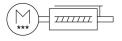
Electric cylinder unit EPCS-BS-32-200-8P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118274





General operating condition

Data sheet

Feature	Value
Size	32
Stroke	200 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 Solic position sensor resolution It bit Power supply, type of connection Plug Power supply, type of connection pattern Connection pattern Conflictation RM compliance mark KC characters KC chara	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 Mizal, I coded as per EN 61076 2 111 Power supply, connection partern Ropers supply, connection partern Rotor supply, connection p	DC nominal voltage	24 V
User interface	Nominal current	3 A
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 4/-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 MIX factor sinstructions 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 Class of Social resistance class (CRQ) 0 -No corrosion stress Corrosion resistance class (CRQ) 0 -No corrosion s	Parameterization interface	IO-Link®
Permissible voltage fluctuations		User interface
Power supply, type of connection Plug 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 KC EMC CF marking (see declaration of conformity) As per EU EMC directive As per EU EMC directive CF marking (see declaration of conformity) To LK instructions for EMC UKCA marking (see declaration of conformity) To LK Roministructions To LK Rom	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 contribution RCM compliance mark CE marking (see declaration of conformity) RCM and per EU BMC directive As per EU BMC directive IKCA 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 massissance RCM massissance RCM massissance RCM marking (see declaration of conformity) RCM massissance RCM marking (see declaration of conformity) RCM massissance RC	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 for FMC To UK Ronts instructions To EU RC directions for FMC To UK Ronts instructions To EU RC directions To EU RC directions for FMC To UK Ronts instructions To EU RC directions EN 60068-7-6 Shock resistance Shock resistance Shock resistance class (CRC) O - No corrosion stress Corrosion resistance class (CRC) UABS (PWIS) conformity UDMA24364 zone III Cleanroom class Class of CC Corrosion resistance Relative air humidity O-90 % Non-condensing Degree of protection PRO Protection class III Annient temperature O PC 50 °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 RC directive with severity level 1 as per FN 942017-5 and EN 60068-2-72 Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx D Nm Max. torque Mx	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°C60°C Relative air humidity 9-90 % Degree of protection IP40 Protection class III Ambient temperature 0°C50°C Note on ambient temperature 0°C50°C Max. torque MX 0 Nm Max. torque MX 1.5 Nm Max. torque MX	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 a kg Maintenance interval .1 Iffe-time lubrication Moving mass at 0 mm stroke .3.3 g Product weight .3.3 g Product weight .3.3 g Product weight in mostroke .3.4 g Additional moving mass per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .3 a lass Additional weight per 10 mm stroke .4 a lass Additional weight per 10 mm stroke .5 a lass Additional weight per 10 mm stroke .5 a lass Additional weight per 10 mm stroke .5 a lass Additional weight per 10 mm stroke .5 a lass Additional weight per 10 mm stroke .5 a lass Additional moving maso per 10 mm stroke .5 a lass Additional moving maso 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 °C60 °C Relative air humidity 0 -90 % Non-condensing Degree of protection IP40 Protection class III Ambient temperature 0 °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 1.5 Nm Max. torque My 1.5 Nm Max. torque My 1.5 Nm Max. torque Mz 1.5 Nm Max. torque Mz 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 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 weight goic inputs 2 Vanumber of digital logic inputs Characteristics of logic input Characteristics of logic input Characteristics of logic input Pves Ol-Link⊗, SlO mode support Pves 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 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 Maxidie 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 Basic weight with 0 mm stroke Additional weight per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Addition	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection Degree of protection Degree of protection IP40 Protection class III Ambient temperature O°C50°C Note on ambient temperature Nax. torque Mx Nax. torque My I.5 Nm Max. torque My I.5 N Max. ted force Fx Iso N Guide value for payload, horizontal Ide to yet gas Max. torque for payload, vertical Iife-time lubrication Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving to to the stroke Additional moving mass per 10 mm stroke Additional movi	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. Bove an ambient temperature of 30°C, the power must be reduced by 24 kg Lis Nm Lis Nm 15 Nm 15 Nm 15 Nm 16 Nm 16 N Red force Fx 16 D N 16 C N Red Force Fx 16 D N 16 C N Red Force Fx 16 D N Red ambient temperature of 30°C, the power must be reduced by 24 kg 17 D Link®, port class A C C N Red Force Fx 18 D N Red Force Fx 18 D N Red Force Fx 18 D N Red Force Fx 19 D N Red Force Fx 10 D 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 Di-Link®, S10 mode support Di-Link®, protocol version Device V 1.1 O-Link®, port class Addition mode COM3 (230.4 kBd) A HIMPA Device V 1.1 Delink®, port class	Protection class	III
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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 Life-time lubrication Based on IEC 61131-2, type 1 Configurable Not galvanically isolated Not galvanically isolated OCM3 (230.4 kBd) IO-link®, port class	Note on ambient temperature	
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Additional moving mass per 10 mm stroke Product weight 1298 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 Characteristics of logic input Ves 10-Link®, SIO mode support Ves 10-Link®, protocol version Device V 1.1 10-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	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	1298 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
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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