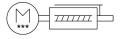
Electric cylinder unit EPCS-BS-45-300-3P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118280





General operating condition

Data sheet

Feature	Value
Size	45
Stroke	300 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash theoretical	100 μm
Spindle diameter	10 mm
Spindle pitch	3 mm/U
Torsional backlash at piston rod +/-	1 deg
Mounting position	optional
Piston-rod end	Male thread
Type of motor	Stepper motor
Design	Electric cylinder With ball screw drive With integrated drive
Spindle type	Ball screw drive
Symbol	00997294
Protection against torque/guide	With plain-bearing guide
Referencing	Positive fixed stop block Negative fixed stop block Reference switch
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Temperature monitoring	Switch-off for excessive 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	1.5 m/s ²
Max. speed	0.074 m/s
Speed "Speed press"	0.01 m/s
Repetition accuracy	±0.02 mm
Features of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current digital logic outputs	100 mA
Max. current consumption	3000 mA

Relative air humidity Degree of protection Protection class III Ambient temperature O ° C 50 ° C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30° C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. moment Mz Max. moment Mz Max. moment Mz 180 N Max. redial force at drive shaft 180 N Max. redial force at drive shaft 180 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical Life-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 141 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support O-Link, Port class A H	Feature	Value
Nominal current Parameterisation interface Rotor position transducer resolution 16 bit Permissible voltage fluctuations -/-15% Power supply, connection type Plugs Power supply, connection type Power supply, connection pattern Power supply patt	Max. current consumption, logic	0.3 A
Nominal current Parameterisation interface Rotor position transducer resolution 16 bit Permissible voltage fluctuations -/-15% Power supply, connection type Plugs Power supply, connection type Power supply, connection pattern Power supply patt	Nominal voltage DC	24 V
Rotor position transducer resolution Fermissible voltage fluctuations J-15% Power supply, connection type Powers supply, connection type Powers supply, connection partern Approval Power supply, connection partern O0995989 Approval RCM trademark KC Eark		3 A
Rotor position transducer resolution Permissible voltage fluctuations -y-15% Power supply, connection system M12x1, T-caded according to EN 610/6-2-111 Power supply, connection system M2x1, T-caded according to EN 610/6-2-111 Power supply, connection pattern O0995989 Approval RCM trademark KC-EMV CE mark (see declaration of conformity) Io EU EMC Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive In Succordance with EU ROHS Directive In Suc	Parameterisation interface	IO-Link
Permissible voltage fluctuations // 15% Power supply, connection type Power supply, connection type Power supply, connection pattern Power supply, number of pins/wires 4 Power supply, number of pins/wires 4 Power supply, number of pins/wires 4 Power supply, number of pins/wires 4 RCM trademark KC mark KC EMW CE mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive In accorda		User interface
Power supply, connection type power supply, connection system power supply, marked of pinsy wires 4 Power supply, marked of pinsy wires 4 Power supply, connection pattern 00995999 Approval RCM trademark RC mark RC	Rotor position transducer resolution	16 bit
Power supply, connection system Power supply, number of pins/wires A Power supply, commettor pattern O0995989 Approval A	Permissible voltage fluctuations	+/- 15%
Power supply, number of pins/wires 4 Power supply, connection pattern 5	Power supply, connection type	Plugs
Power supply, connection pattern Approval Approval Approval Approval Approval Approval Approval Approval Approval RCM trademark RCE mark (see declaration of conformity) To ELEMC Directive In accordance with EL Bookt S Directive UKCA marking (see declaration of conformity) To IX instructions for EMC To IX Rosh's instructions Vibration resistance Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Corrosion resistance class CRC O-No corrosion stress USWS conformity VDMA2a364 zone III Clearmoon class Class 9 according to ISO 14644-1 Storage temperature 20 °C 60 °C Relative air humidity O-90% Relative air humidity O-90% Relative air humidity O-90% Non-condensing Degree of protection IPA0 Protection class III Ambient temperature O°C 50 °C None ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My Aux. moment My Aux. moment My Aux. red firer Ex Reference value effective load, horizontal Reference value effective load, horizontal Reference value effective load, vertical 179 g Reference value effective load, vertical 185 g Reference value effective load, vertical 218 g Reference value effective load, vertical 219 g Reference value effective load, vertical 220 C Rumber of digital logic input S Reference value effective load, porticated 24 V Reference value effective load, p	power supply, connection system	M12x1, T-coded according to EN 61076-2-111
