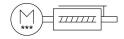
Electric cylinder unit EPCS-BS-60-100-5P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118288





General operating condition

Data sheet

Feature	Value
Size	60
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M12x1.25
Reversing backlash theoretical	100 μm
Spindle diameter	12 mm
Spindle pitch	5 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
Temperature monitoring	Switch-off for excessive temperature Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface Integrated end-position sensing
Display	LED
Ready status indication	LED
Max. acceleration	1.5 m/s ²
Max. speed	0.09 m/s
Speed "Speed press"	0.01 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 Nominal current S.3.A Remorterisation interface Rotor position interface Rotor position interface Rotor position transducer resolution 16 bit Permissible voltage fluctuations 4-7-198 Permissible voltage fluctuations 4-7-198 Permissible voltage fluctuations 4-7-198 Pures supply, connection system M12x1, 1-coded according to EN 61076-2-111 Rower supply, number of pinic viewer 4 ROWER supply, number of pinic viewer 5 ROWER supp	Feature	Value
Nominal current Parameterisation interface Stotor position transducer resolution I to Bit Permaneterisation interface Stotor position transducer resolution I to Bit Power supply, connection type Plugs Power supply, connection type Plugs Power supply, connection type Power supply, connection pattern Power supply pattern Power supply, connection pattern Power supply, connection pattern Power supply pa	Max. current consumption, logic	0.3 A
Nominal current Parameterisation interface Stotor position transducer resolution I to Bit Permaneterisation interface Stotor position transducer resolution I to Bit Power supply, connection type Plugs Power supply, connection type Plugs Power supply, connection type Power supply, connection pattern Power supply pattern Power supply, connection pattern Power supply, connection pattern Power supply pa	Nominal voltage DC	24 V
User Interface		5.3 A
Rotor position transducer resolution Permissible voltage fluctuations Prover supply, connection system M12x1, T-caded according to EN 610/6-2-111 Power supply, connection system M2x1, T-caded according to EN 610/6-2-111 Power supply, connection system M2x1, T-caded according to EN 610/6-2-111 Power supply, connection system M2x1, T-caded according to EN 610/6-2-111 Power supply, connection pattern O0995989 Approval RCM trademark KC-BW CE mark (see declaration of conformity) To EU ENC Directive In accordance with EU ROIS Dir	Parameterisation interface	IO-Link
Permissible voltage fluctuations // 15% Power supply, connection type Power supply, connection system Power supply, number of pins/wires Power supply, number of pins/wires Approval RCM trademark KC mark KC mark KC EMW CE mark (see declaration of conformity) In EUR EMC Directive In accordance with EUR BIS Directive In CKR marking (see declaration of conformity) In EUR KR BIS Intractions for EWC In UK instructions for EWC In UK Revisit instructions for EWC In Convoicin team with severity level 1 to FN 942017-9 and EN 6608-2-27 Corrosion resistance class CRC In O. No corrosion stress In UK Revisit instructions several instructions in team for EWC In Experimentary In Corrosion In EWC In Experimentary In Experimentar		User interface
Power supply, connection type power supply, connection system power supply, connection system M12x1, T-coded according to EN 61076-2-111 Power supply, connection pattern O0995989 Approval RCM trademark KC mark RC mark (see declaration of conformity) To EU ENC Directive In accordance with EU BoHS Directive In accordance with EU BoHS Directive In UK RoHS instructions To UK ROHS instruction	Rotor position transducer resolution	16 bit
Power supply, connection system M12x1, T-coded according to EN 61076-2-111 Power supply, number of pins/wires Approval RC mark RC mark (see declaration of conformity) To EU ENC Directive In accordance with EU BoH5 Directive In accordance with EU BoH5 Directive In Conformity To UK instructions for EMC To UK Roh15 instructions Wibration resistance Shock resistance Shock tresistance Shock tresistance Shock tresistance Shock tresistance Corrosion resistance class CRC O - No corrosion stress Class 9 according to 150 14644-1 Clearroom class Class 9 according to 150 14644-1 Clearroom class Class 9 according to 150 14644-1 Storage temperature 2-0 °C 60 °C Relative air hunidity Non-condensing Degree of protection Path Protection class III Marbient temperature 0 °C 50 °C Max. moment Mx O Nim Max. moment Mx O Nim Max. moment Mx O Nim Max. moment Mx G. A Nim Max. moment Mx G. A Nim Max. moment Mx G. A Nim Max. moment My G.	Permissible voltage fluctuations	+/- 15%
Power supply, number of pins/wires 4 Power supply, connection pattern 7 Opp95989 8 CM trademark KC mark CE mark (see declaration of conformity) 10 EU EMC Directive In accordance with EU RoH's Directive In accordance with EU RoH's Directive IN UKCA marking (see declaration of conformity) 10 UK RoH's Instructions for EMC 10 UK RoH's Instructions 11 UK RoH's Instructions 12 UK RoH's Instructions 12 UK RoH's Instructions 13 UK RoH's Instructions 14 In Struction resistance 15 Shock resistance 16 Shock test with severity level 1 to FN 942017-4 and EN 60068-2-27 16 Corrosion resistance class CRC 17 On No corrosion stress 18 UK ROH's Instructions 18 UK ROH's Instructions 18 UK ROH's Instructions 18 UK ROH's Instructions 18 UK ROH's Instruction Rules 18 UK ROH's Instructions 18 UK ROH's Instruction Rules 18 UK ROH's Rules 18	Power supply, connection type	Plugs
