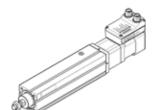
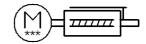
electric cylinder unit EPCS-BS-45-50-10P-A-ST-M-H1-PLK-AA Part number: 8118281







Data sheet

| Feature | Value |
|---|---|
| Size | 45 |
| Stroke | 50 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M10x1,25 |
| Reversing backlash | 100 μm |
| Spindle diameter | 10 mm |
| Spindle pitch | 10 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 |
| | With ball screw |
| | with integrated drive |
| Spindle type | Ball screw |
| Protection against torque/guide | with plain-bearing guide |
| Referencing | Fixed stop block positive |
| | 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 |
| | Integrated end-position sensing |
| Display | LED |
| Ready status display | LED |
| Max. acceleration | 5 m/s2 |
| Max. speed | 0.23 m/s |
| Speed "Speed press" | 0.01 m/s |
| Repetition accuracy | ±0,02 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 | 0.3 A |
| 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 as per EN 61076-2-111 |



| Power supply, number of prins/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 2-6 Shock resistance Shock resistance Shock resistance dassification CRC O- No corresion exists shock Correction resistance dassification CRC O- No correction exists Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass Shock resistance dassification CRC O- No correction of EMC Correction dass III GAC Antibent temperature O- 9-9% O- 0- 9-9% O- 0- 9-9% O- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- | Power supply, number of pins/wires | 4 |
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| In accordance with EUR Rolfs directive UECA marking (see declaration of conformity) To UK instructions for EUK TO UK instructions for EUK TO UK Rolfs instructions The Mo0692-26 Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance dissoftication CRC O- No corrosion steess Corrosion resistance classification CRC O- No corrosion steess PWIS conformity VDMA24362 zone III Cleanmont class Storage inemperature 2-0 60 °C Relative air humidity O- 90 °S Relative air humidity O- 90 °S Relative air humidity Rolf Corrosion steess PWIS Conformity Relative air humidity O- 90 °S Relative air humidity Rolf Corrosion steess PWIS Conformity Relative air humidity O- 90 °S Relative air humidity Rolf Corrosion steess Relative air humidity Rolf Corrosion stees Rolf Rolf Rolf Rolf Rolf Rolf Rolf Rolf | KC mark | |
| To UK instructions for FMC | CE symbol (see declaration of conformity) | according to EU-EMV guideline |
| 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 |
| Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-72 Shock resistance Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-72 Corrosion resistance classification CRC O - No corrosion stress | UKCA marking (see declaration of conformity) | To UK instructions for EMC |
| En 6008-2-6 Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance classification CRC O. No corrosion stress | | 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 |
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| Storage temperature 2060 °C | • | |
| Relative air humidity 0.90 % non-condensing Protection class III Anbient temperature 050 °C Note on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 2% per condensing Max. torque Mx 050 °C Max. torque Mx 2.20 Nm Max. torque My 2.20 Nm Max. torque My 2.20 Nm Max. torque My 3.20 Nm Max. redaf la force at drive shaft 180 N Max. reder force 7x 250 N Reference value for working load, horizontal 40 kg Reference value for working load, horizontal 40 kg Reference value for working load, vertical Moving mass with 0 mm stroke 179 g Additional mass factor per 10 mm of stroke 4.9 g Product weight 1.390 g Basic weight for 0 mm stroke 4.18 S Number of 24 Of digital logic outputs 2 Number of 24 Of digital logic inputs 2 S Declination, logic input Logic input working range 2.24 V Logic input working range 2.24 V Logic input working range 3.24 V Logic input working range 3.25 V Device V 1.1 Ol-Link, process data content OUT Move in 1bit Move out 1 bit Quit Error 1 bit Move out 1 bit Quit Error 1 bit Move out 1 bit State Move 1 bit State Out 1 bit State Intermediate 1 bit 3.2 bit Position | | |
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| IO-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| 32 bit Position 32 bit Speed | IO-Link, Service data contents IN | |
| 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 |