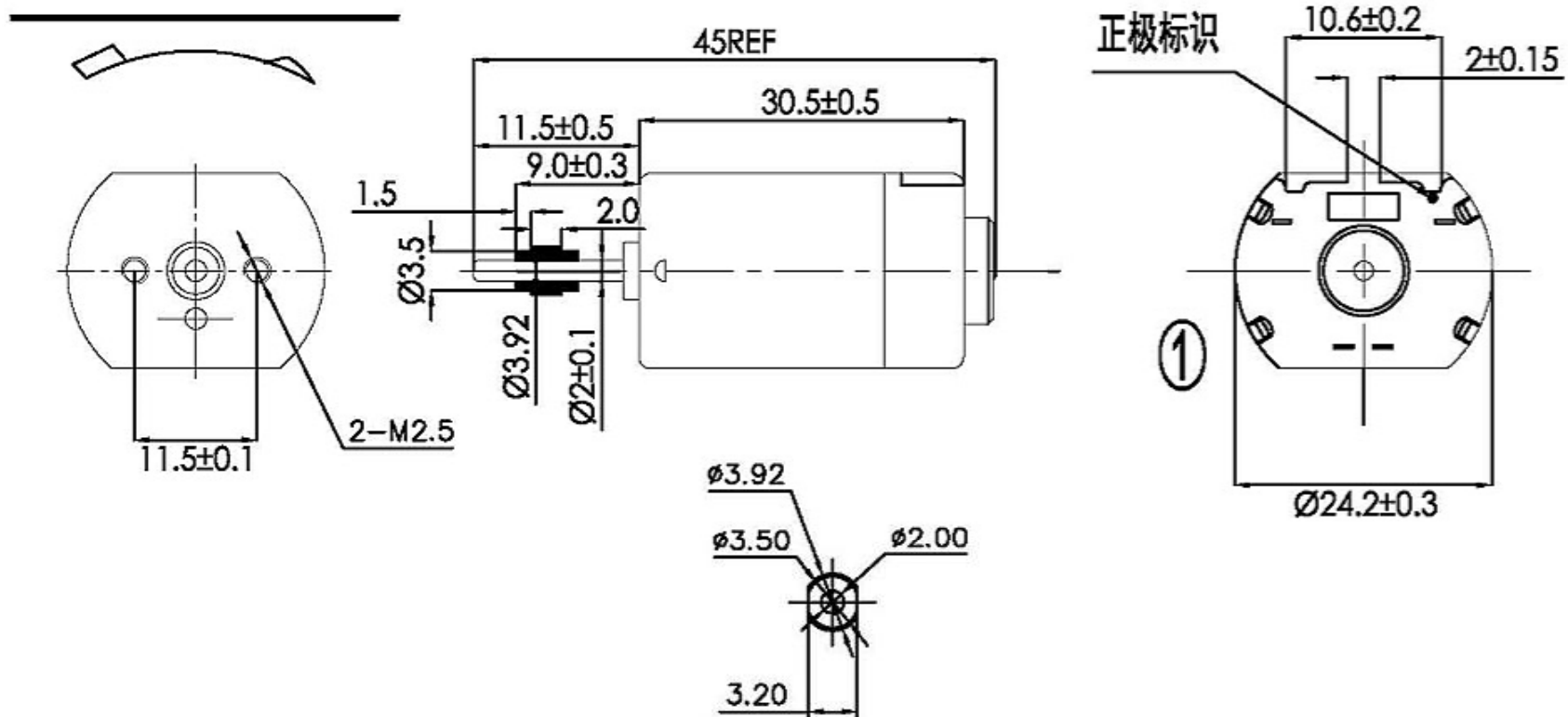


Rev.	Description	Date
01		

## DC MOTOR SPECIFICATION

**DIRECTION OF ROTATION**

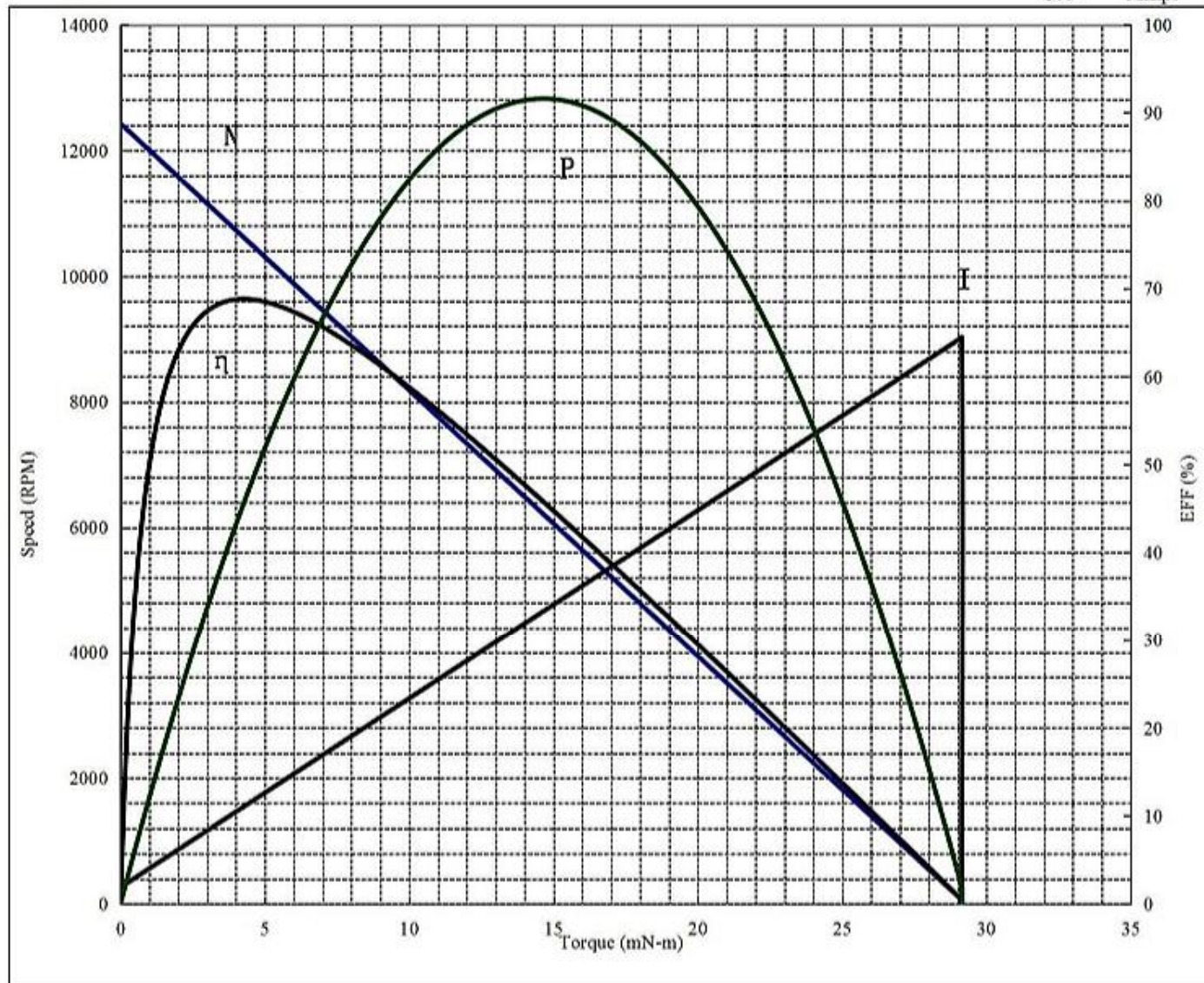


No.	Item	Specification	No.	Item	Specification
1	Rated Voltage	12V DC	7	Stall Current	5.6A
2	No Load Speed	13100 $\pm$ 10%rpm	8	Direction Of Rotation	CW
3	No Load Current	$\leq 120 \text{mA}$			
4	Rated Speed	11000 $\pm$ 10%rpm			
5	Rated Current	$\leq 700 \text{mA}$			
6	Rated Torque	48g.cm			

Drawn	Bruce	07/14/2022	Unit: mm	
Checked			<b>Kysan Electronics</b> www.kysanelectronics.com info@kysanelectronics.com	
Eng Appr.				
Mfg Appr.				
Q. A.				
SKU: 1112112			Size :A4	Weight (Kg):
			Scale	

**Model:** SKU-1112112

Full scale :   
 ----- 100 % Eff   
 ----- 10.0 Watts   
 ----- 5.0 Amp.



Performance (in an ambient temperature of 25-30 ° C )

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of 12.0 Volts

Direction : CW

At No Load

Speed :	12429	RPM
Current :	0.094	AMPS

At stall (Extrapolated)

Torque :	29.29	mN-m
Current :	3.239	AMPS

At maximum efficiency

Efficiency:	68.8	%
Torque :	4.264	mN-m
Speed :	10620	RPM
Current :	0.552	AMPS
Output :	4.56	Watts

At maximum Power output

Output :	9.160	Watts
Torque :	14.646	mN-m
Speed :	6586	RPM
Current :	1.57	AMPS

Characteristics

Torque constant $K_t$ :	9.315	mN-m/AMP
E.M.F. constant $E_c$ :	9.315	mV/rad/sec
Dynamic resistance:	3.7053	Ohms
Motor regulation $M_r$ :	424.32	RPM/mN-m