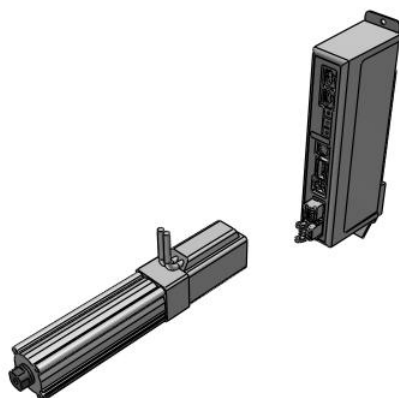




## Standard Type - LEY LEY16DA-50C-R5C9F8

### Datasheet

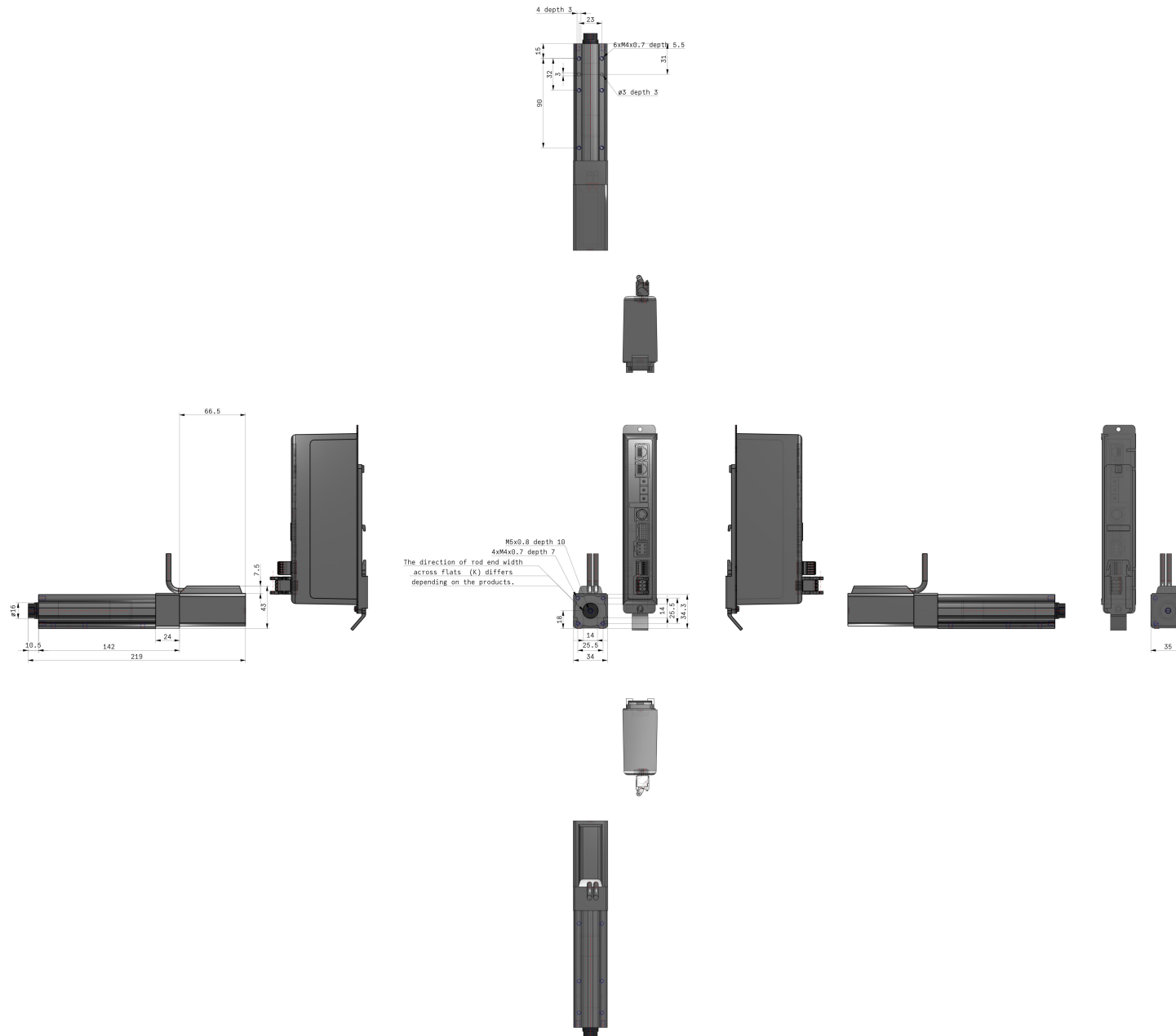
### General series information

- Body size: 16, 25, 32 and 40 mm
- Stroke: 30 to 500 mm
- Step and servo motor types.

