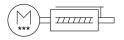
Electric cylinder unit EPCS-BS-32-150-8P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118273





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	8 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	5 m/s ²
Max. speed	0.21 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 max. 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 Pure Permissible voltage fluctuations Pure Rower supply, connection partern Rower supply, connection chemiology Rower supply, connection partern Romer supply, connection partern Rotor supply, connection of conformity) Rotor supply, connection of conformity Rotor supply, connection of conformity Rotor supply, connection of conformity Rotor supply, connection supply, connection of conformity Rotor supply, connection supply, connection of conformity Rotor supply, connection supply,	DC nominal voltage	24 V
Both pasition sensor resolution	Nominal current	3 A
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 4/-15 % Power supply, type of connection Plug Power supply, per for connection technology 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 like fluctions for EMC Vibration resistance Shock resistance for EMC 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 Corresponse of protection (-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 Kenting in the servity level 1 as per FN 942017-4 and EN 60068-2-27 ROU Kenting in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROU Kenting in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROU Kenting in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROU Kenting in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROU Kenting in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROUNG in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROUNG in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROUNG in the servity level 1 as per FN 942017-5 and EN 60068-2-27 ROUNG in the servity level 1 as	Rotor position sensor resolution	16 bit
Power supply, connection technology Al 21, T-coded as per EN 61076-2-111 Power supply, connection nattern O0999599 Gertification KC characters KC EMC CE marking (see declaration of conformity) As per EU ENG directive As per EU ANG directive As per EU ENG directive As per EU ANG directive As per EU ENG directive As per EU ANG directive As per EU ENG directive As per EU ENG directive As per EU ENG directive As per EU ANG directive As per EU ENG directi	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 contribution RCM compliance mark CE marking (see declaration of conformity) RCM and per EU BMC directive As per EU BMC directive RCM and per EU BMC d	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
Et 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) UABS (PWIS) conformity UMMA24364 zone III Cleanroom class Class Guide value in unidity O-90 % Non-condensing Degree of protection PAG Protection class III Annient temperature O **C***.50 **C** None on ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx As torque Mx As per EU RMC directive Aspect as well as per FN 942017-5 and EN 60068-2-72 Annient temperature O **C***.50 **C** None on ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx As torque Mx As per EU RMC directive Aspect as well as per FN 942017-5 and EN 60068-2-72 Annient temperature O **C***.50 **C** None on ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx As torque Mx A	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 60068-2-27 Corrosion resistance class (CRC) On ocorrosion stress LABS (PWIS) conformity VDM242364 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° C 50° C Max. torque MX 1.5 Nm	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)	
Betweet Stance EN 60008-2-6 Shock resistance Shock test with severily level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRQ) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Clean commendates 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 Manual temperature 0 °C 50 °C Note on ambient temperature 0 °C 50 °C Max. torque Mx 0 Nim Max. torque My 1.5 Nm Max. torque My 1.5 Nm Max. torque My 1.5 Nm Max. torque Mz 1.5 Nm	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 My 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 Othinko, Islo mode support Othinko, SiO mode support Othinko, SiO mode support Othinko, protocol version Device V 1.1 Device V 1.1 Device V 1.1 Ochinko, portoclass A Clains A communication mode Ochinko, port class A Clains A communication mode	Vibration resistance	
