



Data sheet

Feature	Value
Size	28
Total stroke	30 mm
Stroke per gripper jaws	15 mm
Max. gripper jaw backlash Sz	0.35 mm
Repetition accuracy, gripper	0.04 mm
Number of gripper jaws	2
Drive system	Electrical
Mounting position	optional
Controller operating mode	Interpolated mode via fieldbus
Gripper function	Parallel
Design	Toothed belt Electric gripper With ball screw
Guide	Roller bearing guide
Position detection	Motor encoder
Configuration support	ESI file
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Ready status indication	LED
Positioning speed per gripper finger	40 mm/s
Positioning acceleration per gripper finger	1 m/s²
Gripping speed per gripper finger	3 mm/s
Number of MAC addresses	4
Max. current consumption	3000 mA
Max. current consumption, load	2 A
Max. current consumption, logic	1 A
Nominal operating voltage DC	24 V
Nominal voltage for logic power supply DC	24 V
Nominal voltage load voltage DC	24 V

Nominal motor current Permissible range for load power supply 1 10 % Permissible range for logic voltage 2 10 % KC mark KC E mark (see declaration of conformity) To EV EMC Directive In accordance with EU RoHS Directive In EXEMPTION OF TO ILK RoHS instructions Shock resistance Shock tests with severity level 2 to FN 942017-5 and EN 60068-2-27 Corosion resistance class CRC O - No corosion stress LABS (PWIS) conformity VDMA24364 zone III Product corresponds to the internal product definition from Festo for use in battery production. Accordance with the restriction of copper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-5 and EN 60068-2-7 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include from use. The exceptions are nickel in severity level 2 to FN 942017-4 and EN 60068-2-6 (sopper, fine or include Exceptions and or include Exceptio	Feature	Value
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Max. force on gripper jaw Fz static 680 N Max. torque at gripper Mx static 6.5 Nm Max. torque at gripper My static 14.5 Nm Max. torque at gripper Mz static 6.5 Nm Rated load 1 kg Nominal torque 0.115 Nm Lubrication interval for guide components 1 MioCyc Product weight 1400 g Communication profile CiA402 EoE (Ethernet over EtherCAT®) FoC (File over EtherCAT®) FoC (File over EtherCAT®) Field bus, connection type Socket Field bus, connection pattern 4 Field bus, protocol EtherCAT® Electrical connection 2x M12 Fieldbus link EtherCAT Type of mounting Via female thread and centring sleeve Note on materials RoHS-compliant Material housing Anodised aluminium	Gripping force per gripper jaw	160 N
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Max. torque at gripper Mz static Rated load 1 kg Nominal torque 0.115 Nm Lubrication interval for guide components 1 MioCyc Product weight 1400 g Communication profile Communication type Field bus, connection type Field bus, connection system Field bus, connection pattern Field bus, protocol Electrical connection 2x M12 Fieldbus link EtherCAT Type of mounting Material housing 6.5 Nm 6.5 Nm	Max. torque at gripper Mx static	6.5 Nm
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Type of mounting Via female thread and centring sleeve Note on materials RoHS-compliant Material housing Anodised aluminium	Electrical connection	2x M12
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Note on materials RoHS-compliant Material housing Anodised aluminium	Type of mounting	Via female thread and centring sleeve
Material housing Anodised aluminium		RoHS-compliant
Material gripper jaws Steel	Material housing	
	Material gripper jaws	Steel