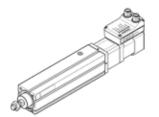
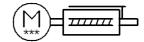
electric cylinder unit EPCS-BS-45-300-10P-A-ST-M-H1-PLK-AA Part number: 8118286







Data sheet

45
300 mm
) mm
M10x1,25
100 μm
10 mm
10 mm/U
l deg
Any
Male thread
Stepper motor
Electric cylinder
Nith ball screw
Nith integrated drive
Ball screw
with plain-bearing guide
Fixed stop block positive
Fixed stop block negative
Reference switch
Absolute single turn encoder
Magnetic
Shutdown at over-temperature
ntegrated precise CMOS temperature sensor with analogue output
Jser interface
ntegrated end-position sensing
.ED
_ED
5 m/s2
0.23 m/s
0.01 m/s
£0,02 mm
configurable
Not electrically isolated
100 %
3
100 mA
3 A
D.3 A
24 V
3 A
O-Link
Jser interface
16 Bit
+/- 15 %
Plug
M12x1, T-coded to EN 61076-2-111



Feature	Value
Power supply, number of pins/wires	4
Authorisation	RCM Mark
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC
	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	III
Ambient temperature	0 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 My	2.9 Nm
Max. torque Mz	2.9 Nm
Max. radial force at drive shaft	180 N
Max. feed force Fx	250 N
Reference value for working load, horizontal	40 kg
Reference value for working load, vertical	13 kg
Maintenance interval	Life-time lubrication
Moving mass with 0 mm stroke	179 g
Additional mass factor per 10 mm of stroke	4.9 g
Product weight	2,415 g
Basic weight for 0 mm stroke	1,185 g
Additional weight per 10 mm stroke	41 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
	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



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