

# M22E-13 (φ 22 x 18mm)

Metal Brush

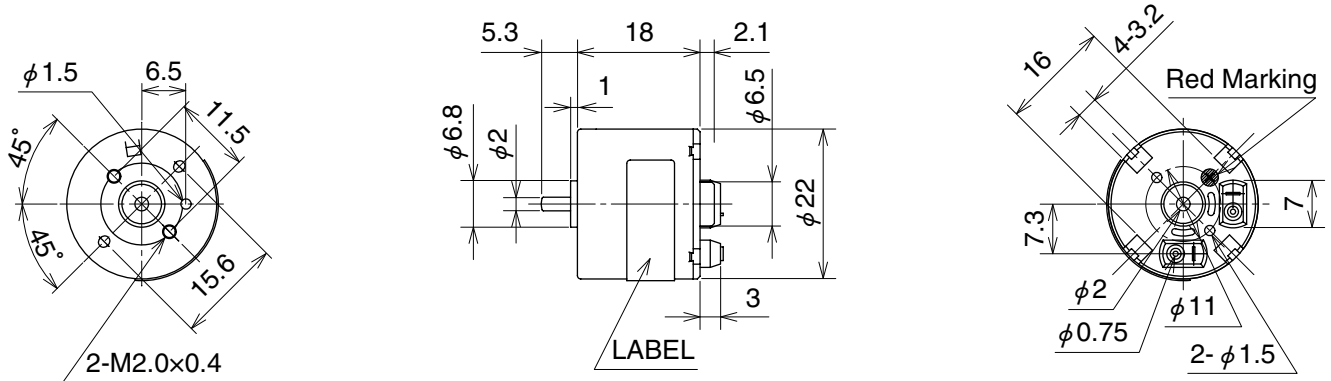


Weight:25.1g

## Applications

Shaver, Smart Lock

## External Dimensions



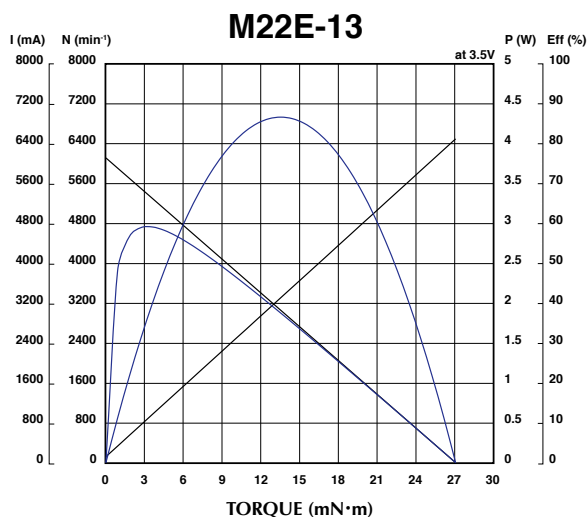
Unit: mm

## Reference Characteristics

Model	Voltage		No Load		Rated Load		Rated Load		Starting Torque		Starting Current	Shaft length
	Operating	Rated	Speed	Current			Speed	Current				
	(V)	(V)	(min <sup>-1</sup> )	(mA)	(gf·cm)	(mN·m)	(min <sup>-1</sup> )	(mA)	(gf·cm)	(mN·m)	(mA)	(mm)
M22E-13	3 to 4	3.5	6100	120	94.9	9.30	4000	1800	275.7	27	6481	—*

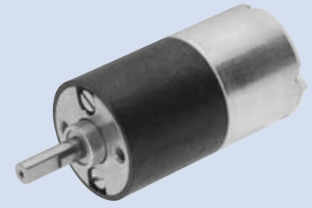
Characteristics and the shaft length can be customized.

## Characteristics



# M22E-13G (φ 22 x 39.5mm)

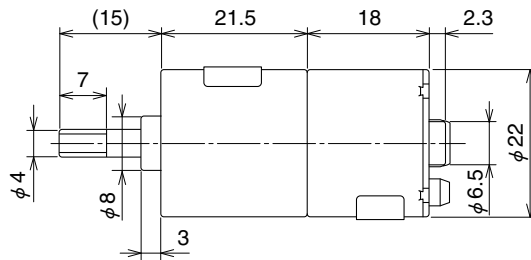
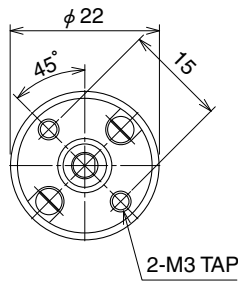
Metal Brush  
Neodymium Magnet



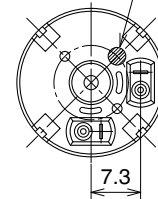
## Applications

Facial Care Equipment

## External Dimensions



Red Marking (+)



Unit: mm

## Reference Characteristics

Model	Voltage		No Load		Rated Load		Rated Load		Max Rated Load Torque		Starting Torque		Gear Box		
	Rated	Speed	Current			Speed	Current					Gear Ratio	Step	L1	
	(V)	(min <sup>-1</sup> )	(mA)	(gf·cm)	(mN·m)	(min <sup>-1</sup> )	(mA)	(gf·cm)	(mN·m)	(gf·cm)	(mN·m)				
M22E-13G	6	160	100	1000	98	135	480	2550	250	5918	580	1:35	4	21.5	
	6	119	100	1000	98	104	370	2550	250	8265	810	1:50	4	21.5	
	6	77	100	1500	147	68	420	4080	400	12448	1220	1:75	5	21.5	
	6	58	100	2000	196	51	430	5100	500	16530	1620	1:100	5	21.5	
	6	47	100	2000	196	42	360	5100	500	20408	2000	1:125	5	21.5	
	6	39	100	2000	196	36	310	5100	500	25510	2500	1:150	5	21.5	

## Characteristics

