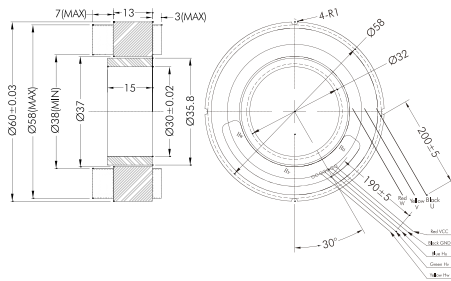
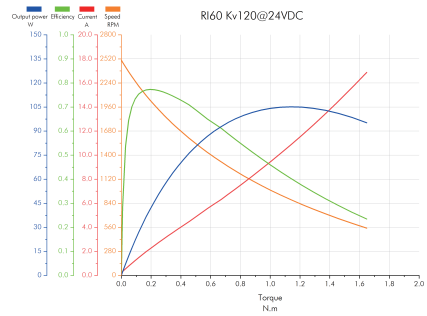


# RI60 KV120, $\Phi 60 \times 23\text{mm}$

## PRODUCT DRAWING



## ANALYTICAL GRAPH OF MOTOR OPERATION



## SPECIFICATIONS

Application	Cobot arm/exoskeleton	Insulation class	C
Driving way	FOC	Insulation High-voltage	500V 5mA/2s
Operation ambient temperature	-20°C~50°C	Insulation resistance	500V10MΩ
Winding type	delta	Phase	3
		Pole pairs	14

## ELECTRIC PARAMETERS

Rated voltage (V)	24/36/48	Ke (V/krpm)	9.03
No-load speed (rpm)	2532/3798/5064	Phase to Phase resistance (mΩ)	900
Rated torque (Nm)	0.57	Phase to Phase inductance (μH)	877.5
Rated speed (rpm)	1440/2320/3190	Inertia (gcm <sup>2</sup> )	33.05
Rated current (ADC)	5.6	Km (Nm/√W)	0.1054
Peak torque (Nm)	1.63	Mechanical time constant (ms)	0.30
Peak current (ADC)	16.8	Electrical time constant (ms)	0.98
Kv (rpm/V)	120	Weight (g)	155.9
Kt (Nm/A)	0.100	Maximum torque weight ratio (Nm/kg)	10.46

## CONNECTOR

U	Black+18#Silicone Wire	Hv	Green+30#Silicone Wire
V	Yellow+18#Silicone Wire	Hw	Yellow+30#Silicone Wire
W	Red+18#Silicone Wire	VCC GND	Red+30#Silicone Wire
Hu	Blue+30#Silicone Wire	correspondence	Black+30#Silicone Wire
			Hu-U Hv-V Hw-W