

NM Series Standard Specifications and Mechanical Drawing

FS-11NM-100•60

Stroke (mm)	300	400	500	600	700	800	900	1000
Weight (kg)	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8

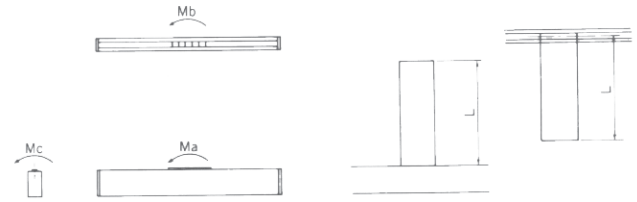
FS-12NM-100•60

Stroke (mm)	300	400	500	600	700	800	900	1000
Weight (kg)	5.7	6.0	6.5	6.9	7.3	7.7	8.1	8.5

Model		FS-11NM-100•60	FS-12NM-100•60
Rated motor power	W	100 (60)	
Rated speed	mm/sec	1250	
Rated thrust	N[kgf]	49 (29) [5 (3)]	
Repeatability	mm	±0.08	
Motor		AC/DC servo motor (100W only for AC)	
Encoder		Attached to motor	
Actuating medium		Timing belt 3M: Width 15mm, Backlash 0.1mm or less	
Linear guide		Linear motion guide: SR-15W Linear motion block (1 for 11NM, 2 for 12NM)	
Motor/belt connection		Reduction ratio by timing belt: 1/2.4	
Base		Extruded aluminum (A6063S-T5) White alumite treatment	
Maximum speed	mm/sec	1500 (1250 when ISAC motor is used)	
Maximum thrust (*1)	N[kgf]	98(58) [10(6)]	
Horizontal payload (*2,3)	kg	3 (2)	15 (9) [11(7) if stroke is 700,800; 9 (5) if stroke is 900, 1000]
Static load (*2,4)	N[kgf]	588 [60]	1176 [120]
Load moment (*5)	N•m[kgf•m]	Ma: 2.9[0.3] Mb: 2.9[0.3] Mc: 4.5[0.46]	Slides together: Ma: 20.5[2.1] Mb: 18.6 [1.9] Mc: 9.1[0.93] Slides 60mm apart: Ma: 78.4[8] Mb: 70.5[7.2] Mc: 9.1[0.93]
Overhang load length L (*5)	mm	200	500 (slides together) 800 (slides 60mm apart)

*() = 60W

- *1 Allowable value for 10 seconds at a speed of 10 mm/sec.
- *2 Load uniformly distributed on slider. Base affixed to a flat, strong frame.
- *3 When accelerating to 1250mm/sec at 1G (9800mm/sec²) (FS-11NM-100-60)
When accelerating to 1250mm/sec at 0.3G (2940mm/sec²) (FS-12NM-100-60)
- *4 Value when load moment is not added. Static load is the maximum value when load is added and differs from the payload.
- *5 See figures at right. Moment caused by static load not to exceed allowable load moment. If there is moment in the Mc direction, we recommend using a guide rail (FS-11NO or 12NO) with the actuator.



SE = Stroke End
ME = Mechanical End
Dimensions for 60W ()
*60mm for 11NM

T slot cross section

FS-11NM-100•60

Stroke	300	400	500	600	700	800	900	1000
A	604	704	804	904	1004	1104	1204	1304
B	480	580	680	780	880	980	1080	1180
C	300	400	500	600	700	800	900	1000
D	360	460	560	660	760	860	960	1060

FS-12NM-100•60

Stroke	300	400	500	600	700	800	900	1000
A	704	804	904	1004	1104	1204	1304	1404
B	580	680	780	880	980	1080	1180	1280
C	340	440	540	640	740	840	940	1040
D	460	560	660	760	860	960	1060	1160