toothed belt axis unit ELGS-TB-KF-60-1200-ST-M-H1-PLK-AA Part number: 8083576





Data sheet

Value
24.83 mm
1,200 mm
60
0 mm
0.124 %
3 mm
Horizontal
Recirculating ball bearing guide
Electromechanical linear axis
With toothed belt
With integrated drive
Stepper motor
Motor encoder
For proximity sensor
Fixed stop block positive
Fixed stop block negative
Absolute single turn encoder
Magnetic
Shutdown at over-temperature
Integrated precise CMOS temperature sensor with analogue output
User interface
Integrated end-position sensing
LED
LED
6 m/s2
1.3 m/s
±0,1 mm
configurable
Not electrically isolated
100 %
В
100 mA
5.3 A
24 V
5.3 A
IO-Link
User interface
16 Bit
+/- 15 %
Plug
M12x1, T-coded to EN 61076-2-111
4
RCM Mark
KC-EMV
to EU directive for EMC
in accordance with EU RoHS directive



Feature	Value
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
PWIS conformity	VDMA24364 zone III
Storage temperature	-20 60 °C
Relative air humidity	0 - 90 %
Protection class	IP40
Safety class	III
Ambient temperature	0 50 °C
Note on ambient temperature	Above an ambient temperature of 30 °C, the power must be reduced by 2% per K.
Area moment of inertia 2nd degree ly	441E+03 mm4
Area moment of inertia 2nd degree Iz	542E+03 mm4
Max. force Fy	600 N
Max. force Fz	1,800 N
Max. torque Mx	29.1 Nm
Max. torque My	31.8 Nm
Max. torque Mz	31.8 Nm
Max. feed force Fx	65 N
Reference value for working load, horizontal	4 kg
Torsional mass moment of inertia It	29.8E+03 mm4
Feed constant	78 mm/U
Moving mass	482 g
Moving mass with 0 mm stroke	482 g
Slide weight	139 g
Product weight	8,115 g
Number of 24 V DC digital logic outputs	2
Number of digital logic inputs	2
Specification, logic input	Based on IEC 61131-2, type 1
Logic input working range	24 V
IO-Link, SIO mode support	Yes
Logic input characteristics	configurable Not electrically isolated
IO-Link, protocol	Device V 1.1
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, port type	A
IO-Link, number of ports	1
IO-Link, process data width OUT	2 Byte
IO-Link, process data content OUT	1 bit (Move in)
	1 bit (Move out)
	1 bit (Quit Error)
IO-Link, process data width IN	2 Byte
IO-Link, process data content IN	1 bit (State Device)
	1 bit (State Move)
	1 bit (State in)
	1 bit (State out)
IO-Link, Service data contents IN	32 bit Force
	32 bit Position
10.11.1	32 bit Speed
IO-Link, minimum cycle time	1 ms
IO-Link, data memory required	0.5 Kilobyte
Max. line length	15 m outputs
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	PNP (positive-switching)
Input circuit logic	PNP (positive-switching)
IO-Link, connection technology	Plug
Logic interface, connection type	Plug



Feature	Value
Logic interface, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
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