Approval RC Mark RC ma	Power supply, number of pins/wires	4
KC mark CE mark (see declaration of conformity) To EU BMC Directive In accordance with EU ROHS Directive UNCA marking (see declaration of conformity) To IU KI Instructions for EMC To UK ROHS Instructions UNCA marking (see declaration of conformity) To UK ROHS Instructions Vibration resistance Transport application test with severity level 1 to FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC O. No corrosion stress UNCA366 (PWIS) conformity VDMA2364 zone III Cleanroom class Class 9 according to 150 14644-1 Storage temperature 20 °C 60 °C Relative air humidity O. 90% Non-condensing Degree of protection IP40 Protection class III Nambient temperature O °C 50 °C Note on ambient temperature O °C 50 °C Nax. moment Mx O Mm Nax. moment Mx O Mm Nax. moment Mx O Mm Nax. moment Mx O Nm Nax. radial force at crive shaft IBO N Nax. reference value effective load, vertical ON Seference value effective load, vertical ON Seference value effective load, vertical University ON Seference value effective load, vertical ON Seference value effective load, porticate ON Seference value effective load, vertical ON Seference value	Power supply, connection pattern	00995989
EE mark (see declaration of conformity) To EU EMC Directive In Court and Conformity (See declaration of conformity) To UK Instructions for EMC To UK RoHS instructions Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance (Shock resistance) Corrosion resistance class CRC O No corrosion stress Class 9 according to 150 14644-1 Cleanroom class Class 9 according to 150 14644-1 Storage temperature -20 °C 60 °C Relative air humidity O -99% Non-condensing Degree of protection IP40 Protection class III Ambient temperature O °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. moment My 3.2.9 Nm Max. radial force at drive shaft 180 N Max. refed force Fx Reference value effective load, horizontal Reference value effective load, vertical Maintenance interval Moving mass for 0 mm stroke Additional moming mass per 10 mm stroke 118 g Additional moming mass per 10 mm stroke Number of digital logic outputs 24 VDC 2 Number of digital logic inputs Powering and per 10 mm stroke Note general per 10 mm stroke Number of digital logic inputs Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically Isolated O-Link, Protocol version D-vick VI.1 D-Link, Communication mode O-Link, Port class A H	Approval	RCM trademark
In accordance with EU ROHS Directive UKCA marking (see declaration of conformity) UKCA marking (see declaration of conformity) To UK instructions for EMC TO UK ROHS instructions Transport application test with severity level 1 to FN 942017-4 and EN 80068-2-26 Shock resistance Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC O - No corrosion stress Class 9 according to ISO 14644-1 Storage temperature 120° C 60° C Relative air humidity O - 90% Non-condensing Degree of protection IPAO Protection class III Ambient temperature O °C 50° C Note on ambient temperature O °C 50° C Note on ambient temperature O °C 50° C Note on ambient temperature O °C 50° C Max. moment My Aux. moment My Aux. moment My Aux. rodial force at drive shaft 180 N Max. radial force at drive shaft 180 N Max. radial force at drive shaft 180 N Max. rede force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, horizontal Effective using the first own stroke Additional moving mass per 10 mm stroke Additional moving miss per 10 mm stroke Additional moving mis	KC mark	KC-EMV
To UK RoHS instructions	CE mark (see declaration of conformity)	
