

Dia 10mm Flat DC Miniature Motor



JFF-M10VA

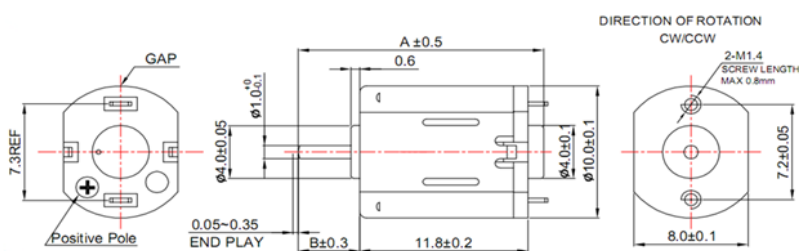
Weight: 2.6g (approx.)

Typical Application

Blood Pressure Pump
 Card Reader
 Camera
 Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL	VOLTAGE OPERATING RANGE	NOMINAL V	NO LOAD		AT MAXIMUM EFFICIENCY					STALL			
			SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT W	TORQUE mN·m	CURRENT A			
JFF-M10VA	6230	2.0-5.0	4.5	23200	0.065	17500	0.14	0.1	1	0.2	0.39	4	0.3
JFF-M10VA	9120	1.0-3.0	1.5	14000	0.12	6000	0.3	0.16	1.6	0.08	0.25	2.6	0.45
JFF-M10VA	7230	3-5	4.5	19600	0.03	15300	0.11	0.13	1.4	0.21	0.61	6.2	0.38
JFF-M10VA	8210	3-5	4.5	21500	0.032	17260	0.13	0.16	1.6	0.28	0.8	8.2	0.53

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 8mm Flat DC Mini Motor

JFF-K20

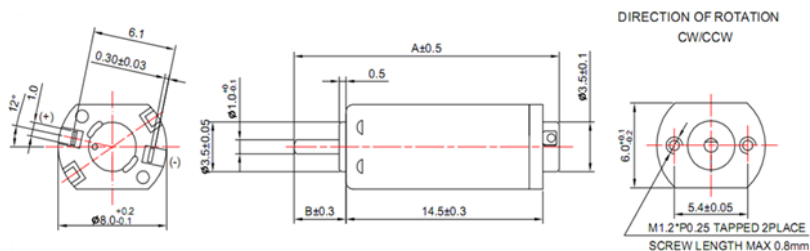
Weight: 2.4g (approx.)



Typical Application

 Note Book PC
 Optical Disk Drive

Key Features

 -Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush


MODEL	VOLTAGE OPERATING RANGE	NO LOAD			AT MAXIMUM EFFICIENCY				STALL				
		NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m g·cm	OUTPUT W	TORQUE mN·m g·cm	CURRENT A			
JFF-K20VA	6205	2.0-3.5	3	11800	0.04	5800	0.1	0.15	1.5	0.07	0.27	2.8	0.16
JFF-K20VA	7130	2.0-4.0	3.5	23800	0.04	18700	0.15	0.12	1.25	0.25	0.57	5.82	0.56
JFF-K20WD	9101	1.5 - 3.5	2.8	22200	0.054	17230	0.19	0.13	1.3	0.23	0.58	5.9	0.65

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 8mm Flat DC Mini Motor



JFF-K10A

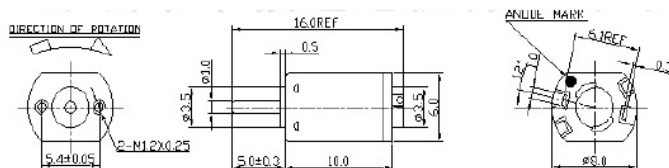
Weight: 1.6g (approx.)

Typical Application

 Note Book PC
 Optical Disk Drive

Key Features

- Plastic End Cap
- NdFeB Magnet
- Stainless Steel Shaft
- Precious Metal Brush



MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT g·cm	TORQUE mN·m	CURRENT g·cm		
JFF-K10WA	5Z215	2.5 - 3.5	3	20500	0.057	13870	0.12	0.06	0.63	0.089	0.19	1.9	0.25
JFF-K10VA	05240	2.0-4.0	3.0	20500	0.028	14582	0.069	0.054	0.55	0.08	0.186	1.9	0.17
JFF-K10VA	07170	1.5-3.5	2.4	24500	0.047	18062	0.132	0.067	0.68	0.13	0.255	2.6	0.37

Customization

- a.Length A, B
- b.Technical Data
- c.Varistor for option

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.

Dia 10mm Flat DC Miniature Motor



JFF-1016VA

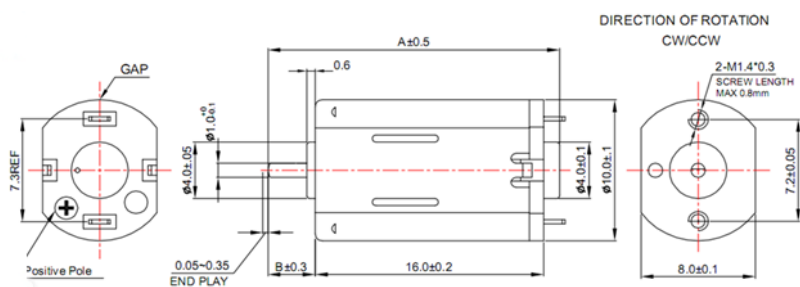
Weight: 4.3g (approx.)

Typical Application

Blood Pressure Pump
 Camcorder
 Electric Shaver
 Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL	OPERATING RANGE	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT			
		V	r/min	A	r/min	A	mN·mg·cm	W	mN·mg·cm	A			
JFF-1016VA	7190	2.0-4.0	3	8700	0.04	7200	0.085	0.1	1	0.07	0.45	4.5	0.28

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 10mm Flat DC Miniature Motor

JFF-1012TA

Weight: 3.2g (approx.)

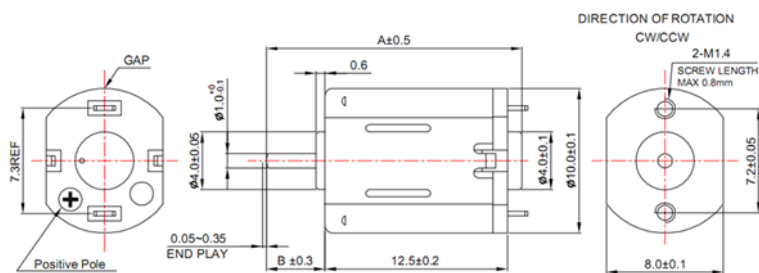


Typical Application

Blood Pressure Pump
 Camcorder
 Electric Shaver
 Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
	RANGE	V	r/min	A	r/min	A	mN·mg·cm	W	mN·mg·cm	A		
JFF-1012TA	2.0-4.0	3	12900	0.055	10300	0.11	0.1	1	0.11	0.4	4	0.38

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D24mm*L27.5mm DC Motor Type

JFF-260A/JFK-260A

Weight: 30g (approx.)

