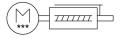
Electric cylinder unit EPCS-BS-60-350-5P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118293





General operating condition

Data sheet

Feature	Value
Size	60
Stroke	350 mm
Stroke reserve	0 mm
Piston rod thread	M12x1.25
Reversing backlash	100 μm
Screw diameter	12 mm
Spindle pitch	5 mm/U
Max. angle of rotation of the piston rod +/-	1 deg
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor
Structural design	Electric actuator with ball screw drive With integrated drive
Spindle type	Ball screw drive
Symbol	00997294
Protection against torsion/guide	With plain-bearing guide
Homing	Fixed stop block positive Fixed stop block, negative Reference switch
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	1.5 m/s ²
Max. speed	0.09 m/s
Speed "Speed Press"	0.01 m/s
Repetition accuracy	±0.02 mm
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current of digital logic outputs	100 mA
Max. current consumption	5300 mA

Logic russ, current consumption 0.3 A	Feature	Value
Nominal current Parametrization interface Stotor position sensor resolution 16 bit Perametrization interface Stotor position sensor resolution 17 bit Power supply, tonaction 18 plug Power supply, connection Power supply, connection pattern Coefficial Resolution Resolution (Resolution pattern Coefficial Resolution (Resolution pattern Coefficial Resolution (Resolution pattern Coefficial Resolution (Resolution pattern Coefficial Resolution (Resolution (Resoluti	Logic max. current consumption	0.3 A
Parameterization interface Rotor position sensor resolution Rotor position sensor resolution Remissible voltage fluctuations Prover supply, per Commection Piling Power supply, per Commection Power supply, per Commercion	DC nominal voltage	24 V
User interface Rotor position sensor resolution 16 bit Permissible voltage fluctuations 1/-15 % Power supply, commedion technology Plug Power supply, commedion pattern 00995989 Certification RCM compliance mark KC characters KC EMC CE marking (see declaration of conformity) Reper EU LINIC directive As per	Nominal current	5.3 A
Retor position sensor resolution	Parameterization interface	IO-Link®
Permissible voltage fluctuations //-15 % Power supply, tope of connection Ping Power supply, connection pattern Power supply, connection pattern Power supply, number of pins/wires 4 Power supply, number of pins/wires 4 Power supply, connection pattern Compliance mark KC characters KC Emarking (see declaration of conformity) KC characters CE marking (see declaration of conformity) KC characters CE marking (see declaration of conformity) KC Characters CE marking (see declaration of conformity) KO LIK matricions for EMC (old Kind Structions for EMC (old Kind Struc		User interface
Power supply, type of connection Plug Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Power supply, number of plans/wires 4 Power supply, number of plans/wires 4 Power supply, connection pattern Certification RCM compliance mank KC tharacters RC Emarking (see declaration of conformity) As per EU EMC directive LUKCA marking (see declaration of conformity) To LUK marking (see declaration of conformity) To LUK Roeff Instructions for EMC LUK Roeff Instructions LUK Roeff Instructi	Rotor position sensor resolution	16 bit
Power supply, connection technology M32x1, T-coded as per EN 61076-2-111 Power supply, number of pins/wires A 00999999 Certification KC characters KC EMC CE marking (see declaration of conformity) As per EU ENG directive As EU ENG	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires Power supply, connection pattern Coerflication RC characters KC Emarking (see declaration of conformity) KC characters KC Emarking (see declaration of conformity) To UK instructions for EMC To UK Romits instructions Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EMS 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance class (CRC) O - No corrosion stress Llass (PWIS) conformity UMMA23648 zone III Cleanroom class Class 9 according to ISO 14644-1 Storage temperature 20°C., 60°C Relative air humidity O - 90 % Non-condensing Degree of protection 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 *D 50°C ANA. torque MX Max. torque MX Mx. t	Power supply, type of connection	Plug
Fower supply, connection pattern Certification RCM compliance mark KC Characters KC EMC CE marking (see declaration of conformity) As per ELL BMC directive As per ELL BMC directive INCA marking (see declaration of conformity) As per ELL BMC directive INCA marking (see declaration of conformity) INCA seed of the Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-727 INCA 60068-2-6 Shock resistance Shock resist	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification RCM compliance mark RCC Hacceless RCC EMC	Power supply, number of pins/wires	4
KC characters KC Emarking (see declaration of conformity) As per EU EMC directive CWCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Vibration resistance Vibration resistance Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC) O - No corrosion stress CLABS (PMIS) conformity VDMA2-364 zone III CLABATORY (SWIS) conformity	Power supply, connection pattern	00995989
