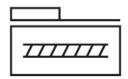
## Ball screw axis ELGC-BS-KF-60-300-12P Part number: 8061493

**FESTO** 





## **Data sheet**

Feature	Value
Working stroke	300 mm
Size	60
Stroke reserve	0 mm
Reversing backlash	0.15 mm
Screw diameter	12 mm
Spindle pitch	12 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with ball screw
Motor type	Stepper motor Servo motor
Spindle type	Ball screw drive
Position sensing	For proximity sensor For inductive proximity sensors
Max. acceleration	15 m/s²
Max. rotational speed	4000 rpm
Max. speed	0.8 m/s
Repetition accuracy	±0.01 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 7 according to ISO 14644-1
Storage temperature	-20 °C60 °C
Degree of protection	IP40
Ambient temperature	0 °C50 °C
Impact energy in the end positions	1 mJ
Note on the impact energy in the end positions	At maximum speed of the reference run of 0.01 m/s
2nd moment of area ly	441000 mm <sup>4</sup>

No-load torque at maximum travel speed No-load torque at minimum travel speed O,042 Nm Axx. force Fy Sof4 1 N Max. force Fz Sof4 1 N Max. force Fz Sof4 1 N Max. force Fy total axis Max. force Wx Max. torque Mx Max. moment Mx total axis Mx. moment Mx total axis Mx. moment Mx force file of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life on a cutator shalt Mx read force Fx   200 N  70 57 67 67 8cm²  70 67 67 68cm²  70	Feature	Value
No-load torque at minimum travel speed Max. Force Fy total axis Max. Force Fy total axis Max. Force Fy total axis Max. Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. Torque Mx Mx With theoretical service life of 100 km (from a guide perspective only) Mx With theoretical service life of 100 km (from a guide perspective only) Distance between slide surface and guide center  Max. Torque Mx Mx Mx Mx Mx Mx Torque Mx Mx Mx Mx Mx Torque Mx Mx Mx Mx Mx Torque Mx Mx Mx Mx Mx Mx Torque Mx Mx Mx Mx Torque Mx M	2nd moment of area Iz	542000 mm⁴
Max. force Fy Max. force Fz  3641 N  Max. force Fz total axis  Max. force Fz total axis  Max. force Fz total axis  1800 N  Fy with theoretical service life of 100 km (from a guide perspective only)  Fz with theoretical service life of 100 km (from a guide perspective only)  Fz with theoretical service life of 100 km (from a guide perspective only)  Fz with theoretical service life of 100 km (from a guide perspective only)  Fz with theoretical service life of 100 km (from a guide perspective only)  Max. torque Mx  31.8 Nm  Max. torque My  31.8 Nm  Max. moment Mx total axis  31.8 Nm  Max. moment Mx total axis  31.8 Nm  Max. moment Mz total axis  31.8 Nm  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It per meter of stroke  Mass moment of inertia It per kg of payload  0.036476 kgcm²  Mass moment of inertia It per kg of payload  0.02235 kgcm²  Feed constant  12 mm/U  Reference service life  Moing mass  525 g  Additional weight per 10 mm stroke  Moynamic deflection (load moved)  51 tg  Colon of axis length, maximum 0.5 mm  Static deflection (load at standstill)  1.10 of axis length, maximum 0.5 mm  Die cast aluminum, painted  Profile material  Wrought aluminum alloy, anodized	No-load torque at maximum travel speed	0.246 Nm
Max. force Fz Max. force Fy total axis 600 N Fz with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx Max. torque Mx Max. torque Mx Max. torque Mx Max. moment Mx total axis Max. moment Mx total axis Max. moment Mx total axis Max. moment My total axis Max. moment My total axis Max. moment Mx total axis Mx with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  54.6 mm  Max. radial force on actuator shaft 230 N Max. radial force on actuator shaft 230 N Max. gave force Fx 200 N Torsion moment of inertia It Mass moment of inertia It Mass moment of inertia It Mass moment of inertia II per kg of payload 0.036476 kgcm² Mass moment of inertia ID Reference service life 5000 km Mass moment of inertia ID Reference service life 5000 km Moving mass 525 g Maditional weight per 10 mm stroke Dynamic deflection (load moved) 51 g Dynamic deflection (load moved) 52 for force actualuminum, painted Pyrofile material Moving mass Dynamic deflection (load at standstill) 0.1 % of axis length, maximum 0.5 mm  Distance code, actuator 742 Material of end caps Pyrofile material Wrought aluminum alloy, anodized	No-load torque at minimum travel speed	0.042 Nm
