C
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Max. radial force on actuator shaft Max. feed force Fx Guide value for payload, horizontal So 6 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 Additional 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 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input OLink®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, protocss data width OUT Lolich®, process data content OUT Libit (move in) Libit (move out) Libit (move in) Libit (move out) Libit (move out) Libit (move in) Libit (move out) Libit (move in) Libit (move out) Libit (move in) Libit (move i	Max. torque My	6.4 Nm
Max. feed force FX Guide value for payload, horizontal 56 kg Guide value for payload, vertical 18 kg Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight 4019 g Basic weight with 0 mm stroke 69 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Characteristics of logic input Characteristics 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	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 6.5 g Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke 69 g Number of digital logic inputs Characteristics of logic input Characteristics of logic input OLink®, SIO mode support OLink®, protocol version OLink®, number of ports OLink®, process data width OUT OLink®, process data content OUT Diff (move out) 1 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 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	375 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 4019 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 OLink®, communication mode COM3 (230.4 kBd) IO-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Guide value for payload, horizontal	56 kg
Additional moving mass per 10 mm stroke Product weight 4019 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 Ves IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, process data width OUT Je Byte IO-Link®, process data content OUT Je If (move in) Je If (move out) Je If (move	Guide value for payload, vertical	18 kg
Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Of 9 g Number of digital logic outputs 24 V DC Logic input specification Work range of logic input Characteristics of logic input OLink®, SIO mode support OLink®, protocol version OLink®, port class OLink®, port class OLink®, process data width OUT OLink®, process data content OUT Dit (move in) 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 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 Characteristics of logic input Ves 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 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	4019 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 I Device V 1.1 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	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 Yes IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, port class A IO-Link®, number of ports I Syte 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 I 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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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 Seyte IO-Link®, process data width OUT IO-Link®, process data content OUT Device V 1.1 IO-Link®, port class A IO-Link®, process data width OUT Io-Link®, process data content OUT Ibit (move in) I bit (move out) I 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 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 IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT IO-Link®, process data content OUT Io-Link®, process data content OUT Ibit (move in) I bit (move out) I bit (quit error)	IO-Link®, protocol version	Device V 1.1
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)	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