LABS (PWIS) conformity Cleanroom class Class 9 according to ISO 14644-1 Storage temperature - 20 °C 60 °C Relative air humidity Degree of protection Protection class III Ambient temperature 0 °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 My Max. torque My 1.5 Nm Max. torque My 1.5 Nm Max. torque My Max. torque My 1.5 Nm Max. torque My Max. torque My Max. torque My Max. torque My 1.5 Nm Max. torque My Max. t	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 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 0 Nm Max. torque My 1.5 Nm 1.	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 75 N Max. for force on actuator shaft 9 kg Maxidia value for payload, horizontal Guide value for payload, horizontal Guide value for payload, vertical Product weight Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 8 asie weight with 0 mm stroke Additional weight per 10 mm stroke 8 asie weight with 0 mm stroke Additional weight per 10 mm stroke 10 igic inputs 24 V Characteristics of logic input Chink®, SlO mode support Ves Cullank®, SlO mode support Clink®, prote class A (Communication mode COM3 (230.4 kBd) COM3 (23	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. ted force on actuator shaft 75 N Max. ted force Fx 150 N Guide value for payload, horizontal 24 kg Guide value for payload, vertical 9k g 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 Additional weight per 10 mm stroke 24 g Mumber of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 4 Y Work range of logic input Configurable Not galvanically isolated How in any target 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 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 moving mass at 0 mm stroke Additional moving mass	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 Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Basic weight with 0 mm stroke 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 Di-Link®, port class Addition, ambient temperature of 30°C, the power must be reduced by 22% per K. Above an ambient temperature of 30°C, the power must be reduced by 22% per K. Above an ambient temperature of 30°C, the power must be reduced by 22% per K. Above an ambient temperature of 30°C, the power must be reduced by 22% per K. Basic torque My 1.5 Nm 1.5 Nm 1.5 Nm 1.5 Nm 1.5 Nm 1.9 N	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 Max. feed force Fx 150 N Guide value for payload, horizontal Guide value for payload, vertical Moving mass at 0 mm stroke Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Number of digital logic outputs 24 V DC Logic input specification Work range of logic input Characteristics of logic input Ol-link®, S10 mode support Ol-link®, protocol version Ol-link®, protocol version Ol-link®, port class Addition mode COM3 (230.4 kBd) A HIMPA Ol-link®, port class	Protection class	III
Max. torque Mx0 NmMax. torque My1.5 NmMax. torque Mz1.5 NmMax. torque Mz1.5 NmMax. radial force on actuator shaft75 NMax. feed force Fx150 NGuide value for payload, horizontal24 kgGuide value for payload, vertical9 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke98 gAdditional moving mass per 10 mm stroke3.3 gProduct weight1178 gBasic weight with 0 mm stroke24 gNumber of digital logic outputs 24 V DC2Number of digital logic inputs2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic inputYesIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, port classA	Ambient temperature	0 °C 50 °C
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 Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Basic weight with 0 mm stroke 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 Delink®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A dissiduation served served and served serve	Note on ambient temperature	
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Max. radial force on actuator shaft75 NMax. feed force Fx150 NGuide value for payload, horizontal24 kgGuide value for payload, vertical9 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 DC2Number of digital logic inputs2Logic 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	1.5 Nm
Max. radial force on actuator shaft75 NMax. feed force Fx150 NGuide value for payload, horizontal24 kgGuide value for payload, vertical9 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 DC2Number of digital logic inputs2Logic 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	1.5 Nm
Guide value for payload, horizontal Guide value for payload, vertical Maintenance interval Life-time lubrication Moving mass at 0 mm stroke Moving mass at 0 mm stroke 98 g Additional moving mass per 10 mm stroke 1178 g 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 Characteristics of logic input Work protocol version IO-Link®, SIO mode support Ves IO-Link®, communication mode IO-Link®, communication mode IO-Link®, port class Additional weight per 10 mm stroke Additional weight per 10 mm stroke Rovers and Sage Additional weight per 10 mm stroke Rover		
Guide value for payload, vertical 9 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 98 g Additional moving mass per 10 mm stroke 1178 g 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 24 V Characteristics of logic input Configurable Not galvanically isolated 10-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) Io-Link®, port class	Max. feed force Fx	150 N
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Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 3.3 g Product weight 1178 g 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 Characteristics of logic input Work product weight Yes 10-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Guide value for payload, vertical	9 kg
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
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	Basic weight with 0 mm stroke	818 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 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®, protocol version IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, SIO mode support	,
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