

**MLF52-260-EE-ZR-W2-FA517.1**

## Módulo lineal

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

## Información técnica



## Variante de su producto actual

Size code	52	
Length of carriage	260	260 mm
Carriage design	EE	Double strengthened carriage
Drive type	(3)ZR	Toothed belt drive
Additional carriage	W2	Second, driven carriage
Support rail design	FA517.1	Two-piece
Bellow	/	No

## Medidas principales y datos de rendimiento

B <sub>1</sub>	155 mm	Total Width
H	125 mm	Altura
L	260 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	M12	Thread
G 87	M8	Thread
h 85	60,6 mm	
J B43	115 mm	
J L43	180 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	24 mm	Depth of Thread
t 87 max	15 mm	



### Medidas

B <sub>2</sub>	112 mm	Width of Support Rail
B <sub>4</sub>	111 mm	Width of Return Unit
B <sub>18</sub>	15 mm	
B <sub>72</sub>	2 mm	
H <sub>1</sub>	55 mm	
H <sub>2</sub>	98,6 mm	Altura
H <sub>4</sub>	118,3 mm	Height of Return Unit
H <sub>7</sub>	65,4 mm	
H <sub>18</sub>	45 mm	
h <sub>13</sub>	25 mm	
h <sub>14</sub>	50 mm	
h <sub>18</sub>	15 mm	
L <sub>2 max</sub>	16.000 mm	Maximum length of Support Rail
L <sub>4</sub>	115,5 mm	
L <sub>6</sub>	6 mm	Length of Wiper Brushes
L <sub>18</sub>	400 mm	
L <sub>x1 min</sub>	50 mm	Minimum distance between the Carriages
L <sub>Tn min</sub>	500 mm	Support Rail in Segments length min
L <sub>Tn max</sub>	8.000 mm	Support Rail in Segments length max
S	85 mm	Medida



### Datos técnicos

$m_{LAW}$	4,12 kg	Mass of Carriage
$m_1$	1,84 kg	Mass of Connecting Plates of Profiles
$m_3$	4,12 kg	Mass of additional Carriage
$v_{max}$	8 m/s	Maximum Speed
$a_{max}$	40 m/s <sup>2</sup>	Maximum Acceleration
$R_x$	120 mm	
$R_y$	35,3 mm	
$R_z$	95 mm	
I C	20.000 N	Load direction I: compressive load
I C <sub>0</sub>	10.000 N	Load direction I: compressive load
II C	20.000 N	Load direction II: tensile load
II C <sub>0</sub>	10.000 N	Load direction II: tensile load
III C	32.400 N	Load direction III: lateral load
III C <sub>0</sub>	18.200 N	Load direction III: lateral load
$M_{0x\ per}$	215 Nm	Max. permissible static moment per Carriage
$M_{0y\ per}$	1.100 Nm	Max. permissible static moment per Carriage
$M_{0z\ per}$	620 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 LFR5302-10-2Z	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