

**MLF32-300-ZR-WN2** [↗](#)

## Módulo lineal

Actuators with external track roller guidance system and toothed belt drive. With second, non-driven carriage

## 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 | WN2   | Second, non-driven carriage |
| Support rail design | /     | One-piece                   |
| Bellow              | /     | No                          |

## 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 $\pm 0,2$ |
| 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 <sub>2</sub>      | 75 mm    | Width of Support Rail                  |
| B <sub>4</sub>      | 74 mm    | Width of Return Unit                   |
| B <sub>72</sub>     | 2 mm     |  |
| H <sub>1</sub>      | 32 mm    |  |
| H <sub>2</sub>      | 66,5 mm  | Altura                                 |
| H <sub>4</sub>      | 81,5 mm  | Height of Return Unit                  |
| H <sub>7</sub>      | 47 mm    |  |
| h <sub>13</sub>     | 25 mm    |  |
| L <sub>2 max</sub>  | 8.000 mm | Maximum length of Support Rail         |
| L <sub>4</sub>      | 80 mm    |  |
| L <sub>6</sub>      | 6 mm     | Length of Wiper Brushes                |
| L <sub>x1 min</sub> | 5 mm     | Minimum distance between the Carriages |
| S                   | 85 mm    | Medida                                 |





### Datos técnicos

|                      |                     |  |
|----------------------|---------------------|--|
| $m_{LAW}$            | 1,38 kg             | Mass of 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               |
| $M_{0x \text{ per}}$ | 30 Nm               | Max. permissible static moment per Carriage    |
| $M_{0y \text{ per}}$ | 425 Nm              | Max. permissible static moment per Carriage    |
| $M_{0z \text{ per}}$ | 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

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

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