

NEV SERIES Right-angle Planetary

NEV B-Frame 2-Stage Specifications

Frame Size	B (78mm)					
Ratio	Units	Note	5	9	15	27
Nominal Output Torque	[Nm]	*1	6	6	10	10
Maximum Acceleration Torque	[Nm]	*2	20	20	30	30
Emergency Stop Torque	[Nm]	*3	35	40	50	50
Nominal Input Speed	[rpm]	*4	3000			
Maximum Input Speed	[rpm]	*5	6000			
No Load Running Torque	[Nm]	*6	0.18			
Permitted Radial Load	[N]	*7	1000	1200	1500	1800
Permitted Axial Load	[N]	*8	500	600	750	900
Moment of Inertia ($\leq \varnothing 8$)	[kgcm ²]	--	--	--	--	--
Moment of Inertia ($\leq \varnothing 14$)	[kgcm ²]	--	0.275	0.110	0.059	0.146
Efficiency	[%]	*9	85			
Torsional Rigidity	[Nm/arcmin]	*10	0.4			
Maximum Torsional Backlash	[Arc-min]	--	≤ 30			
Noise Level	[dB]	*11	≤ 73			
Protection Class	--	--	IP65			
Ambient Temperature	[°C]	--	0-40			
Permitted Housing Temperature	[°C]	--	90			
Weight (Solid Output Shaft)	[kg]	--	3.8			
Weight (Hollow Output Shaft)	[kg]	--	3.6			

- *1) At nominal input speed, service life is 20,000 hours
- *2) The maximum torque when starting or stopping operation. Apply Cycle Factor f_0 , found on page 468, for higher duty cycle applications
- *3) The maximum torque allowed under a stress situation. Permitted 1,000 times during service life
- *4) The average input speed at nominal input torque. Maintain housing temperature below permitted value
- *5) The maximum intermittent input speed
- *6) Torque at no load applied to the input shaft at nominal input speed
- *7) At this load and nominal input speed, service life is 20,000 hours. Applied to output side bearing
- *8) At this load and nominal input speed, service life is 20,000 hours. Applied to output shaft center
- *9) The efficiency at the nominal output torque rating
- *10) This does not include lost motion
- *11) Contact NIDEC-SHIMPO for testing conditions and environment

NEV B-Frame 3-Stage Specifications

Frame Size	B (78mm)				
	Units	Note	45	75	105
Nominal Output Torque	[Nm]	*1	10	15	15
Maximum Acceleration Torque	[Nm]	*2	30	30	30
Emergency Stop Torque	[Nm]	*3	50	50	50
Nominal Input Speed	[rpm]	*4	3000		
Maximum Input Speed	[rpm]	*5	6000		
No Load Running Torque	[Nm]	*6	0.109		
Permitted Radial Load	[N]	*7	1800	1800	1800
Permitted Axial Load	[N]	*8	900	900	900
Moment of Inertia ($\leq \emptyset 8$)	[kgcm ²]	--	0.091	0.083	0.078
Moment of Inertia ($\leq \emptyset 14$)	[kgcm ²]	--	--	--	--
Efficiency	[%]	*9	80		
Torsional Rigidity	[Nm/arcmin]	*10	0.4		
Maximum Torsional Backlash	[Arc-min]	--	≤ 30		
Noise Level	[dB]	*11	≤ 63		
Protection Class	--	--	IP65		
Ambient Temperature	[°C]	--	0-40		
Permitted Housing Temperature	[°C]	--	90		
Weight (Solid Output Shaft)	[kg]	--	3.9		
Weight (Hollow Output Shaft)	[kg]	--	3.7		

- *1) At nominal input speed, service life is 20,000 hours
- *2) The maximum torque when starting or stopping operation. Apply Cycle Factor f_0 , found on page 468, for higher duty cycle applications
- *3) The maximum torque allowed under a stress situation. Permitted 1,000 times during service life
- *4) The average input speed at nominal input torque. Maintain housing temperature below permitted value
- *5) The maximum intermittent input speed
- *6) Torque at no load applied to the input shaft at nominal input speed
- *7) At this load and nominal input speed, service life is 20,000 hours. Applied to output side bearing
- *8) At this load and nominal input speed, service life is 20,000 hours. Applied to output shaft center
- *9) The efficiency at the nominal output torque rating
- *10) This does not include lost motion
- *11) Contact NIDEC-SHIMPO for testing conditions and environment