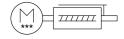
Electric cylinder unit EPCS-BS-32-150-3P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118269





General operating condition

Data sheet

Feature	Value
Size	32
Stroke	150 mm
Stroke reserve	0 mm
Piston rod thread	M8
Reversing backlash	100 μm
Screw diameter	8 mm
Spindle pitch	3 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	0.079 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	3000 mA

Logic mas. Current consumption	Feature	Value
Nominal current Parameterization interface Solic interface Sol	Logic max. current consumption	0.3 A
Parameterization interface Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor resolution Permissible voltage fluctuations P-7-15 % Power supply, connection Power supply, connection of technology M124.1 roded as per EN 61076 2 111 Powers supply, connection partern 00999989 Certification Roth campliance mark Certification Roth Roth Roth Roth Roth Roth Roth Roth	DC nominal voltage	24 V
Both pastion sensor resolution	Nominal current	3 A
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 47-15 % Power supply, type of connection Plug Power supply, per of connection chandlogy M1241, 1-coded as per EN 61076-2-111 Power supply, commetion technology M1241, 1-coded as per EN 61076-2-111 Power supply, commetion pattern 00999899 Certification RCM compliance mark Certification RCM compliance mark CE marking (see declaration of conformity) As per EU RMS directive UKCA marking (see declaration of conformity) To NIK Brain Statutelons Vibration resistance Shock resistance for EWC Shock resistance Shock test with severity level 1 as per FN 942017-3 and EN 60068-2-27 Corrosion resistance class (CRQ) 0 -No corrosion stress Class of Shock resistance class (CRQ) 0 -No corrosion stress Corrosion resistance class (CRQ) 0 -No corrosion stress	Parameterization interface	IO-Link®
Permissible voltage fluctuations		User interface
Power supply, type of connection Chrology Power supply, connection technology M12x1, T-coded as per EN 610762-111 Power supply, connection technology M12x1, T-coded as per EN 610762-111 Powers supply, connection pattern O0999599 Certification RCM compilance mark CC Emarking (see declaration of conformity) RC per EN Modification RCM compilance mark CC Emarking (see declaration of conformity) RC per EU RMC directive DUKCA marking (see declaration of conformity) RO LE Marking (see declaration of conformity) ROU KROHI SINTACLIONS ROB (see declaration of conformity) ROB (see declaration of conf	Rotor position sensor resolution	16 bit
Power supply, connection technology Al 21, T-coded as per EN 61076-2-111 Power supply, connection nattern Oogosyspap Gertification KC characters KC EMC CE marking (see declaration of conformity) As per EU ENG directive As per EU ENG direc	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires Power supply, connection pattern Oppsyspey Oppsysp	Power supply, type of connection	Plug
Fower supply, connection pattern Certification RCM compliance mark CE clarification RCM compliance mark RC Machaecters RC Emarking (see declaration of conformity) As per ELL BMC directive As per ELL BMC directive RCM marking (see declaration of conformity) RCM massissance RCM marking (see declaration of conformity) RCM massissance RCM marking (see declaration of conformity) RCM massissance RCM massissance RCM massissance RCM marking (see declaration of conformity) RCM massissance RCM massi	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification RCM compliance mank	Power supply, number of pins/wires	4
KC characters KC characters CE marking (see declaration of conformity) As per EU RMC directive As per	Power supply, connection pattern	00995989
EE marking (see declaration of conformity) As per EU RC directive To UK Ronts Instructions To UK Instructions for FMC To UK Ronts Instructions To EU RC directions To EU RC directive Tensport an population test with severity level 1 as per FN 942017-4 and EN 60068-2-76 EN 60068-2-6 Shock resistance Shock resistance class (CRC) O - No corrosion stress Corrosion resistance class (CRC) UMA24364 zone III Cleanroom class Class (PWIS) conformity UMA24364 zone III Cleanroom class Class (PWIS) conformity O-90 % Non-condensing Degree of protection PAG Protection class III Annient temperature O °C50 °C Note on ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx O Nm Max. torque Mx As per EU RMC directive Aspect and the severity level 1 as per FN 942017-5 and EN 60068-2-72 To Shock resistance Corrosion resistance Corrosion resistance Corrosion resistance Corrosion resistance Class (CRC) O - No corrosion stress Class (CRC) O - No corrosion stress Class (CRC) O - No corrosion stress Class (CRC) Corrosion resistance Class (CRC) Corrosion resistance Corrosion	Certification	RCM compliance mark
MA Aper EU RoHS directive URCA marking (see declaration of conformity) To UK instructions for EMC TO LIK instructions Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock teststance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance class (CRC) O - No corrosion stress LABS (PWIS) conformity VDM242464 zone III Clean room class Class 9 according to ISO 14644-1 Storage temperature 2-0° C 60° C Relative air humidity 9-90 % Degree of protection IP40 Protection class III Ambient temperature 0° C 50° C Note on ambient temperature 0° C 50° C Note on ambient temperature 0° Nm Max. torque MX 1.5 Nm Max. torque MX 1.7 Sm	KC characters	KC EMC
Turnsport application test with severity level 1 as per FN 942017-4 and RN 60068-2 c. Shock resistance	CE marking (see declaration of conformity)	
Between the common of	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC) LABS (PWIS) conformity Cleanroom class Class 9 according to ISO 14644-1 Cleanroom class Class 9 according to ISO 14644-1 Cleanroom class Relative air humidity O -90 % Non-condensing Degree of protection IP40 Protection class III Ambient temperature O °C 50 °C Note on ambient temperature Note on ambient temperature Note on ambient temperature Note on ambient temperature Nax. torque Mx Max. torque Mx Max. torque My 1.5 Nm Max. torque Mz Max. torque Mz Max. torque Mz Max. torque Mz 1.5 Nm Max. radial force on actuator shaft 75 N Max. ted force Fx 150 N Guide value for payload, horizontal Guide value for payload, horizontal 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 Number of digital logic input Characteristics of logic input Nort per digital logic input Characteristics of logic input Device V 1.1	Vibration resistance	
