



Weight: 16.5g (approx.)

D20mm*L25mm DC Motor

Model No.:KLS23-DBM9-FA/FC-130A

1

Typical Applications:

- Motorized Plastic Model
- Motorized Toy
- Hair Remover
- Massager

2

KEY FEATURES

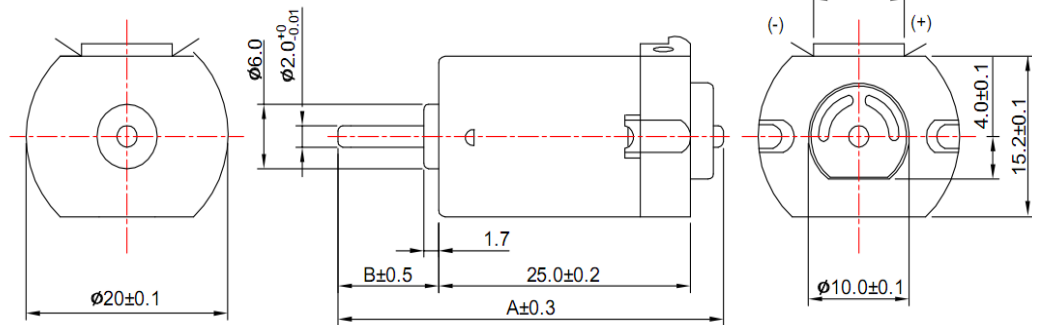
- Plastic End Cap
- Oil-impregnated Bearing
- Precision Metal Brush/Carbon Brush
- Carbon Steel Shaft

3

DIMENSIONS(MM)

Customization:

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

 DIRECTION OF ROTATION
 CW/CCW

4

TECHNICAL DATA

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	mNm	g.cm	W	mNm	g.cm
FA-130RA	2270	2.4-3.0	3	18500	0.36	14170	1.18	0.92	9.4	1.36	3.92	40
FA-130SA	14150	4.5-6.0	6	12400	0.14	9560	0.47	1.19	12.1	1.19	5.2	53

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: 23g (approx.)

D20.4mm*L25mm DC Motor

Model No.:KLS23-DBM9-FT-140A

1

Typical Applications:

Rearview Mirror
Headlamp Adjuster
Mirror Adjuster
RC Model/Toy

2

KEY FEATURES

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

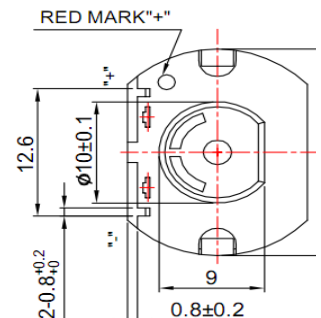
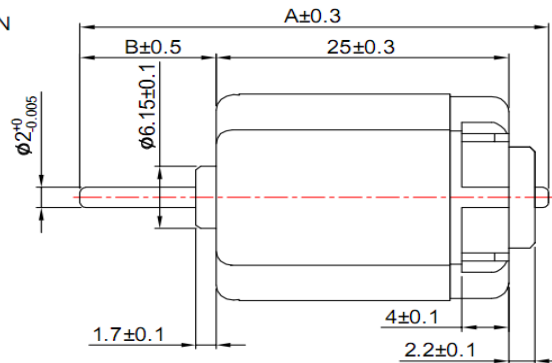
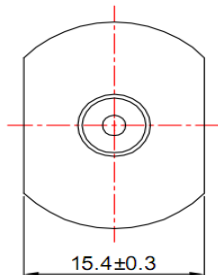
3

DIMENSIONS(MM)

Customization:

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

DIRECTION OF ROTATION
CW/CCW



4

TECHNICAL DATA

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	mNm	g.cm	W	mNm	g.cm	A
FT-140SA	10350	6.0-12.0	12	8200	0.045	6475	0.17	1.7	17.3	1.7	7.8	79.6	0.63
	8518	6.0-12.0	12	5500	0.04	4050	0.11	1.5	15.3	0.66	5.9	60.2	0.31

Remarks

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



Weight: 24g (approx.)

D20.2mm*L25mm DC Motor

Model No.:KLS23-DBM9-FC-140A

- 1 Typical Applications:**
- Rearview Mirror
 - Headlamp Adjuster
 - Mirror Adjuster
 - RC Model/Toy

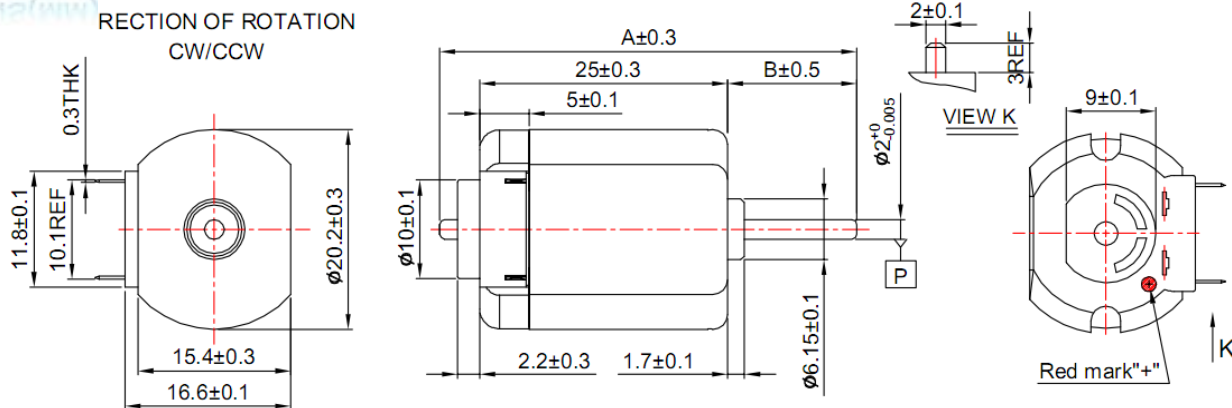
2 KEY FEATURES

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

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	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	TORQUE	
		RANGE	V	r/min	A	r/min	A	mNm	g.cm	W	mNm	g.cm
FC-140PA	11260	6.0-9.0	9	8100	0.07	6310	0.25	1.76	18	1.17	8.0	81.6
FC-140PA	17132	6.0-12.0	12	21500	0.21	17681	0.97	3.8	38.7	7.1	21.6	220
FC-140SA	10350	6.0-12.0	12	8200	0.045	6475	0.17	1.7	17.3	1.7	7.8	79.6

Remarks

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