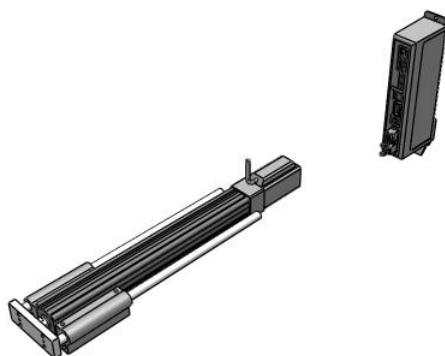




## Standard Type - LEYG LEYG16MDA-200C-R5CEF8

### Datasheet

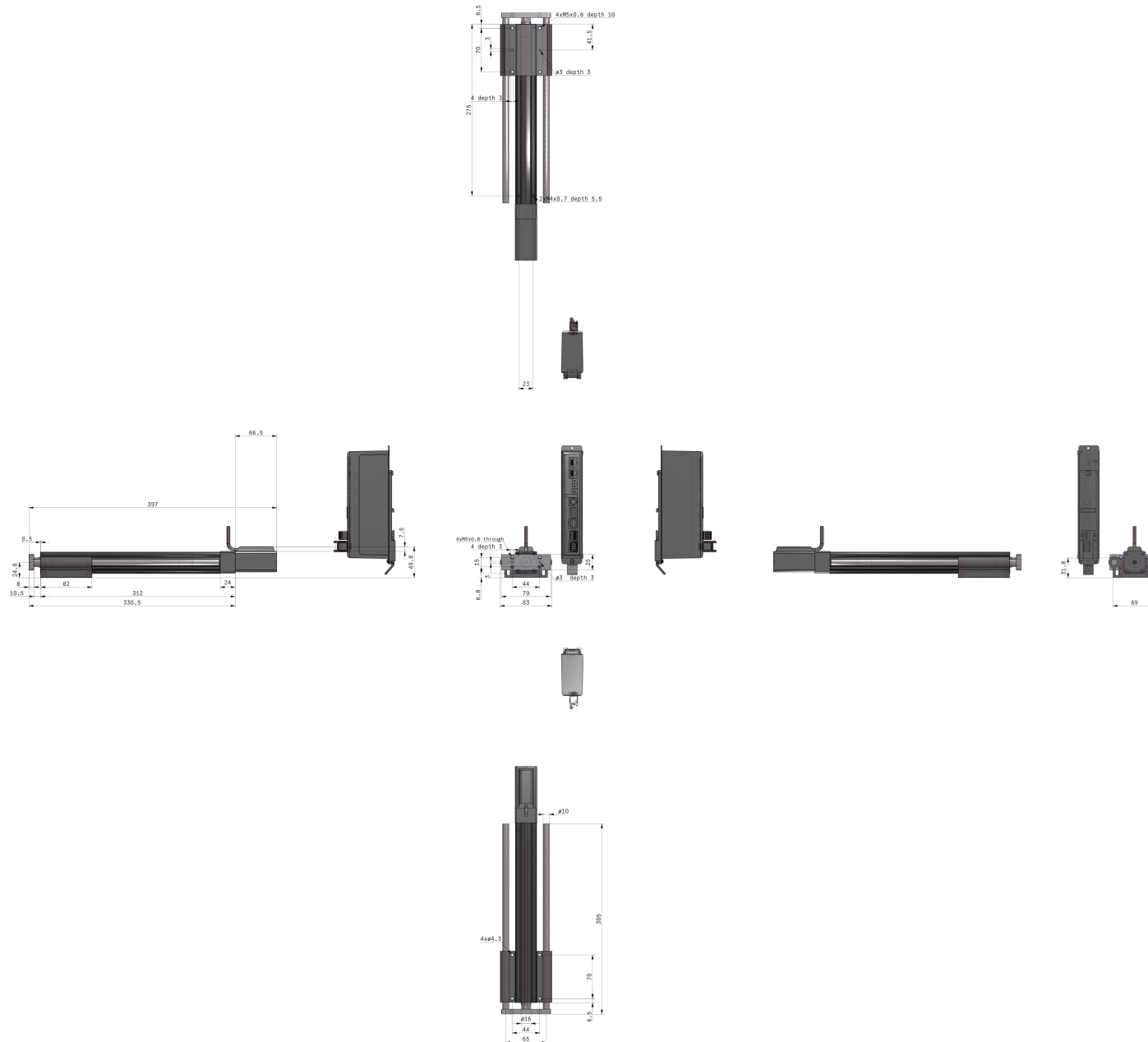
### General series information

- Body size: 16, 25, 32 and 40 mm.
- Stroke: 30 to 300 mm.
- Speed control/Positioning: Max. 64 points.
- Positioning and pushing control can be selected.

### Standard specifications

|                                                                  |                                                    |
|------------------------------------------------------------------|----------------------------------------------------|
| Size                                                             | 16                                                 |
| Bearing                                                          | M (Slide Bearing)                                  |
| Mounting Position                                                | D (In-line)                                        |
| Motor                                                            | Step Motor (Servo 24 VDC)                          |
| Lead Screw                                                       | A (Size 16: 10 mm, Size 25: 12 mm, Size 32: 16 mm) |
| Stroke                                                           | 200 mm                                             |
| Motor Option                                                     | C (w/Motor Cover)                                  |
| Guide Option                                                     | Without Option                                     |
| Actuator Cable                                                   | R (Robotic Flexible Cable)                         |
| Actuator Cable Length                                            | 5 (5m)                                             |
| Controller                                                       | C (JXC, Step Motor Controller)                     |
| I/O cabling for LEC controllers                                  | Without Cable                                      |
| Protocol                                                         | E (EtherCAT®)                                      |
| Suffix                                                           | F (With STO Sub-Function)                          |
