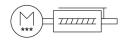
## Electric cylinder unit EPCS-BS-60-500-5P-A-ST-M-H1-PLK-AA

Part number: 8118295





**FESTO** 

General operating condition

## Data sheet

Feature	Value
Size	60
Stroke	500 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 <sup>2</sup>
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

Value
0.3 A
24 V
5.3 A
IO-Link®
User interface
16 bit
+/- 15 %
Plug
M12x1, T-coded as per EN 61076-2-111
4
00995989
RCM compliance mark
KC EMC
As per EU EMC directive As per EU RoHS directive
To UK instructions for EMC To UK RoHS instructions
Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
0 - No corrosion stress
VDMA24364 zone III
Class 9 according to ISO 14644-1
-20 °C 60 °C
0 - 90 % Non-condensing
IP40
111
0 °C 50 °C
Above an ambient temperature of 30°C, the power must be reduced by 2% per K.
0 Nm
6.4 Nm
6.4 Nm
230 N
900 N
120 kg
46 kg
Life-time lubrication
305 g
6.5 g
5744 g
2294 g
69 g
2
2
Based on IEC 61131-2, type 1
24 V
Configurable Not galvanically isolated
Yes
Device V 1.1
COM3 (230.4 kBd)
COM3 (230.4 kBd) A

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