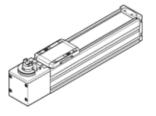
## toothed belt axis **ELGC-TB-KF-45-600** Part number: 8062771







## **Data sheet**

Working stroke  600 mm  Size  5troke reserve  0 mm  Any  Conthed-belt stretch  0.187 %  Any  Assembly position  Any  Seembly position  Any  Guide  Design structure  Electromechanical linear axis  With toothed belt  Stepper motor  Servomotor  Measuring method: displacement encoder  Incremental  Position detection  For proximity sensor  For inductive sensors  Max. acceleration  Any  Max. acceleration  15 m/ys²  Max. speed  1.2 m/s  Max. speed  1.2 m/s  Max. speed  1.2 m/s  Sephication accuracy  40,1 mm  Duty cycle  100 %  PWIS conformity  VOMA24364 zone III  SSP classification to CD-0033  Fla  Cleanroom class  150 class 7  Protection class  1940  Ambient temperature  10 50 °C  Impact energy in end positions  Note on the impact energy it the end positions  At maximum homing speed of 0.01 m/s  Are a moment of inertia 2nd degree by  Anx. force Pr  Max. force Pr  Max. force Pr  Wax. force Pr  Max. force Pr  Wax. force Pr  Wa	Feature	Value
Size Stroke reserve O mm Toothed belt stretch O .187 %  Any Guide Recirculating ball bearing guide Electromechanical linear axis With toothed belt with toothed be	Effective diameter of drive pinion	19.1 mm
Stroke reserve    O mm	Working stroke	600 mm
Toothed-belt stretch Toothed-belt plitch Sasembly position Any Guide Recirculating ball bearing guide Design structure Electromechanical linear axis With toothed belt Stepper motor Servomotor Measuring method: displacement encoder Incremental Position detection For proximity sensor For inductive sensors Max. acceleration 15 m/s2 Max. acceleration 15 m/s2 Max. acceleration 15 m/s2 Repetition accuracy 100 % PUIS conformity VDMA24364 zone III RSBP classification to CD-0033 F1 a Clearroom class 150 class 7 Protection class 10.25 mJ Note on the impact energy it the end positions At amaximum homing speed of 0.01 m/s Area moment of inertia 2nd degree by Max. drive torque Max. drive torque Max. drive torque Max. drive torque Max. force Fy 300 N Max. force Fy 300 N Max. force Fy 300 N Max. force 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. forcu pe My Max. torque Mix Mix theoretical service life of 100 km (from a guide perspective only) Mix with theoretical service life of 100 km (from a guide perspective only) Mix with theoretical service life of 100 km (from a guide perspective only) Mix with theoretical service life of 100 km (from a guide perspective only) Mix with theoretical service life of 100 km (from a guide per	Size	45
Toothed-belt pitch Assembly position Any Guide Recirculating ball bearing guide Electromechanical linear axis With toothed belt Motor type Stepper motor Servomotor Measuring method: displacement encoder Incremental Position detection For proximity sensor For inductive sensors Max. acceleration 15 m/s2 Max. speed 1.2 m/s Repetition accuracy 100 % Max. acceleration 15 m/s2 Max. speed 1.2 m/s Sespedition accuracy 100 % Motor type 100 % 100 % Motor type 100 % 100 % Motor type 100 % 100 % 100 % Motor type 100 % 100	Stroke reserve	0 mm
Assembly position Guide Recirculating ball bearing guide Design structure Electromechanical linear axis With toothed belt With toothed belt  Stepper motor Servomotor  Measuring method: displacement encoder Incremental Position detection For proximity sensor For inductive sensors  Max. acceleration 15 m/s2  Max. speed 1.2 m/s Repetition accuracy 10 m/s  Duty cycle 100 % PWIS conformity VDMA24364 zone III RSBP classification to CD 0033 Fla Cleanroom class ISO class 7 Protection regret in end positions Note on the limpact energy it the end positions Area moment of inertia 2nd degree by 1406-03 mm4 Area moment of inertia 2nd degree ly 1406-03 mm4 Area moment of inertia 2nd degree le Max. drive torque  Max. force Fy 300 N Max. force Fy 400 Figure acceleration for a service life of 5000 km or 5 million cycles Fix for the guide calculation for a service life of 5000 km or 5 million cycles Fix for the guide calculation for a service life of 5000 km or 5 million cycles Fix for the guide calculation for a service life of 5000 km or 5 million cycles Fix for the guide calculation for a service life of 5000 km or 5 million cycles Fix for the guide calculation for a service life of 5000 km or 5 million cycles Max. torque My Max. 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) 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) My with theoretical service life of 100 km (from a guide perspectiv	Toothed-belt stretch	0.187 %
