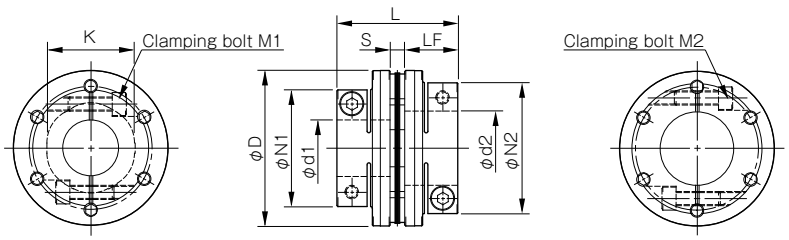
SERVOFLEX SFM SS-B-B – Datasheet
CLAMPING TYPE

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
	—	28 • 30 • 32 • 35			56					
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					
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
SFM-080SS-□B□B-200N	22 • 24 • 25	22 • 24 • 25	78	67.7	53	30	7.7	42	2-M8	34
	28 • 30 • 32 • 35	28 • 30 • 32 • 35			70					
	38	38			74					
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					
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					
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					

Standard Bore Diameter

Model	Standard bore diameter d1 • d2 [mm]																					
	Nominal diameter	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

- Size
- Type
  S : Single element
- Material
  S : Steel
- Bore dia. d1 (Small dia.)
- Bore dia. d2 (Large dia.)
- Affixing method
  B: Clamp
- Countershaft tolerance
  Blank: h7, K: k6, M: m6, J: j6, S: $35^{+0.010}_{0}$
- Nominal rated torque
  (see specifications table)
- Balance classification
  G6.3, G2.5
- Supported rotational speed
  10000 or less
  15000 or less
  18000 or less
  20000 or less
  24000 or less