



Weight: 23g (approx.)

## D20.4mm\*L25mm DC Motor

Model No.:KLS23-DBM11-FT-140A

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

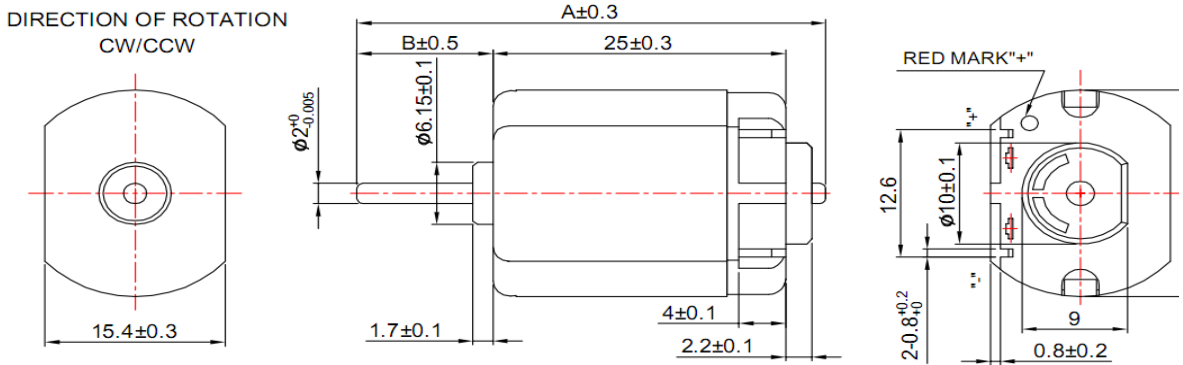
**2 KEY FEATURES**

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

**3 DIMENSIONS(MM)**

**Customization:**

- 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	
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**

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



Weight: 31g (approx.)

## D24mm\*L27mm DC Motor

Model No.:KLS23-DBM11-FT-260A

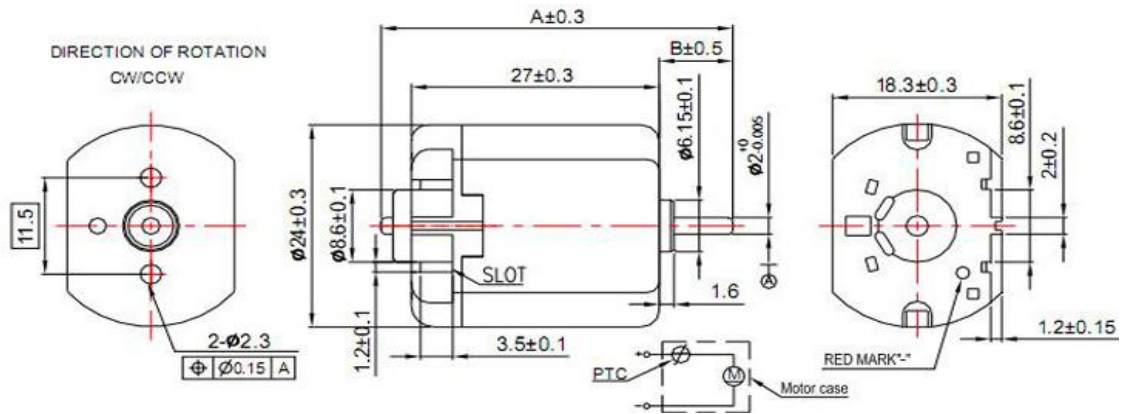
- 1 Typical Applications:**
- Hair Trimmer
  - Door Lock Actuator
  - Rearview Mirror
  - Fax Machine

### 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 & PTC 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 mNm	OUTPUT W	TORQUE mNm	CURRENT A		
								g.cm		g.cm			
FT-260SA	17188	6.0-12.0	12	12000	0.11	10074	0.57	3.9	39.8	4.15	24.5	250	3
	19134	6.0-12.0	8.4	11500	0.13	9463	0.6	3.3	33.66	3.27	18.6	190	2.8

**Remarks**

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



# KLS ELECTRONIC CO.,LTD



Weight: 38g (approx.)

## D24mm\*L30.5mm DC Motor

Model No.:KLS23-DBM11-FT-280A

### 1 Typical Applications:

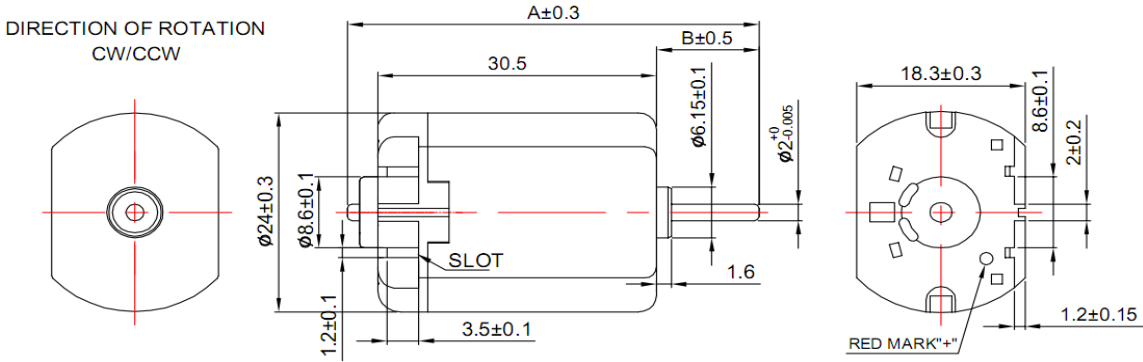
- Retractable Rearview Mirror
- Door Lock Actuator
- Hair Remover
- Vending Machine

### 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 & PTC for option



### 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-280SA	3340	1.5-2.5	1.9	7850	0.35	6349	1.39	3.05	31.1	1.9	16	163	6.6
	21130	6.0-12.0	12	13480	0.11	11706	0.73	4.6	46.9	5.69	35.3	360	4.8
	18163	6.0-13.0	13	11800	0.12	9747	0.57	4.9	50	5.05	28.4	289	2.7

**Remarks**

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