Guide Design structure Electromechanical linear axis With toothed belt  Motor type Stepper motor Servomotor Incremental Position detection For proximity sensor For inductive sensors  Max. acceleration 15 m/s2 Max. speed 1.2 m/s Repetition accuracy 10,1 mm Duty cycle 100 % WISS conformity WISS conformity WISS conformity RSBP classification to CD-0033 F1a Cleanroom class 150 class 7 Protection class 1940 Ambient temperature 050 °C Impact energy it the end positions At maximum homing speed of 0.01 m/s Area moment of inertia 2nd degree ly 100 F0 on Nax. drive torque Max. force F2 Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fy for the guide calculation for a service life of 5000 km or 5 million cycles Max. torque MX Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx. torque MX Mx. to	Toothed-belt pitch	2 mm
Guide Design structure Electromechanical linear axis With toothed belt  Motor type Stepper motor Servomotor Incremental Position detection For proximity sensor For inductive sensors  Max. acceleration 15 m/s2 Max. speed 1.2 m/s Repetition accuracy 10,1 mm Duty cycle 100 % WISS conformity WISS conformity WISS conformity RSBP classification to CD-0033 F1a Cleanroom class 150 class 7 Protection class 1940 Ambient temperature 050 °C Impact energy it the end positions At maximum homing speed of 0.01 m/s Area moment of inertia 2nd degree ly 100 F0 on Nax. drive torque Max. force F2 Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fy for the guide calculation for a service life of 5000 km or 5 million cycles Max. torque MX Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx. torque MX Mx. to	Assembly position	Any
Design structure  Motor type  Stepper motor Servomotor  Measuring method: displacement encoder  Position detection  For proximity sensor For inductive sensors  Max. acceleration  Max.	Guide	Recirculating ball bearing guide
Measuring method: displacement encoder  Measuring method: displacement encoder  Incremental  For proximity sensor For inductive sensors  Max. acceleration  Is m/s2  Max. speed  1.2 m/s  Repetition accuracy  1.2 m/s  Repetition accuracy  1.2 m/s  Repetition accuracy  1.2 m/s  Repetition accuracy  1.3 mm  1.4 mm  1.5 m/s  Repetition accuracy  1.0 mm  1.1 mm  1.2 m/s  Repetition accuracy  1.0 mm  1.1 mm  1.2 m/s  Repetition accuracy  1.2 m/s  Repetition accuracy  1.2 m/s  Repetition accuracy  1.3 mm  1.4 mm  1.4 mm  1.5 mm  1.5 colors  1.5 colors  1.6 colors  1.7 mm  1.8	Design structure	Electromechanical linear axis
Measuring method: displacement encoder  Measuring method: displacement encoder  Position detection  For proximity sensor For inductive sensors  Max. acceleration  Max. apped  1.2 m/s  Repetition accuracy  10,1 mm  Duty cycle  100 %  RSBP classification to CD-0033  F1a  Cleanroom class  150 class 7  Protection class  1P40  Ambient temperature  0 50 °C  Impact energy in end positions  Note on the impact energy it the end positions  Area moment of inertia 2nd degree ly  140E+03 mm4  Area moment of inertia 2nd degree ly  140E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Area moment of inertia 2nd		With toothed belt
Measuring method: displacement encoder Position detection For proximity sensor For inductive sensors  Max. acceleration 15 m/s2  Max. speed 1.2 m/s Repetition accuracy 20,1 mm  Duty cycle 100 % PWIS conformity VDMA24364 zone III RSBP classification to CD-0033 F1a Cleanroom class F1a Cleanroom class F1bo class 7 Protection class	Motor type	Stepper motor
Position detection  Max. acceleration  Max. acceleration  15 m/s2  Max. speed  1.2 m/s  Repetition accuracy  40,1 mm  100 %  PWIS conformity  VDMA24364 zone III  RSBP classification to CD-0033  F1a  Cleanroom class  ISO class 7  Protection class  IP40  Ambient temperature  0 50 °C  Impact energy in end positions  Note on the impact energy it the end positions  At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly  Area moment of inertia 2nd degree ly  140E+03 mm4  Max. drive torque  Max. force Fy  Fy for the guide calculation for a service life of 5000 km or 5 million cycles  Fy for the guide calculation for a service life of 5000 km or 5 million cycles  Fy with theoretical service life of 100 km (from a guide perspective only)  Max. torque My  Max		Servomotor
For inductive sensors  Max. acceleration  15 m/s2  Max. speed  1.2 m/s  Repetition accuracy  20,1 mm  Duty cycle  100 %  PWIS conformity  NDMA24364 zone III  RSSP classification to CD-0033  F1a  Cleanroom class  ISO class 7  Protection class  IP40  Ambient temperature  050°C  Impact energy in end positions  At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly  Area moment of inertia 2nd degree ly  140E+03 mm4  Area moment of inertia 2nd degree ly  170E+03 mm4  Max. force Fy  300 N  Max. force Fy  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fy with theoretical service life of 100 km (from a guide perspective only)  Max. torque MX  Max. torque MX  Max. torque My  Max.	Measuring method: displacement encoder	Incremental
