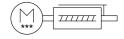
Electric cylinder unit EPCS-BS-45-50-10P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118281





General operating condition

Data sheet

Feature	Value
Size	45
Stroke	50 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash	100 μm
Screw diameter	10 mm
Spindle pitch	10 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	0.23 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
Neminal current Parametrization interface Socior position sensor resolution Action position sensor resolution Action position sensor resolution Action position sensor resolution Action position sensor resolution Power supply, upon of connection Plug Power supply, upon of connection Plug Power supply, unabber of pins/wires A A Power supply, connection pattern Coefficiation CR (A compliance mark KC characters CE marking (see declaration of conformity) As per EU FMC directive As per	Logic max. current consumption	0.3 A
Parameterization interface Rotor position sensor resolution Rotor position sensor resolution Rotor position sensor resolution Permissible voltage fluctuations -/-15 % Power supply, conformance of the plant of plant swites Rower supply, connection technology Milizal, F. coded as per EN 61076 2 111 Power supply, connection partern 00999589 Certification Roth compliance mark Certification Roth Roth Roth Roth Roth Roth Roth Roth	DC nominal voltage	24 V
Bontor position sensor resolution	Nominal current	3 A
Rotor position sensor resolution 16 bit Permissible voltage fluctuations +7-15 % Power supply, type of connection Pug Power supply, per of connection technology M124.1, 1-caded as per EN 61076-2-111 Power supply, commetion retendops/ 4 Power supply, commetion pattern 00999589 Certification RCM compliance mark Certification RCM compliance mark CE marking (see declaration of conformity) As per EU EMC directive VBCA marking (see declaration of conformity) To MIX Rotfs interactions for EMC Vibration resistance To MIX Rotfs interactions for EMC Vibration resistance Shock test with swertly level 1 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance class (CRQ) 0 - No corrosion stress Corrosion resistance class (CRQ) 0 - No corrosion stress Corrosion resistance class (CRQ) 0 - No corrosion stress Corrosion resistance class (CRQ) 0 - No corrosion stress Corrosion resistance class (CRQ) 0 - No corrosion stress Corrosion resistance class (CRQ) 0 - No corrosion stress Corrosion protection (Cases) 0 - No corrosion stress <tr< td=""><td>Parameterization interface</td><td>IO-Link®</td></tr<>	Parameterization interface	IO-Link®
Permissible voltage fluctuations		User interface
Power supply, type of connection Chrology Power supply, connection technology M12x1, "F.coded as per EN 61076-2-111 Power supply, connection technology M12x1, "F.coded as per EN 61076-2-111 Powers supply, connection pattern O0999599 Certification RCM compliance mark KC EMC CF marking (see declaration of conformity) RA per EU EMC directive As per EU EMC directive As per EU EMC directive UKCA marking (see declaration of conformity) To LK instructions for EMC UKCA marking (see declaration of conformity) To LK marking (see dec	Rotor position sensor resolution	16 bit
Power supply, connection technology Autority (Power supple, number of pins/wires) Autority (Power supple, number of p	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires Power supply, connection pattern Coefficiation RCC certification RC	Power supply, type of connection	Plug
Fower supply, connection pattern Certification RCM compliance mark CC certification RCM compliance mark CC marking (see declaration of conformity) RCM and per EU BMC directive As per EU BMC directive As per EU BMC directive CC marking (see declaration of conformity) RCM massistance RCM marking (see declaration of conformity) RCM massistance RCM marking (see declaration of conformity) RCM massistance RCM massistance RCM massistance RCM massistance RCM massistance RCM massistance RCM marking (see declaration of conformity) RCM massistance	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification RCM compliance mark	Power supply, number of pins/wires	4
KC characters KC characters KC Emarking (see declaration of conformity) As per EU RMC directive Insurations for EMC TO UK RMIS instructions for EMC TO UK RMIS constructions To UK RMIS constructions To UK RMIS constructions for EMC TO UK RMIS constructions for EMC To UK RMIS construction for EMC To Not corrosion stress TO Not corrosion stress TO NO Embodies at the Mission of CRS To Carposion resistance class (CRC) O - No corrosion stress To URA2364 zone III Clearorom class To Cl	Power supply, connection pattern	00995989
