



## MLF32-300-ZR-W2-FA517.2-FBALG [↗](#)

### Módulo lineal

Actuators with external track roller guidance system and toothed belt drive. With support rail in three segments, second, driven carriage and bellows

## Información técnica



### Variante de su producto actual

|                     |         |                         |
|---------------------|---------|-------------------------|
| Size code           | 32      |                         |
| Length of carriage  | 300     | 300 mm                  |
| Carriage design     | /       | Carro estándar          |
| Drive type          | (3)ZR   | Toothed belt drive      |
| Additional carriage | W2      | Second, driven carriage |
| Support rail design | FA517.2 | Three-piece             |
| Bellow              | FBALG   | Yes                     |

### Medidas principales y datos de rendimiento

|                |        |             |
|----------------|--------|-------------|
| B <sub>1</sub> | 86 mm  | Total Width |
| H              | 82 mm  | Altura      |
| L              | 300 mm | Longitud    |

**Medidas de montaje**

|              |         |                  |
|--------------|---------|------------------|
| D 86         | 70 mm   |                  |
| D 87         | 80 mm   | Ø Bolt circle    |
| d 85         | 20 mm   |                  |
| d 86         | 61 mm   | Ø Inner Fit      |
| L 88         | 25 mm   |                  |
| G 43         | M8      | Thread           |
| G 87         | M6      | Thread           |
| h 85         | 41,5 mm |                  |
| J B43        | 59 mm   |                  |
| J L43        | 100 mm  | Tolerance ±0,2   |
| J L44        | 245 mm  |                  |
| j B8         | 43 mm   |                  |
| N B85        | 6 mm    | Width of Keyway  |
| N L85        | 16 mm   | Length of Keyway |
| N T85        | 3,5 mm  | Depth of Keyway  |
| T 86         | 2,3 mm  | Depth Fit        |
| Tol T 86 up  | 0,3 mm  | Upper tolerance  |
| Tol T 86 low | 0 mm    | Lower tolerance  |
| t 43 max     | 14 mm   | Depth of Thread  |
| t 87 max     | 12 mm   |                  |



### Medidas

|                      |           |  |
|----------------------|-----------|--|
| $B_2$                | 75 mm     | Width of Support Rail                  |
| $B_4$                | 74 mm     | Width of Return Unit                   |
| $B_{18}$             | 15 mm     |  |
| $B_{72}$             | 2 mm      |  |
| $H_1$                | 32 mm     |  |
| $H_2$                | 66,5 mm   | Altura                                 |
| $H_4$                | 81,5 mm   | Height of Return Unit                  |
| $H_7$                | 47 mm     |  |
| $H_{18}$             | 40 mm     |  |
| $h_{13}$             | 25 mm     |  |
| $h_{18}$             | 5 mm      |  |
| $L_{2 \text{ max}}$  | 24.000 mm | Maximum length of Support Rail         |
| $L_4$                | 80 mm     |  |
| $L_{18}$             | 300 mm    |  |
| $L_{x1 \text{ min}}$ | 50 mm     | Minimum distance between the Carriages |
| $L_{Tn \text{ min}}$ | 500 mm    | Support Rail in Segments length min    |
| $L_{Tn \text{ max}}$ | 8.000 mm  | Support Rail in Segments length max    |
| $F_{BL}$             | 1,44      | Effective length factor of bellow      |
| $S$                  | 85 mm     | Medida                                 |



### Datos técnicos

|                    |                     |  |
|--------------------|---------------------|--|
| $m_{LAW}$          | 1,38 kg             | Mass of Carriage                               |
| $m_1$              | 2,46 kg             | Mass of Connecting Plates of Profiles          |
| $m_3$              | 1,38 kg             | Mass of additional Carriage                    |
| $v_{max}$          | 8 m/s               | Maximum Speed                                  |
| $a_{max}$          | 40 m/s <sup>2</sup> | Maximum Acceleration                           |
| $R_x$              | 205 mm              |  |
| $R_y$              | 20,5 mm             |  |
| $R_z$              | 54 mm               |  |
| I C                | 4.100 N             | Load direction I: compressive load             |
| I C <sub>0</sub>   | 2.400 N             | Load direction I: compressive load             |
| II C               | 4.100 N             | Load direction II: tensile load                |
| II C <sub>0</sub>  | 2.400 N             | Load direction II: tensile load                |
| III C              | 6.600 N             | Load direction III: lateral load               |
| III C <sub>0</sub> | 4.200 N             | Load direction III: lateral load               |
| $M_{0x\ per}$      | 30 Nm               | Max. permissible static moment per Carriage    |
| $M_{0y\ per}$      | 425 Nm              | Max. permissible static moment per Carriage    |
| $M_{0z\ per}$      | 205 Nm              | Max. permissible static moment per Carriage    |
| $I_y$              | 104 cm <sup>4</sup> | Geometrical moments of inertia of Support Rail |
| $I_z$              | 76 cm <sup>4</sup>  | Geometrical moments of inertia of Support Rail |



### Información adicional

|                        |  |
|------------------------|--|
| 18 Nm                  | Max. permissible drive torque            |
| 4 x LFR50/8-6-2Z       | Track Rollers                            |
| 0,1 mm                 | Repeat Accuracy ±                        |
| 175 mm                 | Feed (mm/rotation)                       |
| 20AT5                  | Toothed Belt                             |
| 0,068 kg/m             | Mass of Toothed Belt                     |
| 640 N                  | Permissible Toothed Belt operating force |
| 2,2 kg*cm <sup>2</sup> | Mass moment of inertia of Gears          |

### Rango de temperatura

|                  |       |                              |
|------------------|-------|------------------------------|
| T <sub>min</sub> | 0 °C  | Minimum operating Temperatur |
| T <sub>max</sub> | 80 °C | Maximum operating Temperatur |