For inductive sensors	Position detection	For proximity sensor
Max. speed Repetition accuracy 20,1 mm 20,1 mm 20,1 mm 20 wh 20,1 mm 20 wh 20,1 mm 20 wh 20,1 mm 20 wh		
Repetition accuracy ±0.1 mm  Duty cycle 100 %  PWIS conformity VDMA24364 zone III  RSBP classification to CD-0033 F1a  Cleanroom class ISO class 7  Protection class IP40 50 °C  Impact energy in end positions 1025 mJ  Note on the impact energy it the end positions At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly 1A0E+03 mm4  Area moment of inertia 2nd degree ly 170E+03 mm4  Area moment of inertia 2nd degree lz 170E+03 mm4  Max. drive torque 0.716 Nm  Max. force Fy 300 N  Max. for the guide calculation for a service life of 5000 km or 5 million cycles Show N  Max. torque Mx 5.5 Nm  Max. torque Mx 5.5 Nm  Max. torque My 4.7 Nm  Max. torque Mz  Mx for the guide calculation for a service life of 5000 km or 5 million cycles Show M  Mx for the guide calculation for a service life of 5000 km or 5 million cycles Show M  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) Hy with theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical ser	Max. acceleration	15 m/s2
Repetition accuracy ±0.1 mm  Duty cycle 100 %  PWIS conformity VDMA24364 zone III  RSBP classification to CD-0033 F1a  Cleanroom class ISO class 7  Protection class IP40 50 °C  Impact energy in end positions 1025 mJ  Note on the impact energy it the end positions At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly 1A0E+03 mm4  Area moment of inertia 2nd degree ly 170E+03 mm4  Area moment of inertia 2nd degree lz 170E+03 mm4  Max. drive torque 0.716 Nm  Max. force Fy 300 N  Max. for the guide calculation for a service life of 5000 km or 5 million cycles Show N  Max. torque Mx 5.5 Nm  Max. torque Mx 5.5 Nm  Max. torque My 4.7 Nm  Max. torque Mz  Mx for the guide calculation for a service life of 5000 km or 5 million cycles Show M  Mx for the guide calculation for a service life of 5000 km or 5 million cycles Show M  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) Hy with theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical service life of 100 km (from a guide perspective only) Hy mith theoretical ser	Max. speed	1.2 m/s
Duty cycle  PMIS conformity  NDMA24364 zone III  RSBP classification to CD-0033  F1a  Cleanroom class  ISO class 7  Protection class  IP40  Ambient temperature  050 °C  Impact energy in end positions  Note on the impact energy it the end positions  At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly  140E+03 mm4  Area moment of inertia 2nd degree ly  170E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Max. force Fy  300 N  600 N  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles Fy with theoretical service life of 100 km (from a guide perspective only)  Rax. torque Mx  5.5 Nm  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque My  Max. for the guide calculation for a service life of 5000 km or 5 million cycles So N  So N  So N  Area moment of inertia cannow or a million cycles So N  Area moment of inertia cannow or a million cycles So N  Max. torque Mx  Max. torque My  Max. torque My  Max. torque My  Max. torque Mz  Max for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles 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	Repetition accuracy	±0,1 mm
PWIS conformity RSBP classification to CD-0033 F1a ISO class 7 Protection class IP40 Ambient temperature 050 °C Impact energy in end positions Note on the impact energy if the end positions Area moment of inertia 2nd degree ly Area moment of inertia 2nd degree la d		100 %
Cleanroom class Protection class Protect	PWIS conformity	VDMA24364 zone III
Protection class Ambient temperature 0 50 °C Impact energy in end positions O.125 mJ Note on the impact energy it the end positions At maximum homing speed of 0.01 m/s Area moment of inertia 2nd degree ly 140E+03 mm4 Area moment of inertia 2nd degree lz 170E+03 mm4 Area moment of inertia 2nd degree lz 170E+03 mm4 Max. drive torque 0.716 Nm Max. force Fy 300 N Max. force Fz 600 N Fy for the guide calculation for a service life of 5000 km or 5 million cycles 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 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles So N  Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service	RSBP classification to CD-0033	F1a