Max. force Fy total axis  Max. force Fy total axis  Max. force Fz total axis  1800 N	Max. force Fy	3641 N
Max. force Fz total axis Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque My Max. torque My Max. torque My Max. moment Mx total axis Mx. with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life only only only only only only only only	Max. force Fz	3641 N
Fy with theoretical service life of 100 km (from a guide perspective only)  Fz with theoretical service life of 100 km (from a guide perspective only)  Amax. torque Mx  Amax. torque Mx  Amax. torque Mx  Amax. torque Mx  Amax. moment Mx total axis  Amax.	Max. force Fy total axis	600 N
Fz with theoretical service life of 100 km (from a guide perspective only)  Max. torque Mx  Max. torque My  31.8 Nm  Max. torque Mz  31.8 Nm  Max. moment Mx total axis  29.1 Nm  Max. moment Mx total axis  31.8 Nm  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a g	Max. force Fz total axis	1800 N
Max. torque Mx  Max. torque My  31.8 Nm  Max. torque Mz  31.8 Nm  Max. moment Mx total axis  29.1 Nm  Max. moment My total axis  31.8 Nm  Max. moment My total axis  31.8 Nm  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  54.6 mm  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm  Mass moment of inertia It per kg of payload  Mass moment of inertia It per kg of payload  Mass moment of inertia It per kg of payload  Mass moment of inertia It per kg of payload  Mass moment of inertia It  Efference service life  5000 km  Maintenance interval  Moving mass  525 g  Additional weight per 10 mm stroke  Dynamic deflection (load moved)  Static deflection (load at standstill)  No 10 % of axis length, maximum 0.5 mm  Static deflection (load at standstill)  No 10 % of axis length, maximum 0.5 mm  Profile material Wrought aluminum alloy, anodized  Note on materials  RoHS-compliant	Fy with theoretical service life of 100 km (from a guide perspective only)	13400 N
Max. torque My  Max. torque Mz  31.8 Nm  Max. moment Mx total axis  29.1 Nm  Max. moment Mx total axis  31.8 Nm  Max. moment Mx total axis  31.8 Nm  Max. moment Mx total axis  31.8 Nm  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia IH per meter of stroke  0.10779 kgcm²  Mass moment of inertia JI per kg of payload  0.036476 kgcm²  Mass moment of inertia IQ  Need constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Moving mass  425 g  Additional weight per 10 mm stroke  Dynamic deflection (load moved)  5tatic deflection (load at standstill)  1.1 feed at standstill  1.2 mx (and in a standstill)  1.3 for axis length maximum 0.5 mm  Static deflection (load at standstill)  1.4 for axis length limiterial printed  Profile material  Wrought aluminum alloy, anodized  Note on materials  RoHS-compliant	Fz with theoretical service life of 100 km (from a guide perspective only)	13400 N
Max. torque Mz  Max. moment Mx total axis  29.1 Nm  Max. moment My total axis  31.8 Nm  Max. moment Mz total axis  31.8 Nm  Max. moment Mz total axis  31.8 Nm  Max. moment Mz total axis  31.8 Nm  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Max. redail force on actuator shaft  230 N  Max. redail force on actuator shaft  29800 mm  Max. redail force on actuator shaft  31.8 Nm  107 N	Max. torque Mx	29.1 Nm
Max. moment Mx total axis  Max. moment My total axis  Mx. with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Mx with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm  Mass moment of inertia JH per meter of stroke  0.10779 kgcm²  Mass moment of inertia JL per kg of payload  0.042476 kgcm²  Mass moment of inertia JO  0.02235 kgcm²  Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  40ditional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  0.1 % of axis length, maximum 0.5 mm  Static deflection (load at standstill)  10.1 % of axis length, maximum 0.5 mm  Mrefrace code, actuator  742  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  RoHS-compliant	Max. torque My	31.8 Nm
