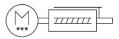
## Electric cylinder unit EPCS-BS-45-100-3P-A-ST-M-H1-PLK-AA

Part number: 8118276





## **Data sheet**

Feature	Value
Size	45
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash	100 μm
Screw diameter	10 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
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	0.074 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
DC nominal voltage	24 V
Nominal current	3 A

UsRotor position sensor resolution16Permissible voltage fluctuations+/-Power supply, type of connectionPluPower supply, connection technologyM1Power supply, number of pins/wires4Power supply, connection pattern00CertificationRCKC charactersKC	D-Link® ser interface 6 bit /- 15 % lug 112x1, T-coded as per EN 61076-2-111
Rotor position sensor resolution16Permissible voltage fluctuations+/-Power supply, type of connectionPluPower supply, connection technologyM1Power supply, number of pins/wires4Power supply, connection pattern00CertificationRCKC charactersKC	6 bit /- 15 % lug 112x1, T-coded as per EN 61076-2-111
Permissible voltage fluctuations+/-Power supply, type of connectionPluPower supply, connection technologyM1Power supply, number of pins/wires4Power supply, connection pattern00CertificationRCKC charactersKC	/- 15 % lug 112x1, T-coded as per EN 61076-2-111
Power supply, type of connectionPluPower supply, connection technologyM1Power supply, number of pins/wires4Power supply, connection pattern00CertificationRCKC charactersKC	lug 112x1, T-coded as per EN 61076-2-111
Power supply, connection technologyM1Power supply, number of pins/wires4Power supply, connection pattern00CertificationRCKC charactersKC	112x1, T-coded as per EN 61076-2-111
Power supply, number of pins/wires4Power supply, connection pattern00CertificationRCKC charactersKC	
Power supply, connection pattern 00   Certification RC   KC characters KC	
Certification RC KC characters KC	
KC characters KC	0995989
	CM compliance mark
	C EMC
	s per EU EMC directive s per EU RoHS directive
5.	D UK instructions for EMC D UK RoHS instructions
	ransport application test with severity level 1 as per FN 942017-4 and N 60068-2-6
Shock resistance Sh	hock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC) 0 -	- No corrosion stress
LABS (PWIS) conformity VD	DMA24364 zone III
Storage temperature -20	20 °C 60 °C
,	- 90 % on-condensing
Degree of protection IP4	240
	℃50 ℃
	bove an ambient temperature of 30°C, the power must be reduced by % per K.
Max. torque Mx 0 N	Nm
Max. torque My 2.9	.9 Nm
Max. torque Mz 2.9	.9 Nm
Max. radial force on actuator shaft 18	80 N
Max. feed force Fx 45	50 N
Guide value for payload, horizontal 60	0 kg
Guide value for payload, vertical 23	3 kg
Moving mass at 0 mm stroke 17	79 g
	.9 g
Product weight 15	595 g
Basic weight with 0 mm stroke 11.	185 g
Additional weight per 10 mm stroke 41	1 g
Number of digital logic outputs 24 V DC 2	
Number of digital logic inputs 2	
	ased on IEC 61131-2, type 1
	4 V
Characteristics of logic input Co	onfigurable ot galvanically isolated
IO-Link®, SIO mode support Yes	
	evice V 1.1
	OM3 (230.4 kBd)
IO-Link®, port class A	
IO-Link®, number of ports	
	Byte
IO-Link®, process data content OUT 1 b 1 b	bit (move in) bit (move out) bit (quit error)
IO-Link®, process data width IN 2 E	Byte

Feature	Value
IO-Link®, process data content IN	1 bit (state device) 1 bit (state move) 1 bit (state in) 1 bit (state out)
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