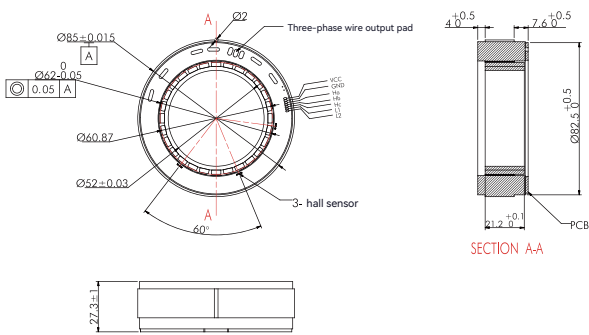
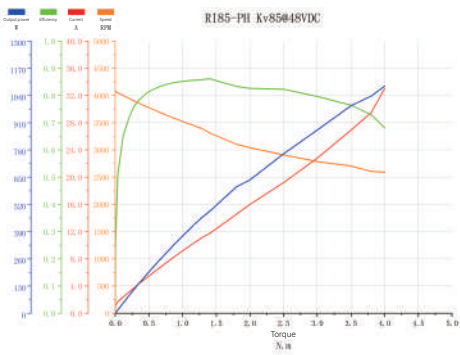


R185-PH KV85, $\phi 85 \times 27.3 \text{mm}$

PRODUCT DRAWING



ANALYTICAL GRAPH OF MOTOR OPERATION



CHARACTERISTICS OVERVIEW

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

ELECTRIC PARAMETERS

Motor Weight (g)	411
Voltage (V)	48
Continuous Torque (N·m)	2
Peak Torque (N·m)	5
Max Speed at Continuous Torque (RPM)	3042
Continuous Current (A)	16
Peak Current (A)	44 (Ref)
Torque Constant (N·m/A)	0.13
Back EMF Constant (V/RPM)	0.011
Speed Constant (RPM/V)	85
Motor Constant (N·m/√w)	0.299
Inertia (g·cm ²)	652
Number of Pole Pairs	14
Phase Resistance (mΩ)	138.5
Phase Inductance (μH)	239.4
Maximum Torque-to-Weight Ratio (N·m/kg)	11.6
Electrical Time Constant (ms)	0.0017
Electromechanical Time Constant (ms)	0.0007