Power supply, connection pattern Approval Approval Approval Approval Approval Approval Approval RCM trademark KC EMW CE mark (see declaration of conformity) In accordance with EU BoHS Directive IN UK instructions for EMC IO UK RohS instructions Vibration resistance Shock resistance Shock resistance Shock resistance class CRC O. No corrosion stress Carosion resistance class CRC O. No corrosion stress Class 9 according to ISO 14644-1 Storage temperature 2.0 °C 60 °C Relative air humidity O. 90% Relative air humidity O. 90% Non-condensing Degree of protection IPA0 Protection class III Ambient temperature O. °C 50 °C None make the market of the protection of the market of the protection of the prote	power supply, connection system	M12x1, T-coded according to EN 61076-2-111
Approval KC mark Koe declaration of conformity) To EU EMC Directive In accordance with EU Rorts Directive In accordance with EU Rorts Directive In Standard Mark Instructions To UK Rorts To	Power supply, number of pins/wires	4
KC mark KC mark (SC EMV CE mark (see declaration of conformity) To EU EMC Directive In accordance with EU RoHS Directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Vibration resistance Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance (Shock resistance) Shock resistance (Shock resistance) Corrosion resistance class CRC O - No corrosion stress Class of Pacroding to ISO 14644-1 Class of Pacr	Power supply, connection pattern	00995989
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To UK RoHS instructions	CE mark (see declaration of conformity)	
60068-2-6 Shock resistance Shock resistance Corrosion resistance class CRC O-No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Cleanroom class Class 9 according to ISO 14644-1 Storage temperature -20 °C 60 °C Relative air humidity O-90% Non-condensing Degree of protection IP40 Protection class III Ambient temperature O°C 50 °C Note on ambient temperature above ayo°C. Max. moment Mx ONIM Max. moment Mz 6.4 Nm Max. moment Mz 6.4 Nm Max. radial force at drive shaft 230 N Max. feed force Ex SOON Max. feed force Ex SOON Max. feed force Ex SOON Max. feed force walue effective load, horizontal 120 kg Reference value effective load, horizontal 120 kg Reference value effective load, vertical 130 kg Reference value effective load, vertical 146 kg Maintenance interval Life-time lubrication Moving mass for O mm stroke 305 g Additional moving mass per 10 mm stroke 65 g Rumber of digital logic outputs 24 V DC 2 Number of digital logic outputs 24 V DC 2 Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated Not Link, S10-Mode support Ves Configurable Not galvanically isolated Ol-Link, Fort colass A	UKCA marking (see declaration of conformity)	
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Clear om class Class 9 according to ISO 14644-1 Storage temperature 20 ° C 60 ° C Relative air humidity Degree of protection IP40 Protection class III 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 No Nm Max. moment My 6.4 Nm Max. moment My 6.4 Nm Max. radial force at drive shaft 230 N Max. feed force Fx 900 N Reference value effective load, horizontal 120 kg Reference value effective load, vertical Moving mass for 0 mm stroke 30 ° S Additional moving mass per 10 mm stroke 6.5 g Product weight 2294 g Additional weight per 10 mm stroke 69 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 Personal Personal Personal Configurable Not galvanically isolated Not galvanically isolated Ol-Link, Port class A Head of the standard production of the personal per	Corrosion resistance class CRC	0 - No corrosion stress
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Relative air humidity Degree of protection Protection class III 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 6.4 Nm Max. moment My 6.4 Nm Max. moment Mz 6.4 Nm Max. radial force at drive shaft 230 N Max. feed force Fx 900 N Reference value effective load, horizontal 120 kg Reference value effective load, vertical Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight Basic weight for 0 mm stroke 2294 g Additional weight per 10 mm stroke 40 g Additional weight per 10 mm stroke 69 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, S10-Mode support Ves IO-Link, Port class A Device V 1.1 IO-Link, Port class A	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection IP40 Protection class III Ambient temperature 0°C50°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 6.4 Nm Max. moment MZ 6.4 Nm Max. radial force at drive shaft 230 N Max. fed force Fx 900 N Reference value effective load, horizontal 120 kg Reference value effective load, vertical 46 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product 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 24 V Features of logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated Ol-Link, Flot Col version Device V 1.1 Ol-Link, Port class A	Storage temperature	-20 ℃ 60 ℃
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Max. moment Mx O Nm Max. moment My 6.4 Nm Max. moment Mz 6.4 Nm Max. radial force at drive shaft 230 N Max. feed force Fx 900 N Reference value effective load, horizontal 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 Additional weight for 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital 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, Port class A	Ambient temperature	0 °C 50 °C