Max. moment My total axis  Max. moment Mz total axis  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JL per kg of payload  0.01779 kgcm <sup>2</sup> Mass moment of inertia JL per kg of payload  0.02235 kgcm <sup>2</sup> Feed constant  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  Dynamic deflection (load moved)  Static deflection (load moved)  Static deflection (load at standstill)  not of axis length, maximum 0.5 mm  Material of end caps  Die cast aluminum, painted  Wrought aluminum alloy, anodized  Note on materials  RoHS-compliant	Max. torque Mz	31.8 Nm
Max. moment Mz total axis  Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JL per kg of payload  0.036476 kgcm²  Mass moment of inertia JU per kg of payload  0.02235 kgcm²  Feed constant  12 mm/U  Reference service life  5000 km  Mainteance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load moved)  Static deflection (load moved)  T42  Material of end caps  Die cast aluminum, painted  Profile materials  Note on materials  RoHS-compliant	Max. moment Mx total axis	29.1 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)  My with theoretical service life of 100 km (from a guide perspective only)  117 Nm  117 Nm	Max. moment My total axis	31.8 Nm
My with theoretical service life of 100 km (from a guide perspective only)  Mz with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  54.6 mm  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JL per kg of payload  0.01779 kgcm <sup>2</sup> Mass moment of inertia JL per kg of payload  0.02235 kgcm <sup>2</sup> Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  T42  Material of end caps  Die cast aluminum, painted  Wrought aluminum alloy, anodized  Note on materials	Max. moment Mz total axis	31.8 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)  Distance between slide surface and guide center  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  Mass moment of inertia JH per meter of stroke  Mass moment of inertia JL per kg of payload  Mass moment of inertia JO  6.02235 kgcm²  Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Profile material  Wrought aluminum alloy, anodized  Note on materials	Mx with theoretical service life of 100 km (from a guide perspective only)	107 Nm
Only)  Distance between slide surface and guide center  Max. radial force on actuator shaft  230 N  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JH per meter of stroke  0.10779 kgcm <sup>2</sup> Mass moment of inertia JL per kg of payload  0.036476 kgcm <sup>2</sup> Mass moment of inertia JO  0.02235 kgcm <sup>2</sup> Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Note on materials  RoHS-compliant	My with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Max. radial force on actuator shaft  Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JH per meter of stroke  0.10779 kgcm <sup>2</sup> Mass moment of inertia JL per kg of payload  0.036476 kgcm <sup>2</sup> Mass moment of inertia JO  0.02235 kgcm <sup>2</sup> Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  0.05% of axis length, maximum 0.5 mm  Static deflection (load at standstill)  0.1 % of axis length  Interface code, actuator  T42  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  RoHS-compliant	Mz with theoretical service life of 100 km (from a guide perspective only)	117 Nm
Max. feed force Fx  200 N  Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JH per meter of stroke  0.10779 kgcm <sup>2</sup> Mass moment of inertia JL per kg of payload  0.036476 kgcm <sup>2</sup> Mass moment of inertia JO  0.02235 kgcm <sup>2</sup> Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  0.1 % of axis length  Interface code, actuator  T42  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  RoHS-compliant	Distance between slide surface and guide center	54.6 mm
Torsion moment of inertia It  29800 mm <sup>4</sup> Mass moment of inertia JH per meter of stroke  0.10779 kgcm <sup>2</sup> Mass moment of inertia JL per kg of payload  0.036476 kgcm <sup>2</sup> Mass moment of inertia JO  0.02235 kgcm <sup>2</sup> Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  0.1 % of axis length  Interface code, actuator  T42  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  ROHS-compliant	Max. radial force on actuator shaft	230 N