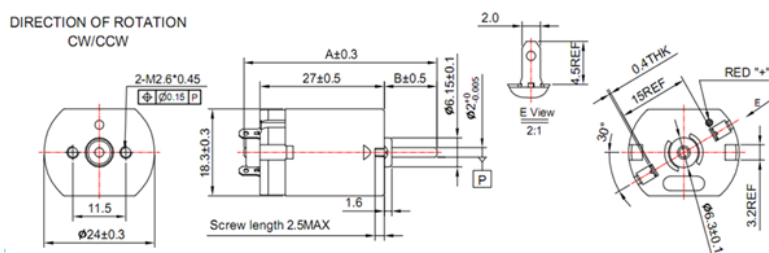


Typical Application

Door Lock Actuator
Rearview Mirror
Electric Shaver
Scanner

Key Features

-Plastic End Cap
-Leaf Brush System
-Oil-impregnated Bearing
-Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL		
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT	
	RANGE	V	r/min	A	r/min	A	mN·m/g·cm	W	mN·m/g·cm	A	
JFK-260SA18120	3.0-6.0	6	10400	0.15	8486	0.6	2.48 25.3	2.24	14.4	147	2.94
JFK-260SA10280	6.0-12.0	12	8600	0.05	7300	0.17	1.47 15	1.12	9.7	99	0.84
JFK-260SA10300	6.0-24.0	24	17300	0.07	14100	0.31	2.84 29	4.19	15.5	158	1.38
JFF-260PA10390	10-15	15	7100	0.023	6000	0.13	1.91 19.5	1.2	12.3	125	0.68
JFF-260PA3057	1.5 - 3.5	2.4	7800	0.15	6790	1.01	2.39 24.3	1.69	18.4	188	6.75
JFF-260PA4032	1.0 - 1.5	1.2	6900	0.26	5910	1.55	1.97 20.1	1.22	13.7	140	9.2
JFK-260SA3260	2.4 - 3.5	2.4	8600	0.25	7160	1.24	2.29 23.4	1.72	13.7	140	6.18

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 20.4mm Flat Micro RC Motor

JFF-180/JFK-180

Weight: 32g (approx.)

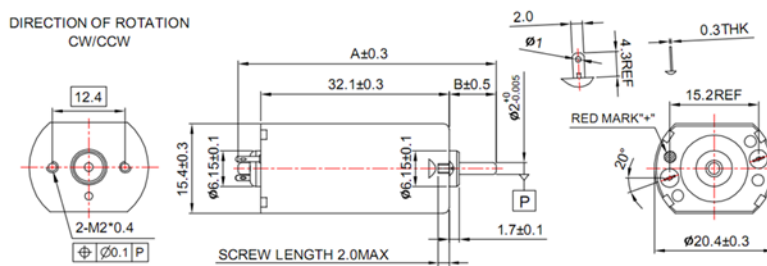


Typical Application

Mini Printer
 Electric Shaver
 RC Model/Toy
 Tooth Brush

Key Features

-Metal End Cap
 -Permanent Magnet
 -Carbon Steel/Stainless Steel Shaft
 -Precision Metal/Carbon Brush



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL				
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT			
	RANGE	V	r/min	A	r/min	A	mN·m·g·cm	W	mN·m·g·cm	A			
JFF-180PA	3036	1.0-2.0	1.2	5600	0.22	4100	1.1	1.86	19	0.8	6.9	70	3
JFF-180PA	2950	2.0-3.0	2.4	8000	0.16	7400	0.49	0.98	10	0.76	11.8	120	4.5
JFF-180SH	17157	3.0-9.0	6	7500	0.07	6289	0.36	2.3	23.5	1.49	14	143	1.89
JFF-180PH	3334	3.0-7.5	7	33000	0.65	28062	3.7	6.2	63.2	18.11	41.2	420	21
JFF-180PV	2661	1-3	2.4	6900	0.18	5620	0.79	1.87	19	1.1	10.1	103	3.5
JFF-180PV	3730	1.0 - 1.5	1.2	7000	0.3	5800	1.45	1.64	16.7	0.99	9.56	97	7
JFF-180SV	2657	1-3	2.4	7900	0.17	6580	0.84	1.62	16.6	1.12	9.7	99	4.2
JFF-180SV	3730	1.0 - 1.5	1.2	7400	0.32	6080	1.48	1.55	15.8	0.99	8.71	89	6.8
JFK-180SH	10400	12-24	24	10200	0.03	8570	0.16	2.51	25.6	2.25	15.7	160	0.83
JFK-180SH	14180	5-12	12	12000	0.07	9980	0.34	2.31	23.6	2.41	13.7	140	1.7

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 18.7mm DC Micro Motor

JFF-170PA

Weight: 33g (approx.)

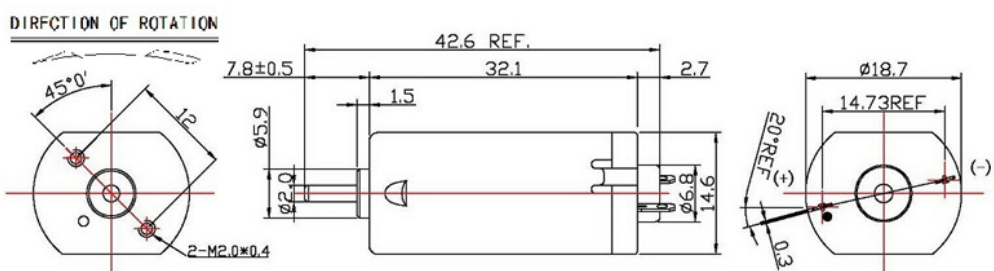


Typical Application

electric razor

Key Features

- Plastic End Cap
- Permanent Magnet
- Carbon Steel/Stainless Steel Shaft
- Metal Brush



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL	
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT
	RANGE	V	r/min	A	r/min	A	mN·m·g·cm	W	mN·m·g·cm	A
JFF-170PA 2838	1-3	2.4	9900	0.21	8340	1.12	1.99 20.2	1.73	12.6 128	6
JFF-170PA 3724	1.0 - 1.5	1.2	7800	0.33	6480	1.62	1.82 18.6	1.24	10.8 110	8

Customization

- a. Shaft length
- b. Technical Data
- c. Varistor for option

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.

Dia 20.4mm Flat DC Micro Motor



JFF-130/JFK-130

Weight: 24g (approx.)

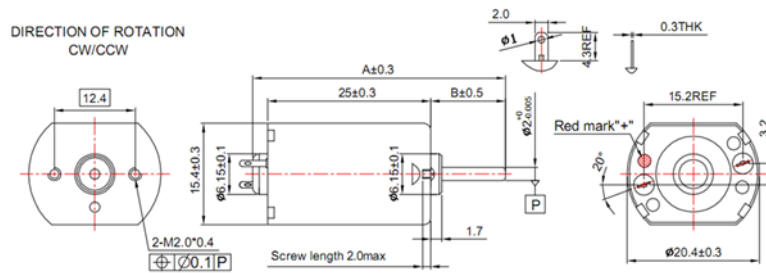
Typical Application

Air Conditioning Damper
 Actuator
 Electric Shaver
 RC Model/Toy
 Tooth Brush

Key Features

-Metal End Cap
 -Permanent Magnet
 -Carbon Steel/Stainless Steel Shaft

-Precision Metal Brush/Carbon Brush



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL		
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT	
	RANGE	V	r/min	A	r/min	A	mN·m/g·cm	W	mN·m/g·cm	A	
JFF-130PA 16155	2.0-3.0	2.3	4000	0.07	2500	0.3	1.32 13.5	13.8	3.92	40	0.76
JFF-130PA 17145	3.0-6.0	6	11500	0.1	10000	0.39	1.27 13	1.33	10	102	2.3
JFF-130SH 2356	1.5-3.0	3	12800	0.27	10337	1.13	1.9 19.4	2.08	10	102	4.75
JFK-130PH 7555	6.0-9.0	7.19	2700	0.02	1999	0.05	0.8 8.16	0.17	3	30.6	0.15
JFF-130RH 11340	3.5 - 5.5	5	5400	0.03	4220	0.11	0.56 5.7	0.25	2.55	26	0.38
JFF-130SH 11340	3-12	7	5700	0.08	4160	0.22	1.33 13.6	0.58	4.91	50	0.58
JFF-130SH 14230	2.5 - 10.0	6	7400	0.05	6060	0.23	1.2 12.3	0.76	6.67	68	1.03
JFK-130RH 15210	4.5 - 6.0	4.8	8300	0.075	6540	0.28	0.89 9	0.61	4.17	43	1.03
JFK-130SH 9450	6-24	12	7200	0.03	5680	0.11	1.12 11.4	0.66	5.3	54	0.42

