

# Electric cylinder unit EPCE-TB-60-30-FL-ST-M-H1-PLK-AA

Part number: 8102164

FESTO



## Data sheet

Feature	Value
Drive pinion effective diameter	10.18 mm
Size	60
Stroke	30 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Toothed belt elongation	0.375 %
Toothed belt pitch	2 mm
Mounting position	Any
Position sensing	Motor encoder
Structural design	Electric actuator with toothed belt With integrated drive
Protection against torsion/guide	With plain-bearing guide
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Temperature monitoring	Shutdown in the event of over temperature Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	9 m/s <sup>2</sup>
Max. speed	0.6 m/s
Repetition accuracy	±0.05 mm
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	B
Max. current of digital logic outputs	100 mA
Max. current consumption	5,3 A
Logic max. current consumption	300 mA
DC nominal voltage	24 V
Nominal current	5.3 A

Feature	Value
Parameterization interface	IO-Link® User interface
Permissible voltage fluctuations	+/- 15 %
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Power supply, number of pins/wires	4
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
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 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C...60 °C
Relative air humidity	0 - 90 %
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Note on ambient temperature	Above an ambient temperature of 30°C, the power must be reduced by 2% per K.
Impact energy in the end positions	0.016 J
Max. torque Mx	0 Nm
Max. torque My	1 Nm
Max. torque Mz	1 Nm
Max. feed force Fx	150 N
Guide value for payload, horizontal	10 kg
Guide value for payload, vertical	5 kg
Feed constant	32 mm/U
Reference service life	300 km
Moving mass	218 g
Moving mass at 0 mm stroke	188 g
Additional moving mass per 10 mm stroke	9.75 g
Product weight	1488 g
Basic weight with 0 mm stroke	1350 g
Additional weight per 10 mm stroke	46 g
Number of digital logic outputs 24 V DC	2
Number of digital logic inputs	2
Work range of logic input	24 V
Characteristics of logic input	Configurable Not galvanically isolated
IO-Link®, protocol version	Device V 1.1
IO-Link®, communication mode	COM3 (230.4 kBd)
IO-Link®, port class	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 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	Speed 32 bit Position 32 bit Force 32 bit

<b>Feature</b>	<b>Value</b>
IO-Link®, data memory required	0,5 kB
Input switching logic	PNP (positive switching)
IO-Link®, Connection technology	Plug
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
Type of mounting	With internal thread With accessories
Note on materials	RoHS-compliant
Toothed belt material	Polychloroprene with glass fiber