LABS (PWIS) conformity Cleanroom class Class 9 according to ISO 14644-1 Storage temperature .20 °C60 °C Relative air humidity .0 -90 % Non-condensing Degree of protection Protection class III Ambient temperature .0 °C50 °C Note on ambient temperature .0 °C50 °C Note on ambient temperature .0 °C50 °C Note on ambient temperature .0 °N m Max. torque Mx .0 Nm Max. torque My .1.5 Nm Max. redial force on actuator shaft .7 S N Max. feed force Fx .150 N Guide value for payload, horizontal .2 kg Maintenance interval .1 feet time lubrication Moving mass at 0 mm stroke .3 3 g Product weight .178 g Basic weight with 0 mm stroke .3 18 g Additional moving mass per 10 mm stroke .3 18 g Additional weight per 10 mm stroke .3 2 C Number of digital logic outputs 24 V DC .2 1 Number of digital logic inputs .2 4 V Characteristics of logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input Ol-Link®, S10 mode support Ves Ol-Link®, communication mode Ol-Link®, protocl version Device V 1.1 Ol-Link®, communication mode Ol-Link®, port class A (Communication mode Ol-Link®, port class	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Cleanroom class 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 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 1.5 Nm Max. torque My 1.5 Nm Max. torque Mz 1.5 Nm Max. for eon actuator shaft 75 N Max. feed force Fx 30 N Guide value for payload, horizontal 24 kg 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 with 0 mm stroke Additional weight per 10 mm stroke Additional wei	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 Above an ambient temperature of 30°C, the power must be reduced by 28 per K. Max. torque Mx O.Nm Max. torque Mx O.Nm Max. torque Mx 1.5 Nm Mx. torque Mx 1.5 Nm	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 1.5 Nm Max. torque My 1.5 Nm Max. torque Mz Max. radial force on actuator shaft 75 N Max. force on actuator shaft 12 kg Guide value for payload, horizontal 24 kg Guide value for payload, vertical 11/6 time lubrication Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 83.3 g Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke 24 kg Number of digital logic inputs 24 V Characteristics of logic input Chink®, S10 mode support Protection O-Link®, S10 mode support O-Link®, prote class Adellion mode O-Link®, port class A (COM3 (230.4 kBd) O-Link®, port class	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection 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 0 Nm Max. torque My 1.5 Nm Max. torque Mz 1.5 Nm Max. redial force on actuator shaft 75 N Max. feed force Fx 150 N Guide value for payload, horizontal 24 kg Guide value for payload, vertical 11/2 kg Maintenance interval 1ife-time lubrication Moving mass at 0 mm stroke 98 g Additional moving mass per 10 mm stroke 98 g Additional moving mass per 10 mm stroke 3.3 g Additional weight per 10 mm stroke 24 g Mounter of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Vook range of logic input 24 V Characteristics of logic input Configurable Not galvanically isolated 10-Link®, protocol version Device V1.1 <	Storage temperature	-20 °C 60 °C
Protection class Milent 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 1.5 Nm Max. torque Mz 1.5 Nm Max. radial force on actuator shaft 75 N Max. feed force Fx 150 N Guide value for payload, horizontal 24 kg 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 Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional medical weight per 10 mm stroke Additional	Relative air humidity	
Ambient temperature 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 1.5 Nm Max. torque My 1.5 Nm Max. radial force on actuator shaft 75 N Max. feed force Fx 150 N Guide value for payload, horizontal 24 kg Guide value for payload, vertical Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Di-Link®, SIO mode support Di-Link®, protocol version Device V 1.1 [O-Link®, port class Addition, weight per class Addition, and in the per common and in the common an	Degree of protection	IP40
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 1.5 Nm Max. torque M2 1.5 Nm Max. feed force Fx 150 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 818 g Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Logic input specification Work range of logic input Characteristics of logic input Characteristics of logic input OLINIA, S10 mode support Ves Uchinko, protocol version Device V 1.1 OLinko, communication mode COM3 (230.4 kBd) A H	Protection class	III
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Max. torque My1.5 NmMax. torque Mz1.5 NmMax. radial force on actuator shaft75 NMax. feed force Fx150 NGuide value for payload, horizontal24 kgGuide value for payload, vertical12 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke98 gAdditional moving mass per 10 mm stroke3.3 gProduct weight1178 gBasic weight with 0 mm stroke818 gAdditional weight per 10 mm stroke24 gNumber of digital logic outputs 24 V DC2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic input24 VCharacteristics of logic inputYesIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Note on ambient temperature	
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Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2	Maintenance interval	Life-time lubrication
Product weight Basic weight with 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 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®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	Moving mass at 0 mm stroke	98 g
Basic weight with 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 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Ves IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A B18 g 818 g 81 solution stolution stolution stolution stolution stolution stolutio	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 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	Product weight	1178 g
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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 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		-
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IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A		
IO-Link®, port class A		
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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