

**MLF52-200-ZR-W2-FA517.2** [↗](#)

## Módulo lineal

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

## Información técnica



## Variante de su producto actual

|                     |         |                         |
|---------------------|---------|-------------------------|
| Size code           | 52      |                         |
| Length of carriage  | 200     | 200 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              | /       | No                      |

## Medidas principales y datos de rendimiento

|                |        |             |
|----------------|--------|-------------|
| B <sub>1</sub> | 130 mm | Total Width |
| H              | 119 mm | Altura      |
| L              | 200 mm | Longitud    |

**Medidas de montaje**

|              |         |                  |
|--------------|---------|------------------|
| D 86         | 95 mm   |                  |
| D 87         | 115 mm  | Ø Bolt circle    |
| d 85         | 20 mm   |                  |
| d 86         | 76 mm   | Ø Inner Fit      |
| L 88         | 31 mm   |                  |
| G 43         | M10     | Thread           |
| G 87         | M8      | Thread           |
| h 85         | 60,6 mm |                  |
| J B43        | 90 mm   |                  |
| J L43        | 110 mm  | Tolerance ±0,2   |
| j B8         | 80 mm   |                  |
| N B85        | 6 mm    | Width of Keyway  |
| N L85        | 25 mm   | Length of Keyway |
| N T85        | 3,5 mm  | Depth of Keyway  |
| T 86         | 4 mm    | Depth Fit        |
| Tol T 86 up  | 0,5 mm  | Upper tolerance  |
| Tol T 86 low | 0 mm    | Lower tolerance  |
| t 43 max     | 20 mm   | Depth of Thread  |
| t 87 max     | 15 mm   |                  |





### Medidas

|          |           |  |
|----------|-----------|--|
| B 2      | 112 mm    | Width of Support Rail                  |
| B 4      | 111 mm    | Width of Return Unit                   |
| B 18     | 15 mm     |  |
| B 72     | 2 mm      |  |
| H 1      | 46,1 mm   |  |
| H 2      | 98,6 mm   | Altura                                 |
| H 4      | 118,3 mm  | Height of Return Unit                  |
| H 7      | 65,4 mm   |  |
| H 18     | 45 mm     |  |
| h 13     | 25 mm     |  |
| h 14     | 50 mm     |  |
| h 18     | 15 mm     |  |
| L 2 max  | 24.000 mm | Maximum length of Support Rail         |
| L 4      | 115,5 mm  |  |
| L 6      | 6 mm      | Length of Wiper Brushes                |
| L 18     | 400 mm    |  |
| L x1 min | 50 mm     | Minimum distance between the Carriages |
| L Tn min | 500 mm    | Support Rail in Segments length min    |
| L Tn max | 8.000 mm  | Support Rail in Segments length max    |
| S        | 85 mm     | Medida                                 |



### Datos técnicos

|                    |                     |  |
|--------------------|---------------------|--|
| $m_{LAW}$          | 2 kg                | Mass of Carriage                               |
| $m_1$              | 3,68 kg             | Mass of Connecting Plates of Profiles          |
| $m_3$              | 2 kg                | Mass of additional Carriage                    |
| $v_{max}$          | 8 m/s               | Maximum Speed                                  |
| $a_{max}$          | 40 m/s <sup>2</sup> | Maximum Acceleration                           |
| $R_x$              | 60 mm               |  |
| $R_y$              | 29,3 mm             |  |
| $R_z$              | 83 mm               |  |
| I C                | 10.000 N            | Load direction I: compressive load             |
| I C <sub>0</sub>   | 5.200 N             | Load direction I: compressive load             |
| II C               | 10.000 N            | Load direction II: tensile load                |
| II C <sub>0</sub>  | 5.200 N             | Load direction II: tensile load                |
| III C              | 16.800 N            | Load direction III: lateral load               |
| III C <sub>0</sub> | 10.000 N            | Load direction III: lateral load               |
| $M_{0x\ per}$      | 110 Nm              | Max. permissible static moment per Carriage    |
| $M_{0y\ per}$      | 290 Nm              | Max. permissible static moment per Carriage    |
| $M_{0z\ per}$      | 150 Nm              | Max. permissible static moment per Carriage    |
| $I_y$              | 386 cm <sup>4</sup> | Geometrical moments of inertia of Support Rail |
| $I_z$              | 301 cm <sup>4</sup> | Geometrical moments of inertia of Support Rail |



### Información adicional

|                         |  |
|-------------------------|--|
| 73,5 Nm                 | Max. permissible drive torque            |
| 4 x LFR5201-10-2Z       | Track Rollers                            |
| 0,1 mm                  | Repeat Accuracy ±                        |
| 270 mm                  | Feed (mm/rotation)                       |
| 32AT10                  | Toothed Belt                             |
| 0,2 kg/m                | Mass of Toothed Belt                     |
| 1.750 N                 | Permissible Toothed Belt operating force |
| 12,6 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 |