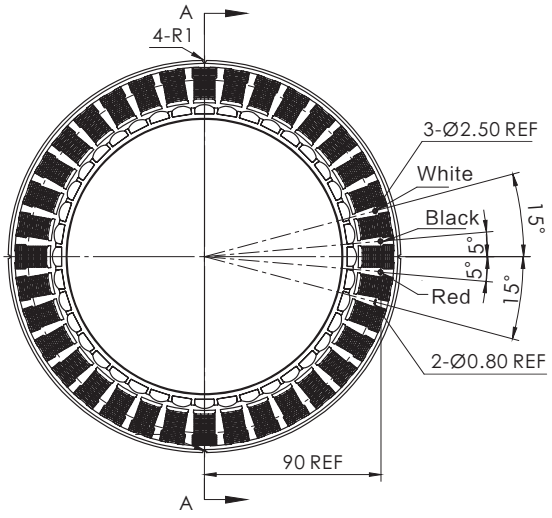
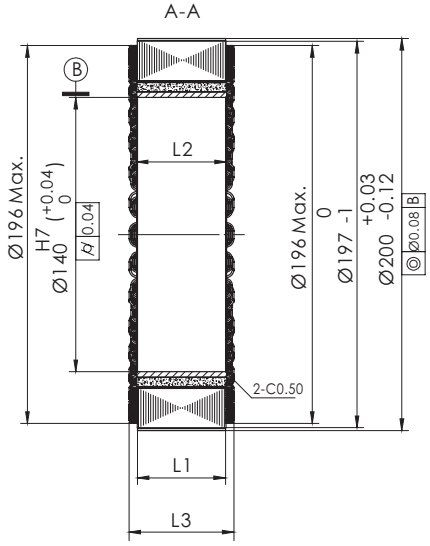
# U200 series

## Frameless Torque Motor

| Main Parameters | | U20025 | U20035 | U20060 |
|---|---|---|---|---|
| Voltage(VDC) | | 48 | 48 | 48 |
| Rated Output (W) | | 408.72 | 503.04 | 524 |
| Rated torque (N.m) | | 13 | 24 | 50 |
| Instant Max Torque (N.m) | | 28 | 50 | 100 |
| Rated Current (A) | | 14 | 18 | 18 |
| Instant Max Current (A) | | 35 | 40 | 40 |
| Rated Speed (rpm) | | 300 | 200 | 100 |
| Max Speed (rpm) | | 500 | 400 | 200 |
| Torque constant (Nm/A) | | 0.93 | 0.75 | 5 |
| Rotor inertia(Kg.cm$^2$) | | 15 | 28 | 60 |
| Back EMF coefficient(V/KRPM) | | 88 | 81.1 | 172.2 |
| Resistance (Ω) | | 0.502 | 0.29 | 0.51 |
| Inductance (mH) | | 2.848 | 1.79 | 3.45 |
| Pole-pairs number (2P) | | 20 | 20 | 20 |
| Weight (kg) | | 1.7 | 2.062 | 4.134 |
| Size(mm) | L1(Stator stack height) | 11 | 21 | 45 |
| | L2(Rotor height) | 12 | 22 | 46 |
| | L3(Overall height) | 25.9 | 35.9 | 60.9 |

## Specification & drawing





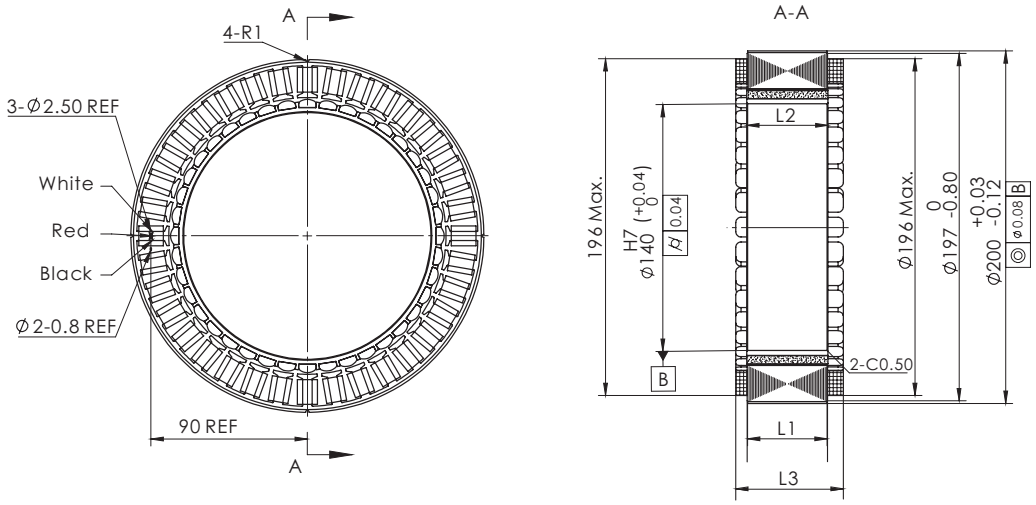

Copyright @ MOSRAC ©Motor 24-hour technical support: sales12@mosrac.com Website: www.mosrac.com

# U200 series(220V)

## Frameless Torque Motor

| Main Parameters | | U20025 | U20035 | U20060 |
|---|---|---|---|---|
| Voltage(VAC) | | 220 | 220 | 220 |
| Rated Output (W) | | 1089.92 | 1257.6 | 1572 |
| Rated torque (N.m) | | 13 | 24 | 50 |
| Instant Max Torque (N.m) | | 28 | 50 | 100 |
| Rated Current (A) | | 10 | 10 | 10 |
| Instant Max Current (A) | | 25 | 25 | 25 |
| Rated Speed (rpm) | | 800 | 500 | 300 |
| Max Speed (rpm) | | 1200 | 800 | 500 |
| Torque constant (Nm/A) | | 1.3 | 2.4 | 5 |
| Rotor inertia(Kg.cm2) | | 15 | 28 | 60 |
| Back EMF coefficient(V/KRPM) | | 166 | 200 | 716 |
| Resistance (Ω) | | 0.72 | 0.8 | 4.61 |
| Inductance (mH) | | 1.44 | 1.68 | 30 |
| Pole-pairs number (2P) | | 20 | 20 | 20 |
| Weight (kg) | | 1.7 | 2.053 | 4.06 |
| Size(mm) | L1(Stator stack height) | 11 | 21 | 45 |
| | L2(Rotor height) | 12 | 22 | 46 |
| | L3(Overall height) | 25.9 | 35.9 | 60.9 |

## Specification & drawing






Copyright @ MOSRAC ©Motor 24-hour technical support: sales12@mosrac.com Website: www.mosrac.com