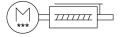
Electric cylinder unit EPCS-BS-32-200-3P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118270





Data sheet

Feature	Value
Size	32
Stroke	200 mm
Stroke reserve	0 mm
Piston rod thread	M8
Reversing backlash theoretical	100 μm
Spindle diameter	8 mm
Spindle pitch	3 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	1.5 m/s ²
Max. speed	0.079 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	3000 mA
Nominal voltage DC	24 V
Nominal current	3 A

User interface	Feature	Value
Rotor position transducer resolution Fermissible voltage fluctuations -/-15% Permissible voltage fluctuations -/-15% Physe power supply, connection system M12x1, T-coded according to EN 61076 2·111 Power supply, connection pattern 00995/899 Approval RCM trademark KC-Mark CE mark (see declaration of conformity) To EU EMC Directive In sucordance with EU ROHS Directiv	Parameterisation interface	
Permissible voltage fluctuations -/.15% Power supply, connection type Plugs Power supply, connection system M12.1, Fooded according to EN 61076-2-111 Power supply, connection pattern Power supply, connection pattern Power supply, connection pattern RC mark (RC mark RC mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive In Succession of EMC To UK ROHS Instructions FAMC Shock resistance	Rotor position transducer resolution	
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6008.2-6 Shock resistance Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC O-No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Storage temperature 2-20°C60°C Relative air humidity Non-condensing Degree of protection IP40 Ambient temperature O-7°C50°C Note on ambient temperature Note on ambient temperature Note on ambient temperature Note an ambient temperature Now, Non-condensing Degree of protection Nax. moment Mx O-80°C. Nax. moment Mx O-80°C. Nax. moment My 1.5 Mm Nax. moment My 1.5 Nm Nax. radial force at drive shaft 75 N Nax. feed force Fx 150 N Reference value effective load, horizontal 2 kg Moving mass for 0 mm stroke 98 g Additional moving mass per 10 mm stroke Nasis (weight for 0 mm stroke 129 Rg Sassis weight for 0 mm stroke 129 Rg Sassis weight for 0 mm stroke 129 Rg Additional weight per 10 mm stroke 120 Rg Additional weight per 10 mm stroke 120 Rg Additional weight per 10 mm stroke 121 Rg Number of digital logic input 122 Rg Number of digital logic input 124 V Specification logic input 126 Rg Nort gange of logic input 126 Rg Nort gange of logic input 127 Rg Nort gange of logic input 128 Rg Nort gange of logic input 129 Rg Nort gange of logic input 120 Link, Port class 120 Link, Nort class 131 Link (move out) 1-10 Link, Nort class 141 Link (move out) 1-10 Link, Unumber of ports 1-10 Link, Nort class 1-10 Link	CE marking (see declaration of conformity)	
Corrosion resistance class CRC LABS (PWIS) conformity VDMA24364 zone III VDMA24364 zone III VDMA24364 zone III O - 90% Relative air humidity O - 90% Non-condensing Degree of protection Ambient temperature O °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Note on ambient temperature No Nm Max. moment MX O Nm Max. moment My 1.5 Nm Max. moment My 1.5 Nm Max. moment Mz 1.5 Nm Max. reed force Fx 150 N Reference value effective load, horizontal Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC 2 Number of digital logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, Protess data content OUT Libit (move un)	Vibration resistance	
LABS (PWIS) conformity VDMA24364 zone III Storage temperature 20 °C 60 °C	Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Storage temperature -20 °C 60 °C Relative air humidity 0 - 90% Non-condensing Degree of protection IP40 Ambient temperature 0 °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx 0 Nm Max. moment My 1.5 Nm Max. moment My 1.5 Nm Max. radial force at drive shaft 75 N Max. feed force Fx 150 N Reference value effective load, horizontal 24 kg Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke 98 g Additional moving mass per 10 mm stroke 3.3 g Product weight 1298 g Basic weight for 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Unumber of digital logic input Working range of logic input Configurable Not galvanically isolated Not galvanically isolated 10-Link, Protocol version Device V 1.1 10-Link, communication mode COM3 (230.4 kBaud) 10-Link, protess data content OUT Libit (move out)	Corrosion resistance class CRC	0 - No corrosion stress
Relative air humidity Degree of protection Ambient temperature O *C 50 *C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30 *C. Max. moment Mx O Nm Max. moment My 1.5 Nm Max. moment Mz 1.5 Nm Max. moment Mz 1.5 Nm Max. red dire shaft 75 N Max. red force at drive shaft 75 N Reference value effective load, horizontal Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 98 g Additional moving mass per 10 mm stroke 1298 g Basic weight for 0 mm stroke 318 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic 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 IO-Link, communication mode IO-Link, protocss data content OUT Link, Process data content OUT	LABS (PWIS) conformity	VDMA24364 zone III
Non-condensing Degree of protection IP40 Ambient temperature O °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My I.5 Nm Max. moment MZ I.5 Nm Max. redial force at drive shaft 75 N Max. feed force Fx I50 N Reference value effective load, vertical Reference value effect	Storage temperature	-20 °C 60 °C
Ambient temperature Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My 1.5 Nm Max. moment Mz 1.5 Nm Max. radial force at drive shaft 75 N Max. feed force F x Reference value effective load, horizontal Reference value effective load, vertical Moving mass for 0 mm stroke 98 g Additional moving mass per 10 mm stroke 3.3 g Product weight 10 mm stroke 818 g Additional weight per 10 mm stroke Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Working range of logic input Working range of logic input Configurable Not galvanically isolated 10-Link, Protocol version Device V 1.1 Do-Link, Prot class A 10-Link, Process data content OUT Link, Number of ports 1 Lit (move in) Lith (move in) Lith (move out)	Relative air humidity	
Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Aux. moment Mx	Degree of protection	IP40
