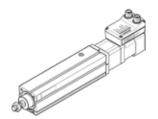
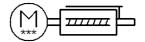
electric cylinder unit EPCS-BS-45-100-3P-A-ST-M-H1-PLK-AA Part number: 8118276







Data sheet

Feature	Value
Size	45
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M10x1,25
Reversing backlash	100 μm
Spindle diameter	10 mm
Spindle pitch	3 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
Spindle type	Ball screw
Protection against torque/guide	with plain-bearing guide
Referencing	Fixed stop block positive
Referencing	Fixed stop block negative
	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
Additional functions	Integrated end-position sensing
Display	LED LED
Ready status display	LED
Max. acceleration	1.5 m/s2
Max. speed	0.074 m/s
Speed "Speed press"	0.01 m/s
Repetition accuracy	±0,02 mm
Digital logic output characteristics	configurable
Distractosic output characteristics	Not electrically isolated
Duty cycle	100 %
Insulation protection class	В
Max. current, digital logic outputs	100 mA
Max. current consumption	3 A
Max. current consumption, logic	0.3 A
Nominal voltage DC	24 V
Nominal current	3 A
Parameters configuring interface	IO-Link
Tarameters comisumis interface	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
rower supply, connection technology	WI 12X1, 1-coded as per EN 610/6-2-111



Power supply, number of pine/wires Authorization RC mark CC symbol (see declaration of conformity) RC mark RC	Feature	Value
Authorization KC mark KC mark KC Est Whole (See declaration of conformity) Baccording to EU-EMV guideline in accordance with EU RoRS directive TO UK instructions for EMC TO UK mistractions for EMC EX 60068 2-7 Shock resistance Shock resistance Shock seasification CRC O - No corresion extess Correction resistance classification CRC O - No corresion stress PMS conformity VMA2246 2 one III Creamon class Shock seasification CRC O - No corresion stress PMS conformity VMA2246 2 one III Creamon class Shock seasification CRC O - No corresion stress PMS conformity VMA2246 2 one III Creamon class Shock seasification CRC O - No corresion stress PMS conformity VMA2246 2 one III Creamon class Shock seasification CRC O - No corresion stress PMS conformity VMA2246 2 one III Creamon class III Creamon class III Antibent temperature O - 90 % non-condensing Protection class III Antibent temperature of 30 °C, the power must be reduced by 2% per K. Most lorque Miy Antibent temperature of 30 °C, the power must be reduced by 2% per K. Most lorque Miy Antibent temperature of 30 °C, the power must be reduced by 2% per K. Most lorque Miy Most lo	Power supply, number of pins/wires	4
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To UK Rolfs instructions Transport application test with severity level 1 as per FN 942017 4 and EN 60068-2-8. Shock resistance Shock resistance Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-8. Corrosion resistance classification CRC O No corrosion stress VPMS conformity VPMS/2016-2 one III Cleanroom class Storage temperature 1-20 60 °C Relative air humidity 0 90 % non-condensing Protection class III Ambient temperature 0 90 °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 Mx Max. torque My Max.		in accordance with EU RoHS directive
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EN 60068-7-6		To UK RoHS instructions
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 VDMA2364 2 one III Clearnoom class Storage temperature 2-0060°C Relative air humidity 0 - 90 % non-condensing Protection class III Ambient temperature 0	Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and
GOOBS 2-27		EN 60068-2-6
Corrosion resistance classification CRC	Shock resistance	•
PWIS conformity		60068-2-27
Size dass 9 Sizerge temperature 2060 °C Relative air humidity 0.90 % Relative air humidity 0.90 % Safety class III Ambient temperature 050 °C Note on ambient temperature 050 °C Note on ambient temperature Above an ambient temperature 050 °C Nax. torque Mx 0.80 °C Max. torque Mx 0.80 °C Max. torque Mx 0.80 °C Max. torque Mx 0.90 °C Mx 0.90 °C 0.90 °C M		
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32 bit Speed		
		32 bit Speed
	IO-Link, minimum cycle time	



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