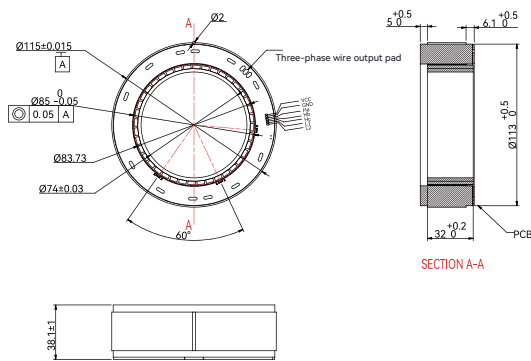
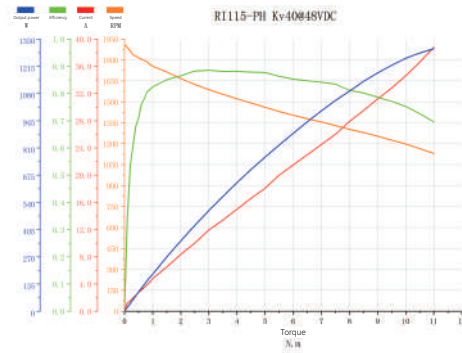


# RI115-PH KV40, $\phi 115 \times 38.1 \text{mm}$

## PRODUCT DRAWING



## ANALYTICAL GRAPH OF MOTOR OPERATION



## CHARACTERISTICS OVERVIEW

Hall Distribution Angle	120 electrical degrees
Dielectric Strength	1000VAC/1S
Insulation Resistance	100M $\Omega$ , 500VDC
Operating Environment	-20°C~+85°C
Insulation Class	Class H

## ELECTRIC PARAMETERS

Motor Weight (g)	1108
Voltage (V)	48
Continuous Torque (N·m)	5.5
Peak Torque (N·m)	16
Max Speed at Continuous Torque (RPM)	1430
Continuous Current (A)	17.8
Peak Current (A)	52 (Ref)
Torque Constant (N·m/A)	0.29
Back EMF Constant (V/RPM)	0.025
Speed Constant (RPM/V)	40
Motor Constant (N·m/ $\sqrt{w}$ )	0.66
Inertia (g·cm <sup>2</sup> )	3461
Number of Pole Pairs	20
Phase Resistance (m $\Omega$ )	134
Phase Inductance ( $\mu$ H)	245
Maximum Torque-to- Weight Ratio (N·m/kg)	15
Electrical Time Constant (ms)	0.0018
Electromechanical Time Constant (ms)	0.0008