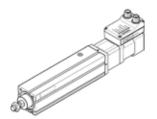
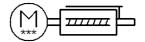
## electric cylinder unit EPCS-BS-60-200-12P-A-ST-M-H1-PLK-AA Part number: 8118299







## **Data sheet**

Feature	Value
Size	60
Stroke	200 mm
Stroke reserve	0 mm
Piston rod thread	M12x1,25
Reversing backlash	100 μm
Spindle diameter	12 mm
Spindle pitch	12 mm/U
Max. angular deflection of piston rod +/-	1 deg
Assembly position	Any
Piston-rod end	Male thread
Motor type	Stepper motor
Design structure	Electric cylinder
Design structure	With ball screw
	with integrated drive
Chindle type	Ball screw
Spindle type  Protection against targue / guide	with plain-bearing guide
Protection against torque/guide	Fixed stop block positive
Referencing	
	Fixed stop block negative
D	Reference switch
Rotor position sensor	Absolute single turn encoder
Rotary position encoder measuring principle	Magnetic
Temperature monitoring	Shutdown at over-temperature
	Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface
	Integrated end-position sensing
Display	LED
Ready status display	LED
Max. acceleration	5 m/s2
Max. speed	0.22 m/s
Speed "Speed press"	0.01 m/s
Repetition accuracy	±0,02 mm
Digital logic output characteristics	configurable
	Not electrically isolated
Duty cycle	100 %
Insulation protection class	В
Max. current, digital logic outputs	100 mA
Max. current consumption	5.3 A
Max. current consumption, logic	0.3 A
Nominal voltage DC	24 V
Nominal current	5.3 A
Parameters configuring interface	IO-Link
	User interface
Rotor position encoder resolution	16 Bit
Permissible voltage fluctuation	+/- 15 %
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111



Feature	Value
Power supply, number of pins/wires	4
Authorization	RCM Mark
KC mark	KC-EMV
CE symbol (see declaration of conformity)	according to EU-EMV guideline
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
, , , , , , , , , , , , , , , , , , , ,	To UK RoHS instructions
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and
	EN 60068-2-6
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN
	60068-2-27
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364 zone III
Cleanroom class	ISO class 9
Storage temperature	-20 60 °C
Relative air humidity	0 - 90 %
	non-condensing
Protection class	IP40
Safety class	 
Ambient temperature	0 50 °C
Note on ambient temperature	Above an ambient temperature of 30 °C, the power must be reduced
Mary Assessed Mary	by 2% per K.
Max. torque Mx	O Nm
Max. torque My Max. torque Mz	6.4 Nm
Max. radial force at drive shaft	6.4 Nm 230 N
Max. feed force Fx	375 N
Reference value for working load, horizontal	56 kg
Reference value for working load, nonzontal	18 kg
Maintenance interval	Life-time lubrication
Moving mass with 0 mm stroke	305 g
Additional mass factor per 10 mm of stroke	6.5 g
Product weight	3,674 g
Basic weight for 0 mm stroke	2,294 g
Additional weight per 10 mm stroke	69 g
Number of 24 V DC digital logic outputs	2
Number of digital logic inputs	2
Specification, logic input	Based on IEC 61131-2, type 1
Logic input working range	24 V
Logic input characteristics	configurable
	Not electrically isolated
IO-Link, SIO mode support	Yes
IO-Link, protocol	Device V 1.1
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, port type	A
IO-Link, number of ports	1
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
IO Liela con constant a little IV	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 Move 1 bit State Device 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
10 Link, minimum cycle time	1 1113



Feature	Value
IO-Link, data memory required	0.5 Kilobyte
Max. line length	15 m outputs
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	NPN (negative switching)
	PNP (positive-switching)
Input circuit logic	NPN (negative switching)
	PNP (positive-switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
Mounting type	with internal (female) thread
	with accessories
Materials note	Conforms to RoHS
Material housing	Smooth-anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material spindle nut	Steel
Material spindle	Roller bearing steel