

SERVOFLEX SFM SS-B-B - Datasheet

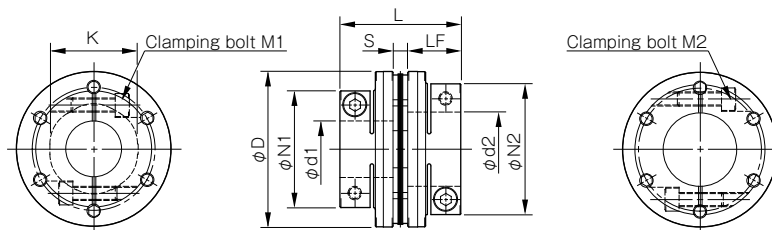
CLAMPING TYPE

Specifications

Model	Rated torque [N·m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N·m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]
		Parallel [mm]	Angular [°]	Axial [mm]					
SFM-060SS-□B□B-60N	60	0.02	1	± 0.3	24000	104000	399	0.22 × 10 ⁻³	0.52
SFM-060SS-□B□B-80N	80	0.02	1	± 0.3	24000	104000	399	0.23 × 10 ⁻³	0.49
SFM-070SS-□B□B-90N	90	0.02	1	± 0.5	24000	240000	484	0.40 × 10 ⁻³	0.72
SFM-070SS-□B□B-100N	100	0.02	1	± 0.5	24000	240000	484	0.42 × 10 ⁻³	0.67
SFM-080SS-□B□B-150N	150	0.02	1	± 0.5	24000	120000	96	0.79 × 10 ⁻³	1.04
SFM-080SS-□B□B-200N	200	0.02	1	± 0.5	24000	310000	546	1.25 × 10 ⁻³	1.40
SFM-090SS-□B□B-250N	250	0.02	1	± 0.6	24000	520000	321	1.54 × 10 ⁻³	1.62
SFM-090SS-□B□B-300N	300	0.02	1	± 0.6	24000	520000	321	1.58 × 10 ⁻³	1.53
SFM-100SS-□B□B-450N	450	0.02	1	± 0.65	20000	740000	540	3.27 × 10 ⁻³	2.53
SFM-120SS-□B□B-600N	600	0.02	1	± 0.8	20000	970000	360	6.90 × 10 ⁻³	3.78

• Torsional stiffness values given are measured values for the flexible element alone.
 • The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Model	d1 [mm]	d2 [mm]	D [mm]	L [mm]	N1 · N2 [mm]	LF [mm]	S [mm]	K [mm]	M1 · M2 Qty – Nominal dia.	M1 · M2 Tightening torque [N·m]
SFM-060SS-□B□B-60N	12 · 14 · 15 · 16 · 17 · 18 · 19	12 · 14 · 15 · 16 · 17 · 18 · 19 · 20 · 22	58	53.4	44	24	5.4	32	2-M6	14
	—	24 · 25 · 28			48				2-M5	7
	—	30			52					
SFM-060SS-□B□B-80N	20 · 22	20 · 22	58	53.4	44	24	5.4	32	2-M6	14
	24 · 25 · 28	24 · 25 · 28			48				2-M5	7
	30	30			52					
SFM-070SS-□B□B-90N	18 · 19	18 · 19 · 20 · 22 · 24 · 25	68	55.9	47	25	5.9	38	2-M6	14
SFM-070SS-□B□B-100N	20 · 22 · 24 · 25	20 · 22 · 24 · 25	68	55.9	47	25	5.9	38	2-M6	14
	28 · 30 · 32 · 35	28 · 30 · 32 · 35			56					
	—	—			56					
SFM-080SS-□B□B-150N	22 · 24 · 25	22 · 24 · 25	78	68.3	53	30	8.3	37	2-M8	34
	28 · 30 · 32 · 35	28 · 30 · 32 · 35			56				2-M6	14
	—	—			53					
SFM-080SS-□B□B-200N	22 · 24 · 25	22 · 24 · 25	78	67.7	70	30	7.7	42	2-M8	34
	28 · 30 · 32 · 35	28 · 30 · 32 · 35			74					
	38	38								
SFM-090SS-□B□B-250N	25 · 28	25 · 28 · 30 · 32	88	68.3	66	30	8.3	50	2-M8	34
	—	35 · 38 · 40 · 42			74					
	—	—			74					
SFM-090SS-□B□B-300N	30 · 32	30 · 32	88	68.3	66	30	8.3	50	2-M8	34
	35 · 38 · 40 · 42	35 · 38 · 40 · 42			74					
	—	—			74					
SFM-100SS-□B□B-450N	32 · 35 · 38 · 40 · 42 · 45 · 48	32 · 35 · 38 · 40 · 42 · 45 · 48	98	90.2	84	40	10.2	56	2-M10	68
SFM-120SS-□B□B-600N	32 · 35 · 38 · 40 · 42 · 45	32 · 35 · 38 · 40 · 42 · 45	118	90.2	84	40	10.2	68	2-M10	68
	48 · 50 · 55	48 · 50 · 55			100					
	—	—			100					

Standard Bore Diameter

Model	Nominal diameter	Standard bore diameter d1 • d2 [mm]																					
		12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
SFM-060SS-□ B-□ B-60N	d1	●	●	●	●	●	●	●															
	d2	●	●	●	●	●	●	●	●	●	●	●	●	●									
SFM-060SS-□ B-□ B-80N	d1								●	●	●	●	●	●									
	d2								●	●	●	●	●	●									
SFM-070SS-□ B-□ B-90N	d1						●	●															
	d2						●	●	●	●	●	●	●	●	●	●							
SFM-070SS-□ B-□ B-100N	d1								●	●	●	●	●	●	●								
	d2								●	●	●	●	●	●	●	●							
SFM-080SS-□ B-□ B-150N	d1									●	●	●	●	●	●								
	d2									●	●	●	●	●	●	●							
SFM-080SS-□ B-□ B-200N	d1									●	●	●	●	●	●	●	●						
	d2									●	●	●	●	●	●	●	●	●					
SFM-090SS-□ B-□ B-250N	d1										●	●											
	d2										●	●	●	●	●	●	●	●	●				
SFM-090SS-□ B-□ B-300N	d1											●	●	●	●	●	●	●	●				
	d2											●	●	●	●	●	●	●	●	●			
SFM-100SS-□ B-□ B-450N	d1													●	●	●	●	●	●	●	●		
	d2													●	●	●	●	●	●	●	●	●	●
SFM-120SS-□ B-□ B-600N	d1															●	●	●	●	●	●	●	●
	d2															●	●	●	●	●	●	●	●

Balance Correction

Model (size)	Balance classification	Supported rotational speed [min ⁻¹]				
		10000 or less	15000 or less	18000 or less	20000 or less	24000 or less
SFM-060SS	G6.3 • G2.5	●	●	●	●	●
SFM-070SS	G6.3 • G2.5	●	●	●	●	●
SFM-080SS	G6.3 • G2.5	●	●	●	●	●
SFM-090SS	G6.3 • G2.5	●	●	●	●	●
SFM-100SS	G6.3 • G2.5	●	●	●	●	●
SFM-120SS	G6.3 • G2.5	●	●	●	●	●

How to Place an Order

SFM-080SS-25BK-30BK-200N-G2.5/24000

