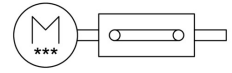
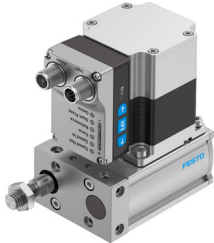


Electric cylinder unit EPCE-TB-60-10-FL-MF-ST-M-H1-PLK-AA

Part number: 8102166

FESTO



Data sheet

| Feature | Value |
|---|--|
| Drive pinion effective diameter | 10.18 mm |
| Size | 60 |
| Stroke | 10 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M10x1.25 |
| Toothed belt elongation | 0.375 % |
| Toothed belt pitch | 2 mm |
| Mounting position | Any |
| Piston rod end | External thread |
| Motor type | Stepper motor |
| Position sensing | Motor encoder |
| Structural design | Electric actuator with toothed belt With integrated drive |
| Symbol | 00997342 |
| Protection against torsion/guide | With plain-bearing guide |
| Homing | Fixed stop block positive Fixed stop block, negative |
| 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 |
| Ready status indication | LED |
| Max. acceleration | 9 m/s ² |
| Max. speed | 0.6 m/s |
| Speed "Speed Press" | 0.02 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 | 5300 mA |
| Logic max. current consumption | 0.3 A |

| Feature | Value |
|--|--|
| DC nominal voltage | 24 V |
| Nominal current | 5.3 A |
| Parameterization interface | IO-Link® User interface |
| Rotor position sensor resolution | 16 bit |
| 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 |
| Power supply, connection pattern | 00995989 |
| Certification | RCM compliance mark |
| KC characters | KC EMC |
| CE marking (see declaration of conformity) | As per EU EMC directive As per 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 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 |
| Protection class | III |
| 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 value, running performance | 100 km |
| Maintenance interval | Life-time lubrication |
| Moving mass | 207 g |
| Moving mass at 0 mm stroke | 197 g |
| Additional moving mass per 10 mm stroke | 9.75 g |
| Product weight | 1453 g |
| Basic weight with 0 mm stroke | 1407 g |
| Additional weight per 10 mm stroke | 46 g |
| Number of digital logic outputs 24 V DC | 2 |
| Number of digital logic inputs | 2 |
| Logic input specification | Based on IEC 61131-2, type 1 |
| Work range of logic input | 24 V |
| Characteristics of logic input | Configurable Not galvanically isolated |
| IO-Link®, SIO mode support | Yes |
| IO-Link®, protocol version | Device V 1.1 |
| IO-Link®, communication mode | COM3 (230.4 kBd) |
| IO-Link®, port class | A |

| Feature | Value |
|--|---|
| 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 | Speed 32 bit Position 32 bit Force 32 bit |
| IO-Link®, minimum cycle time | 1 ms |
| IO-Link®, data memory required | 500 byte |
| Max. cable length | 15 m outputs 15 m inputs 20 m for IO-Link® operation |
| Switching logic at outputs | PNP (positive switching) |
| 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 |
| Logic interface, connection pattern | 00992264 |
| Type of mounting | With through-hole With internal thread With centering sleeve With accessories |
| Note on materials | RoHS-compliant |
| Cover material | Wrought aluminum alloy, anodized |
| Housing material | Wrought aluminum alloy, anodized |
| Piston rod material | High-alloy stainless steel |
| Toothed belt material | Polychloroprene with glass fiber |