



Weight: 4.7g (approx.)

Dia 12mm Flat DC Micro Motor

Model No.:KLS23-DBM3-FF-N10VA

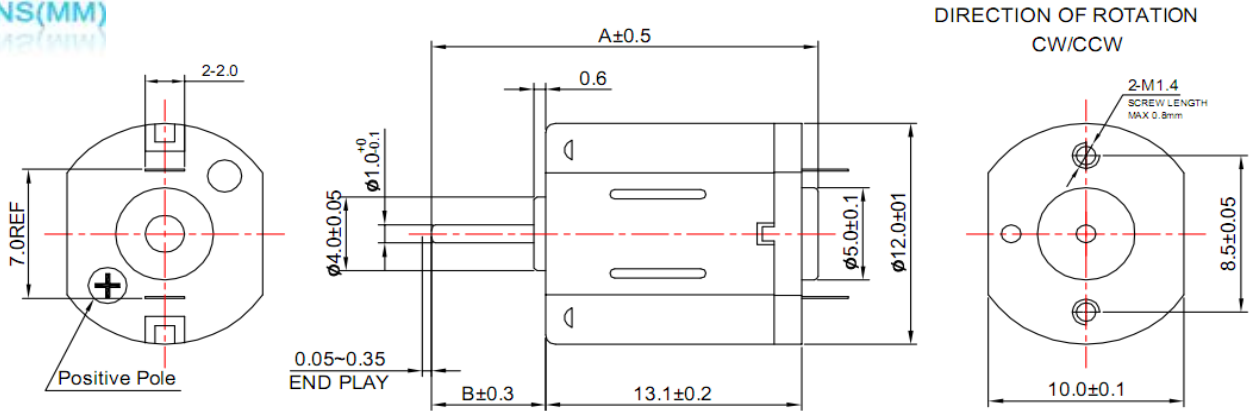
- 1 Typical Applications:**
- Car CD/MD Player
 - Optical Disk Drive
 - Camera
 - Toy

2 KEY FEATURES

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

3 DIMENSIONS(MM)

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



4 TECHNICAL DATA

MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE		TORQUE mNm	CURRENT A		
								g.cm	W				
FF-N10VA	10140	2.0-4.0	3	16000	0.046	13000	0.18	0.25	2.5	0.33	1.18	12	0.8

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.



Weight: 5.6g (approx.)

Dia 12mm Flat DC Micro Motor

Model No.:KLS23-DBM3-FF-N20VA/TA

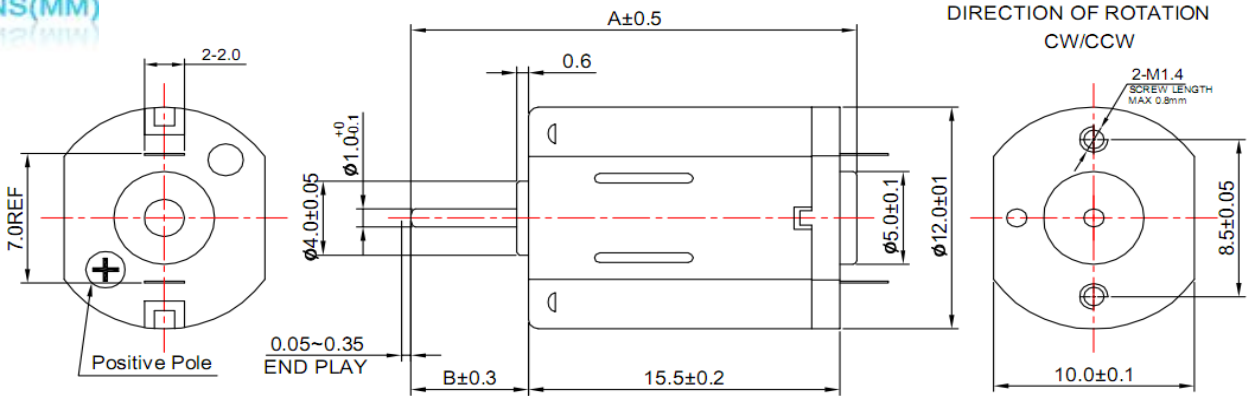
- 1 Typical Applications:**
- Blood Pressure Pump
 - Door Lock Actuator
 - Electric Shaver
 - RC Model/Toy

2 KEY FEATURES

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

3 DIMENSIONS(MM)

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



4 TECHNICAL DATA

MODEL		VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STALL			
		OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE		OUTPUT W	TORQUE		CURRENT A
								mNm	g.cm		mNm	g.cm	
FF-N20VA	05240	3.0-12.0	12	16100	0.015	12240	0.06	0.3	3	0.37	1.2	12	0.21
	08260	2.0-5.0	5	14600	0.03	11800	0.11	0.26	2.6	0.31	1.3	13	0.47
FF-N20TA	2818	0.8-1.5	1.2	34000	0.7	31000	1.4	0.2	2	0.64	1.6	16	6

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.



Weight: 7.6g (approx.)

Dia 12mm Flat High Torque DC Micro Motor

Model No.:KLS23-DBM3-FF/FK-N30VA

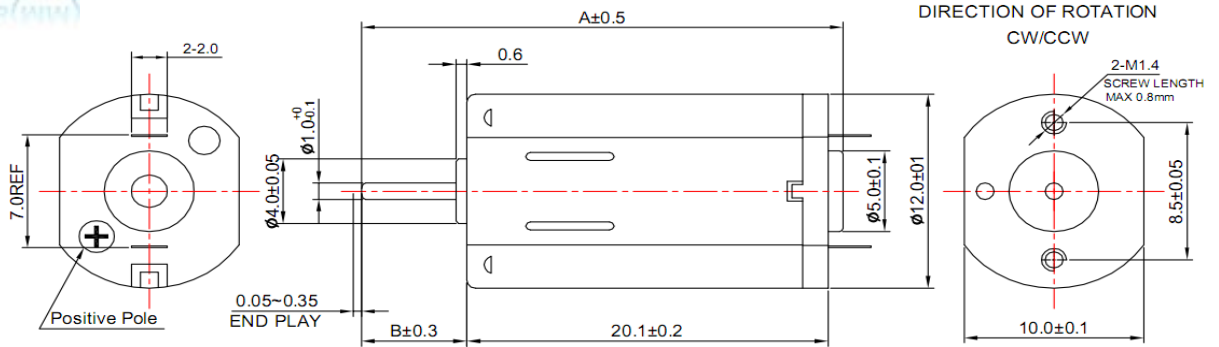
- 1 Typical Applications:**
- MD/CD Player
 - Blood Pressure Meter
 - Camera
 - RC Model/Toy

2 KEY FEATURES

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

3 DIMENSIONS(MM)

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



4 TECHNICAL DATA

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL			
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE		OUTPUT W	TORQUE		CURRENT A	
							mNm	g.cm		mNm	g.cm		
FF-N30VA	06320	2.0-5.0	4.6	5300	0.01	4100	0.03	0.18	1.8	0.08	0.8	8	0.11
	08250	2.0-6.0	5	7600	0.011	7600	0.06	0.3	3	0.23	0.15	15	0.26
FK-N30TS	2427	2.0-4.2	3.7	38000	0.38	30000	2.6	0.12	12	0.074	5.9	60	7

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.