60068-2-6 Shock resistance Shock resistance (ass CRC O-No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Cleanroom class Class 9 according to 150 14644-1 Storage temperature -20 °C 60 °C Relative air humidity O-90% Non-condensing Degree of protection IP40 Protection class III Ambient temperature O°C 50 °C Note on ambient temperature O°C 50 °C Note on ambient temperature O°C 50 °C Note on ambient temperature ONM Now moment MX ONM Nax. moment MX ONM Nax. moment MY 2.9 Mm Nax. radial force at drive shaft 180 N Nax. redi force EX Reference value effective load, horizontal Reference value effective load, vertical III-et interval III-et interval III-et interval III-et interval Moving mass for 0 mm stroke 179 g Additional woight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Specification logic input Vorking range of logic i	UKCA marking (see declaration of conformity)	
Corrosion resistance class CRC O No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Cleanroom class Class 9 according to ISO 14644-1 Storage temperature 2-0 °C 60 °C Relative air humidity O -90% Non-condensing Degree of protection IP40 Protection class III Ambient temperature O °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nim Max. moment My 2.9 Nm Max. moment My 2.9 Nm Max. radial force at drive shaft 180 N Max. radial force at drive shaft 180 N Max. feef force Fx 450 N Reference value effective load, horizontal Reference value effective load, vertical Uife-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 14 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Sopelification logic input Working range of logic input Configurable Not galvanically isolated Not Jakanically isolated Ol-Link, SIO-Mode support Protection Ison Communication mode OL-Link, Port colass A COM3 (230.4 kBaud) Ol-Link, Port class A	Vibration resistance	
LABS (PWIS) conformity Cleanroom class Class 9 according to ISO 14644-1 Storage temperature 20 °C 60 °C Relative air humidity 0 - 90% Non-condensing Degree of protection IP40 Protection class III Ambient temperature 0 °C 50 °C Note on ambient temperature Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx 0 Nm Max. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. red force Fx 450 N Reference value effective load, horizontal Reference value effective load, vertical 23 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke Number of digital logic inputs 24 V Specification logic input Working range of logic input Versitutes of logic input Versitutes of logic input Norling range of logic input Versitutes of Life, Fort coals A Communication mode 10-Link, Portocal version Life, Fort class A Communication mode Lol-Link, Port class	Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Clear own class Class 9 according to ISO 14644-1 Storage temperature 20 ° C 60 ° C Relative air humidity Degree of protection IP40 Protection class III Ambient temperature 0 ° C 50 ° C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30° C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. moment My 3.9 Nm Max. radial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 2415 g Basic weight for 0 mm stroke 4ditional weight per 10 mm stroke 4ditional weight per 10 mm stroke 4ditional weight per 10 mm stroke Number of digital logic outputs 24 V DC 2 Number of digital logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated Not galvanically isolated 10-Link, Portocol version Device V 1.1 10-Link, Portocol version 10-Link, Portocol version 10-Link, Portoclass A Class 9 according to 150 14644-1 1P40 Power must be reduced by 2% per K at ambient temperatures above 30°C. None or C Power must be reduced by 2% per K at ambient temperatures above 30°C. None or C 10-C 50 ° C None or C 10-C 50 ° C None or C 10-Sink, Port class A Class 9 according to 150 1464-15. 1P40 1P	Corrosion resistance class CRC	0 - No corrosion stress
Storage temperature	LABS (PWIS) conformity	VDMA24364 zone III
Relative air humidity Degree of protection Degree of protection Protection class III Ambient temperature O ° C 50 ° C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30° C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal Effective load, vertical Basic weight for 0 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Additional logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, Fot Coloversion Device V 1.1 IO-Link, Port class A H	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection IP40 Protection class III Ambient temperature 0°C 50°C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. red force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight for 0 mm stroke 1185 g Basic weight for 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Features of logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated Ol-Link, Flot Color Version Device V 1.1 Ol-Link, Port class A	Storage temperature	-20 °C 60 °C
