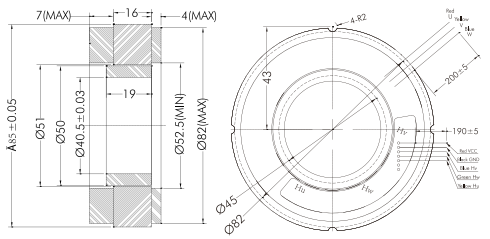
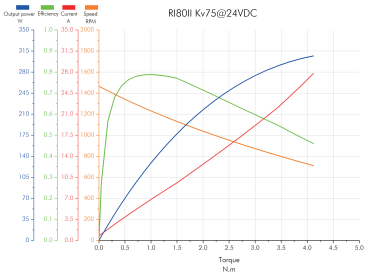
RI80 V2.0 KV75, Φ85*27mm

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℃~50℃	Insulation resistance	1000V10MΩ
Winding type	Delta	Phase	3
		Pole pairs	8

ELECTRIC PARAMETERS

Rated voltage (V)	24/36/48	Ke (V/krpm)	15.5
No-load speed (rpm)	1480/2220/2960	Phase to Phase resistance (mΩ)	330
Rated torque (Nm)	1.45	Phase to Phase inductance (μH)	510
Rated speed (rpm)	1135/1785/2430	Inertia (gcm^2)	212.49
Rated current (ADC)	9.4	Km (Nm/√W)	0.2698
Peak torque (Nm)	4.1	Mechanical time constant (ms)	0.29
Peak current (ADC)	27.6	Electrical time constant (ms)	1.55
Kv (rpm/V)	75	Weight (g)	411
Kt (Nm/A)	0.155	Maximum torque weight ratio (Nm/kg)	9.3

CONNECTOR

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