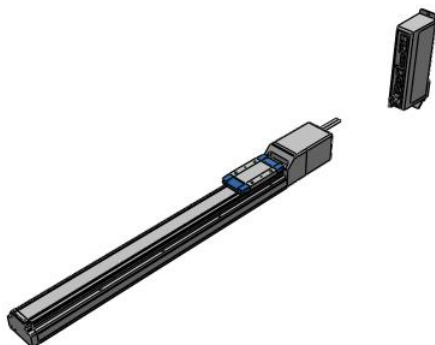




## High Rigidity and High Precision - LEKFS LEKFS25EA-400-R5CPF8

Datasheet

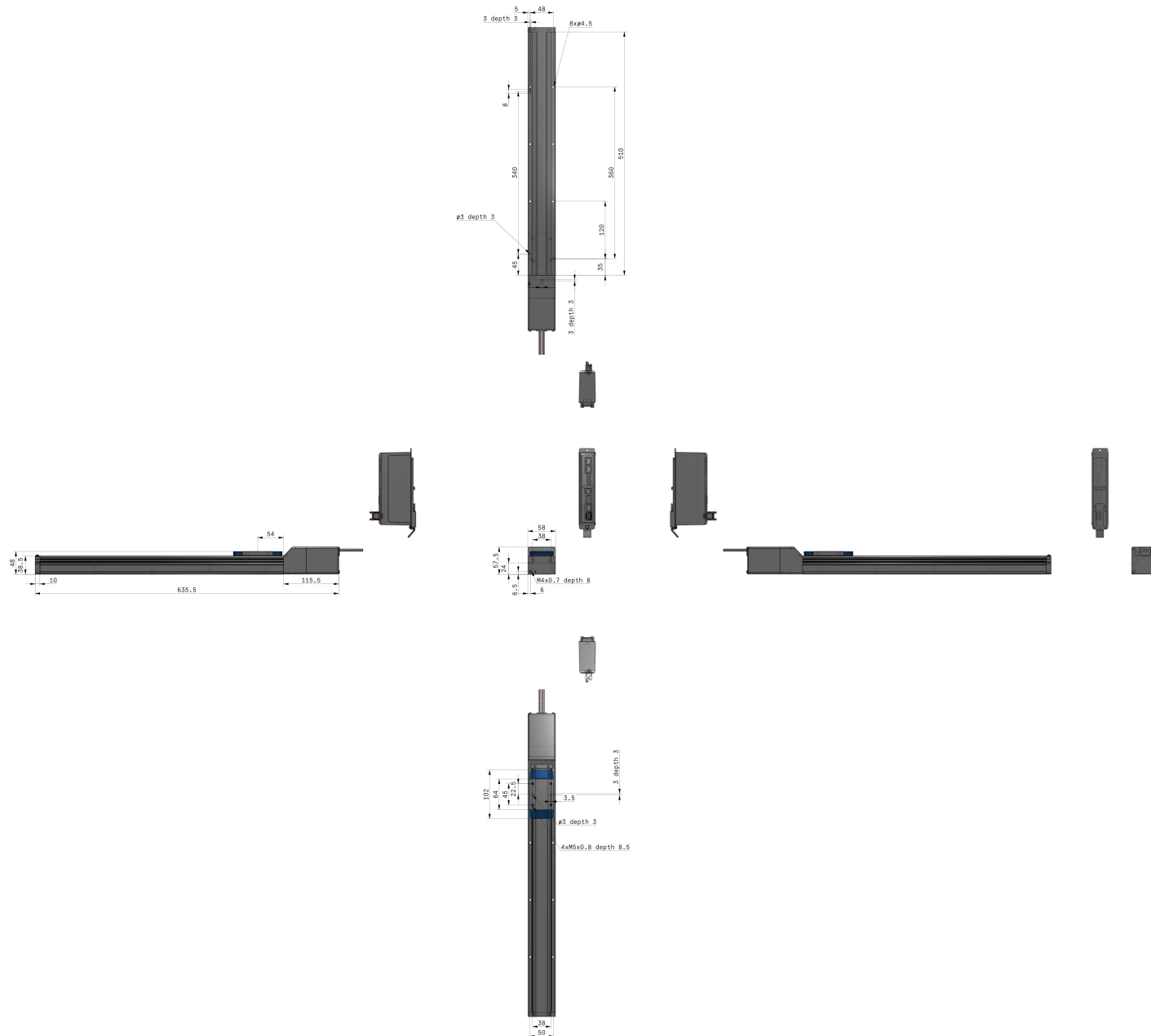
### General series information

- Body size: 16, 25, 32 and 40 mm
- Stroke: 50 to 1200 mm
- Acceleration: up to 3000 mm/s<sup>2</sup>
- Speed: up to 1200 mm/s
- Step motor type
- Compatible encoder: battery-less absolute.

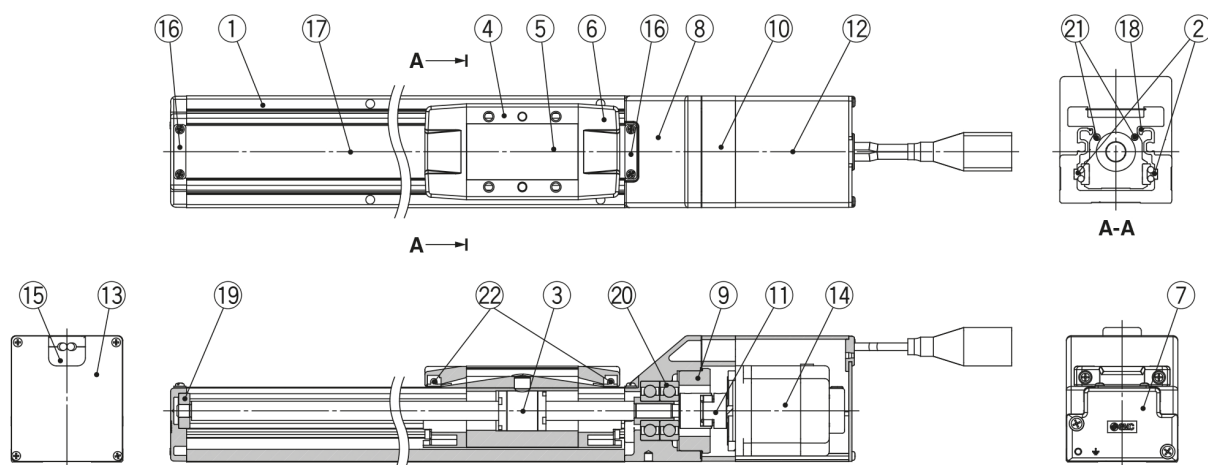
### Standard specifications

|                                         |                                                                    |
|-----------------------------------------|--------------------------------------------------------------------|
| Series                                  | LEKFS                                                              |
| Size                                    | 25                                                                 |
| 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                                  | 400                                                                |
| 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 <sup>2</sup>                             |
| Actuation type                 | Ball screw (LEKFS#), Ball screw + Belt (LEKFS#R/L) |
| Motor type                     | Step motor (Servo 24 VDC)                          |
| Encoder                        | Battery-less absolute                              |
| Power supply                   | 57 W                                               |
| Horizontal work load           | 25 Kg                                              |
| Vertical work load             | 7,5 Kg                                             |
| Speed                          | 12 - 750 mm/s                                      |
| Max. Acceleration/deceleration | 3000 mm/s <sup>2</sup>                             |
| 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            | 78 W                                               |
| Guide type                     | Linear guide                                       |
| Motor size                     | 42                                                 |
| Lock unit type                 | Non-magnetising lock                               |
| Lock unit power consumption    | 5 W                                                |
| Technical graph 1              | 8655AA_graph2_en.jpg                               |



## Constructions



### Component Parts

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

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

## Additional information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Catalogue                 | <a href="#">LEKFS-B_EU.pdf</a>                  |
| Declaration of conformity | <a href="#">newDoC_LEKF_TF125-478EN.pdf</a>     |
| Installation manuals      | <a href="#">IM_LEKFSxE_TF2Z241EN-B.pdf</a>      |
| Operation manuals         | <a href="#">OM_LEKF_stepDC-servoDC_EN-B.pdf</a> |