Protection class Ambient temperature 0 50 °C Impact energy in end positions O.125 mJ Note on the impact energy it the end positions At maximum homing speed of 0.01 m/s Area moment of inertia 2nd degree ly 140E+03 mm4 Area moment of inertia 2nd degree lz 170E+03 mm4 Area moment of inertia 2nd degree lz 170E+03 mm4 Max. drive torque 0.716 Nm Max. force Fy 300 N Max. force Fz 600 N Fy for the guide calculation for a service life of 5000 km or 5 million cycles 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 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles So N  Max. torque Mx 5.5 Nm Max. torque My 4.7 Nm Max. torque Mz Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service	Cleanroom class	ISO class 7
Impact energy in end positions  Note on the impact energy it the end positions  At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly  140E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Max. drive torque  0.716 Nm  Max. force Fy  300 N  Max. force Fz  600 N  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles 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)  Axx. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Mx tor the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles Ny for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles 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) Mz with theoretical service life of 100 km (from a guide perspective only)  17 Nm	Protection class	
Impact energy in end positions  Note on the impact energy it the end positions  At maximum homing speed of 0.01 m/s  Area moment of inertia 2nd degree ly  140E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Area moment of inertia 2nd degree lz  170E+03 mm4  Max. drive torque  0.716 Nm  Max. force Fy  300 N  Max. force Fz  600 N  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles 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)  Axx. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Mx tor the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles Ny for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles 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) Mz with theoretical service life of 100 km (from a guide perspective only)  17 Nm	Ambient temperature	0 50 °C
Note on the impact energy it the end positions Area moment of inertia 2nd degree ly 140E+03 mm4 Area moment of inertia 2nd degree lz 170E+03 mm4 Area moment of inertia 2nd degree lz 170E+03 mm4 Max. drive torque 0.716 Nm Max. force Fy 300 N Max. force Fz Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles Fy with theoretical service life of 100 km (from a guide perspective only) Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 170E+03 mm4 Area moment of inertia 2nd degree ly 1800 N Ason N As		0.125 mJ
Area moment of inertia 2nd degree ly  Area moment of inertia 2nd degree lz  170E+03 mm4  170E+03 mm4  0.716 Nm  Max. drive torque  0.716 Nm  Max. force Fy  300 N  Max. force Fz  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles 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. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles Mz for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles Mx for the guide calculation for a service life of 5000 km or 5 million cycles 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)  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)	Note on the impact energy it the end positions	At maximum homing speed of 0.01 m/s
Area moment of inertia 2nd degree Iz  Max. drive torque  0.716 Nm  Max. force Fy  300 N  Max. force Fz  600 N  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles Fy with theoretical service life of 100 km (from a guide perspective only)  Max. idling displacement resistance  7.8 N  Max. torque Mx  Max. torque My  Max. torque Mz  Max. torque Mz  Max. torque Mz  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  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)  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)  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)  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)  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)  My with theoretical service life of 100 k		
Max. drive torque  Max. force Fy  300 N  Max. force Fz  600 N  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fz for the guide calculation for a service life of 5000 km or 5 million cycles 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) Aux. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque My  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  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)  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)  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)  My with theoretical service life of 100 km (from a guide perspective only)		170E+03 mm4
