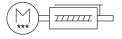
Electric cylinder unit EPCS-BS-60-300-5P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118292





General operating condition

Data sheet

Feature	Value
Size	60
Stroke	300 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

Logic max. current consumption	Feature	Value
Nominal current Parametrization interface Stotor position sensor resolution 16 bit Perametrization interface Stotor position sensor resolution 17 bit Power supply, tonaction 18 bit Power supply, connection Power supply, connection pattern Coefficial Resolution RN compliance mark KC characters KC	Logic max. current consumption	0.3 A
Parameterization interface Rotor position sensor resolution Rotor position sensor resolution Remissible voltage fluctuations Prover supply, per Commection Piling Power supply, per Commection Piling Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Power supply, mumber of pins wires O0995989 Certification Rot Centralization Rot Campliance mark Rot Campliance mark Rot Characteris CE marking (see declaration of conformity) Rotor supply, commercion pattern Rotor Certification Rot Characteris Rot Characteris Rot Characteris Rot Characteris Rotor Campliance mark Rotor Certification Rotor Characteris Rotor Campliance mark Rotor Certification Rotor Characteris Rotor Certification Rotor Characteris Rotor Certification Rotor Characteris Rotor Certification Rotor Characteris Rotor Certification Rotor Characteristics Rotor Certification Rotor Characteristics Rotor Certification Rotor Characteristics Rotor Certification Rotor Characteristics Rotor Rotor Characteristics Rotor Rotor Characteristics Rotor Rotor	DC nominal voltage	24 V
User interface Rotor position sensor resolution 16 bit Permissible voltage fluctuations 1/-15 % Power supply, commedion technology Plug Power supply, commedion pattern 00995989 Certification RCM compliance mark KC characters KC EMC CE marking (see declaration of conformity) Reper EU LINIC directive As per	Nominal current	5.3 A
Retor position sensor resolution	Parameterization interface	IO-Link®
Permissible voltage fluctuations //-15 % Power supply, tope of connection Ping Power supply, connection pattern Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, connection pattern Power supply supply, connection pattern Power supply supply, connection pattern Power supply supp		User interface
Power supply, type of connection Plug Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Power supply, number of plans/wires 4 Power supply, number of plans/wires 4 Power supply, connection pattern Certification RCM compliance mank KC tharacters RC Emarking (see declaration of conformity) As per EU EMC directive As per EU EMC directive UKCA marking (see declaration of conformity) To LUK marking (see declaration of conformity) To LUK Romits instructions for EMC UK Romits instructions UK Romits instructions UK Romits instructions Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2.6 Shock resistance Shock resistance Shock resistance class (CRC) O- No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O- No cornosino stress Class 9 according to 150 14644-1 Clearnoom class Class 9 according to 150 14644-1 Clearnoom class Class 9 according to 150 14644-1 Clearnoom class UII Ambient temperature O- 90-% Non-condensing Portection class UII Protection class UII Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. UKC and the supplement of the supp	Rotor position sensor resolution	16 bit
Power supply, connection technology M32x1, T-coded as per EN 61076-2-111 Power supply, number of pins/wires A 00999999 Certification KC characters KC EMC CE marking (see declaration of conformity) As per EU ENG directive As EU ENG	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires Power supply, connection pattern Coerflication RC characters KC Emarking (see declaration of conformity) KC characters KC Emarking (see declaration of conformity) To UK instructions for EMC To UK Ront's instructions Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EMS 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance class (CRC) O - No corrosion stress Llass (PWIS) conformity UMMA23648 zone III Cleanroom class Class 9 according to 150 14644-1 Storage temperature 20°C., 60°C Relative air humidity O - 90 % Non-condensing Degree of protection Protection class III Ambient temperature O *C 50°C Note on ambient temperature O *C 50°C Note on ambient temperature O *C 50°C Note on ambient temperature O *D 50°C ANA. torque Mx Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My Max. to	Power supply, type of connection	Plug
Fower supply, connection pattern Certification RCM compliance mark KC Characters KC EMC CE marking (see declaration of conformity) As per ELL BMC directive As per ELL BMC directive INCA marking (see declaration of conformity) As per ELL BMC directive INCA marking (see declaration of conformity) INCA seed of the Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-727 Corrosion resistance Shock resistance IN 60068-2-72 To No corrosion stress IN 60068-2-6 To No corrosion stress To No c	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
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KC characters KC Emarking (see declaration of conformity) As per EU EMC directive CWCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Vibration resistance Vibration resistance Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC) O - No corrosion stress CLABS (PMIS) conformity VDMA2-364 zone III CLABATOM CLAB	Power supply, connection pattern	00995989
