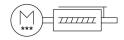
Electric cylinder unit EPCS-BS-60-250-5P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118291





General operating condition

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	5 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
Temperature monitoring	Shutdown in the event of over 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
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

Parameterization interface Botor position sensor resolution Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor resolution Permissible voltage fluctuations Power supply, per Commection Plug Power supply, per Commection Rotor supply, per Commection Rotor supply, per Commection sethenology M12x1, T-coded as per EN 61076-2-111 Rover supply, number of pins //wires A Pure Supply, number of pins //wires A Power supply, number of pins //wires Certification Rotor Commention pattern Coppose supply, connection sethenology Rotor State of Commention (Commention) Rotor Rotor (Commention) Rotor Rotor (Commention) Rotor Rotor (Commention) Rotor (Comme	Feature	Value
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User interface Rotor position sensor resolution	Nominal current	5.3 A
Retor position sensor resolution	Parameterization interface	IO-Link®
Permissible voltage fluctuations // 15 % Power supply, tope of connection Plug Power supply, connection pattern Power supply, connection pattern Power supply, number of pins/wires APOWER supply, connection pattern Compliance mark KC characters CE marking (see declaration of conformity) AS per EU RMS directive CE marking (see declaration of conformity) For the Marking (see declaration of		User interface
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Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Power supply, number of pins/wires Q099598 Certification RC connection pattern RC commonition pattern RC commonition and recommendation of conformity) RC characters RC Emarking (see declaration of conformity) RC characters RC Emarking (see declaration of conformity) RC Commonition and recommendation of the RC To UK Rosh's instructions RC Commonition and RC RC To UK Rosh's instructions RC Commonition and RC	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires Power supply, connection pattern O0995989 Certification RCM compliance mark KC characters KC Emarking (see declaration of conformity) RC characters RC Emarking (see declaration of conformity) RC characters RC Emarking (see declaration of conformity) RC conformity RC characters RC Emarking (see declaration of conformity) RC ID KR instructions for EMC ID UK Roh's Instructions RC RC ID UK RC ID UK ROH's Instructions RC RC ID UK	Power supply, type of connection	Plug
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Certification RCM compliance mark	Power supply, number of pins/wires	4
KC characters KC Emarking (see declaration of conformity) As per EU RMC directive fix per EU RMC directive As per EU RMC directive fix per EU RMC directive As per EU RMC di	Power supply, connection pattern	00995989
EE marking (see declaration of conformity) As per EU ENC directive As per EU Rot's directive As per EU Rot's directive UKCA marking (see declaration of conformity) To UK instructions To UK Rot's Instructions To UK Rot's Instructions Transport a papilication test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosion stress Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364 zone III Cleanroom class Class 9 according to ISO 14644-1 Storage temperature 2-0° C 60° C Relative air humidity O 9.9% Non-condensing Degree of protection IP40 Protection class III 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 O N m Max. torque Mx O N m Max. torque My Ass. ardial force on actuator shaft 230 N Max. redel force FX Outled Force FX Outled Force FX Outled Fy apyload, horizontal 120 Ng Guide value for payload, horizontal 120 Ng Guide value for payload, portical Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 109 g Masside filted force for 10 mm stroke 109 g Masside filted filted for 10 mm stroke 109 g Masside filted filted filted for 10 mm stroke 100 g filted filte	Certification	RCM compliance mark
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EN 60068-2-6 Shock resistance Shock resistance Corrosion resistance class (CRC) O-No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Cleantoon 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 an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX O Nm Max. torque MX O Nm Max. torque MY Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX O Nm Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX O Nm Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Do Nm Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the power must be reduced by 278 per K. Max. torque MX Above an ambient temperature of 30°C, the Selve WX Amax. torque MX Above an ambient temperature of 30°C, the Selve WX Amax. torque MX Above an ambient	UKCA marking (see declaration of conformity)	
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Cleanroom class Class 9 according to ISO 14644-1 Storage temperature -20 °C 60 °C Relative air humidity 0 -90 % Non-condensing Degree of protection IP40 Protection class III Ambient temperature 0 °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 Mx Max. torque My 6.4 Mm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.4 km Max. torque Mz 6.4 km Max. torque Mz 6.4 km Max. torque Mz 6.5 g Froduct weller for payload, horizontal 120 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 6.5 g Product weight with 0 mm stroke 6.5 g Product weight with 0 mm stroke 6.5 g Product weight ther 10 mm stroke 6.6 g Raditional weight per 10 mm stroke 6.9 g Number of digital logic inputs 2 Uchink®, protecil logic input Configurable Not galvanically isolated Not galvanically isolated Ol-Link®, communication mode Oculink®, protocol version Device V 1.1 Ol-Link®, communication mode Ol-Link®, protocol version Device V 1.1 Ol-Link®, communication mode Ol-Link®, protocol version Device V 1.1 Ol-Link®, communication mode	Corrosion resistance class (CRC)	0 - No corrosion stress
Storage temperature 20 °C 60 °C Relative air humidity 0.9.90 % Non-condensing Degree of protection IP40 Protection class III Ambient temperature 0.9°C 50°C Note on ambient temperature	LABS (PWIS) conformity	VDMA24364 zone III
Relative air humidity Degree of protection Protection class III 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 Abay ean ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Base do N I Easter of 10°C and 10°C an	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection class III 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 As. torque My As. torque MZ As. torque MZ As. radial force on actuator shaft 230 N As. red force Fx 900 N As. ted force Fx 900 N As. ted force fx Uife-time lubrication 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 per 10 mm stroke Additional per of digital logic outputs 24 V DC Number of digital logic inputs 2 V Characteristics of logic input Configurable Not galvanically isolated Ol-Link®, S10 mode support Ves Characteristics of logic input Col-Link®, protecol version Ol-Link®, protecol version Col-Link®, protecol version Col-Link®, communication mode COM3 (230.4 kBd) Cl-Link®, port class	Storage temperature	-20 °C 60 °C
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Max. radial force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight4019 gBasic weight with 0 mm stroke2294 gAdditional weight per 10 mm stroke69 gNumber of digital logic outputs 24 V DC2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic inputConfigurable Not galvanically isolatedIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Max. torque My	6.4 Nm
Max. radial force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight4019 gBasic weight with 0 mm stroke2294 gAdditional weight per 10 mm stroke69 gNumber of digital logic outputs 24 V DC2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic inputConfigurable Not galvanically isolatedIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Max. torque Mz	6.4 Nm
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Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 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 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Guide value for payload, vertical	46 kg
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Product weight 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 Yes IO-Link®, SIO mode support Ves IO-Link®, communication mode COM3 (230.4 kBd) A 4019 g	Additional moving mass per 10 mm stroke	
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IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A		
IO-Link®, port class A		
·		
	IO-Link®, number of ports	1

Feature	Value
IO-Link®, process data width OUT	2 Byte
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 width IN	2 Byte
IO-Link®, process data content IN	State In 1 bit State Out 1 bit State Move 1 bit State Device 1 bit State Intermediate 1 bit
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