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 15.5mm Flat DC Micro Motor



JFF-050/JFK-050

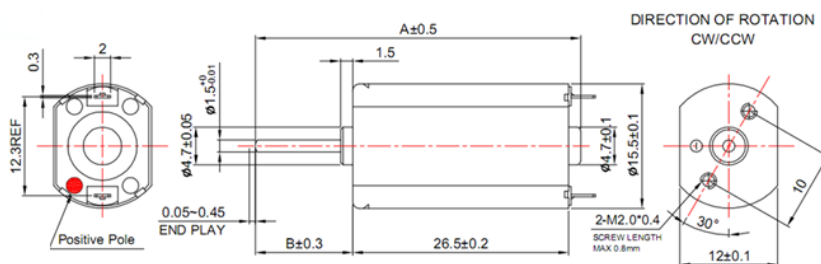
Weight: 18g (approx.)

Typical Application

Blood Pressure Pump
 Electric Lock
 Camera
 Toy

Key Features

-Metal End Cap
 -Permanent Magnet
 -Stainless Steel Shaft
 -Precious Metal/Carbon Brush



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
	RANGE	V	r/min	A	r/min	A	mN·mg·cm	W	mN·mg·cm	A		
JFF-050PH12140	2.0-9.0	7	12500	0.06	9800	0.3	1.18	12	1.2	5.29	54	1.1
JFF-050PH11170	2.0-9.0	7	10500	0.04	9300	0.12	0.49	5	0.48	4.51	46	0.8
JFK-050PH5430	3.5-24.0	24	13800	0.03	9200	0.14	1.1	11.2	1.06	3.33	34	0.23
JFK-050TS2434	2.0-4.2	3.7	16800	0.37	16300	0.6	0.49	5	0.84	17.6	180	7.45
FK-050SH13125	3-9	6	11500	0.09	9100	0.34	1.12	11.4	1.07	5.39	55	1.3
JFF-050SB9250	5.0 - 11.5	8	8100	0.023	6610	0.1	0.63	6.4	0.44	3.43	35	0.45
JFF-050SB11170	2-8	7	10400	0.046	8440	0.2	0.83	8.5	0.73	4.41	45	0.85
JFF-050SH2633	1.0 - 1.7	1.5	10900	0.19	8940	0.87	0.79	8.1	0.74	4.41	45	3.95

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 14mm Flat DC Micro Motor



JFF-031VA

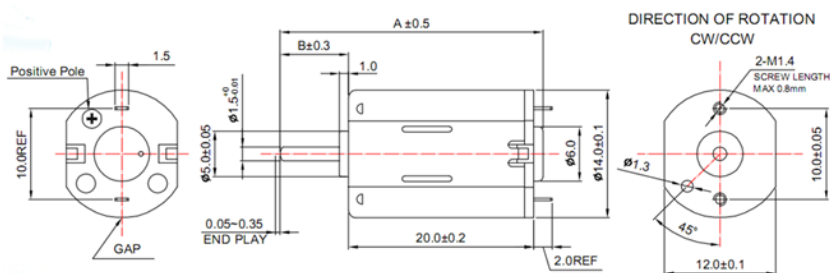
Weight: 9.8g (approx.)

Typical Application

Blood Pressure Pump
 Electric Lock
 Camera
 Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL	VOLTAGE	NO LOAD			AT MAXIMUM EFFICIENCY				STALL			
		OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT	
		RANGE	V	r/min	A	r/min	A	mN·mg·cm	W	mN·mg·cm	A	
JFF-031VA 8310	2.0-4.0	3	4000	0.012	2700	0.055	0.3	3	0.08	0.9	9.1	0.15
JFF-031VA 9230	2.0-4.0	3	4000	0.025	3200	0.075	0.3	3	0.1	1	10	0.3
JFF-031VA 12125	3.0-8.0	7.4	19200	0.07	17500	0.25	0.5	5	0.9	4.1	42	1.8

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 15.5mm Flat DC Micro Motor



JFF-030PA/JFF-030PK

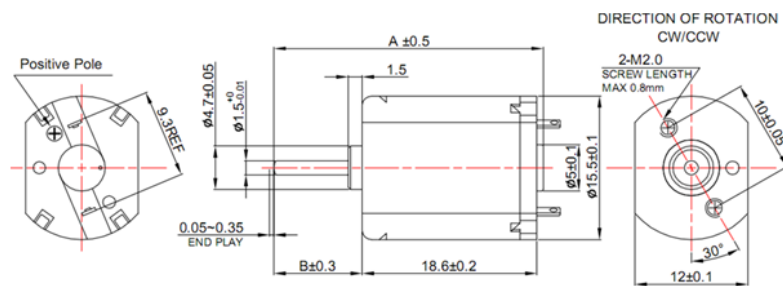
Weight: 12.8g (approx.)

Typical Application

Blood Pressure Meter
CD/DVD-ROM Drive
Electric Lock
Game Controller

Key Features

-Plastic End Cap
-Permanent Magnet
-Stainless Steel Shaft
-Precious Metal Brush



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL		
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
	RANGE	V	r/min	A	r/min	A	mN·m·g·cm	W	mN·m·g·cm	A		
JFF-030PA 11155	2.0-4.0	3	7200	0.045	5500	0.17	0.49	5	0.28	2.06	21	0.59
JFF-030PA 1592	2.0-4.0	3.5	14300	0.09	12500	0.3	0.49	5	0.64	3.92	40	2
JFF-030PK 5440	3.5-12.0	12	11000	0.02	7800	0.065	0.49	5	0.4	1.67	17	0.18
JFF-030PK 9210	3-7	7	14800	0.056	11500	0.2	0.56	5.7	0.67	2.5	25	0.68
JFF-030PK 11160	2.0 - 5.5	5	13800	0.066	10870	0.25	0.53	5.4	0.6	2.5	25	0.91

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D24mm*L30.5mm DC Motor



JFC-280A

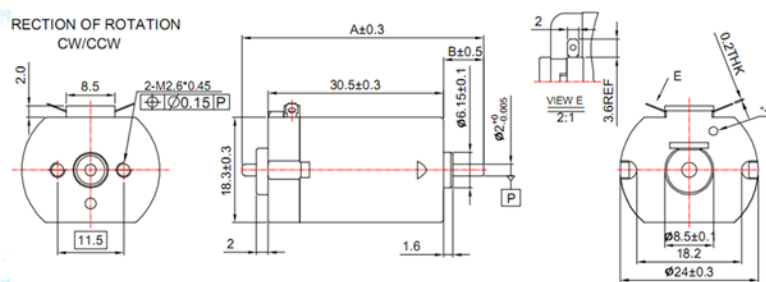
Weight: 38g (approx.)

