

**MLF52-500-EE-ZR-WN2-FBALG** [↗](#)

## Módulo lineal

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

## Información técnica



## Variante de su producto actual

Size code	52	
Length of carriage	500	500 mm
Carriage design	EE	Double strengthened carriage
Drive type	(3)ZR	Toothed belt drive
Additional carriage	WN2	Second, non-driven carriage
Support rail design	/	One-piece
Bellow	FBALG	Yes

## Medidas principales y datos de rendimiento

B <sub>1</sub>	155 mm	Total Width
H	125 mm	Altura
L	500 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 $\pm 0,2$
J L44	420 mm	
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 2	112 mm	Width of Support Rail
B 4	111 mm	Width of Return Unit
B 72	2 mm	
H 1	55 mm	
H 2	98,6 mm	Altura
H 4	118,3 mm	Height of Return Unit
H 7	65,4 mm	
h 13	25 mm	
h 14	50 mm	
L 2 max	8.000 mm	Maximum length of Support Rail
L 4	115,5 mm	
L x1 min	20 mm	Minimum distance between the Carriages
F BL	1,37	Effective length factor of bellow
S	85 mm	Medida



### Datos técnicos

$m_{LAW}$	7,47 kg	Mass of Carriage
$m_3$	7,74 kg	Mass of additional Carriage
$v_{max}$	8 m/s	Maximum Speed
$a_{max}$	40 m/s <sup>2</sup>	Maximum Acceleration
$R_x$	360 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
$M_{0y\ per}$	3.300 Nm	Max. permissible static moment per Carriage
$M_{0z\ per}$	1.800 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

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

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