Mass moment of inertia JH per meter of stroke  Mass moment of inertia JL per kg of payload  O.036476 kgcm²  Mass moment of inertia JO  O.02235 kgcm²  Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  O.05% of axis length, maximum 0.5 mm  Static deflection (load at standstill)  O.1 % of axis length  Interface code, actuator  Material of end caps  Profile material  Wrought aluminum, painted  Note on materials  RoHS-compliant	Max. feed force Fx	200 N
Mass moment of inertia JL per kg of payload  Mass moment of inertia JO  0.02235 kgcm²  Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  0.036476 kgcm²  0.02235 kgcm²  12 mm/U  12 mm/U  13 mm/U  14 life-time lubrication  5000 km  51 g  0.05% of axis length, maximum 0.5 mm  0.1 % of axis length  T42  Material of end caps  Die cast aluminum, painted  Wrought aluminum alloy, anodized	Torsion moment of inertia It	29800 mm⁴
Mass moment of inertia JO  O.02235 kgcm²  Feed constant  12 mm/U  Reference service life  5000 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  O.1 % of axis length  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  ROHS-compliant	Mass moment of inertia JH per meter of stroke	0.10779 kgcm²
Feed constant  Reference service life  So00 km  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Profile material  Note on materials  12 mm/U  12 mm/U  12 mm/U  12 mm/U  12 mm/U  10 mm/U  10 mm/U  10 mm/U  10 km  10 mm/U  10 m	Mass moment of inertia JL per kg of payload	0.036476 kgcm²
Reference service life  Maintenance interval  Life-time lubrication  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  O.05% of axis length, maximum 0.5 mm  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  RoHS-compliant	Mass moment of inertia JO	0.02235 kgcm <sup>2</sup>
Maintenance interval  Moving mass  525 g  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Profile material  Note on materials  Life-time lubrication  125 g  0.05% of axis length, maximum 0.5 mm  0.1 % of axis length  T42  Wrought aluminum, painted  Wrought aluminum alloy, anodized  RoHS-compliant	Feed constant	12 mm/U
Moving mass  Additional weight per 10 mm stroke  51 g  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Profile material  Note on materials  525 g  0.05% of axis length, maximum 0.5 mm  0.1 % of axis length  T42  Wrought aluminum, painted  Wrought aluminum alloy, anodized  RoHS-compliant	Reference service life	5000 km
Additional weight per 10 mm stroke  Dynamic deflection (load moved)  Static deflection (load at standstill)  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  Profiles Material of end caps  RoHS-compliant	Maintenance interval	Life-time lubrication
Dynamic deflection (load moved)  Static deflection (load at standstill)  O.1 % of axis length  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  O.5% of axis length  T42  Wrought aluminum, painted  Wrought aluminum alloy, anodized  RoHS-compliant	Moving mass	525 g
Dynamic deflection (load moved)  Static deflection (load at standstill)  O.1 % of axis length  Interface code, actuator  Material of end caps  Die cast aluminum, painted  Profile material  Note on materials  O.5% of axis length  T42  Wrought aluminum, painted  Wrought aluminum alloy, anodized  RoHS-compliant	Additional weight per 10 mm stroke	51 g
Interface code, actuator  Material of end caps  Die cast aluminum, painted  Wrought aluminum alloy, anodized  Note on materials  RoHS-compliant	Dynamic deflection (load moved)	0.05% of axis length, maximum 0.5 mm
Material of end caps  Die cast aluminum, painted  Wrought aluminum alloy, anodized  Note on materials  RoHS-compliant	Static deflection (load at standstill)	0.1 % of axis length
Profile material Wrought aluminum alloy, anodized  Note on materials RoHS-compliant	Interface code, actuator	T42
Note on materials RoHS-compliant	Material of end caps	Die cast aluminum, painted
	Profile material	Wrought aluminum alloy, anodized
<u> </u>	Note on materials	RoHS-compliant
Lover strip material High-alloy stainless steel	Cover strip material	High-alloy stainless steel
Drive cover material Die cast aluminum, painted	Drive cover material	Die cast aluminum, painted
Slide carriage material Steel	Slide carriage material	Steel
Guide rail material Steel	Guide rail material	Steel
Slide material Die-cast aluminum	Slide material	Die-cast aluminum
Spindle nut material Steel	Spindle nut material	Steel
Spindle material Steel	Spindle material	Steel