EE marking (see declaration of conformity) As per EU RMC directive As per EU RMS directive UKCA marking (see declaration of conformity) To UK instructions for FMC To UK Rost instructions To UK Rost instructions To UK Rost instructions Transport a pipulication test with severity level 1 as per FN 942017-4 and EN 60068-2-76 Shock resistance Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) 0 - No corrosion stress CLABS (PWIS) conformity VDMA24364 zone III Cleanroom class Cleanroom class Class 9 according to ISO 16464-1 Storage temperature 2-00 °C 60 °C Relative air humidity 0 - 90 % Non-condensing Degree of protection PA0 Protection class III Annient temperature 0 °C 50 °C Note on ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Max. torque Mx 0 N M Max. torque Mx 4.9 N M Max. torque Mx 2.9 N M Max. roque Mx 3.9 N M Max. roque Mx 4.9 N M Max. roque Mx 4.9 N M Max. reduction calculator shaft 180 N Max. reduction or actuator shaft 180 N Max. reduction or actuator shaft Max. reduction or payload, horizontal 4.0 kg Guide value for payload, horizontal Moving mass at 0 mm stroke 119 g Additional moving mass per 10 mm stroke 119 g Additional moving mass per 10 mm stroke Number of digital logic nutrus to 4 N C Number of digital logic nutrus to 4 N C Number of digital logic inputs 2 a V Characteristics of logic input Chink®, protocol version Device V 1.1 Ol-link®, corroct class A He Colonal of the class of the colonal of the class of the clas	Certification	RCM compliance mark
Max. torque Mx M	KC characters	KC EMC
To UK RoHS instructions	CE marking (see declaration of conformity)	
EM 60068-2-6 Shock resistance EM 60068-2-7 Corrosion resistance class (CRQ) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Clean room 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 0 °C 50 °C Max. torque Mx 0 Nim Max. torque My 2.9 Nm Max. torque My 180 N Max. torque My 2.9 Nm Max. torque My 180 N Max. torque My 180 N Max. torque My 2.9 Nm Max. torque My 2.9 Nm Max. torque My 180 N Max. torque My 2.9 Nm Max. torque My 180 N Max. torque My	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMAZ4364 zone III 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 23°s per K. Max. torque Mx 0 Nm Max. torque Mx 0 Nm Max. torque Mz 2.9 Nm Max. torque Mz 2.9 Nm Max. radial force on actuator shaft 180 N Max. ted force FX 250 N Guide value for payload, horizontal 40 kg Guide value for payload, vertical 13 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Additional weight per 10 mm stroke 41 g Number of digital logic input 2 Logic input	Vibration resistance	
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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 2.9 Nm Max. torque My 2.9 Nm Max. torque My 3.9 Nm Max. torque Mz 40 Ng Max. fore on actuator shaft 180 N Max. fore on actuator shaft 180 N Max. for pubad, horizontal Guide value for payload, vertical Maintenance interval Uife-time lubrication 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 gold inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link & Port Class A H Ol-Link & Port Class A H Ol-Link & Port Class A H Ol-Link & Port Class A H	Corrosion resistance class (CRC)	0 - No corrosion stress
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 0 Nm Max. torque Mx 2.9 Nm Max. torque Mx 30 N Max. torque Mx 40 kg Guide value for payload, horizontal 40 kg Guide value for payload, vertical 13 kg Mointenance interval Life-time lubrication Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1390 g Basic weight with 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Logic inputs 2 V V C Characteristics of logic input 2 V V C Characteristics of logic input Configurable Not galvanically isolated IO-Link®, SiO mode support Nese V C V C Iolicin®, portocol version Device V 1.1 IO-Link®, portocol version Device V 1.1 IO-Link®, communication mode A C IOM3 (230.4 kBd) IO-Link®, port class A C	LABS (PWIS) conformity	VDMA24364 zone III
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Degree of protection Degree of protection Degree of protection IP40 Protection class III Ambient temperature O°C50°C Note on ambient temperature Note on ambient temperature Nax. torque Mx OMMax. torque My Amax. torque M	Storage temperature	-20 °C 60 °C
Protection class Mill 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 2.9 Nm Max. torque Mz 2.9 Nm Max. radial force on actuator shaft 180 N Max. feed force Fx 250 N Guide value for payload, horizontal 40 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 per 10 mm stroke Additi	Relative air humidity	
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IO-Link®, port class A		COM3 (230.4 kBd)
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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