EE marking (see declaration of conformity) As per EU RMC directive As per EU RMS directive IUKCA marking (see declaration of conformity) To UK instructions for FMC To UK RoHS instructions To UK RoHS instructions To UK RoHS instructions Transport a pipulication test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRQ) 0 - No corrosion stress Class (PWIS) conformity VDMA24364 zone III Cleanroom class Class 9 according to ISO 14644-1 Storage temperature - 2-0 °C 60 °C Relative air humidity 0 - 90 % Non condensing Degree of protection PAD 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 78% per K. Max. torque Mx Max. torque Mx Max. torque Mx Max. and inforce on actuator shaft Max. radial force on actuator shaft Max. radial force on actuator shaft Max. refed force Fx Guide value for payload, horizontal Guide value for payload, horizontal Guide value for payload, portroital Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Moditional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 V C Characteristics of logic input Configurable Not galvanically isolated OI-Link®, protocol version Device V 1.1 OI-Link®, protocol version Device V 1.1 OI-Link®, protocol version Device V 1.1 OI-Link®, protocol version Dichlare, or morning and protoclass A Handle protocol version Dichlare, or morning and protoclass A Handle protocol version Dichlare, or morning and protoclass A Handle protocol version Dichlare, or morning and protoclass A Handle protocol version Dichlare, or morning and protoclass A Handle protocol version Dichlare, or morning and protoclass A Handle protocol version Dichlare, or morning and protoclass A H	Certification	RCM compliance mark
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EN 60068-2-6 Corrosion resistance Corrosion resistance class (CRC) On-No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Cleantoon class Class 9 according to ISO 14644-1 Storage temperature 20 °C60 °C Relative air humidity Op 96 Non-condensing Degree of protection Protection class III Ambient temperature Op °C50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque Mx On Non-condensing Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Above an ambient temperature of 30°C, the power must be reduced by 276 per K. Above an ambient temperature of 30°C, the power must be reduced by 286 per K. Above an ambient temperature of 30°C, the Son Configurable Not galvanically isolated Not galvanically isolated Not-link®, p	UKCA marking (see declaration of conformity)	
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LABS (PWIS) conformity 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 My 6.4 Nm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.5 Nm Max. feed force Fx 900 N Guide value for payload, horizontal Guide value for payload, vertical Maintenance interval Life-time lubrication Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Additional per 10 mm	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
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 Abbient 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 My 6.4 Mm Max. torque My 6.4 Nm Max. torque My 6.6 A km Max. torque Mz 6.6 A km Aus. torque Mz 6.6	Corrosion resistance class (CRC)	0 - No corrosion stress
Storage temperature	LABS (PWIS) conformity	VDMA24364 zone III
Relative air humidity Degree of protection 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 6.4 Nm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. feed force Fx 900 N Guide value for payload, horizontal Guide value for payload, horizontal 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 per 10 mm stroke Additional w	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection P40 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 0 Nm Max. torque My 6.4 Nm Max. torque MZ 6.4 Nm Max. radial force on actuator shaft 230 N Max. red force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight 4364 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 4 V Characteristics of logic input 2 4 V Characteristics of logic input 2 4 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, protecol version Device V 1.1 IO-Link®, protecol version Device V 2.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	Storage temperature	-20 °C 60 °C
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Guide value for payload, vertical 46 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g 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 logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Work protocol version Do-Link®, SIO mode support Ves Unclink®, communication mode OCM3 (230.4 kBd) IO-Link®, port class Additional weight per 10 mm stroke Additional weight per 10 mm stroke Comfigurable Not galvanically isolated OCM3 (230.4 kBd) A	Max. radial force on actuator shaft	230 N
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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 Bumber 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 Characteristics of logic input Characteristics of logic input Ves IO-Link®, SIO mode support IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Maintenance interval	Life-time lubrication
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 Ves IO-Link®, SIO mode support Ves IO-Link®, communication mode COM3 (230.4 kBd) A 4364 g 466 g 467 g	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 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 E2 Communication Mm stroke 69 g Communication Mm stroke 60 g Communication	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 Characteristics 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) A	Product weight	4364 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 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 kBd) A	Basic weight with 0 mm stroke	2294 g
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Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 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) A	Number of digital logic outputs 24 V DC	
Work range of logic input Characteristics 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	Number of digital logic inputs	2
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IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	Characteristics of logic input	
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, SIO mode support	Yes
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, protocol version	Device V 1.1
IO-Link®, port class A		COM3 (230.4 kBd)
·	IO-Link®, port class	A
	· · · · · · · · · · · · · · · · · · ·	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