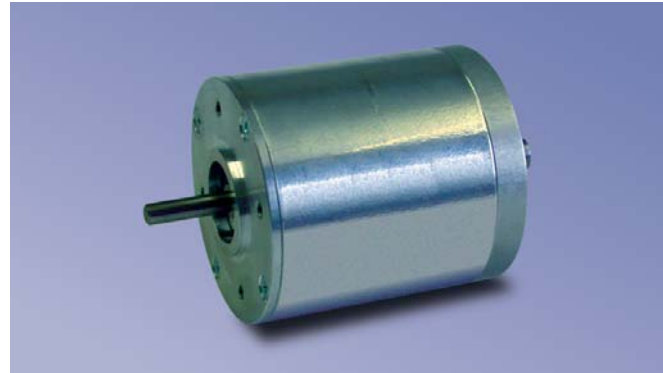


BN23-Series

ø 57 mm, brushless
50 to 150 Watts



- Standard of the shelf unit
- High reliability / Long life
- Very quiet operation
- High power to size ratio
- Very high speed capability



Motor Data

Series		BN23-13EN □□LH			BN23-18EN □□LH			BN23-23EN □□LH			BN23-28EN □□LH		
		01	02	03	01	02	03	01	02	03	01	02	03
Winding Code		01	02	03	01	02	03	01	02	03	01	02	03
Rated Power (P_r)	Watts	78.3	79.1	79.1	120.8	123.1	120.8	152.2	148.5	151.4	161.1	163.4	160.4
Terminal Voltage (V_T)	VDC	24	36	48	24	36	48	24	36	48	24	36	48
Rated Speed (N_B)	RPM	12235	13040	12060	9810	10185	10985	8585	9490	8587	7640	8090	8720
Rated Current (I_B)	A	4.1	2.75	2.1	6.0	4.1	3.0	7.4	4.9	3.7	8.0	5.4	4.0
Rated Torque (T_C)	mNm	61.5	57.9	62.2	118.0	116.0	106.0	169.0	150.0	169.0	202.0	192.0	176.0
Peak Torque (T_{PK})	mNm	248.0	248.0	248.0	622.0	622.0	622.0	1010.0	1010.0	1010.0	1320.0	1320.0	1320.0
Torque Sensitivity (K_T)	Nm/A	0.0183	0.0260	0.0369	0.0234	0.0340	0.0425	0.0270	0.0371	0.0540	0.0301	0.0430	0.0537
Continuous Stall Torque (T_{CS})	mNm	89.0	89.0	89.0	170.9	170.9	170.9	243.6	243.6	243.6	289.5	289.5	289.5
Back EMF (K_E)	V/KRPM	1.91	2.72	3.86	2.45	3.56	4.45	2.82	3.88	5.65	3.15	4.50	5.62
Speed/Torque Gradient	rpm/KNm	666.8	664.7	662.6	214.0	209.1	211.2	116.5	120.0	117.2	95.3	94.6	95.3
Terminal Inductance (L_T)	mH	0.37	0.76	1.53	0.25	0.53	0.83	0.22	0.41	0.87	0.24	0.49	0.77
Terminal Resistance (R_T)	Ohms	0.46	0.94	1.89	0.25	0.51	0.80	0.18	0.35	0.71	0.18	0.37	0.58
Rotor Inertia (J_R)	g-cm ²	36.1	36.1	36.1	69.9	69.9	69.9	105.9	105.9	105.9	135.0	135.0	135.0
Thermal Resistivity (R_{TH})	deg.C/watt	5.3	5.3	4.7	4.5	4.2	4.6	4.1	3.8	4.1	3.4	3.3	3.3
Length (L)	mm		33.1			45.8			58.5			71.2	
Weight (m)	g		284			426			596			738	

Further designs are available, please contact Peromatic GmbH.

Performance Curves (Intermittent operation see page 5)