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Max. radial force at drive shaft Max. feed force Fx 900 N Reference value effective load, horizontal Reference value effective load, vertical Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Basic weight for 0 mm stroke Additional weight per 10 mm stroke Product weight Basic weight for 0 mm stroke Additional weight per 10 mm stroke Copin gurable for the features of logic input Additional weight per 10 mm stroke Configurable for the features of logic input Configurable for the force of logic input Yes IO-Link, SIO-Mode support Pes IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class	Max. moment My	6.4 Nm
Max. feed force Fx Reference value effective load, horizontal Reference value effective load, vertical Maintenance interval Moving mass for 0 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 por 10 mm stroke 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 IO-Link, Communication mode COM3 (230.4 kBaud) ILfe-time lubrication 120 kg 46 kg 46 kg 48 kg 89 g 89 g 89 g 80 g 8	Max. moment Mz	6.4 Nm
Reference value effective load, horizontal Reference value effective load, vertical A6 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 2984 g Basic weight for 0 mm stroke Additional weight per 10 mm stroke 69 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, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Communication mode COM3 (230.4 kBaud) IO-Link, Port class	Max. radial force at drive shaft	230 N
Reference value effective load, vertical Maintenance interval Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight Basic weight for 0 mm stroke Additional weight per 10 mm stroke 69 g Number of digital logic outputs 24 V DC Number of digital 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 ILIG-time lubrication 305 g 46 kg Life-time lubrication 305 g 305 g 305 g 405 g 2984 g 2984 g 89 g 89 g 80 g	Max. feed force Fx	900 N
Maintenance interval Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 2984 g Basic weight for 0 mm stroke Additional weight per 10 mm stroke 69 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 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	Reference value effective load, horizontal	120 kg
Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 2984 g Basic weight for 0 mm stroke 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 24 V Features 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	Reference value effective load, vertical	46 kg
Additional moving mass per 10 mm stroke Product weight 2984 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 IO-Link, SIO-Mode support Ves IO-Link, communication mode COM3 (230.4 kBaud) A	Maintenance interval	Life-time lubrication
Product weight 2984 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 24 V Features of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Yes IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	Moving mass for 0 mm stroke	305 g
Basic weight for 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 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, Port class A 2294 g 2294 g 69 g Configurable Not galvanically isolated Configurable Not galvanically isolated COM3 (230.4 kBaud) A	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 Eatures 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 69 g Communication mode Communication mode 69 g Communication mode Communication mode A Communication mode Communication mode A	Product weight	2984 g
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 Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A	Basic weight for 0 mm stroke	2294 g
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 Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A	Additional weight per 10 mm stroke	
Number of digital logic input Specification logic input Working range of logic input Eatures 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 Based on IEC 61131-2, type 1 Configurable Not galvanically isolated Ves Configurable Not galvanically isolated COM3 (230.4 kBaud) A	Number of digital logic outputs 24 V DC	
Working range of logic input Features of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) A	Number of digital logic inputs	2
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) A	Specification logic input	Based on IEC 61131-2, type 1
Not galvanically isolated 10-Link, SIO-Mode support 10-Link, Protocol version 10-Link, communication mode 10-Link, Port class A Not galvanically isolated Yes Communically isolated Yes 10-Link, Protocol version Device V 1.1 COM3 (230.4 kBaud) A	Working range of logic input	24 V
IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	Features of logic input	
IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	IO-Link, SIO-Mode support	Yes
IO-Link, Port class A	IO-Link, Protocol version	Device V 1.1
IO-Link, Port class A	IO-Link, communication mode	COM3 (230.4 kBaud)
	IO-Link, Port class	A
	IO-Link, Number of ports	1

Feature	Value
IO-Link, Process data length OUT	2 bytes
IO-Link, Process data content OUT	Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	State Device 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit
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