| Controller Mounting                                              | 8 (DIN Rail)                                       |
| I/O cabling for JXC Controllers and communication plug connector | None                                               |
| Maximum ambient temperature                                      | 40 °C                                              |
| Minimum ambient temperature                                      | 5 °C                                               |

|                                |                                            |
|--------------------------------|--------------------------------------------|
| General power supply           | 24 V DC                                    |
| Approvals                      | CE                                         |
| Pushing speed                  | 50 mm/s max.                               |
| Impact/Vibration resistance    | 50/20 m/s <sup>2</sup>                     |
| Encoder                        | Incremental A/B phase (800 pulse/rotation) |
| Horizontal work load           | 10 kg                                      |
| Vertical work load             | 1.5 kg                                     |
| Speed                          | 15 - 500 mm/s                              |
| Max. Acceleration/deceleration | 3000 mm/s <sup>2</sup>                     |
| Positioning repeatability      | ± 0.02 mm                                  |
| Lost motion                    | 0.1 max.                                   |
| Pushing force                  | 14 - 38 N                                  |



## Constructions

**Motor top mounting type**



**Motor top mounting type  
With lock/motor cover**



**In-line motor type**



**In-line motor type  
With lock/motor cover**



## LEYG□M



LEYG<sup>16</sup><sub>25</sub><sub>32</sub><sub>40</sub>M: 50st or less



LEYG<sup>16</sup><sub>25</sub><sub>32</sub><sub>40</sub>M: Over 50st

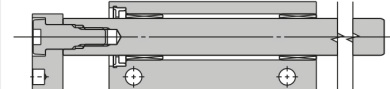


When grease retaining function selected

LEYG<sup>25</sup><sub>32</sub><sub>40</sub>M□□<sup>A</sup><sub>B</sub>-□□F: 50st or less



LEYG<sup>25</sup><sub>32</sub><sub>40</sub>M□□<sup>A</sup><sub>B</sub>-□□F: Over 50st



## LEYG□L



LEYG16L: 30st or less

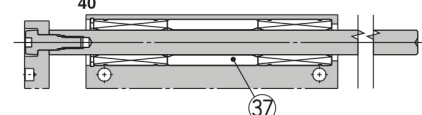
LEYG<sup>25</sup><sub>32</sub><sub>40</sub>L: 100st or less