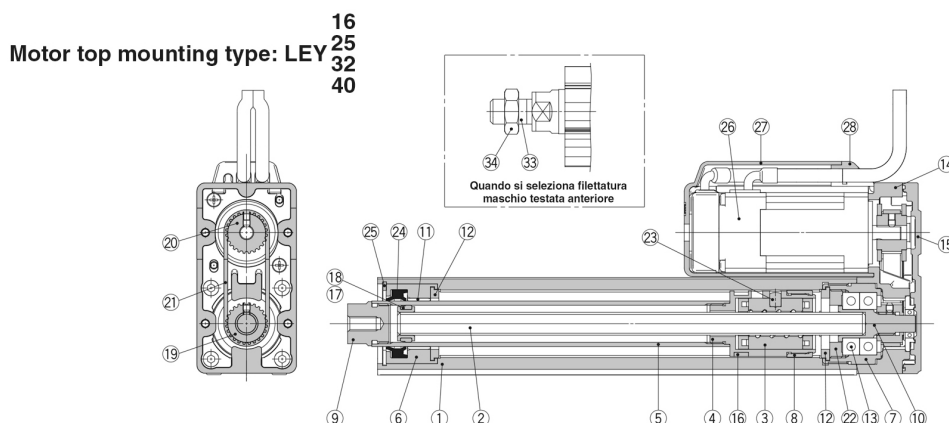
### Standard specifications

|                                                                  |                                                       |
|------------------------------------------------------------------|-------------------------------------------------------|
| Size                                                             | 16                                                    |
| Motor Mounting Position                                          | D (In-line)                                           |
| Motor                                                            | Step Motor (Servo 24 VDC)                             |
| Lead Screw                                                       | A (Size 16: 10 mm, Size 25: 12 mm, Size 32/40: 16 mm) |
| Stroke                                                           | 50 mm                                                 |
| Motor Option                                                     | C (w/Motor Cover)                                     |
| Rod End Thread                                                   | Female                                                |
| Mounting                                                         | Both Ends Tapped (Standard)                           |
| 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                                                         | 9 (EtherNet/IP)                                       |
| 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 VDC ±10 %                                          |

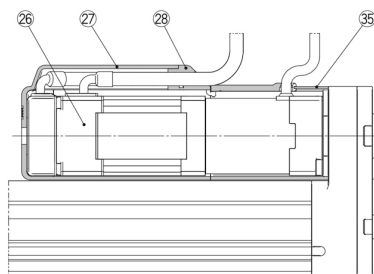
|                                |                                            |
|--------------------------------|--------------------------------------------|
| Approvals                      | UL/cUL;CE                                  |
| Piston rod end                 | External thread                            |
| Male thread of rod end         | M8 x 1.25                                  |
| Pushing speed                  | 50 mm/s or less                            |
| Positioning repeatability      | ± 0.02 mm                                  |
| Lost motion                    | 0.1 mm or less                             |
| 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             | 2 kg                                       |
| Speed                          | 15 - 500 mm/s                              |
| Max. Acceleration/deceleration | 3000 mm/s <sup>2</sup>                     |
| Pushing force                  | 14 - 38 N                                  |



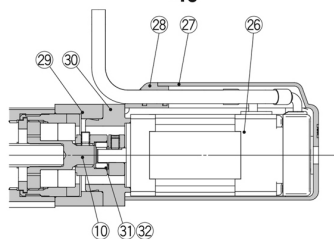
## Constructions



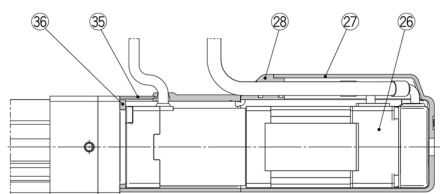
**Motor top/parallel type  
With lock/motor cover**



**In-line motor type: LEY** 16  
25  
32  
40  
D



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



### Component Parts

| No. | Description        | Material                  | Note                  |
|-----|--------------------|---------------------------|-----------------------|
| 1   | Body               | Aluminium alloy           | Anodised              |
| 2   | Ball screw (shaft) | Alloy steel               |                       |
| 3   | Ball screw nut     | Resin/Alloy steel         |                       |
| 4   | Piston             | Aluminium alloy           |                       |
| 5   | Piston rod         | Stainless steel           | Hard chrome plating   |
| 6   | Rod cover          | Aluminium alloy           |                       |
| 7   | Housing            | 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            | Lead bronze cast          |                       |
| 12  | Bumper             | Urethane                  |                       |
| 13  | Bearing            | —                         |                       |
| 14  | Return box         | Aluminium die-cast        | Coating               |
| 15  | Return plate       | Aluminium die-cast        | Coating               |
| 16  | Magnet             | —                         |                       |
| 17  | Wear ring holder   | Stainless steel           | Stroke 101 mm or more |
| 18  | Wear ring          | POM                       | Stroke 101 mm or more |
| 19  | Screw shaft pulley | Aluminium alloy           |                       |
| 20  | Motor pulley       | Aluminium alloy           |                       |
| 21  | Belt               | —                         |                       |
| 22  | Bearing stopper    | Aluminium alloy           |                       |
| 23  | Parallel pin       | Stainless steel           |                       |
| 24  | Seal               | NBR                       |                       |
| 25  | Retaining ring     | Steel for spring          | Phosphate coated      |

| No. | Description           | Material                  | Note                         |
|-----|-----------------------|---------------------------|------------------------------|
| 26  | Motor                 | —                         |                              |
| 27  | Motor cover           | Synthetic resin           | Only "With motor cover"      |
| 28  | Grommet               | Synthetic resin           | Only "With motor cover"      |
| 29  | Motor block           | Aluminium alloy           | Anodised                     |
| 30  | Motor adapter         | Aluminium alloy           | Anodised/LEY16, 25 only      |
| 31  | Hub                   | Aluminium alloy           |                              |
| 32  | Spider                | NBR                       |                              |
| 33  | Socket (Male thread)  | Free cutting carbon steel | Nickel plating               |
| 34  | Nut                   | Alloy steel               |                              |
| 35  | Motor cover with lock | Aluminium alloy           | Only "With lock/motor cover" |
| 36  | Cover support         | Aluminium alloy           | Only "With lock/motor cover" |

## Additional information

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| Catalogue            | <a href="#">LEY-F_EU.pdf</a>                                                                       |
| Installation manuals | <a href="#">IM_LEY_StepDC_EN-C.pdf</a>                                                             |
| Operation manuals    | <a href="#">OM_LEY_LEYG_StepDC_LEC_EN.pdf</a><br><a href="#">OM_LEY_LEYG_stepDC_servoDC_EN.pdf</a> |