



High Rigidity and High Precision - LEKFS LEKFS16EA-500-R5CPF8

Datasheet

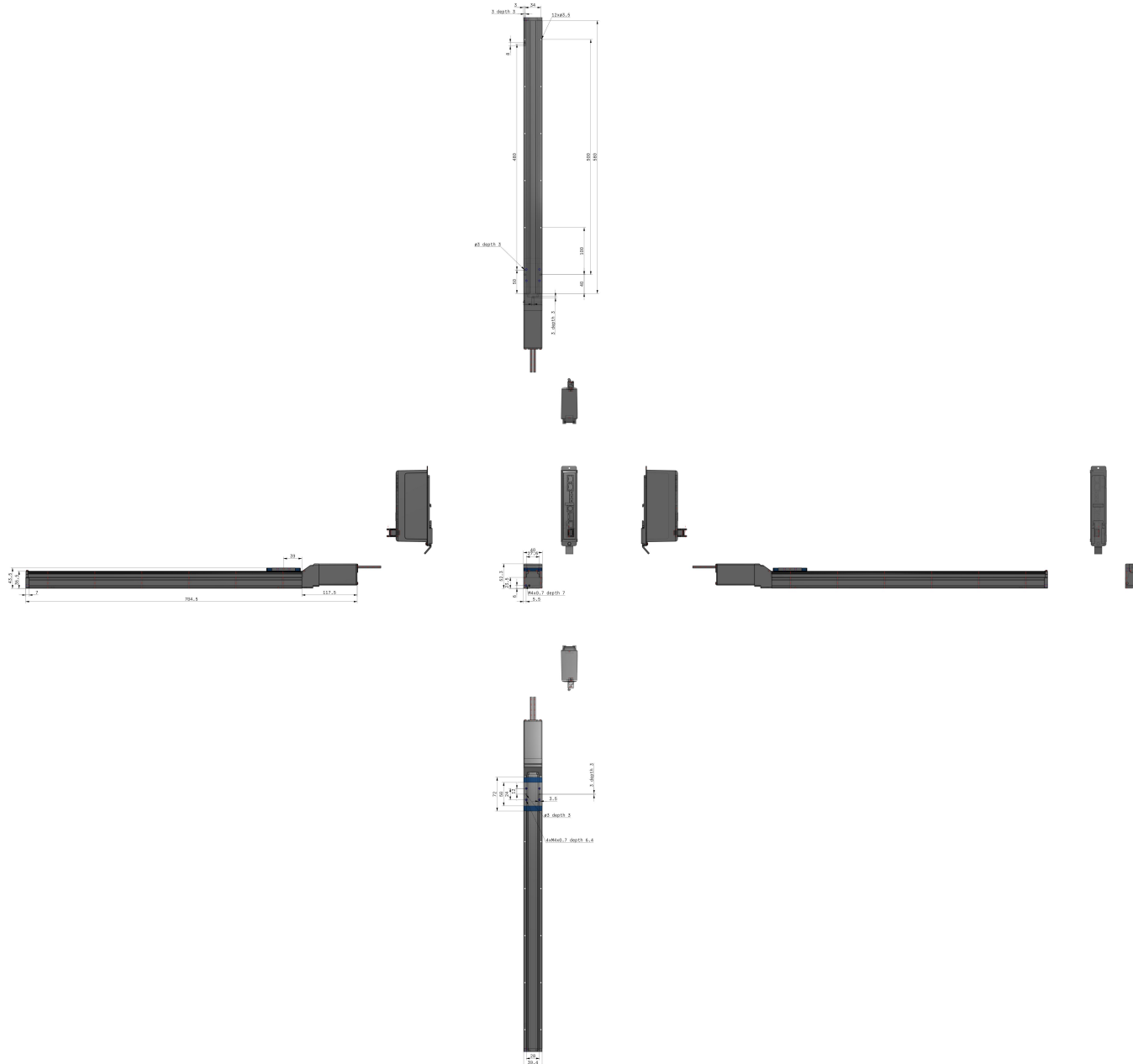
General series information

- Body size: 16, 25, 32 and 40 mm
- Stroke: 50 to 1200 mm
- Acceleration: up to 3000 mm/s²
- Speed: up to 1200 mm/s
- Step motor type
- Compatible encoder: battery-less absolute.