Typical Application

Door Lock Actuator
 Rearview Mirror
 Electric Shaver
 Scanner

Key Features

-Plastic End Cap
 -Leaf Brush System
 -Oil-impregnated Bearing
 -Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL		
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT	
	RANGE	V	r/min	A	r/min	A	mN·m·g·cm	W	mN·m·g·cm	A	
JFC-280SA21145	6.0-12.0	12	12500	0.11	10775	0.69	5.2 53	5.83	37.5 382	4.29	
JFC-280SA20155	6.0-14.0	13.5	13800	0.12	11610	0.48	3.18 32.4	4.2	30.7 313	3.42	
JFC-280SA 8470	6.0-24.0	24	8250	0.04	6308	0.15	3.03 30.9	1.89	13 133	0.53	
JFC-280SA 2865	2.4 - 3.0	3	7700	0.2	6420	1	2.53 25.8	1.7	15.2 155	5	
JFC-280SA 3245	2.4 - 3.0	2.4	8800	0.29	7350	1.47	2.72 27.7	2.09	16.5 168	7.45	

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D24mm*L27mm DC Motor



JFC-260A

Weight: 30g (approx.)

Typical Application

Door Lock Actuator
 Hair Trimmer
 Hair Dryer
 Scanner

Key Features

-Plastic End Cap
 -Leaf Brush System
 -Oil-impregnated Bearing
 -Carbon Steel Shaft

JFC-260A

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE		OUTPUT		CURRENT A	
							mN·m	g·cm	W	mN·m		g·cm
JFC-260SA14265	6.0-12.0	12	8700	0.05	7330	0.27	2.47	25.2	1.9	15.7	160.1	1.42
JFC-260SA15215	6.0-12.0	12	10500	0.06	8894	0.33	2.7	27.5	2.52	17.7	181	1.83
JFC-260SA16185	6.0-12.0	12	12300	0.08	10596	0.47	3.26	33.3	3.62	23.5	240	2.9
JFC-260SA10300	6.0 - 26.5	26.5	19000	0.08	15470	0.35	3.19	32.5	5.16	17.2	175	1.54

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D20.2mm*L25mm DC Motor

JFC-140A

Weight: 24g (approx.)

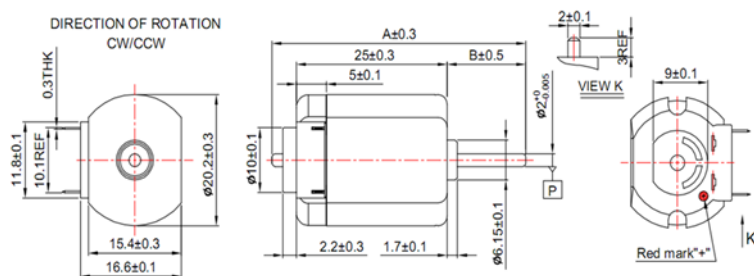


Typical Application

Rearview Mirror
 Headlamp Adjuster
 Mirror Adjuster
 RC Model/Toy

Key Features

-Plastic End Cap
 -Leaf Brush System
 -Oil-impregnated Bearing
 -Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL		
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT W	TORQUE mN·m	CURRENT A	
	RANGE	V	r/min	A	r/min	A	mN·m	W	mN·m	A	
JFC-140SA10206	6.0-9.0	9	10300	0.063	7949	0.21	1.2 12.2	0.97	5.1 52.02	0.72	
JFC-140SA10350	6.0-12.0	12	8200	0.045	6475	0.17	1.7 17.3	1.7	7.8 79.6	0.63	
JFC-140PA11260	6.0-9.0	9	8100	0.07	6310	0.25	1.76 18	1.17	8 81.6	0.87	
JFC-140PA17132	6.0-12.0	12	21500	0.21	17681	0.97	3.8 38.7	7.1	21.6 220	4.5	
JFC-140SA10350	6.0-12.0	12	8200	0.045	6475	0.17	1.7 17.3	1.7	7.8 79.6	0.63	

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

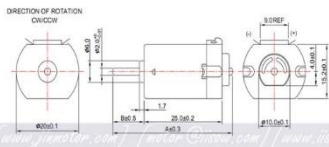
D20mm*L25mm DC Motor



JFA-130A/JFC-130A
Weight: 18.5g (approx.)

Typical Application
Motorized Plastic Model
Motorized Toy
Hair Remover
Massager

Key Features
-Plastic End Cap
-Precision Metal Brush/Carbon Brush
-Oil-impregnated Bearing
-Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
	V	r/min	A	r/min	A	mN.mg.cm	W	mN.mg.cm	A			
JFA-130RA/2270	2.4-3.0	3	18500	0.36	14170	1.18	0.92	9.4	1.36	3.92	40	2.2
JFA-130SA/14150	4.5-6.0	6	12400	0.14	9560	0.47	1.19	12.1	1.19	5.2	53	1.69
JFA-130RA/18100	1.5-3.0	3	12300	0.15	9710	0.56	0.74	7.6	0.76	3.53	36	2.1
JFA-130RA/2270	1.5-3.0	1.5	9100	0.2	6990	0.66	0.59	6	0.43	2.66	26	2.2
JFC-130RA/10300	4.5-12.0	12	18000	0.08	13760	0.26	0.9	9.2	1.3	3.83	39	0.84
JFC-130SA/2270	3.0-4.5	3	13500	0.27	10740	1.05	1.37	14	1.54	6.71	68	4.1

Customization
a. Length A, B
b. Technical Data
c. Varistor for option

Remarks
1. All values approximate
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric, wheel and accessories after evaluation.

D24mm*L30.5mm DC Motor

JFT-280A

Weight: 38g (approx.)

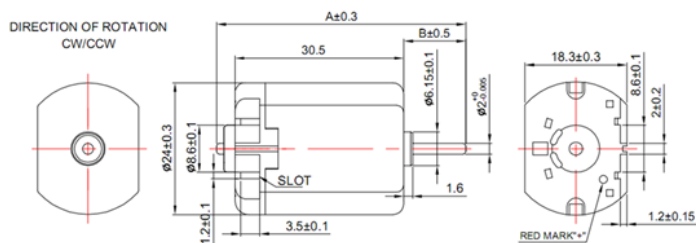


Typical Application

Retractable Rearview Mirror
 Door Lock Actuator
 Hair Remover
 Vending Machine
 Door Lock Actuator
 Steering Lock
 Air Conditioning Damper
 Actuator

Key Features

- Plastic End Cap
- Leaf Brush System
- Oil-impregnated Bearing
- Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
	RANGE	V	r/min	A	r/min	A	mN·m	g·cm	W	mN·m	g·cm	A
JFT-280SA21145	6.0-12.0	12	12500	0.11	10775	0.69	5.2	53	5.83	37.5	382.1	4.29
JFT-280SA21130	6.0-12.0	12	13480	0.11	11706	0.73	4.6	46.9	5.69	35.3	360	4.8
JFT-280SA18163	6.0-13.0	13	11800	0.12	9747	0.57	4.9	50	5.05	28.4	289	2.7
JFT-280SA 3340	1.5-2.5	1.9	7850	0.35	6349	1.39	3.05	31.1	1.9	16	163	6.6
JFT-280SA21130	6.0-12.0	12	13480	0.11	11706	0.73	4.6	46.9	5.69	35.3	360	4.8
JFT-280SA18163	6.0-13.0	13	11800	0.12	9747	0.57	4.9	50	5.05	28.4	289	2.7

Customization

- a. Length A, B
- b. Technical Data
- c. Varistor for option

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.

