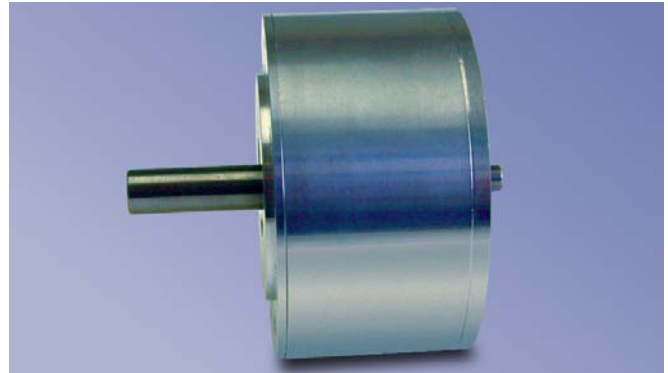


BN42-Series

ø 105,6 mm, brushless
600 to 870 Watts



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

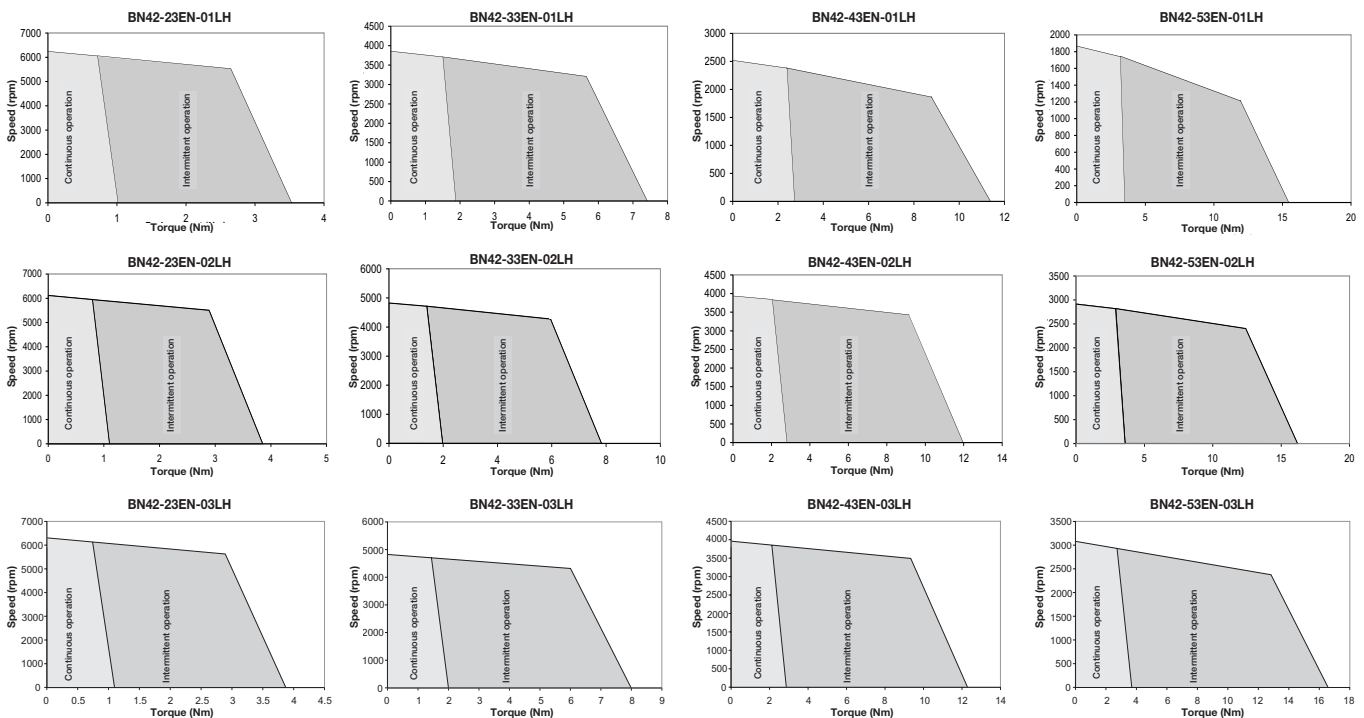


Motor Data

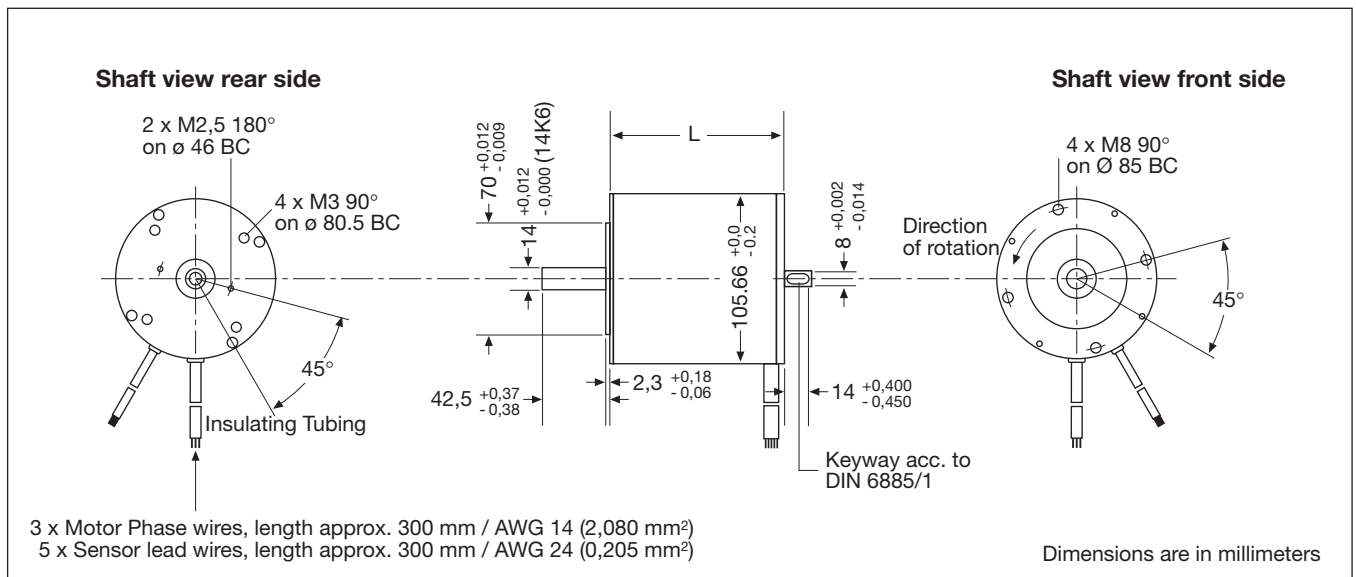
Series		BN42-23EN □□LH			BN42-33EN □□LH			BN42-43EN □□LH			BN42-53EN □□LH		
		01	02	03	01	02	03	01	02	03	01	02	03
Winding Code		01	02	03	01	02	03	01	02	03	01	02	03
Rated Power (P_r)	Watts	456	497	499	584	690	697	598	824	841	580	861	874
Terminal Voltage (V_T)	VDC	24	50	100	24	50	100	24	50	100	24	50	100
Rated Speed (N_B)	RPM	6050	5950	6140	3710	4710	4710	2380	3840	3840	1740	2820	2820
Rated Current (I_B)	A	22.6	11.7	5.9	28.9	16.2	8.2	29.7	19.2	9.8	29.2	20.2	10.2
Rated Torque (T_C)	Nm	0.721	0.798	0.777	1.510	1.400	1.420	2.410	2.050	2.090	3.190	2.920	2.960
Peak Torque (T_{PK})	Nm	4.30	4.30	4.30	8.82	8.82	8.82	13.50	13.50	13.50	18.10	18.10	18.10
Torque Sensitivity (K_T)	Nm/A	0.0363	0.0783	0.1511	0.0594	0.0992	0.1980	0.0909	0.1220	0.2430	0.1230	0.1640	0.3270
Continuous Stall Torque (T_{CS})	Nm	1.02	1.11	1.10	1.88	1.99	2.03	2.74	2.81	2.88	3.51	3.61	3.67