Max. force Fz  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fy for the guide calculation for a service life of 5000 km or 5 million cycles 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. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles To the guide calculation for a service life of 5000 km or 5 million cycles 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) 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) 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. drive torque	0.716 Nm
Max. force Fz  Fy for the guide calculation for a service life of 5000 km or 5 million cycles Fy for the guide calculation for a service life of 5000 km or 5 million cycles 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. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles My for the guide calculation for a service life of 5000 km or 5 million cycles To the guide calculation for a service life of 5000 km or 5 million cycles 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) 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) 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. force Fy	300 N
Fz for the guide calculation for a service life of 5000 km or 5 million cycles  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)  Ax. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Mx. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  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)	· · · · · · · · · · · · · · · · · · ·	600 N
Fz for the guide calculation for a service life of 5000 km or 5 million cycles  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)  Ax. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Mx. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  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)	Fy for the guide calculation for a service life of 5000 km or 5 million cycles	880 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)  Max. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  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)		880 N
Fz with theoretical service life of 100 km (from a guide perspective only)  Max. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  Mz 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)  17 Nm	Fy with theoretical service life of 100 km (from a guide perspective only)	3,240 N
Max. idling displacement resistance  7.8 N  Max. torque Mx  5.5 Nm  Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  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)  17 Nm	Fz with theoretical service life of 100 km (from a guide perspective only)	3,240 N
Max. torque Mx  Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  4.7 Nm  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  Az 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)  17 Nm	Max. idling displacement resistance	
Max. torque My  4.7 Nm  Max. torque Mz  4.7 Nm  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  4.7 Nm  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  4.7 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)	Max. torque Mx	
Max. torque Mz  Mx for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  My for the guide calculation for a service life of 5000 km or 5 million cycles  Mz for the guide calculation for a service life of 5000 km or 5 million cycles  4.7 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)  17 Nm	,	4.7 Nm
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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)  17 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)  17 Nm  17 Nm		
Mz with theoretical service life of 100 km (from a guide perspective only) 17 Nm		
	Distance between the slide surface and the centre of the guide	42.8 mm



Feature	Value
Max. feed force Fx	75 N
No-load driving torque	0.075 Nm
Torsional mass moment of inertia It	8.5E+03 mm4
Mass moment of inertia JH per metre of stroke	0.0281 kgcm2
Mass moment of inertia JL per kg of working load	0.9119 kgcm2
Mass moment of inertia, JO	0.1862 kgcm2
Feed constant	60 mm/U
Maintenance interval	Life-time lubrication
Moving mass	169 g
Moving mass with 0 mm stroke	169 g
Slide weight	55 g
Product weight	2,135 g
Basic weight for 0 mm stroke	760 g
Additional weight per 10 mm stroke	23 g
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm
Static deflection (load at standstill)	0.1% of the axis length
Interface code, actuator	V32
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	Stainless steel strip
Material drive cover	Die-cast aluminium, painted
Material guide slide	Heat-treatment steel
Material guide rail	Heat-treatment steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Aluminium die cast
Material toothed belt	Polychloroprene with glass fibres