D24mm*L27mm DC Motor



JFT-260A

Weight: 31g (approx.)

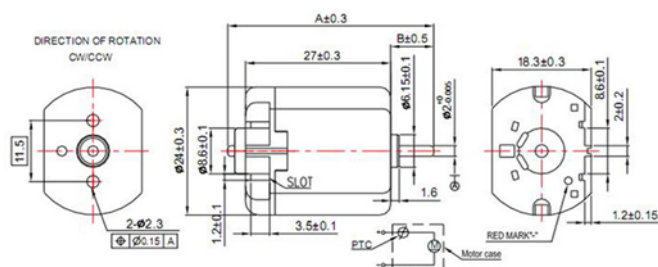
Typical Application

Retractable Rearview Mirror
 Door Lock Actuator
 Steering Lock
 Air Conditioning Damper
 Actuator
 Hair Trimmer
 Fax Machine

Key Features

-Plastic End Cap

- Leaf Brush System
- Oil-impregnated Bearing
- Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL	
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN-mg-cm	OUTPUT W	TORQUE mN-mg-cm	CURRENT A
JFT-260SA 17188	6.0-12.0	12	12000	0.11	10074	0.57	3.9 39.8	4.15	24.5 250	3
JFT-260SA 17188	6.0-12.0	12	12000	0.11	10074	0.57	3.9 39.8	4.15	24.5 250	3
JFT-260SA 19134	6.0-12.0	8.4	11500	0.13	9463	0.6	3.3 33.7	3.27	18.6 190	2.8

Customization

- a.Length A, B
- b.Technical Data
- c.Varistor for option

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.

D20.4mm*L25mm DC Motor

JFT-140A

Weight: 23g (approx.)

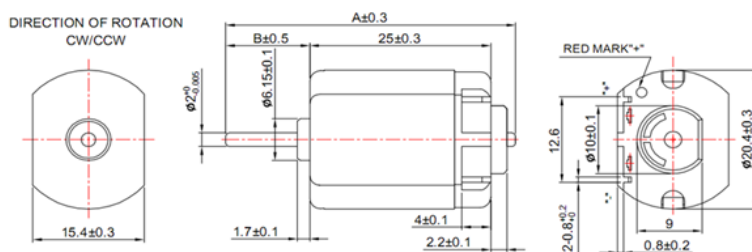


Typical Application

Rearview Mirror
 Headlamp Adjuster
 Mirror Adjuster
 RC Model/Toy

Key Features

-Plastic End Cap
 -Leaf Brush System
 -Oil-impregnated Bearing
 -Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
	RANGE	V	r/min	A	r/min	A	mN·mg·cm	W	mN·mg·cm	A		
JFT-140SA10350	6.0-12.0	12	8200	0.045	6475	0.17	1.7	17.3	1.7	7.8	79.6	0.63
JFT-140SA 8518	6.0-12.0	12	5500	0.04	4050	0.11	1.5	15.3	0.66	5.9	60.2	0.31
JFT-140SA13243	6.0-12.0	12	12800	0.31	10445	0.31	2.1	21.4	2.27	11.3	115.1	1.38
JFT-140SA10350	6.0-12.0	12	8200	0.045	6475	0.17	1.7	17.3	1.7	7.8	79.6	0.63
JFT-140SA 8518	6.0-12.0	12	5500	0.04	4050	0.11	1.5	15.3	0.66	5.9	60.2	0.31

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D28.5mm*L32.6mm DC Motor



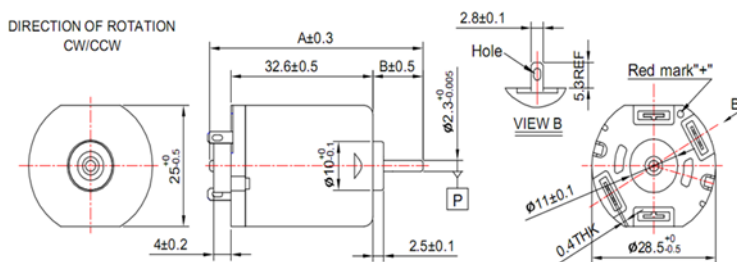
JFS-360/365A

Weight: 55g (approx.)

Typical Application

 Power Tool
 Garden Pump

Key Features

 -Plastic End Cap
 -Leaf Brush System
 -Sintered Bronze Bearing
 -3Slots / 5Slots Armature


MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL	
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT g·cm	TORQUE mN·m	CURRENT g·cm A
JFS-365SA 2347	6.0-14.0	13.5	21800	0.27	18400	1.46	6.4 65.3	12.32	41 418.2	7.9

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia35.8mm*L63mm*H31.5mm HVDC Motor



JFS-5516H

Weight ~230g (approx.)

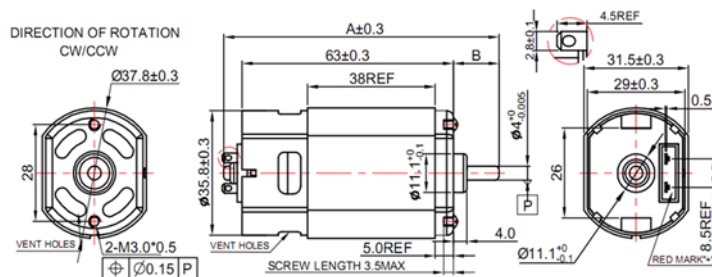
Typical Application

Rotary Tool
Power Brush
Mixer
Hair Clipper

Key Features

-DMD Insulation
-Cage Brush System
-Reversible
-Metal End Cap

-Low Noise
-12 Slots Armature, 24 Bars Commutator
-RoHS Compliant



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL	
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·mg·cm	OUTPUT W	TORQUE mN·mg·cm	CURRENT A
	JFS-5516SH08364R	AC Rect.	230	11200	0.12	7297	0.39	45.3 462	33.88	123 1257
JFS-5516SH08400R	AC Rect.	220	10100	0.06	6628	0.28	37.5 383	25.33	91.9 938	0.66

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D35.8mm*L63mm DC Motor

JFS-550H/JFS-555H

Weight: 230g (approx.)

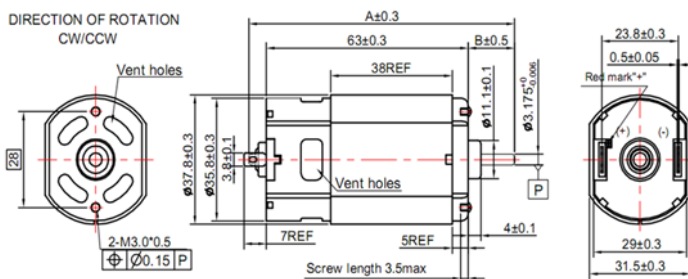


Typical Application

Cordless Power Tool
Window Lifter
Air Pump

Key Features

-Metal End Cap
-Leaf Brush System
-Class F Magnet Wire
-Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	RANGE	V	r/min	A	r/min	A	TORQUE	OUTPUT	TORQUE	CURRENT		
											mN·mg·cm	W
JFS-555SH3349	6.0-18.0	12	6000	0.1	5044	0.85	15	153	7.92	94.1	960	4.5
JFS-555SH3154R	4.0-12.0	6	2700	0.18	2074	0.6	9.31	95	2.02	40.2	410	2
JFS-555SH2764R	6.0-18.0	12	3780	0.13	2570	0.78	19.6	200	5.27	61.1	623	2.16

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D35.8mm*L53mm DC Motor

JFS-540H/JFS-545H

Weight: 180g (approx.)

