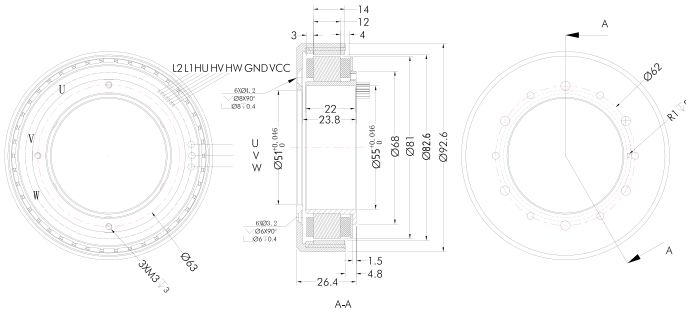
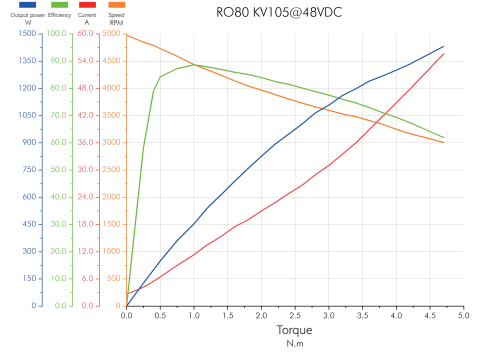


# RO80 KV105, $\Phi 92.6 \times 26.4 \text{mm}$

## PRODUCT DRAWING



## ANALYTICAL GRAPH OF MOTOR OPERATION



## SPECIFICATIONS

Application	Cobot Arm, Exoskeleton
Driving way	FOC
Operation ambient temperature	-20°C~50°C
Winding type	Delta
Insulation class	F
Insulation High-voltage	500V 5mA/2s
Insulation resistance	500V10M $\Omega$
Phase	3
Pole pairs	21

## ELECTRIC PARAMETERS

Rated voltage (V)	48
No-load speed (rpm)	4800
Rated torque (Nm)	1.3
Rated speed (rpm)	4000
Rated current (ADC)	15
Peak torque (Nm)	4.5
Peak current (ADC)	55
Kv (rpm/V)	105
Kt (Nm/A)	0.087
Ke (V/krpm)	9.07
Phase to Phase resistance (m $\Omega$ )	120
Phase to Phase inductance ( $\mu$ H)	103
Inertia (gcm <sup>2</sup> )	1859
Km (Nm/ $\sqrt$ W)	0.251147367
Mechanical time constant (ms)	2.95
Electrical time constant (ms)	0.86
Weight (g)	345
Maximum torque weight ratio (Nm/kg)	13