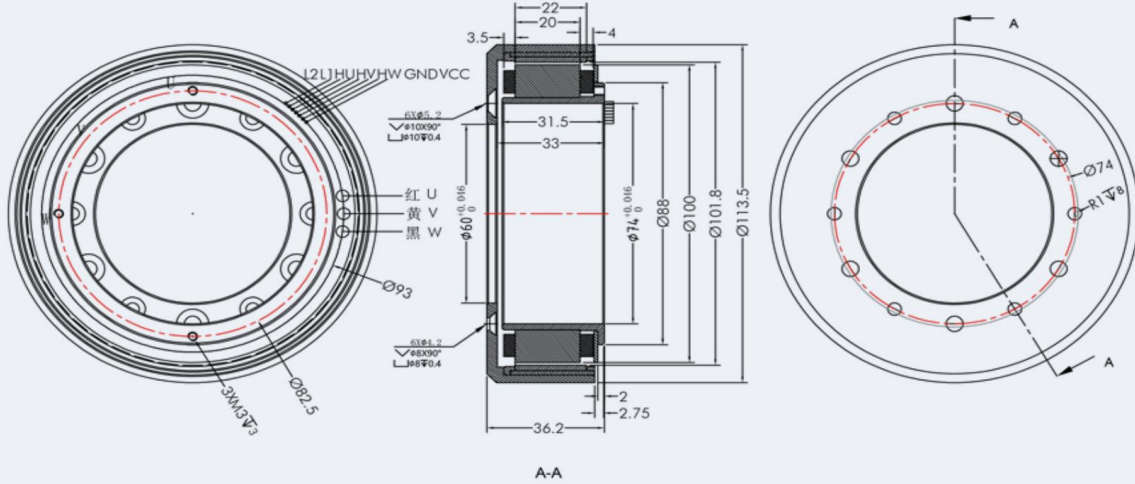


## Product Drawing



## Specifications

|                               |            |                         |              |
|-------------------------------|------------|-------------------------|--------------|
| Application                   | Cobot Arm  | Insulation Class        | F            |
| Driving Way                   | FOC        | Insulation High-Voltage | 500V         |
| Operation Ambient Temperature | -20°C~50°C | Insulation Resistance   | 10M $\Omega$ |
| Winding Type                  | star       | Cogging Torque          | 55N.mm       |
|                               |            | Pole Pairs              | 21           |

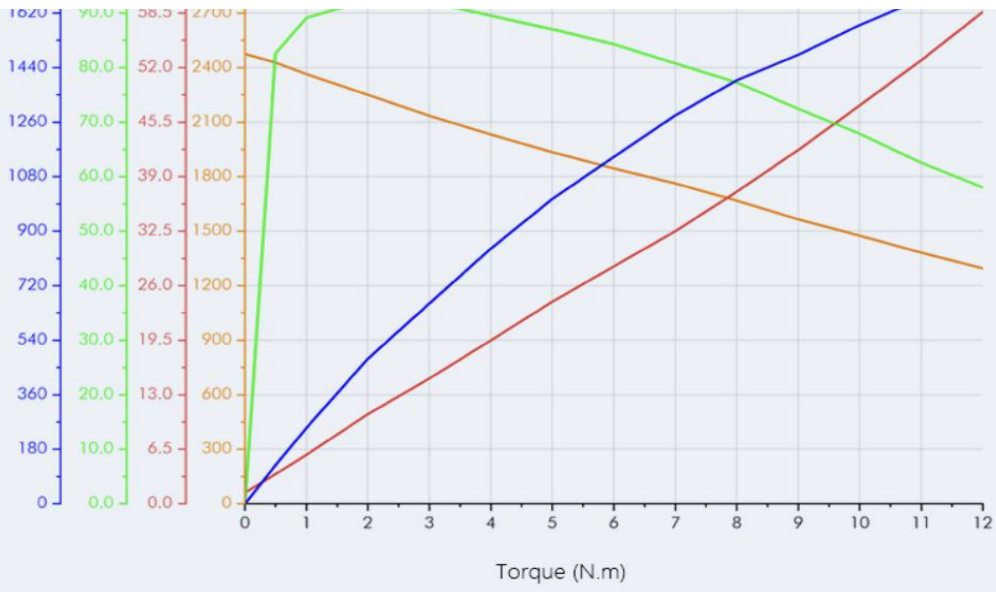
## Electric Parameters

|                     |      |   |       |
|---------------------|------|---|-------|
| Rated Voltage (V)   | 48   | Ke (V/krpm)                             | 18.67 |
| No-Load Speed (rpm) | 2550 | Phase To Phase Resistance (m $\Omega$ ) | 143   |
| Rated Torque (Nm)   | 4    | Phase To Phase Inductance ( $\mu$ H)    | 137   |
| Rated Speed (rpm)   | 2000 | Inertia (gcm <sup>2</sup> )             | 8700  |
| Rated Current (ADC) | 20   | Km (Nm/ $\sqrt$ W)                      | 0.53  |
| Peak Torque (Nm)    | 12   | Mechanical Time Constant (ms)           | 1.73  |
| Peak Current (ADC)  | 62   | Electrical Time Constant (ms)           | 0.96  |
| Kv (rpm/V)          | 53   | Weight (g)                              | 710   |
| Kt (Nm/A)           | 0.2  | Maximum Torque Weight Ratio (Nm/kg)     | 16.9  |

## Analytical Graph of Motor Operation

■ Output Power (w)  
■ Efficiency

RO100 KV55@48VDC



All data is for information purposes only | Subject to change without notice