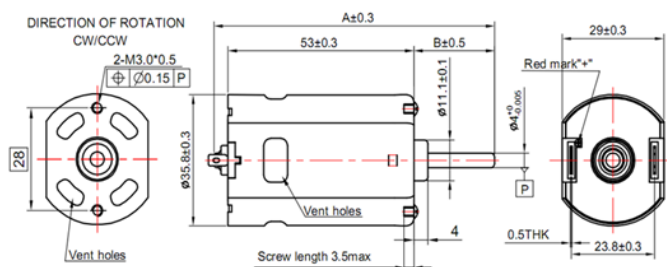


Typical Application

Cordless Power Tool
Window Lifter
Bilge Pump

Key Features

-Metal End Cap
-Leaf Brush System
-Class F Magnet Wire
-Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL		
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·mg·cm	OUTPUT W	TORQUE mN·mg·cm	CURRENT A	
JFS-540SH4753R	3.0-9.0	6.4	6200	0.69	5160	2.19	18.8 192	9.71	93.1 950	13.7	
JFS-545SH 2586	6.0-12.0	12	4700	0.26	3670	0.93	15.3 156	5.86	69.6 710.2	3.3	
JFS-545SH 21115	6.0-12.0	12	3800	0.12	2700	0.42	9.8 100	2.8	32.3 330	1.2	

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D28.5mm*L40mm DC Motor

JFS-390A/JFS-395A

Weight: 96g (approx.)

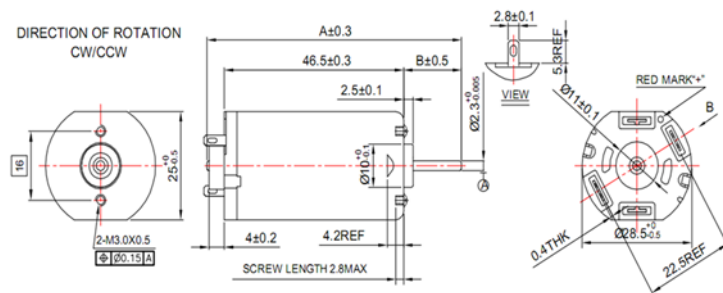


Typical Application

Exhaust Fan
Headrest Regulation
Window lifter

Key Features

-Plastic End Cap
-Leaf Brush System
-Sintered Bronze Bearing
-3Slots / 5Slots Armature



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL	
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT
	RANGE	V	r/min	A	r/min	A	mN·m·g·cm	W	mN·m·g·cm	A
JFS-390SA18190	6.0-12.0	12	4500	0.11	3582	0.44	9 91.8	3.22	44 448.8	1.8
JFS-390PA 3333	6.0-12.0	12	16000	0.38	13892	2.5	16 163	23.31	122 1240	16.5
JFS-390PA19100	6.0-24.0	24	9500	0.14	8033	0.77	14.8 151	12.49	96.1 980.2	4.2
JFS-390SA18190	6.0-12.0	12	4500	0.11	3582	0.44	9 91.8	3.22	44 448.8	1.8
JFS-390PA 3333	6.0-12.0	12	16000	0.38	13892	2.5	16 163	23.31	122 1240	16.5
JFS-390PA19100	6.0-24.0	24	9500	0.14	8033	0.77	14.8 151	12.49	96.1 980.2	4.2

Customization

- a.Length A, B
- b.Technical Data
- c.Varistor for option

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.

D28.5mm*L40mm DC Motor

JFS-380A/JFS-385A

Weight: 76g (approx.)

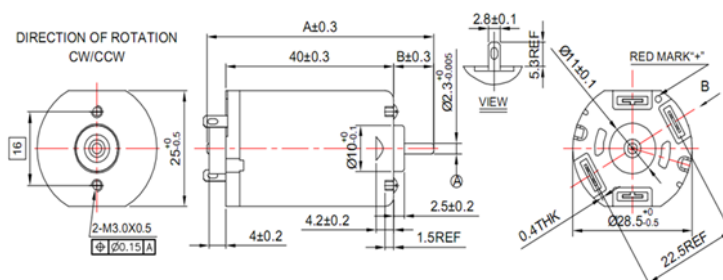


Typical Application

Electric clipper

Key Features

- Plastic End Cap
- Leaf Brush System
- Sintered Bronze Bearing
- 3Slots / 5Slots Armature



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT g·cm	TORQUE mN·m	CURRENT g·cm		
JFS-380SA 4037	2.0-6.0	2.4	5600	0.45	4592	2	6	61.2	2.76	33	336.6	8.91
JFS-380SA 3550	2.0-6.0	3.6	6300	0.3	5493	1.79	6	61.2	3.3	43	438.6	10.4
JFS-380SA 11186	6.0-24.0	24	6600	0.06	5238	0.23	6.07	61.9	3.33	29.4	299.9	0.9

Customization

- a. Length A, B
- b. Technical Data
- c. Varistor for option

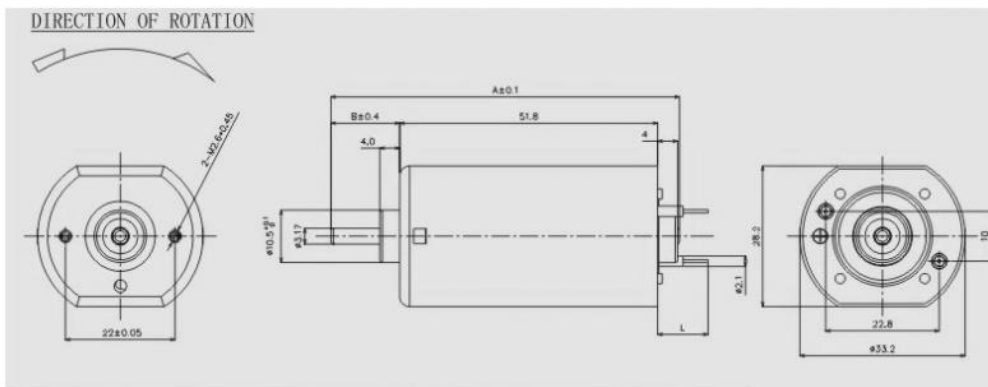
Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.