EE marking (see declaration of conformity) As per EU RMC directive As per EU RMC directive As per EU RMS directive INCA marking (see declaration of conformity) To UK instructions for FMC To UK RoHS instructions To UK RoHS instructions To UK RoHS instructions Transport a pipulication test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRQ) 0 - No corrosion stress Class 9 according to ISO 14644-1 Cleanroom class Class 9 according to ISO 14644-1 Class 1464-1464-1464-1464-1464-1464-1464-1464	Certification	RCM compliance mark
As per EU RoHS directive UKCA marking (see declaration of conformity)	KC characters	KC EMC
To UK RoHS instructions Transport application test with severity level 1 as per FN 942017-4 and RN 60068-2 e Shock resistance	CE marking (see declaration of conformity)	
EN 60068-2-6 Corrosion resistance Corrosion resistance class (CRC) On-No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Cleantoon class Class 9 according to ISO 14644-1 Storage temperature 20 °C60 °C Relative air humidity Op 96 Non-condensing Degree of protection Protection class III Ambient temperature Op °C50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque Mx On Non-condensing Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 256 per K. Max. torque My Above an ambient temperature of 30°C, the power must be reduced by 250 per K. Above an ambient temperature of 30°C, the power must be reduced by 250 per K. Above an ambient temperature of 30°C, the power must be reduced by 250 per K. Above an ambient temperature of 30°C, the power must be reduced by 250 per K. Above an ambient temperature of 30°C, the power must be reduced by 250 per K. Above an ambient temperature of 30°C, the powe	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC) LABS (WIS) conformity VDMAZ4364 zone III Class 9 according to ISO 14644-1 Storage temperature 2-0° 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 Note on ambient temperature Note on ambient temperature Nax. torque Mx Max. torque Mx Max. torque My	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 Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Max. torque My 6.4 Nm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. torque Mz 6.5 Nm Guide value for payload, horizontal Guide value for payload, vertical Maintenance interval Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight pe	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
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 Abbient 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. Max. torque Mx Max. torque Mx Max. torque My 6.4 Mm Max. torque My 6.4 Nm Max. torque Mz 6.6 A Mm Max. torque Mz 6.6 F g Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 305 g Product weight 4709 g Basic weight with 0 mm stroke 69 g Product weight ther 10 mm stroke 40ditional weight per 10 mm stroke 40ditional weight per 10 mm stroke 40ditional weight per 10 mm stroke 8294 g Additional weight per 10 mm stroke 40ditional weight per 10 mm stroke 83es weight with 0 mm stroke 40ditional weight per 10 mm stroke 83es on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated 10-Link®, 510 mode support Yes 10-Link®, protocol version 10-Link®, protocol version 10-Link®, protocol version 10-Link®, communication mode 10-Link®, communication mode 10-Link®, communication mode	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 Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Max. torque My 6.4 Nm Max. torque My 6.4 Nm Max. torque Mz 6.4 Nm Max. feed force Fx 900 N Guide value for payload, horizontal Guide value for payload, horizontal Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Additional w	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection P40 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. Max. torque Mx 0 Nm Max. torque My 6.4 Nm Max. torque MZ 6.4 Nm Max. radial force on actuator shaft 230 N Max. red force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical 46 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Characteristics of logic input 24 V Characteristics of logic input 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, protecol version Device V 1.1 IO-Link®, protecoless A III I	Storage temperature	-20 °C 60 °C
Protection class Milent temperature O °C 50 °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 My 6.4 Nm Max. torque Mz 6.4 Nm Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs Configurable Movir arnage of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Device V 1.1 IO-Link®, protocol version Device V 1.1 IO-Link®, port class III Above an ambient temperature of 30°C, the power must be reduced by 20°C,	Relative air humidity	
Ambient temperature 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 My 6.4 Nm Max. torque Mz 6.4 Nm Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional weight per 10 mm stroke Coglic input 24 V DC 2 Logic input 34 V Characteristics of logic input Configurable Not galvanically isolated Not galvanically isolated IO-Link®, SIO mode support Pes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Degree of protection	IP40
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Max. torque My6.4 NmMax. torque Mz6.4 NmMax. radial force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight4709 gBasic weight with 0 mm stroke2294 gAdditional weight per 10 mm stroke69 gNumber of digital logic outputs 24 V DC2Number of digital logic inputs2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic input24 VCharacteristics of logic inputYesIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Note on ambient temperature	
