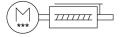
Electric cylinder unit EPCS-BS-60-50-12P-A-ST-M-H1-PLK-AA Part number: 8118296

FESTO





Data sheet

Feature	Value
Size	60
Stroke	50 mm
Stroke reserve	0 mm
Piston rod thread	M12x1.25
Reversing backlash theoretical	100 μm
Spindle diameter	12 mm
Spindle pitch	12 mm/U
Torsional backlash at piston rod +/-	1 deg
Mounting position	optional
Piston-rod end	Male thread
Type of motor	Stepper motor
Design	Electric cylinder With ball screw drive With integrated drive
Spindle type	Ball screw drive
Symbol	00997294
Protection against torque/guide	With plain-bearing guide
Referencing	Positive fixed stop block Negative fixed stop block Reference switch
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder 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
Features of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current digital logic outputs	100 mA
Max. current consumption	5300 mA
Nominal voltage DC	24 V
Nominal current	5.3 A

User interface	Feature	Value
Rotor position transducer resolution 16 bit Permissible voltage fluctuations -/-15% Permissible voltage fluctuations -/-15% Power supply, connection system M12x1, 1 coded according to EN 61076 2:111 Power supply, connection pattern 00995989 Approval RCM trademark KC-BW CE mark (see declaration of conformity) To EU EMC Directive In Secondario with EU Rolfs Directive In Sec	Parameterisation interface	
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Power supply, connection type Plugs Dower supply, manufer of pins / wires A	<u>'</u>	
Power supply, connection system M12x1, T coded according to EN 61076 2·111 Power supply, number of pins wires 4 Power supply, number of pins wires Approval RCM trademark KC EMV E mark (see declaration of conformity) To EU EMC Directive In accordance with EU Roils Directive In accordance with EU Roils Directive In SUR STEAM SINGER EMC To UK Roils instructions To STEAM STEAM To UK Roils instructions To STEAM STEAM To STEAM STEAM To STEAM STEAM To UK Roils instructions To Steam Steam Steam STEAM To UK Roils instructions To Steam Steam Steam STEAM To UK Roils instructions To Steam Steam Steam STEAM To UK Roils instructions To Steam S		
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Storage temperature - 20 °C 60 °C 90 °C 80 °C 80 °C 90 °C 80 °C 90 °C 80 °C 90 °	Corrosion resistance class CRC	0 - No corrosion stress
Relative air humidity Degree of protection Ambient temperature O *C 50 *C Note on ambient temperature Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30 *C. Max. moment Mx Max. moment My Ax. moment My Ax. moment Mz Ax. moment Mz Ax. red force at drive shaft 230 N Ax. red force Fx Reference value effective load, horizontal Reference value effective load, vertical 18 kg Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight for 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke 2294 g Additional weight per 10 mm stroke Additional oligic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, process data content OUT Link (move out) Link (move out) Lichik (move out)	LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection IP40	Storage temperature	-20 °C 60 °C
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Max. radial force at drive shaft Ax. feed force Fx Reference value effective load, horizontal Reference value effective load, vertical By Based Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight for 0 mm stroke Additional weight for 0 mm stroke Additional weight per 10 mm stroke Based on IEC 61131-2, type 1 Configurable Working 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, Process data length OUT Libit (move in) 1-bit (move out)	Max. moment My	6.4 Nm
Max. feed force FX Reference value effective load, horizontal Reference value effective load, vertical Reference value effective load, horizontal Reference value effective load, vertical Reference value effective load, horizontal Reference value effective load, vertical Reference value effective load, vertical Reference value effective load, sobject Reference value effective load, sob	Max. moment Mz	6.4 Nm
Reference value effective load, horizontal S6 kg Reference value effective load, vertical Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Basic weight for 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Basic weight for 0 mm stroke Additional weight per 10 mm stroke Based on IEC 61131-2, type 1 Working range of logic input Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 COM3 (230.4 kBaud) IO-Link, Port class A IO-Link, Number of ports 1 Libit (move in) 1-bit (move out) 1-bit (quit error)	Max. radial force at drive shaft	230 N
Reference value effective load, vertical Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Basic weight for 0 mm stroke Additional weight per 10 mm stroke Additional w	Max. feed force Fx	375 N
Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 2639 g Basic weight for 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 input 2 Specification logic input Based on IEC 61131-2, type 1 Working 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 kBaud) IO-Link, Number of ports 1 IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move out) 1-bit (move out) 1-bit (quit error)	Reference value effective load, horizontal	56 kg
Additional moving mass per 10 mm stroke Product weight 2639 g Basic weight for 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 Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated 10-Link, S10-Mode support Yes 10-Link, Protocol version Device V 1.1 10-Link, Port class A 10-Link, Process data length OUT D-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (move out) 1-bit (quit error)	Reference value effective load, vertical	18 kg
Product weight Basic weight for 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 Specification logic input Based on IEC 61131-2, type 1 Working 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 kBaud) IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT Jebit (move out) 1-bit (move out) 1-bit (move out) 1-bit (quit error)	Moving mass for 0 mm stroke	305 g
Basic weight for 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Yes IO-Link, Protocol version IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move out) 1-bit (move out) 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 Specification logic input Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT D-Link, Process data content OUT Additional weight per 10 mm stroke 69 g A Based on IEC 61131-2, type 1 Configurable Not galvanically isolated Not galvanically isolated Configurable Not galvanically isolated Coma (230.4 kBaud) IO-Link, Prot class A IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move in) 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 Specification logic input Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT D-Link, Process data content OUT	Basic weight for 0 mm stroke	2294 g
Number of digital logic input Specification logic input Based on IEC 61131-2, type 1 Working 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 length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move out) 1-bit (move out) 1-bit (quit error)	Additional weight per 10 mm stroke	69 g
Specification logic input Working range of logic input 24 V Features 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 kBaud) IO-Link, Port class A IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes 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
Working range of logic input Features 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 kBaud) IO-Link, Port class A IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (quit error)	Number of digital logic inputs	2
Features of logic input Configurable Not galvanically isolated Yes IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT IO-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (quit error)	Specification logic input	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 kBaud) IO-Link, Port class A IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (quit error)	Working range of logic input	24 V
IO-Link, Protocol version IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (quit error)	Features of logic input	
IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A IO-Link, Number of ports I 2 bytes IO-Link, Process data length OUT 1-bit (move in) 1-bit (move out) 1-bit (quit error)	IO-Link, SIO-Mode support	Yes
IO-Link, Port class IO-Link, Number of ports IO-Link, Process data length 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
IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes 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 kBaud)
IO-Link, Process data length OUT 2 bytes IO-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
1-bit (move out) 1-bit (quit error)	IO-Link, Process data length OUT	2 bytes
	IO-Link, Process data content OUT	1-bit (move out)
	IO-Link, Process data length IN	2 bytes

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 IN	32-bit force 32-bit position 32-bit speed
IO-Link, Min. cycle time	1 ms
IO-Link, Data storage required	500 Byte
Max. cable length	15 m outputs 15 m inputs 20 m with IO-Link® operation
Switching logic for outputs	NPN (negative switching) PNP (positive switching)
Switching logic for inputs	NPN (negative switching) PNP (positive switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101
Logic interface, number of pins/wires	8
Logic interface, plug pattern	00992264
Type of mounting	Via female thread With accessories
Note on materials	RoHS-compliant
Material housing	Smooth-anodised wrought aluminium alloy
Material piston rod	High-alloy stainless steel
Material spindle nut	Steel
Material spindle	Rolled steel