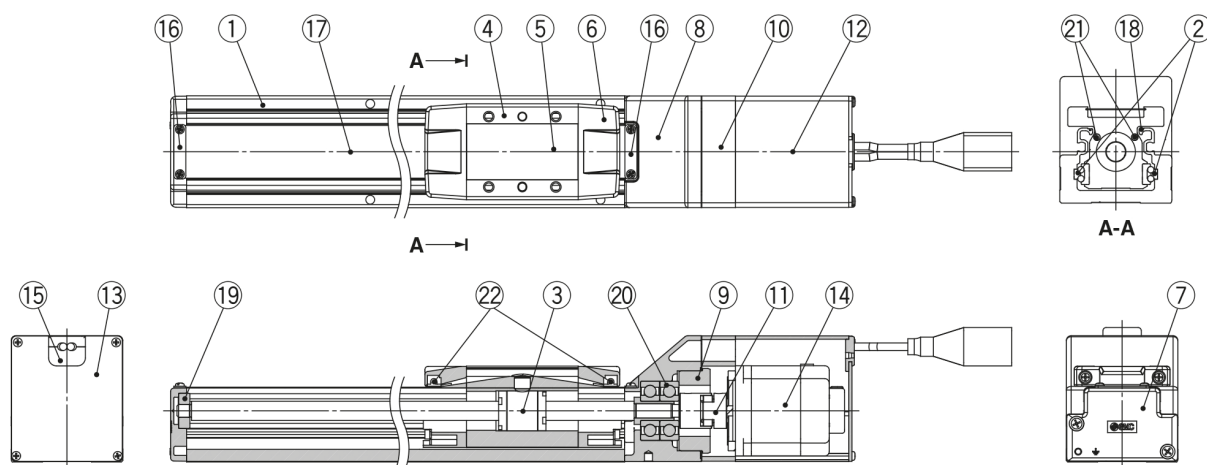
Standard specifications

Series	LEKFS
Size	16
Motor Mounting Position	In-line
Motor Type	E (Battery-less absolute, 24 VDC)
Lead	A (Size 16: 10 mm, Size 25: 12 mm, Size 32: 16 mm, Size 40: 20 mm)
Stroke	500
Motor Option	Without Option
Seal Band Stopper	Standard
Actuator Cable Length	R5 (5)
Controller	CPF (PROFINET® with STO Sub-Function)
Controller Mounting	8 (DIN Rail Mounting)
Communication Plug Connector, I/O Cable	None
Maximum ambient temperature	40 °C
Minimum ambient temperature	5 °C
General power supply	24 VDC ±10 %
Conform to the European RoHS Directive	Conform

Approvals	CE, UKCA
Impact/Vibration resistance	50/20 m/s ²
Actuation type	Ball screw (LEKFS#), Ball screw + Belt (LEKFS#R/L)
Motor type	Step motor (Servo 24 VDC)
Encoder	Battery-less absolute
Power supply	51 W
Horizontal work load	14 Kg
Vertical work load	2 Kg
Speed	10 - 600 mm/s
Max. Acceleration/deceleration	3000 mm/s ²
Operating humidity range	90 % RH or less (No condensation)
Positioning repeatability	±0.01 (Lead H: ±0.02) mm
Lost motion	≤ 0.05 mm
Lock: Holding force	20 W
Guide type	Linear guide
Motor size	28
Lock unit type	Non-magnetising lock
Lock unit power consumption	2,9 W
Technical graph 1	8655AA_graph1_en.jpg



Constructions



Component Parts

No.	Description	Material	Note
1	Body	Aluminium alloy	Anodised
2	Rail guide	—	
3	Ball screw assembly	—	
4	Table	Aluminium alloy	Anodised
5	Blanking plate	Aluminium alloy	Anodised
6	Seal band holder	Synthetic resin	
7	Housing A	Aluminium die-casted	Coating
8	Housing B	Aluminium die-casted	Coating
9	Bearing stopper	Aluminium alloy	
10	Motor mount	Aluminium alloy	Coating
11	Coupling	—	
12	Motor cover	Aluminium alloy	Anodised
13	End cover	Aluminium alloy	Anodised
14	Motor	—	

No.	Description	Material	Note
15	Rubber bushing	NBR	
16	Band stopper	Stainless steel	
17	Dust seal band	Stainless steel	
18	Seal magnet	—	
19	Bearing	—	Stroke 300 mm or more
20	Bearing	—	
21	Magnet	—	
22	Roller assembly	—	Without grease application

Additional information

Catalogue	LEKFS-B_EU.pdf
Declaration of conformity	newDoC_LEKF_TF125-478EN.pdf
Installation manuals	IM_LEKFSxE_TF2Z241EN-B.pdf
Operation manuals	OM_LEKF_stepDC-servoDC_EN-B.pdf