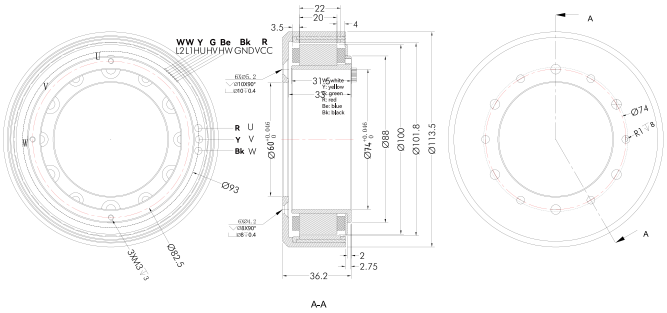
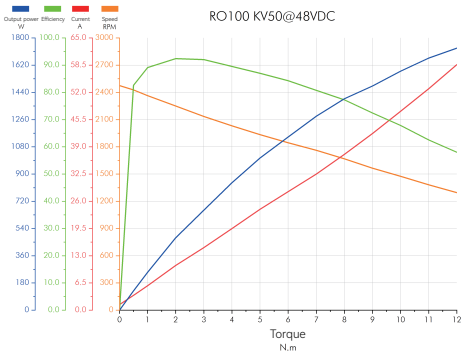
RO100 KV50, Φ113.5*36.2mm

PRODUCT DRAWING



ANALYTICAL GRAPH OF MOTOR OPERATION



SPECIFICATIONS

Application	Cobot Arm、Exoskeleton
Driving way	FOC
Operation ambient temperature	-20℃~50℃
Winding type	star
Insulation class	F
Insulation High-voltage	500V 5mA/2s
Insulation resistance	500V10MΩ
Phase	3
Pole pairs	21

ELECTRIC PARAMETERS

Rated voltage (V)	48
No-load speed (rpm)	2450
Rated torque (Nm)	4
Rated speed (rpm)	2000
Rated current (ADC)	20
Peak torque (Nm)	12
Peak current (ADC)	62
Kv (rpm/V)	50
Kt (Nm/A)	0.200
Ke (V/krpm)	18.67
Phase to Phase resistance (mΩ)	143
Phase to Phase inductance (μH)	137
Inertia (gcm²)	4845
Km (Nm/√W)	0.528885885
Mechanical time constant (ms)	1.73
Electrical time constant (ms)	0.96
Weight (g)	685
Maximum torque weight ratio (Nm/kg)	17

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