Back EMF (K_E)	V/KRPM	3.80	8.20	15.80	6.22	10.40	20.70	9.52	12.70	25.40	12.80	17.10	34.20
Speed/Torque Gradient	rpm/KNm	14.1	12.0	12.0	4.9	4.9	4.2	2.8	2.8	2.8	2.1	2.1	2.1
Terminal Inductance (L_T)	mH	0.09	0.41	1.54	0.12	0.32	1.27	0.18	0.32	1.26	0.24	0.43	1.71
Terminal Resistance (R_T)	Ohms	0.04	0.15	0.58	0.04	0.09	0.36	0.05	0.08	0.32	0.06	0.10	0.41
Rotor Inertia (J_R)	g-cm ²	1271.0	1271.0	1271.0	2472.0	2472.0	2472.0	3672.0	3672.0	3672.0	4943.0	4943.0	4943.0
Thermal Resistivity (R_{TH})	deg.C/watt	1.2	1.2	1.2	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.7	0.7
Length (L)	mm		58.5			83.9			109.3			134.7	
Weight (m)	g		1843			2949			4054			5160	

Further designs are available, please contact Peromatic GmbH.

Performance Curves (Intermittent operation see page 5)



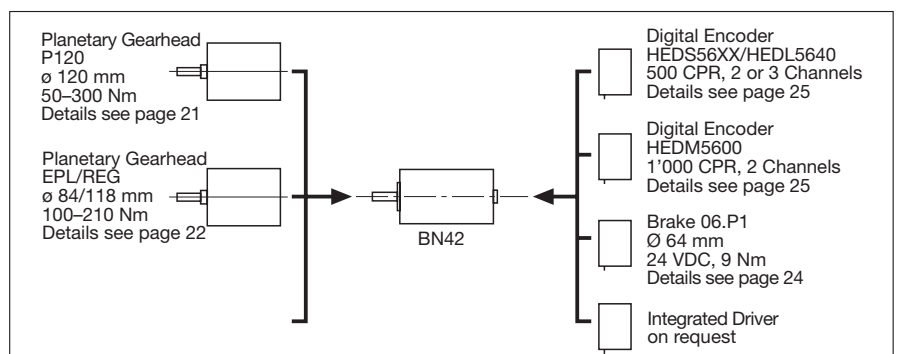
BN42-Series



Lead Wire Color Codes

Connection	Color Code	Connection	Color Code
Vcc	YEL	C Coil	GRN
GND	GRY	S1 out	BRN
A Coil	RED	S2 out	BLU
B Coil	BLK	S3 out	ORN

Modular Configurations



Ordering Information