Brush dc motor JFK-5508

JFK-5508

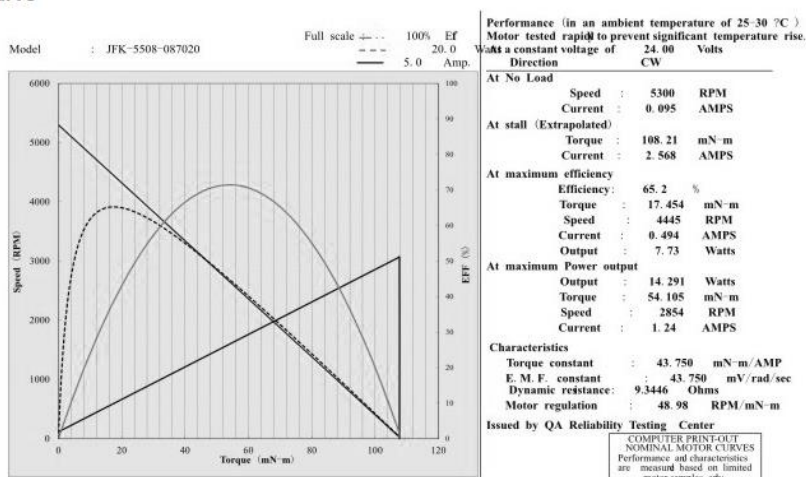
Tags: Planetary Gearbox motor



型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		最大效率点 AT MAXIMUM EFFICIENCY				起动 STALL			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	功率 OUTPUT	转矩 TORQUE	电流 CURRENT		
			r/min	A	r/min	A	mN.m	g.cm	W	mN.m	g.cm	A
JFK-5508-087020	6V-28V	24V	5300	0.095	4445	0.494	17.454	178	7.73	108.21	1100	2.57
JFK-5508-143015	6V-28V	24V	3200	0.055	2604	0.24	12.302	125	3.43	66.02	672	1.05
JFK-5508-112018	6V-28V	12V	2000	0.065	1566	0.235	9.241	94	1.47	42.61	434	0.85

马达性能及转轴长度可按客户的需要设定。
 Motors specification and shaft length can be tailor-made according to customer's requirements.

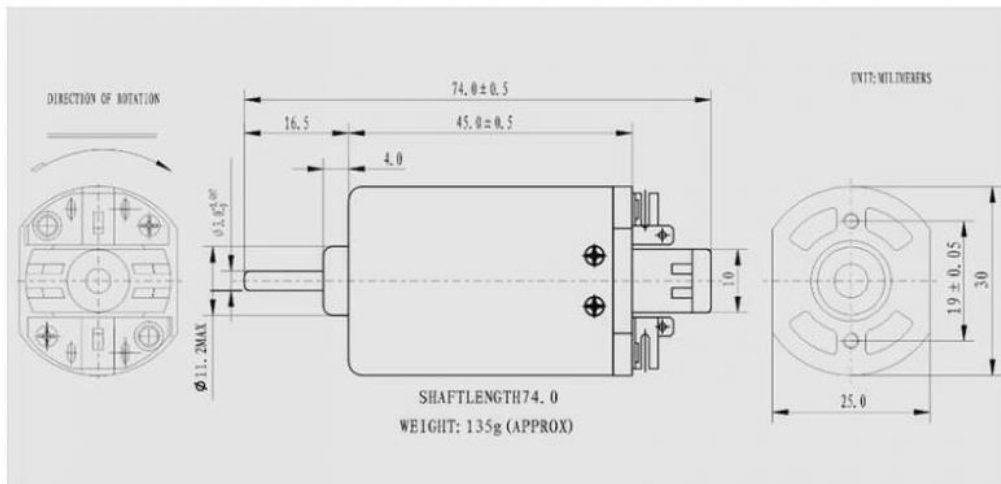
Curve



Brush dc motor JFK-3045SA

JFK-3045SA

Weight: N/A (approx.)

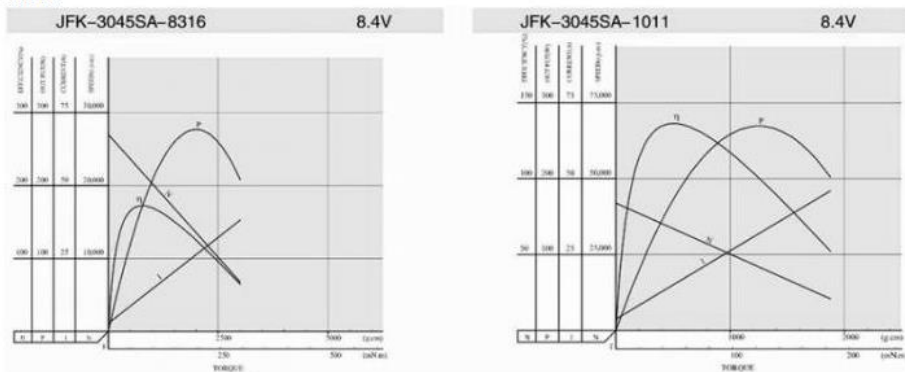


型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		最大效率点 AT MAXIMUM EFFICIENCY				起动 STALL			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	功率 OUTPUT	转矩 TORQUE	电流 CURRENT		
			r/min	A	r/min	A	mN·m	g·cm	W	mN·m	g·cm	A
JFK-3045SA-8316	DC6-12V	DC8.4V	27000	2.8	21830	11.83	765	74.97	171.41	4000	392	50
JFK-3045SA-1011	DC6-12V	DC8.4V	42000	3.8	33560	15.1	503	49.294	172.99	2500	245	60

马达性能及转轴长度可按客户的需要设定。

Motors specification and shaft length can be tailor-made according to customer's requirements.

Curve



D24mm*L36mm DC Motor

JFK-290A

Weight: 50g (approx.)

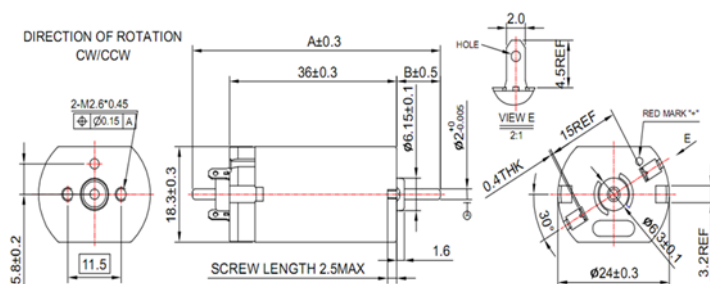


Typical Application

Hair Curler
 Hair Remover
 Vending Machine
 RC Model

Key Features

-Plastic End Cap
 -Leaf Brush System
 -Oil-impregnated Bearing
 -Carbon Steel Shaft



MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL		
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN-m	OUTPUT W	TORQUE mN-m	g-cm	CURRENT A
JFK-290SA 4039	1.5-4.5	3	9200	0.27	7934	1.69	4.3 43.8	3.59	31.4	320	10.6
JFK-290SA13338	6.0-12.0	12	4100	0.04	3303	0.19	4 40.8	1.32	21	214.2	0.92
JFK-290PA18170	6.0-24.0	24	17000	0.11	14378	0.7	7.5 76.5	11.53	54.9	560	4.4

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

D24mm*L30.5mm DC Motor

JFK-280A

Weight: 38g (approx.)

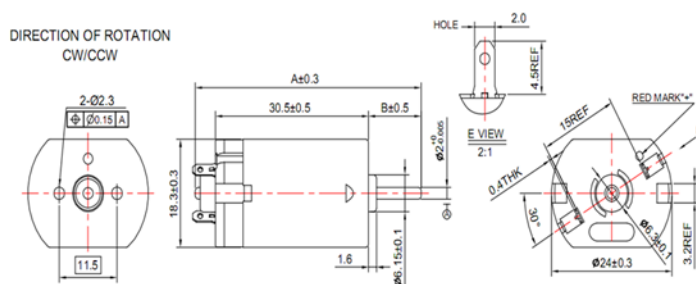


Typical Application

Retractable Rearview Mirror
 Door Lock Actuator
 Hair Remover
 Vending Machine

Key Features

-Plastic End Cap
 -Leaf Brush System
 -Oil-impregnated Bearing
 -Carbon Steel Shaft



MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT		
		RANGE	V	r/min	A	r/min	A	mN·m·g·cm	W	mN·m·g·cm	A		
JFK-280SA	4525	1.0-2.0	1.2	8670	0.73	6560	2.24	1.74	17.7	1.3	9.61	98	8.43
JFK-280SA	16245	6.0-12.0	12	7300	0.06	6027	0.29	3.4	34.6	2.15	19.5	198	1.35
JFK-280PA	10400	8-24	24	8900	0.04	7360	0.19	3.38	34.5	2.6	19.6	200	0.92
JFK-280PA	18165	10-15	12	10500	0.09	9000	0.54	4.12	42	3.88	28.9	295	3.25
JFK-280SA	18165	10-15	12	12300	0.075	10710	0.5	3.4	34.7	3.81	26.3	268	3.4

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 12mm Flat High Torque DC Micro Motor

JFF-N30/JFK-N30

Weight: 7.6g (approx.)

