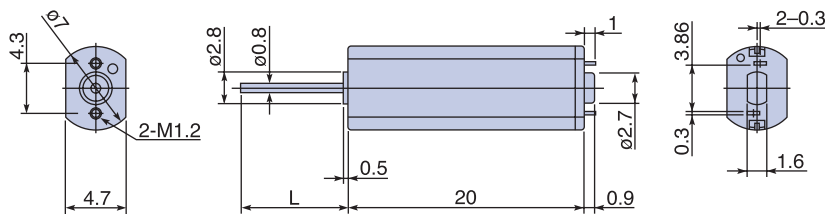


Outline



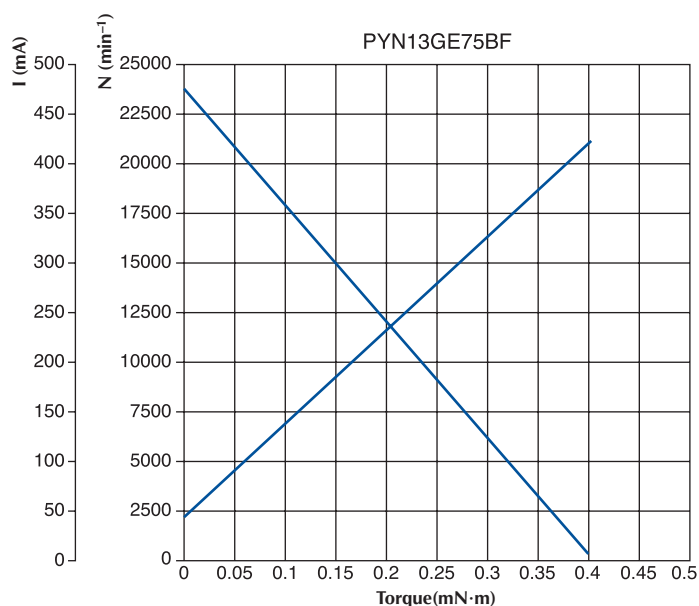
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UNIT: mm

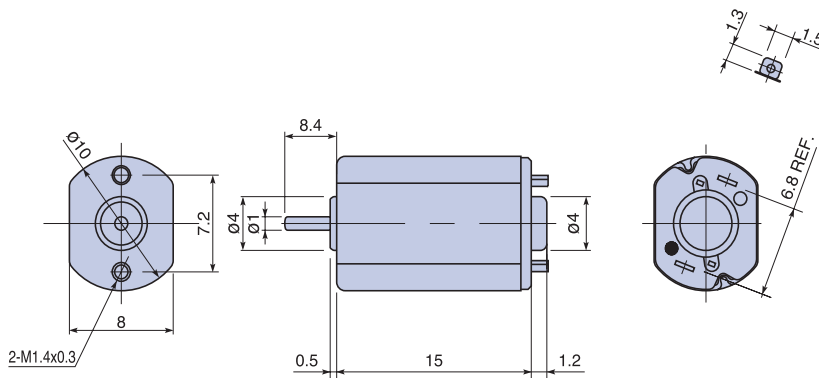
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (min ⁻¹)	No Load Current (mA)	Rated Load		Rated Load Speed (min ⁻¹)	Rated Load Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PYN13GE75BF	0 to 4.0	3	23800	45	1	0.1	17900	135	4.1	0.4	9.0

Characteristics



Outline



UNIT: mm

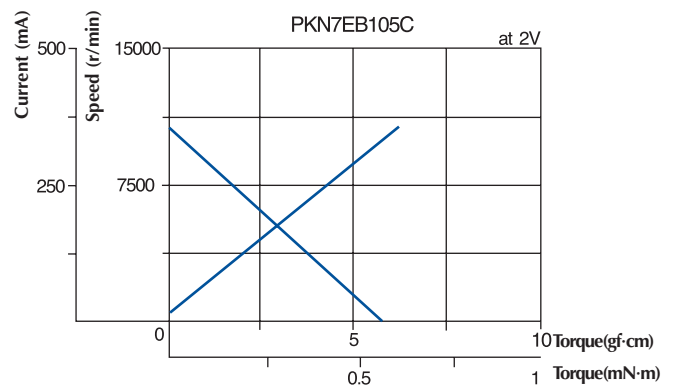
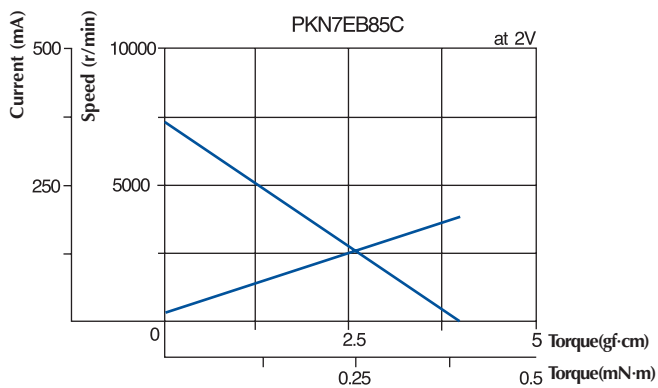


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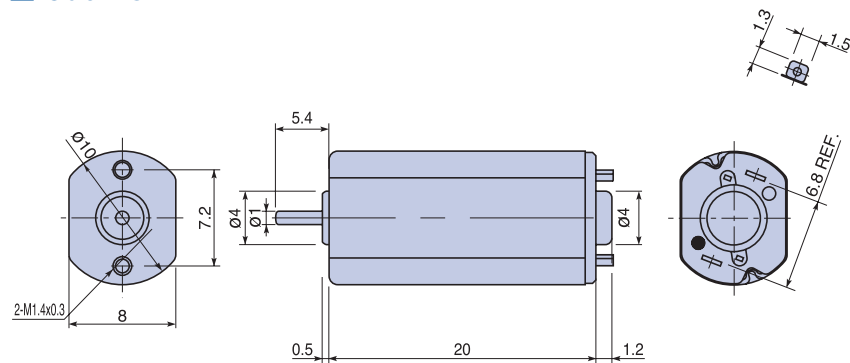
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PKN7EB85C	0 to 4.5	2	7150	19	2	0.198	3793	199	4.1	0.40	8.4
PKN7EB105C	0 to 4.5	2	10480	27	2	0.198	7050	144	6.1	0.60	8.4

Characteristics



Outline



UNIT: mm

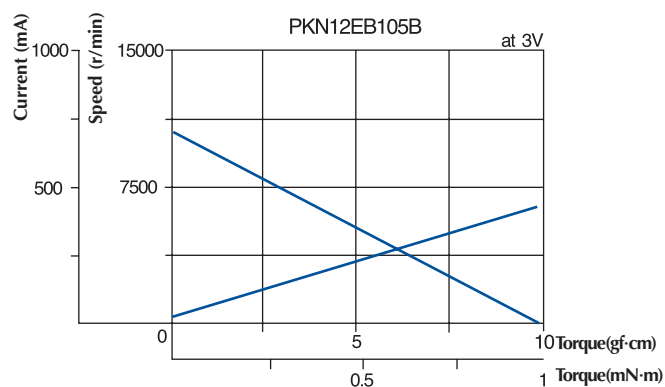
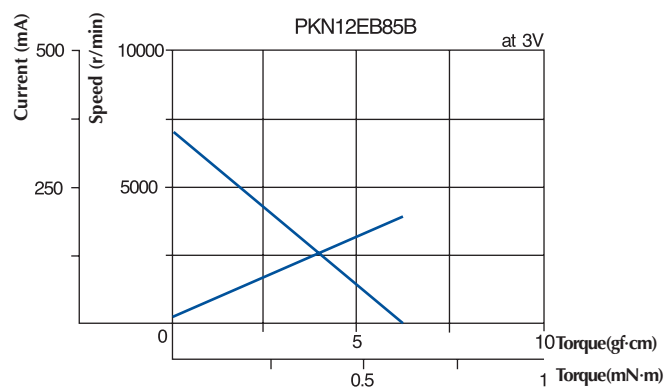


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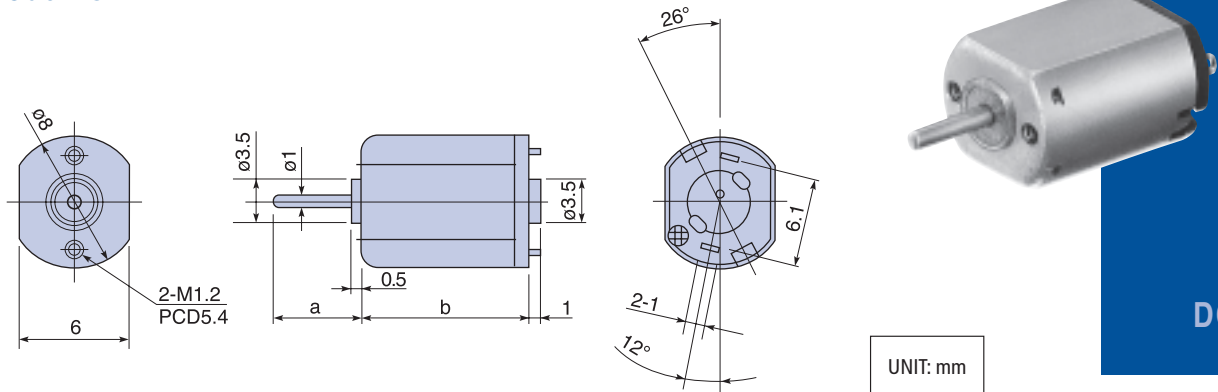
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PKN12EB85B	0 to 4.5	3	7250	19	2	0.198	5000	75	6.4	0.63	5.4
PKN12EB105B	0 to 4.5	3	10540	23	2	0.198	8250	104	9.2	0.9	5.4

Characteristics



Outline

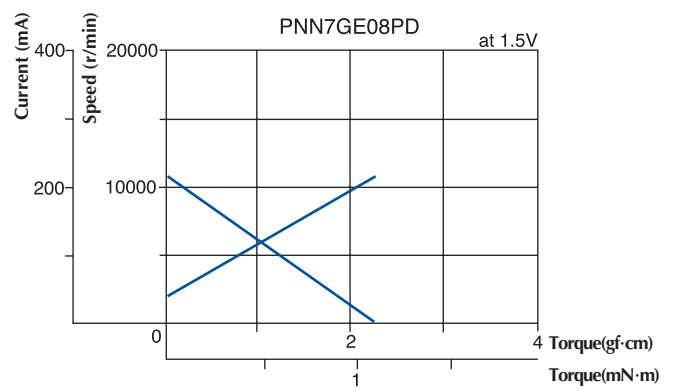
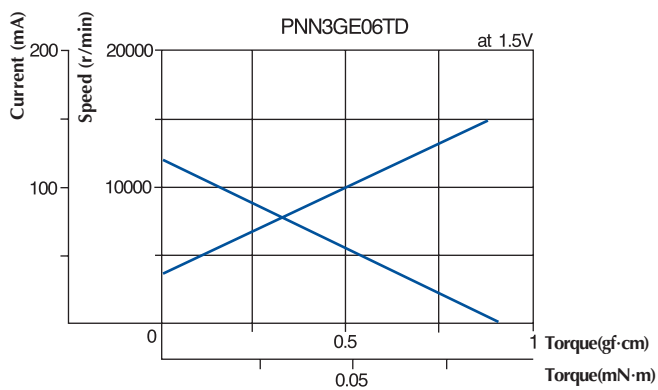


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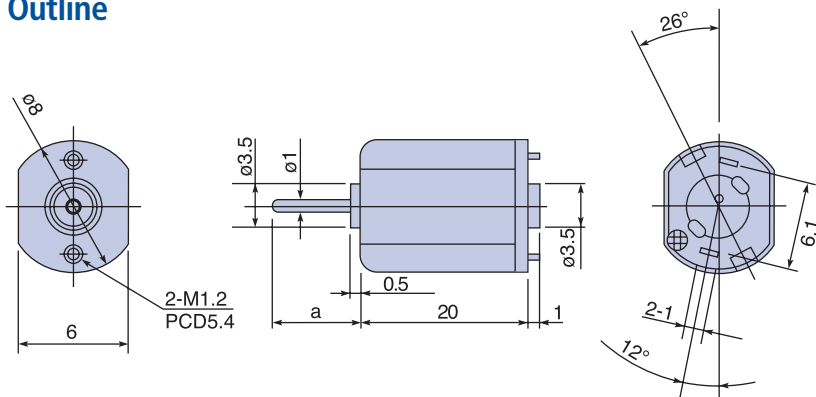
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Note
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PNN3GE06TD	0 to 3.0	1.5	12300	39	0.3	0.03	8200	78	0.9	0.09	a= 5 b= 10
PNN7GE08PD	0 to 3.0	1.5	10200	34	1	0.1	5600	117	2.3	0.23	a= 5.5 b= 14.5

Characteristics



Outline



UNIT: mm

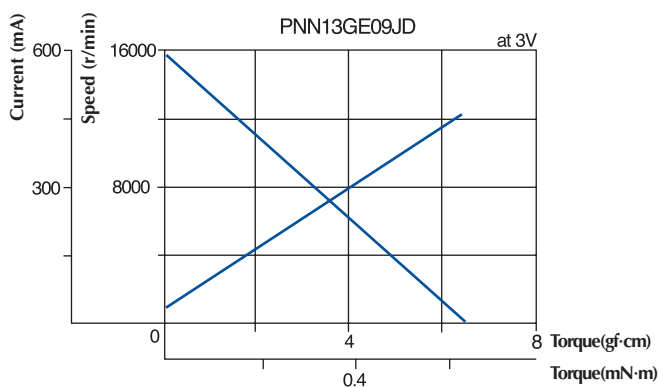
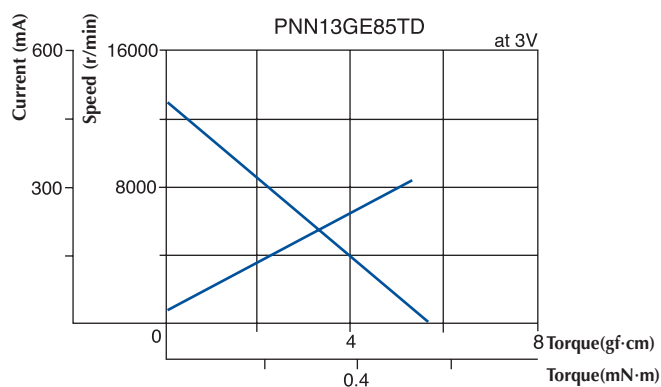
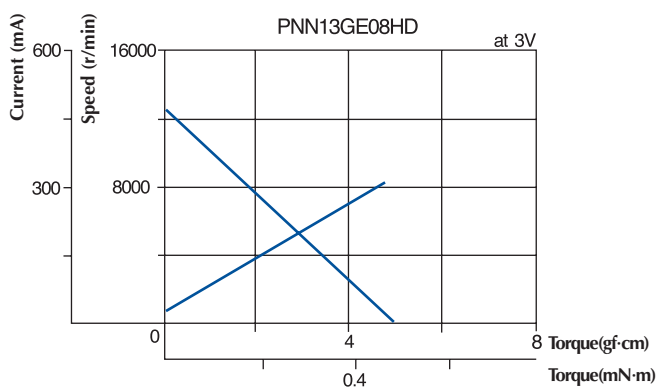


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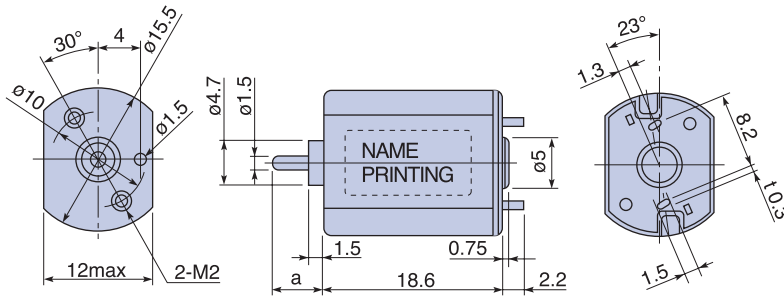
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Note
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PNN13GE08HD	1.0 to 4.5	3	12500	33	1.5	0.147	8900	119	5.18	0.508	a= 6
PNN13GE85TD	1.0 to 4.5	3	13570	35	1.5	0.147	10010	117	5.72	0.561	a= 5
PNN13GE09JD	1.0 to 4.0	3	15600	43	1.5	0.147	12000	138	6.7	0.657	a=10.5

Characteristics



Outline



UNIT: mm

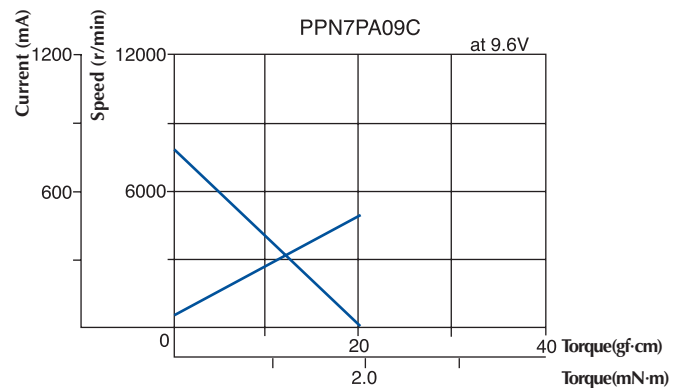
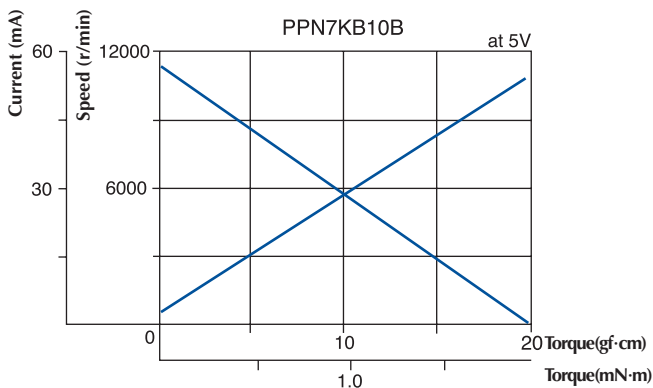
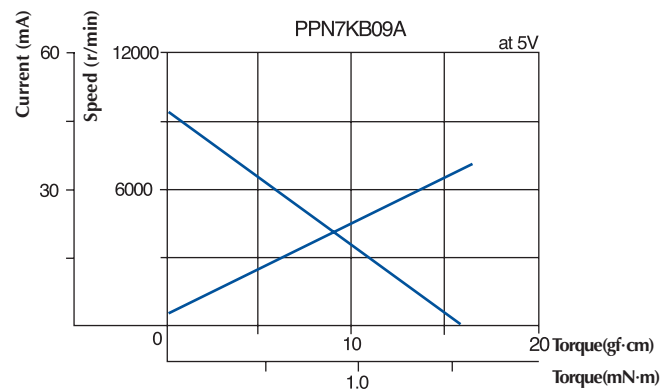
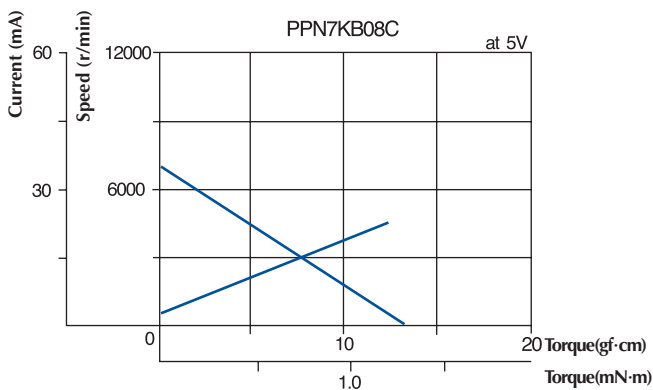


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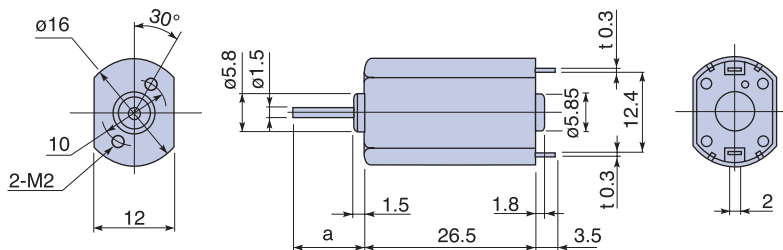
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PPN7KB08C	1.5 to 7.5	5	7320	21	5	0.490	4530	106	13.1	1.284	a= 11.0
PPN7KB09A	1.5 to 7.0	5	9210	29	5	0.490	6390	135	16.3	1.597	a= 5.5
PPN7KB10B	1.5 to 6.0	5	11050	34	5	0.490	8240	160	19.6	1.921	a= 7.0
PPN7KB11C	1.5 to 5.0	3	7900	32	5	0.490	5320	183	15.3	1.499	a= 11.0
PPN7PA09C	1.0 to 7.5	6	10500	42	5	0.490	8000	130	20.6	2.02	a= 11.0
PPN7PA08B	1.0 to 7.5	2.5	3040	21	1	0.098	2600	35	6.9	0.68	a= 7.0
PPN7PA12B	1.0 to 7.5	5	14000	84	5	0.490	11600	232	2.9	2.88	a= 7.0

Characteristics



Outline



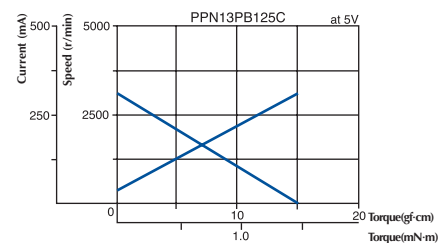
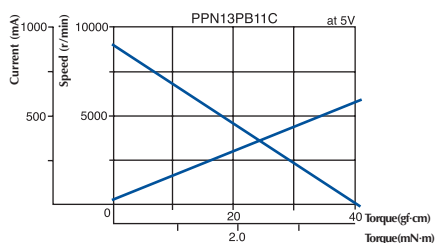
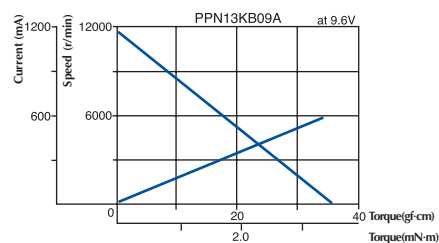
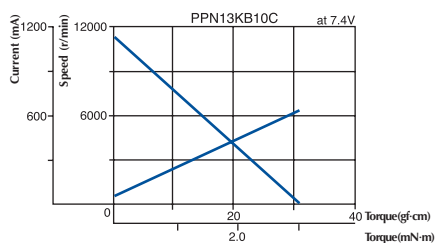
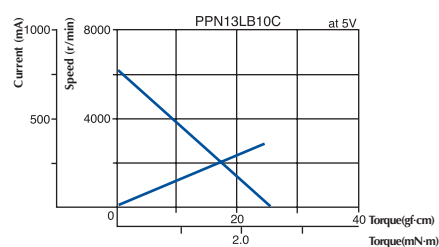
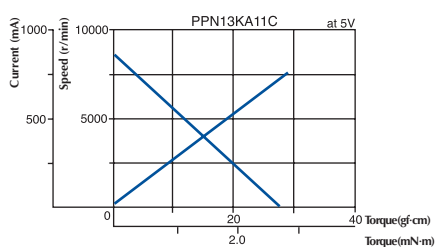
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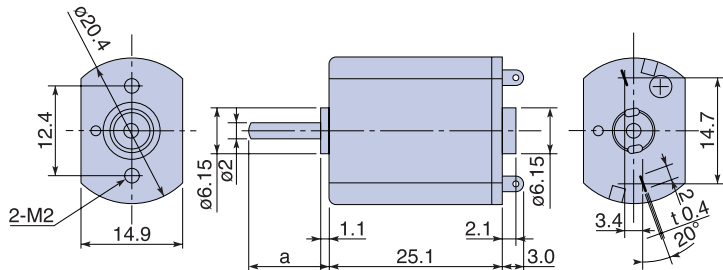
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PPN13KA12C	1.5 to 2.5	2	3830	35	2.0	0.196	3315	80	14.0	1.373	a=11
PPN13KB08C	2.7 to 7.5	5	4610	17	3.0	0.294	3660	51	14.5	1.422	a=11
PPN13KA11C	1.6 to 6.0	5	8700	35	15.0	1.471	3900	320	28.5	2.795	a=11
PPN13LB10C	3.5 to 10.0	5	6160	20	4.0	0.392	5230	75	26.4	2.587	a=11
PPN13KB10C	3.5 to 7.5	7.4	10300	40	7.5	0.735	8150	175	36.0	3.530	a=11
PPN13KB09A	5.0 to 11.0	9.6	11350	25	5.0	0.490	9700	100	37.0	3.628	a=6
PPN13PB11C	0.5 to 10.0	7.4	9100	34	7.5	0.735	7450	142	41.6	4.080	a=11
PPN13PB125C	1.0 to 7.4	2.0	3150	34	2.0	0.196	2700	70	15.1	1.480	a=11
PPN13PB10C	1.0 to 10.0	8.0	7600	25	12.0	1.176	5100	145	36.7	3.600	a=11
PPN13PB12C	1.0 to 7.0	4.0	5600	33	5.0	0.490	4650	110	29.1	2.850	a=11

Characteristics



Outline



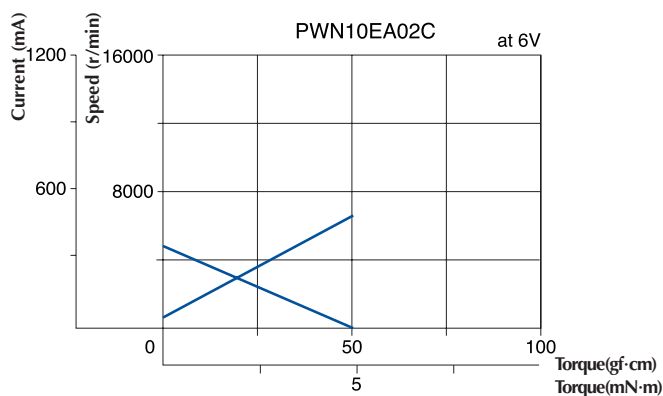
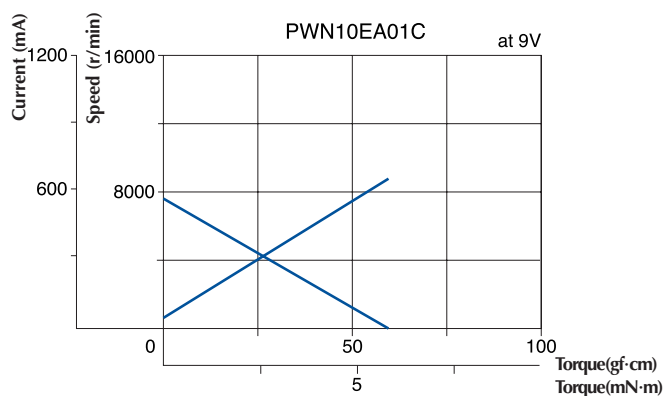
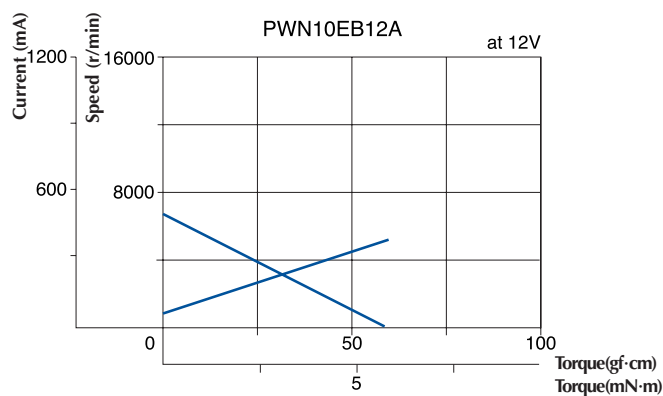
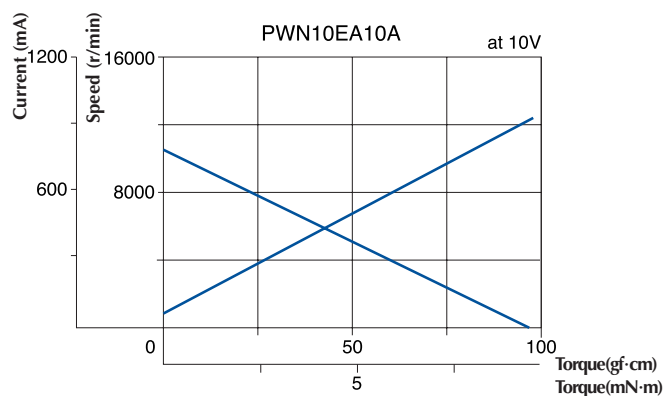
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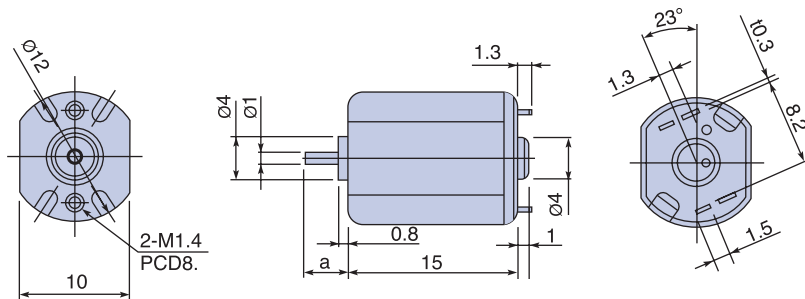
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
PWN10EA10A	5 to 10	10	10600	64	20	1.961	8400	310	97	9.512	
PWN10EB12A	5 to 12	12	6880	32	20	1.961	4870	170	68	6.669	
PWN10EA01C	5 to 10	9	7580	44	20	1.961	5100	250	61	5.978	
PWN10EA02C	5 to 10	6	4900	35	20	1.961	3050	220	53	5.194	

Characteristics



Outline



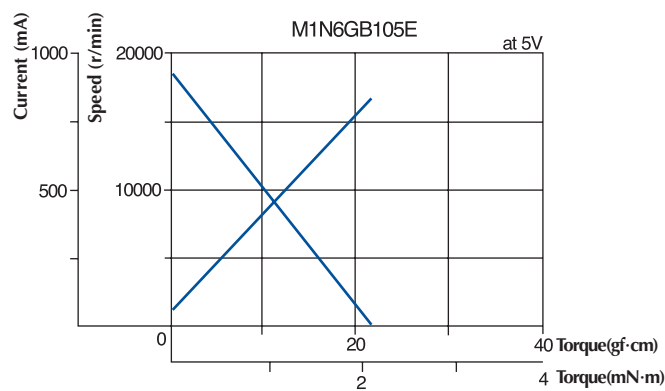
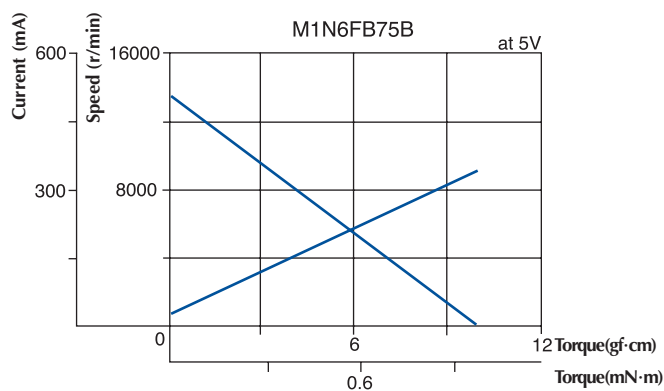
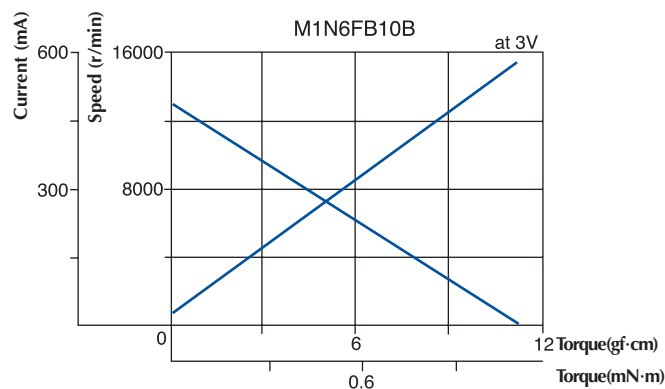
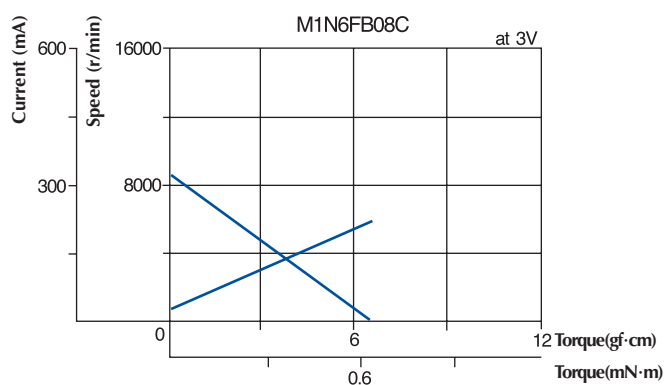
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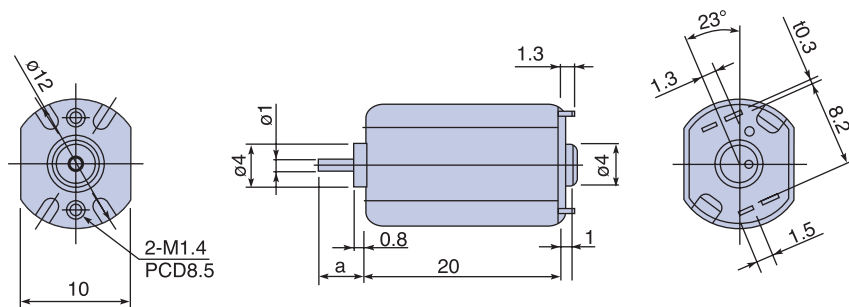
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
M1N6FB08C	1.5 to 6.0	3	8460	20	2	0.196	5980	84	6.83	0.669	a= 6.6
M1N6FB10B	1.0 to 3.0	3	13030	45	2	0.196	10670	141	11.1	1.088	a= 4.6
M1N6FB75B	1.5 to 6.0	5	13760	24	2	0.196	11070	83	10.2	1.000	a= 4.6
M1N6GB105E	1.5 to 6.0	5	18200	42	3	0.296	15600	160	21.1	2.068	a= 9.6

Characteristics



Outline



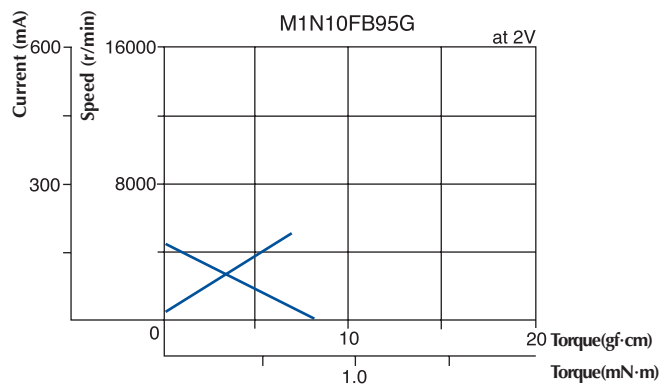
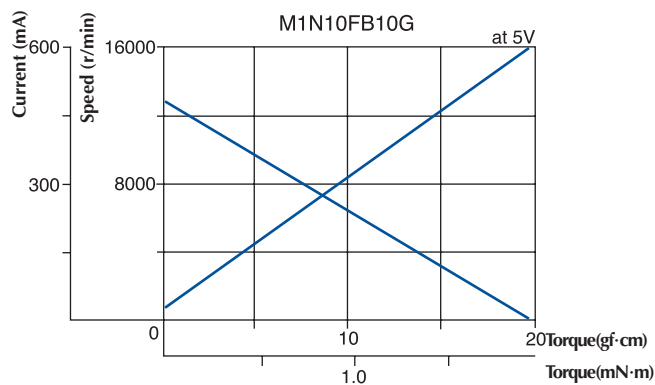
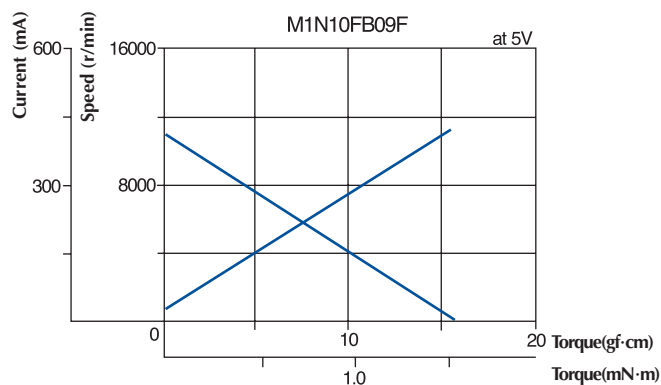
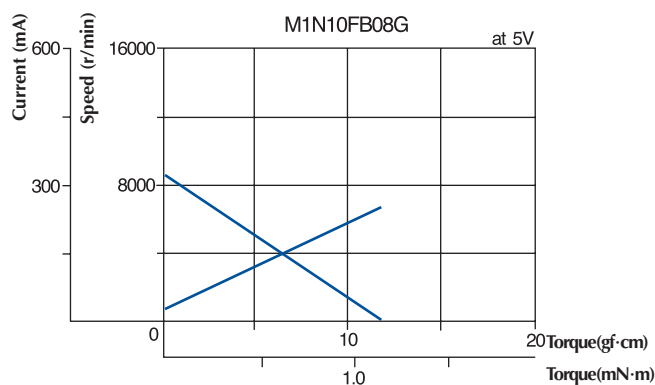
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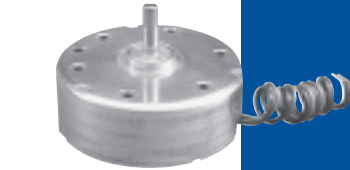
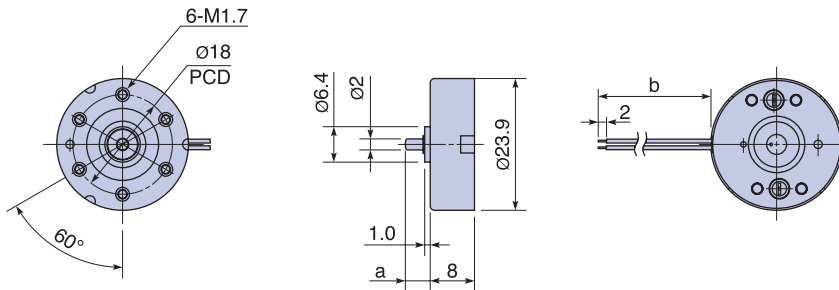
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
M1N10FB08G	1.5 to 8.0	5	8530	15	3	0.294	6500	72	12.6	1.235	a= 8.5
M1N10FB09F	1.5 to 6.0	5	10820	20	3	0.294	8760	92	15.7	1.539	a= 6.5
M1N10FB10G	1.0 to 5.0	5	13270	30	3	0.294	11220	119	19.4	1.901	a= 8.5
M1N10FB95G	0.5 to 5.0	2	4030	15	2	0.196	3010	60	7.9	0.775	a= 8.5

Characteristics



Outline



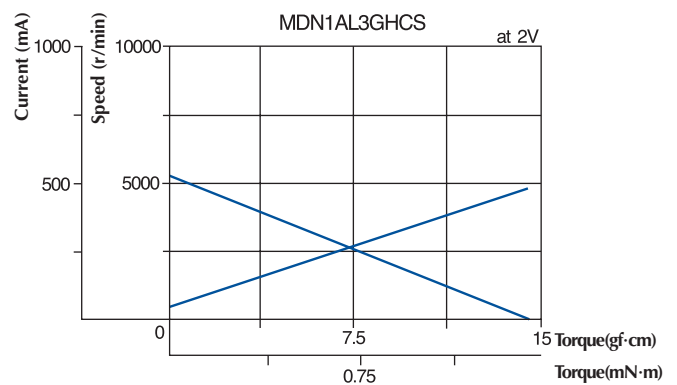
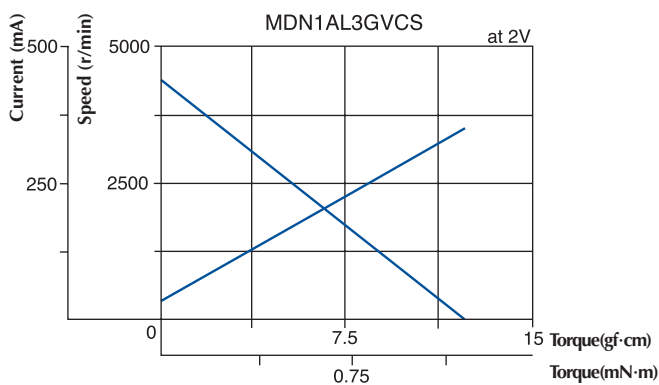
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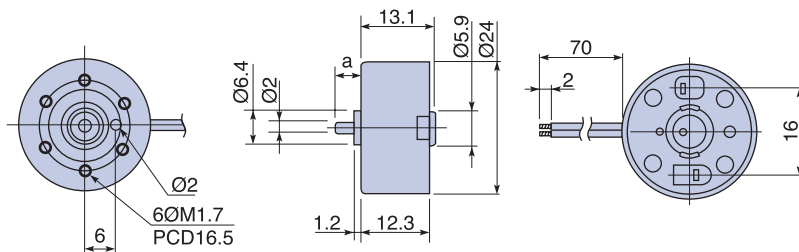
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)	Wire Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)		
MDN1AL3GVCS	0 to 4.5	2	4500	35	3	0.294	3400	112	12.5	1.225	a=4.5	b=76
MDN1AL3GHCS	0 to 4.5	2	5250	43	3	0.294	4200	136	14.7	1.44	a=4.5	b=76
MDN1AL3CVCS	0 to 4.5	2	4500	35	3	0.294	3400	112	12.5	1.225	a=7.5	b=76
MDN1AL3RHCS	0 to 4.5	2	5250	43	3	0.294	4200	136	14.7	1.44	a=5.0	b=140
MDN1AL3PHCS	0 to 4.5	2	5250	43	3	0.294	4200	136	14.7	1.44	a=6.0	b=76

Characteristics



Outline



DC

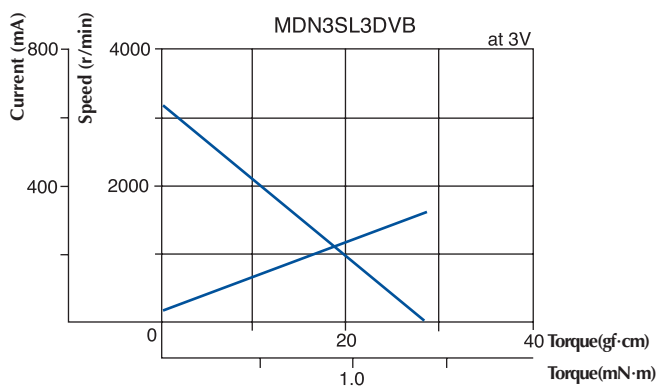
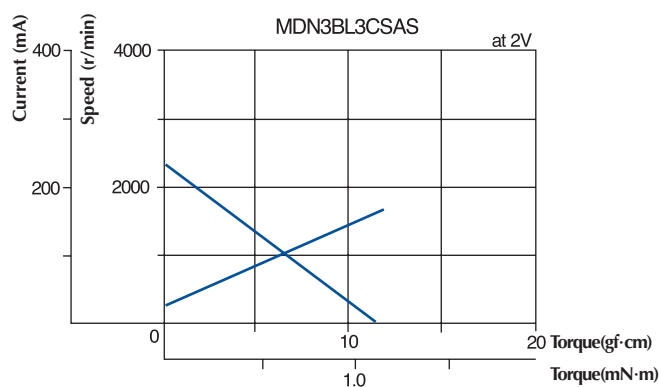
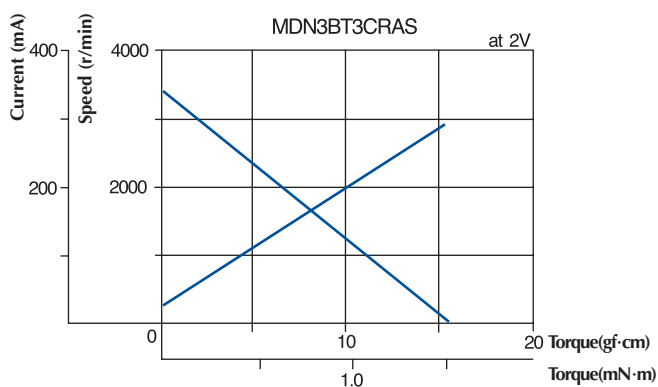
UNIT: mm

※ Terminal type, Lead wire type and Lead wire with connector type is available

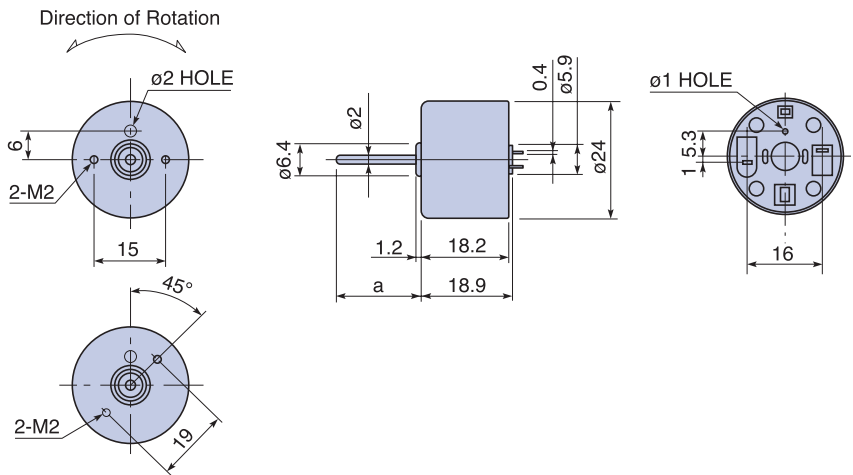
Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
MDN3BT3CRAS	0.7 to 6.0	2	3280	22	4	0.392	2470	93	16.0	1.569	a= 6.0
MDN3BL3CSAS	0.7 to 6.0	2	2290	17	4	0.392	1480	71	12.0	1.177	a= 6.0
MDN3SL3DVB	0.7 to 6.0	3	3010	30	4	0.392	2590	55	28.5	2.793	a= 7.2

Characteristics



Outline



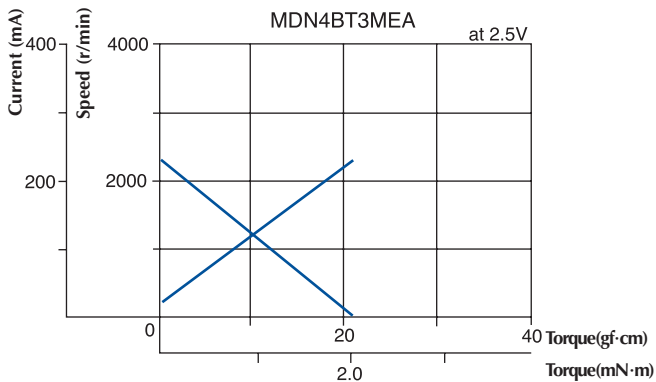
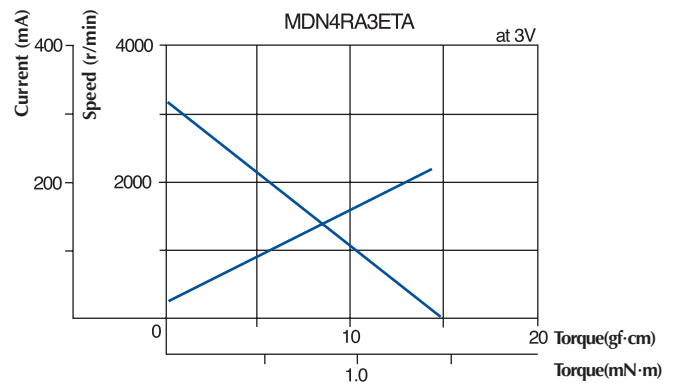
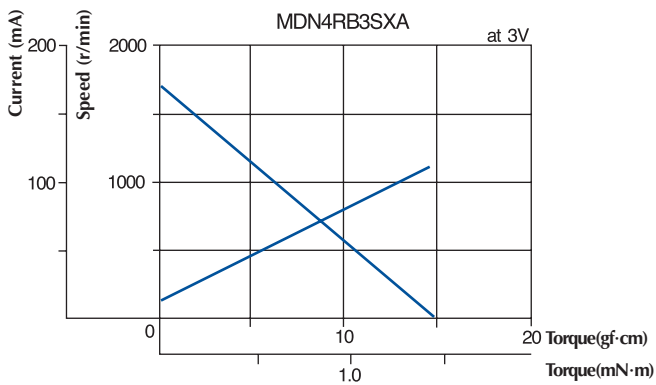
DC

UNIT: mm

Specifications

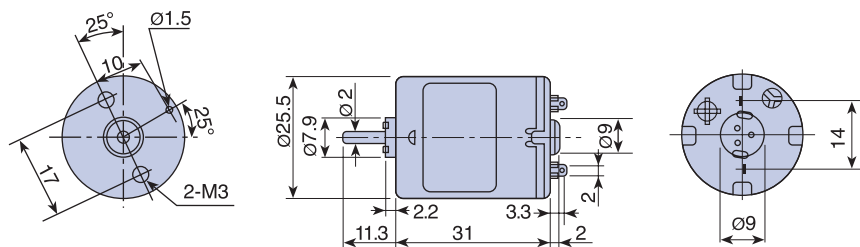
Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
MDN4RB3SXA	1 to 6.0	3.0	1670	12	3	0.294	1350	32	15.0	1.471	a= 6.8 B Type
MDN4RA3ETA	1 to 6.0	3.0	3200	30	3	0.294	2500	70	15.0	1.471	a= 11.0 A Type
MDN4BT3MEA	1 to 6.0	2.5	2344	21	3	0.294	2014	50	21.1	2.070	a= 9.3

Characteristics



Outline

Direction of Rotation



UNIT: mm

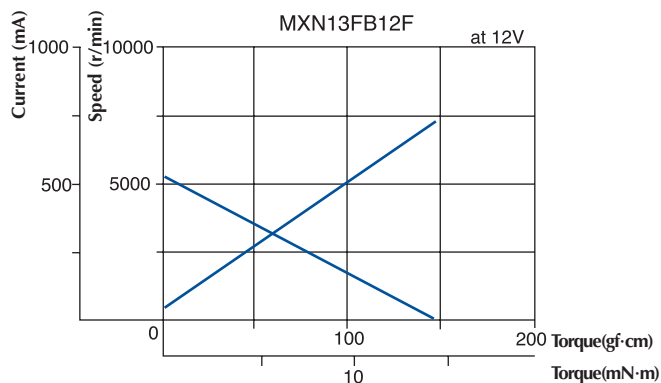
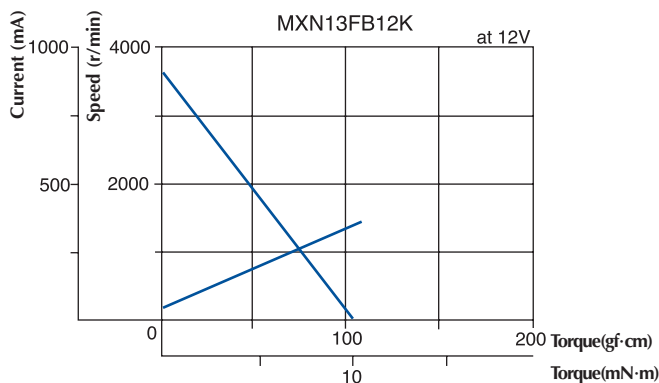
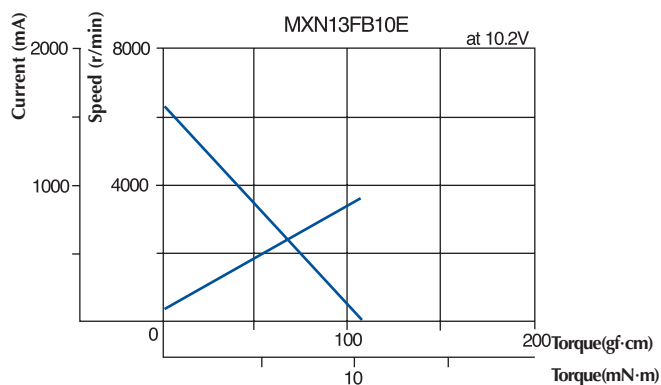
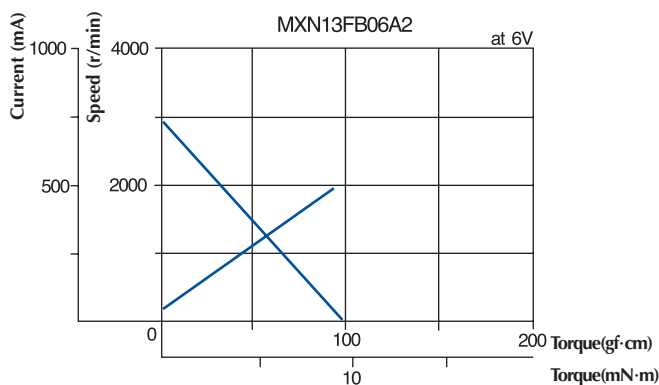


DC

Specifications

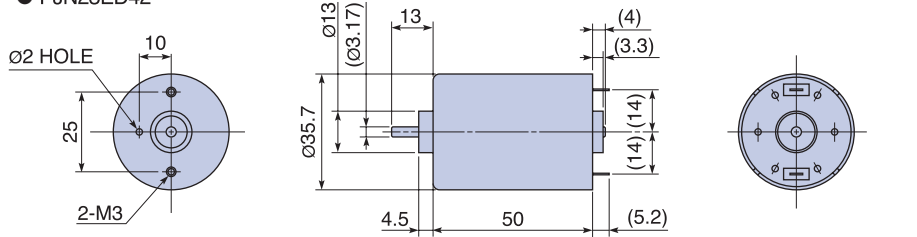
Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque		Shaft Length (mm)
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)	
MXN13FB06A2	3 to 10	6.0	2800	25	30	2.942	1900	180	90	8.826	11.3
MXN13FB10E	5 to 12	10.2	6190	40	30	2.942	4520	250	111	10.885	11.3
MXN13FB12K	8 to 13	12.0	3640	25	50	4.903	1980	190	110	10.787	11.3
MXN13FB12F	10 to 14	12.0	5190	33	30	2.942	4100	175	140	13.729	11.3

Characteristics

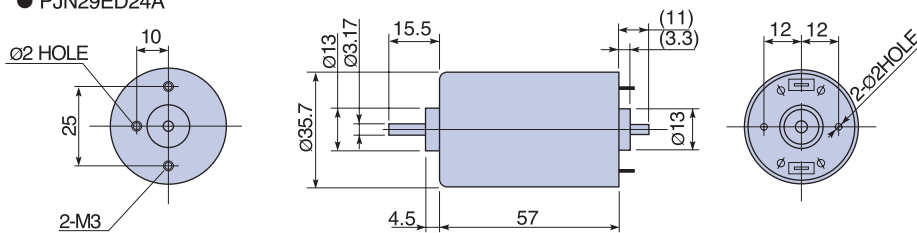


Outline

● PJN23ED42



● PJN29ED24A



UNIT: mm



DC

Specifications

Model	Operating Voltage (V)	Rated Voltage (V)	No Load Speed (r/min)	No Load Current (mA)	Rated Load		Rated Load Speed (r/min)	Rated Current (mA)	Starting Torque	
					(gf·cm)	(mN·m)			(gf·cm)	(mN·m)
PJN23ED42	12 to 42	42	4850	100max	160	15.69	4150	350 max.	800 min.	90 min.
PJN29ED24A	12 to 42	19.1	2900	100max	160	15.69	2580	400 max.	800 min.	78.45 min.

Characteristics

