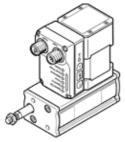
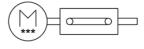
electric cylinder unit EPCE-TB-45-20-FL-ST-M-H1-PLK-AA Part number: 8101540

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	10.18 mm
Size	45
Stroke	20 mm
Stroke reserve	0 mm
Piston rod thread	M6
Toothed-belt stretch	0.31 %
Toothed-belt pitch	2 mm
Assembly position	Any
Piston-rod end	Male thread
Motor type	Stepper motor
Position detection	Motor encoder
Design structure	Electric cylinder
	With toothed belt
	With integrated drive
Protection against torque/guide	with plain-bearing guide
Referencing	Fixed stop block positive
	Fixed stop block negative
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	9 m/s2
Max. speed	0.44 m/s
Speed "Speed press"	0.02 m/s
Repetition accuracy	±0,05 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	3 A
Max. current consumption, logic	300 mA
Nominal voltage DC	24 V
Nominal current	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 to EN 61076-2-111
Power supply, number of pins/wires	4
Authorisation	RCM Mark



FESTO

Value
KC-EMV
to EU directive for EMC
in accordance with 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 in accordance with FN 942017-5 and EN
60068-2-27
0 - No corrosion stress
VDMA24364 zone III
-20 60 °C
0 - 90 %
IP40
0 50 °C
Above an ambient temperature of 30 °C, the power must be reduced
by 2% per K.
0.003 J
0 Nm
0.4 Nm
0.4 Nm
85 N
5 kg
2.5 kg
32 mm/U
200 km
Life-time lubrication
92 g
83 g
4.55 g
834 g
775 g
29 g
2
2
Based on IEC 61131-2, type 1
24 V
configurable
Not electrically isolated
Yes
Device V 1.1
COM3 (230.4 kbd)
A
1
2 Byte
Move in 1 bit
Move out 1 bit
Quit Error 1 bit
Move Intermediate 1 bit
2 Byte
State In 1 bit
State Out 1 bit
State Move 1 bit
State Device 1 bit
State Intermediate 1 bit
Speed 32 bit
Position 32 bit
Position 32 bit Force 32 bit

FESTO

Feature	Value
Max. line length	15 m outputs
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	PNP (positive-switching)
Input circuit logic	PNP (positive-switching)
IO-Link, connection technology	Plug
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 cover	Anodised wrought aluminium alloy
Material housing	Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material toothed belt	Polychloroprene with glass fibres