Max. torque Mz Max. radial force on actuator shaft 230 N Max. feed force Fx 900 N Guide value for payload, horizontal 120 kg Guide value for payload, vertical Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Mumber of digital logic outputs 24 V DC Logic input specification Work range of logic input Characteristics of logic input OLINIA, SIO mode support OLINIA, SIO mode support	Max. torque Mx	0 Nm
Max. radial force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight4709 gBasic weight with 0 mm stroke2294 gAdditional weight per 10 mm stroke69 gNumber of digital logic outputs 24 V DC2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic inputConfigurable Not galvanically isolatedIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Max. torque My	6.4 Nm
Max. feed force Fx Guide value for payload, horizontal Guide value for payload, vertical A6 kg Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight logic outputs 24 V DC Aumber of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Ves IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A Book N Based on IEC 60131-2 COM3 (230.4 kBd) A	Max. torque Mz	6.4 Nm
Guide value for payload, vertical 46 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight 4709 g Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 g Number of digital logic outputs 24 V DC 2 logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Work protocol version Do-Link®, SIO mode support Ves U-Link®, communication mode OCM3 (230.4 kBd) IO-Link®, port class Life-time lubrication Life-time lubrication A6 kg Chest	Max. radial force on actuator shaft	230 N
Guide value for payload, vertical Maintenance interval Life-time lubrication Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 4709 g Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 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 Characteristics of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Ves IO-Link®, rotocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Max. feed force Fx	900 N
Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 6.5 g Product weight 4709 g Basic weight with 0 mm stroke Additional weight per 10 mm stroke 69 g Number of digital logic outputs 24 V DC Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input 10-Link®, SIO mode support Ves 10-Link®, protocol version Device V 1.1 10-Link®, communication mode COM3 (230.4 kBd) A	Guide value for payload, horizontal	120 kg
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Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Bumber of digital logic outputs 24 V DC Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Ves IO-Link®, SIO mode support IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Maintenance interval	Life-time lubrication
Product weight Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 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 Characteristics of logic input Characteristics of logic input Ves IO-Link®, SIO mode support Ves IO-Link®, communication mode COM3 (230.4 kBd) A 4709 g 4709 g 4709 g 4709 g 4709 g 4709 g 69 g Configurable Analysisolated For Sigurable Not galvanically isolated COM3 (230.4 kBd) A	Moving mass at 0 mm stroke	305 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke 69 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 Characteristics of logic input Characteristics of logic input Yes IO-Link®, SIO mode support Ves IO-Link®, communication mode COM3 (230.4 kBd) A E2 Communication Mm stroke A E294 g 69 g Communication Mm stroke 60 g Co	Additional moving mass per 10 mm stroke	6.5 g
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input 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) A	Product weight	4709 g
Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics 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 kBd) A	Basic weight with 0 mm stroke	2294 g
Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics 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 kBd) A	Additional weight per 10 mm stroke	69 g
Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input 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) A		
Work range of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support IO-Link®, protocol version IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	Number of digital logic inputs	2
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Not galvanically isolated 10-Link®, SIO mode support 10-Link®, protocol version 10-Link®, communication mode 10-Link®, port class A Not galvanically isolated Yes Cows Cows Cows Cows Cows Cows A	Work range of logic input	24 V
IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	Characteristics of logic input	
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, SIO mode support	Yes
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, protocol version	Device V 1.1
IO-Link®, port class A		COM3 (230.4 kBd)
·	IO-Link®, port class	A
	·	1

Feature	Value
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	32 bit force 32 bit position 32 bit speed
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	NPN (negative switching) PNP (positive switching)
Input switching logic	NPN (negative switching) PNP (positive switching)
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 internal thread With accessories
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy, smooth-anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel