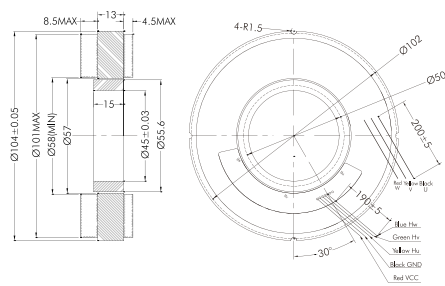
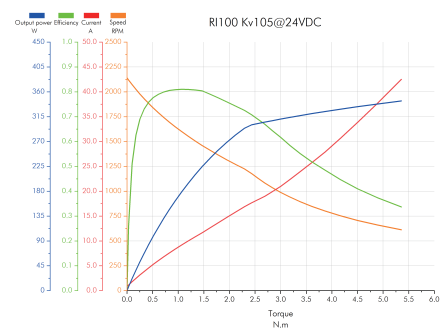


RI100 KV105, Φ104*26mm

PRODUCT DRAWING



ANALYTICAL GRAPH OF MOTOR OPERATION



SPECIFICATIONS

Application	Cobot arm/exoskeleton	Insulation class	C
Driving way	FOC	Insulation High-voltage	1000V 5mA/2s
Operation ambient temperature	-20°C~50°C	Insulation resistance	1000V10MΩ
Winding type	delta	Phase	3
		Pole pairs	14

ELECTRIC PARAMETERS

Rated voltage (V)	24/36/48	Ke (V/krpm)	10.47
No-load speed (rpm)	2184/3276/4368	Phase to Phase resistance (mΩ)	126
Rated torque (Nm)	1.76	Phase to Phase inductance (μH)	366.7
Rated speed (rpm)	1370/2100/2825	Inertia (gcm ²)	215.5
Rated current (ADC)	13.6	Km (Nm/√W)	0.3634
Peak torque (Nm)	4.95	Mechanical time constant (ms)	0.16
Peak current (ADC)	38.6	Electrical time constant (ms)	2.91
Kv (rpm/V)	105	Weight (g)	500
Kt (Nm/A)	0.129	Maximum torque weight ratio (Nm/kg)	9.9

CONNECTOR

U	Black+16#Silicone Wire	Hv	Green+30#Silicone Wire
V	Yellow+16#Silicone Wire	Hw	Blue+30#Silicone Wire
W	Red+16#Silicone Wire	VCC GND	Red+30#Silicone Wire
Hu	Yellow+30#Silicone Wire	correspondence	Black+30#Silicone Wire
			Hu-U Hv-V Hw-W