Protection class Ambient temperature O °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. radial force at drive shaft 180 N Max. redial force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Maintenance interval Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g Product weight Basic weight for 0 mm stroke 41 g Number of digital logic outputs 24 V DC Number of digital logic input Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support O-Link, Protocol version Device V 1.1 O-Link, communication mode COM3 (230.4 kBaud) I-Link port class III O Nm Ambier of digital logic outputs 24 V Configurable Not galvanically isolated IO-Link, Port class A H III O-Link, Port class III O Nm A Power must be reduced by 2% per K at ambient temperatures above 30°C. O Nm Power must be reduced by 2% per K at ambient temperatures above 30°C. O Nm O Nm O Nm Any Ender of Configurable Not galvanically isolated IO-Link, Port class A	Relative air humidity	
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Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx 0 Nm Max. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal 80 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 179 g Additional moving mass per 10 mm stroke 1185 g Additional weight for 0 mm stroke 1185 g Number of digital logic outputs 24 V DC Number of digital logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated 10-Link, S1O-Mode support Ves 10-Link, Protocol version Device V 1.1 10-Link, Port class A	Protection class	III
Max. moment Mx Ax. moment My Ax. moment My Ax. moment My Ax. moment Mz Ax. radial force at drive shaft Ax. feed force Fx Ax for Max. feed force Fx Ax for Max. de at frive shaft Ax feed force Fx Ax for Max. feed for	Ambient temperature	0 °C 50 °C
Max. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class	Note on ambient temperature	
Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 2415 g Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class	Max. moment Mx	0 Nm
Max. radial force at drive shaft180 NMax. feed force Fx450 NReference value effective load, horizontal60 kgReference value effective load, vertical23 kgMaintenance intervalLife-time lubricationMoving mass for 0 mm stroke179 gAdditional moving mass per 10 mm stroke4.9 gProduct weight2415 gBasic weight for 0 mm stroke1185 gAdditional weight per 10 mm stroke41 gNumber of digital logic outputs 24 V DC2Specification logic inputBased on IEC 61131-2, type 1Working range of logic input24 VFeatures of logic inputConfigurable Not galvanically isolatedIO-Link, SIO-Mode supportYesIO-Link, Protocol versionDevice V 1.1IO-Link, communication modeCOM3 (230.4 kBaud)IO-Link, Port classA	Max. moment My	2.9 Nm
Max. feed force Fx Reference value effective load, horizontal Reference value effective load, vertical Reference value effective load, vertical Life-time lubrication Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Product weight Reference value effective load, vertical Life-time lubrication Life-time lubricat	Max. moment Mz	2.9 Nm
Reference value effective load, horizontal Reference value effective load, vertical 23 kg Maintenance interval Life-time lubrication Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g Product weight 2415 g Basic weight for 0 mm stroke Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Specification logic input Based on IEC 61131-2, type 1 Working range 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 kBaud) IO-Link, Port class	Max. radial force at drive shaft	180 N
Reference value effective load, vertical 23 kg Maintenance interval Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g Product weight Basic weight for 0 mm stroke 41 g Number of digital logic outputs 24 V DC Number of digital logic input Specification logic input Working range of logic input Working range of logic input Configurable Not galvanically isolated 10-Link, S10-Mode support Yes 10-Link, Protocol version Device V 1.1 COM3 (230.4 kBaud) 179 g 179 g 189 g 179 g 4.9 g 179 g 4.9 g 2415 g 8 4.9 g 2415 g 8 4.9 g 2415 g 8 2415 g 8 2415 g 8 2415 g 8 2416 g 8 2417 g 8 2418 g	Max. feed force Fx	450 N
Maintenance interval Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight for 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight logic outputs 24 V DC Number of digital logic inputs Specification logic input Working range of logic input Working range of logic input Working vange of logic input Working vange of logic input Working vange of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A Life-time lubrication 179 g A Life-time lubrication 185 g A Life-time lubrication 179 g A Life-time lubrication 179 g A Life-time lubrication 185 g A 241 g Basic weight for 0 mm stroke 185 g A 241 g Life-time lubrication 185 g A 24 V Configurable Not galvanically solat	Reference value effective load, horizontal	60 kg
Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight for 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight logic outputs 24 V DC Number of digital logic inputs Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A	Reference value effective load, vertical	23 kg
Additional moving mass per 10 mm stroke Product weight 2415 g Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Yes IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	Maintenance interval	Life-time lubrication
Product weight Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	Moving mass for 0 mm stroke	179 g
Basic weight for 0 mm stroke Additional weight per 10 mm stroke Auditional weight per 10 mm stroke Auditional weight per 10 mm stroke Auditional weight per 10 mm stroke Augustian logic outputs 24 V DC Number of digital logic inputs 2 Specification logic input Based on IEC 61131-2, type 1 Working range 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 kBaud) IO-Link, Port class A	Additional moving mass per 10 mm stroke	4.9 g
Basic weight for 0 mm stroke Additional weight per 10 mm stroke Auditional weight per 10 mm stroke Auditional weight per 10 mm stroke Auditional weight per 10 mm stroke Augustian logic outputs 24 V DC Number of digital logic inputs 2 Specification logic input Based on IEC 61131-2, type 1 Working range 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 kBaud) IO-Link, Port class A		
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs Specification logic input Working range of logic input Eatures of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A 41 g 41 g 41 g 42 Q Communication mode Communication mode 41 g 41 g 41 g Communication mode Communication mode 42 Q Configurable Not galvanically isolated Communication mode Communication mode Communication mode Communication mode A		1185 g
Number of digital logic outputs 24 V DC Number of digital logic inputs Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A		41 g
Number of digital logic input Specification logic input Working range of logic input Eatures of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A Based on IEC 61131-2, type 1 Configurable Not galvanically isolated Ves Configurable Not galvanically isolated COM3 (230.4 kBaud) A		
Specification logic input Working range of logic input 24 V Features of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support Ves IO-Link, Protocol version Device V 1.1 IO-Link, Port class A Based on IEC 61131-2, type 1 24 V Configurable Not galvanically isolated Yes COM3 (230.4 kBaud) A		
Working range of logic input Features of logic input Configurable Not galvanically isolated IO-Link, SIO-Mode support IO-Link, Protocol version Device V 1.1 IO-Link, Communication mode COM3 (230.4 kBaud) A		Based on IEC 61131-2, type 1
Features 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 kBaud) A		
IO-Link, SIO-Mode support IO-Link, Protocol version IO-Link, communication mode IO-Link, Port class A Yes COM3 (230.4 kBaud) A	· · · · · · · · · · · · · · · · · · ·	
IO-Link, Protocol version Device V 1.1 IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	IO-Link, SIO-Mode support	Yes
IO-Link, communication mode COM3 (230.4 kBaud) IO-Link, Port class A	1	Device V 1.1
IO-Link, Port class A		COM3 (230.4 kBaud)
	IO-Link, Number of ports	

Feature	Value
IO-Link, Process data length OUT	2 bytes
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 length IN	2 bytes
IO-Link, Process data content IN	State Device 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit
IO-Link, Service data IN	32-bit force 32-bit position 32-bit speed
IO-Link, Min. cycle time	1 ms
IO-Link, Data storage required	500 Byte
Max. cable length	15 m outputs 15 m inputs 20 m with IO-Link® operation
Switching logic for outputs	NPN (negative switching) PNP (positive switching)
Switching logic for inputs	NPN (negative switching) PNP (positive switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101
Logic interface, number of pins/wires	8
Logic interface, plug pattern	00992264
Type of mounting	Via female thread With accessories
Note on materials	RoHS-compliant
Material housing	Smooth-anodised wrought aluminium alloy
Material piston rod	High-alloy stainless steel
Material spindle nut	Steel
Material spindle	Rolled steel