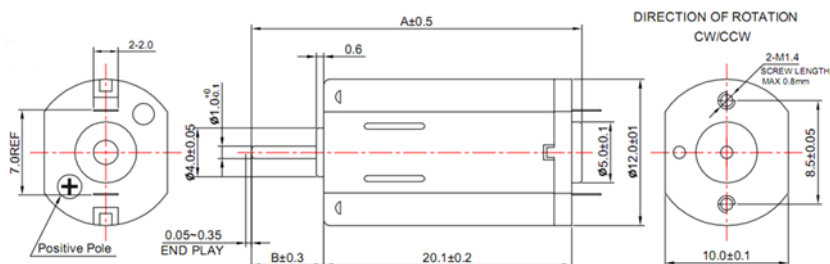


Typical Application

MD/CD Player
 Blood Pressure Meter
 Camera
 RC Model/Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN-m	OUTPUT g-cm	TORQUE mN-m	CURRENT g-cm		
JFF-N30VA	6320	2.0-5.0	4.6	5300	0.01	4100	0.03	0.18	1.8	0.08	0.8	8	0.11
JFF-N30VA	8250	2.0-6.0	5	7600	0.011	7600	0.06	0.3	3	0.23	0.15	15	0.26
JFK-N30TS	2427	2.0-4.2	3.7	38000	0.38	30000	2.6	0.12	12	0.074	5.9	60	7
JFF-N30VB	9210	1.4 - 6.0	2.5	5300	0.015	4220	0.0059	0.16	1.6	0.07	0.78	8	0.23

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 12mm Flat DC Micro Motor

JFF-N20A

Weight: 5.6g (approx.)

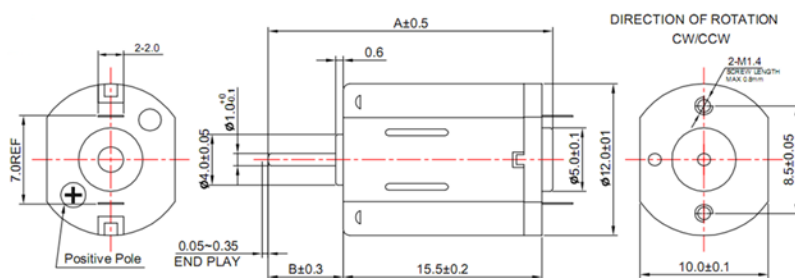


Typical Application

Blood Pressure Pump
 Door Lock Actuator
 Electric Shaver
 RC Model/Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN-m	OUTPUT g-cm	TORQUE mN-m	CURRENT g-cm		
		RANGE	V	r/min	A	r/min	A	mN-m	W	mN-m	A		
JFF-N20VA	5240	3.0-12.0	12	16100	0.015	12240	0.06	0.3	3	0.37	1.2	12	0.21
JFF-N20VA	8260	2.0-5.0	5	14600	0.03	11800	0.11	0.26	2.6	0.31	1.3	13	0.47
JFF-N20TA	2818	0.8-1.5	1.2	34000	0.7	31000	1.4	0.2	2	0.64	1.6	16	6
JFF-N20PA	10190	2-5	3	12100	0.045	9390	0.16	0.21	2.1	0.2	0.92	9.4	0.54
JFF-N20WA	9Z190	2-6	5	16900	0.035	13930	0.16	0.33	3.3	0.47	1.85	19	0.77

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 12mm Flat DC Micro Motor

JFF-N10VA

Weight: 4.7g (approx.)

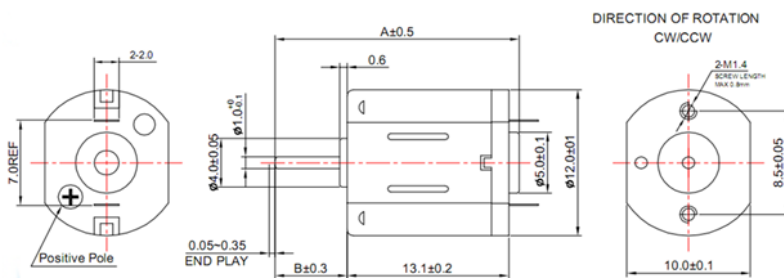


Typical Application

Car CD/MD Player
 Optical Disk Drive
 Camera
 Toy

Key Features

-Plastic End Cap
 -NdFeB Magnet
 -Stainless Steel Shaft
 -Precious Metal Brush



MODEL		VOLTAGE		NO LOAD			AT MAXIMUM EFFICIENCY				STALL		
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT W	TORQUE mN·m	CURRENT A		
JFF-N10VA	10140	2.0-4.0	3	16000	0.046	13000	0.18	0.25	2.5	0.33	1.18	12	0.8

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.

Dia 10mm Flat DC Miniature Motor

JFF-M20VA

Weight: 4g (approx.)

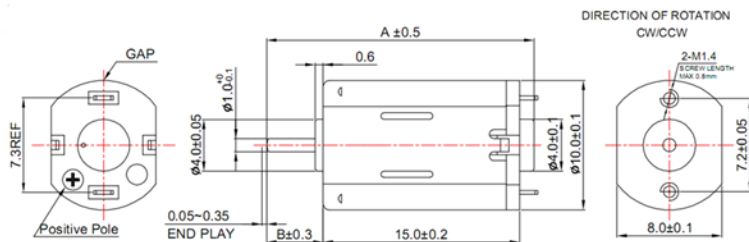


Typical Application

Blood Pressure Pump
Card Reader
Camera
Toy

Key Features

-Plastic End Cap
-NdFeB Magnet
-Stainless Steel Shaft
-Precious Metal Brush



MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE mN·m	OUTPUT g·cm	TORQUE mN·m	CURRENT g·cm		
		RANGE	V	r/min	A	r/min	A	mN·m	W	mN·m	A		
JFF-M20VA	8130	2.0-3.0	3	15200	0.045	11800	0.16	0.16	1.6	0.19	0.69	7	0.55
JFF-M20VA	7170	1.5-3.0	2	8000	0.025	6000	0.075	0.09	0.9	0.06	0.35	3.6	0.23
JFF-M20VA	10100	1.5-4.0	2.8	18000	0.05	14800	0.19	0.2	2	0.3	1.1	11	0.88
JFF-M20VA	1255	1.2 - 2.0	1.5	17100	0.094	13300	0.33	0.15	1.6	0.21	0.69	7	1.15

Customization

- Length A, B
- Technical Data
- Varistor for option

Remarks

- All values approximate.
- Customized electric performance on request by using suitable windings.
- Available with required cables, eccentric wheel and accessories after evaluation.