LEYG16L: Over 30st, 100st or less



LEYG<sup>16</sup><sub>25</sub><sub>32</sub><sub>40</sub>L: Over 100st



## Component Parts

| No. | Description        | Material                    | Note                    |
|-----|--------------------|-----------------------------|-------------------------|
| 1   | Body               | Aluminium alloy             | Anodised                |
| 2   | Ball screw shaft   | Alloy steel                 |                         |
| 3   | Ball screw nut     | Synthetic resin/Alloy steel |                         |
| 4   | Piston             | Aluminium alloy             |                         |
| 5   | Piston rod         | Stainless steel             | Hard chrome plating     |
| 6   | Rod cover          | Aluminium alloy             |                         |
| 7   | Bearing holder     | Aluminium alloy             |                         |
| 8   | Rotation stopper   | POM                         |                         |
| 9   | Socket             | Free cutting carbon steel   | Nickel plating          |
| 10  | Connected shaft    | Free cutting carbon steel   | Nickel plating          |
| 11  | Bushing            | Bearing alloy               |                         |
| 12  | Bearing            | —                           |                         |
| 13  | Return box         | Aluminium die-cast          | Coating                 |
| 14  | Return plate       | Aluminium die-cast          | Coating                 |
| 15  | Magnet             | —                           |                         |
| 16  | Wear ring holder   | Stainless steel             | Stroke 101 mm or more   |
| 17  | Wear ring          | POM                         | Stroke 101 mm or more   |
| 18  | Screw shaft pulley | Aluminium alloy             |                         |
| 19  | Motor pulley       | Aluminium alloy             |                         |
| 20  | Belt               | —                           |                         |
| 21  | Parallel pin       | Stainless steel             |                         |
| 22  | Seal               | NBR                         |                         |
| 23  | Retaining ring     | Steel for spring            | Phosphate coated        |
| 24  | Motor              | —                           |                         |
| 25  | Motor cover        | Synthetic resin             | Only "With motor cover" |
| 26  | Grommet            | Synthetic resin             | Only "With motor cover" |
| 27  | Guide attachment   | Aluminium alloy             | Anodised                |

| No. | Description              | Material         | Note                         |
|-----|--------------------------|------------------|------------------------------|
| 28  | Guide rod                | Carbon steel     |                              |
| 29  | Plate                    | Aluminium alloy  | Anodised                     |
| 30  | Plate mounting cap screw | Carbon steel     | Nickel plating               |
| 31  | Guide cap screw          | Carbon steel     | Nickel plating               |
| 32  | Sliding bearing          | Bearing alloy    |                              |
| 33  | Lube-retainer            | Felt             |                              |
| 34  | Holder                   | Resin            |                              |
| 35  | Retaining ring           | Steel for spring | Phosphate coated             |
| 36  | Ball bushing             | —                |                              |
| 37  | Spacer                   | Aluminium alloy  | Chromated                    |
| 38  | Motor block              | Aluminium alloy  | Anodised                     |
| 39  | Motor adapter            | Aluminium alloy  | Anodised/LEYG16, 25 only     |
| 40  | Hub                      | Aluminium alloy  |                              |
| 41  | Spider                   | NBR              |                              |
| 42  | Motor cover with lock    | Aluminium alloy  | Only "With lock/motor cover" |
| 43  | Cover support            | Aluminium alloy  | Only "With lock/motor cover" |

## Additional information

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| Catalogue                 | <a href="#">LEY-F_EU.pdf</a>                                                                          |
| Declaration of conformity | <a href="#">newDoC_LEY_TF125-487EN.pdf</a><br><a href="#">newDoc_LEY_LEYG_stepDC-servoDC_EN-A.pdf</a> |
| Installation manuals      | <a href="#">IM_LEYG_StepDC_EN-C.pdf</a>                                                               |
| Operation manuals         | <a href="#">OM_LEY_LEYG_stepDC_servoDC_EN.pdf</a>                                                     |