Max. moment Mx Max. moment My 1.5 Nm Max. moment My 1.5 Nm Max. moment Mz 1.5 Nm Max. radial force at drive shaft 75 N Max. feed force Fx 150 N Reference value effective load, horizontal 24 kg Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke 98 g Additional moving mass per 10 mm stroke 3.3 g Product weight Basic weight for 0 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 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 IO-Link, Protocol version Device V 1.1 IO-Link, Protocol version Device V 1.1 IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT Link (move in) Libit (move out) Libit (quit error)	Ambient temperature	0 ℃ 50 ℃
Max. moment My Max. moment Mz 1.5 Nm Max. radial force at drive shaft 75 N Max. feed force Ex Reference value effective load, horizontal Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 818 g Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke 818 g Number of digital logic outputs 24 V DC 2 Number of digital 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 IO-Link, Port class A IO-Link, Porcess data length OUT IO-Link, Process data content OUT I-bit (move out) 1-bit (quit error)	Note on ambient temperature	
Max. moment Mz Max. radial force at drive shaft 75 N Max. feed force Fx 150 N Reference value effective load, horizontal Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke 98 g Additional moving mass per 10 mm stroke 1298 g Basic weight for 0 mm stroke 818 g Additional weight per 10 mm stroke 818 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Specification logic input Working range of logic input Working range of logic input Configurable Not galvanically isolated 10-Link, Protocol version Device V 1.1 10-Link, Port class A 10-Link, Number of ports 10-Link, Process data length OUT Link, Process data content OUT Link (move out) 1-bit (move out)	Max. moment Mx	0 Nm
Max. radial force at drive shaft 75 N Max. feed force Fx 150 N Reference value effective load, horizontal 24 kg Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 3.3 g Product weight 1298 g Basic weight for 0 mm stroke Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke Additional weight grid injust 24 g Number of digital logic outputs 24 V DC 2	Max. moment My	1.5 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, eventual Reference value effective load, vertical Reference value effective load, eventual Refe	Max. moment Mz	1.5 Nm
Reference value effective load, horizontal Reference value effective load, vertical 12 kg Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight for 0 mm stroke 818 g Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Specification logic input Working range of logic input Configurable Not galvanically isolated IO-Link, Protocol version Device V 1.1 IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT Link (move out) 1-bit (move out)	Max. radial force at drive shaft	75 N
Reference value effective load, vertical Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight for 0 mm stroke Additional weight per 10 mm stroke Basic weight for 0 mm stroke Additional weight per 10 mm stroke Product weight for 0 mm stroke Additional weight per 10 mm stroke Based on IEC 61131-2, type 1 Configurable Not galvanically isolated Not galvanically isolated Actional Configurable Not galvanically isolated COM3 (230.4 kBaud) Actional Configurable Not galvanically isolated Actional Configuration Actional Configuration Actional Configuration Actional Configuratio	Max. feed force Fx	150 N
Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 1298 g Basic weight for 0 mm stroke 818 g Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 22 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) 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)	Reference value effective load, horizontal	24 kg
Additional moving mass per 10 mm stroke Product weight 1298 g Basic weight for 0 mm stroke 818 g Additional weight per 10 mm stroke 24 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 Yes IO-Link, Protocol version Device V 1.1 IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT Jebit (move in) 1-bit (move out) 1-bit (quit error)	Reference value effective load, vertical	12 kg
Product weight 1298 g Basic weight for 0 mm stroke 818 g Additional weight per 10 mm stroke 24 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 24 V Features of logic input Configurable Not galvanically isolated Not galvanically isolated Not galvanically isolated Not Jalvanically isolated Not Jalvanication mode COM3 (230.4 kBaud) Not Jalvanication mode COM3 (230.4 kBaud) Not Jalvanication mode Include, Process data length OUT Include, Process data content OUT Include, Process data content OUT Include Inclu	Moving mass for 0 mm stroke	98 g
Basic weight for 0 mm stroke Additional weight per 10 mm stroke 24 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 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 (move out) 1-bit (quit error)	Additional moving mass per 10 mm stroke	3.3 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 Eatures of logic input O-Link, SIO-Mode support O-Link, Protocol version O-Link, communication mode O-Link, Port class O-Link, Number of ports O-Link, Process data length OUT O-Link, Process data content OUT D-Link, Process data content OUT D-Link, Process data content OUT D-Link, Process data content OUT Assert August A	Product weight	1298 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 IO-Link, Protocol version IO-Link, Port class A IO-Link, Number of ports IO-Link, Process data length OUT IO-Link, Process data content OUT D-Link, Process data content OUT	Basic weight for 0 mm stroke	818 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	24 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 I 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 (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 (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 Country Country 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, 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 IO-Link, Process data length OUT IO-Link, Process data content OUT I-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	Α
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