**50 W Frameless Flat BLDC Motor**



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| Basic Motor Parameters |
| Rated Power | W | 50 |
| Rated Speed | rpm | 2200 |
| Rated Torque | Nm | 0.22 |
| Rated Current | A | 2.5 |
| Rated Voltage | V | 28 |
| No-Load Speed | rpm | 2600 |
| Max. Efficiency | % | 90 |
| Electrical Parameters |
| Number of Phases |  | 3 |
| Number of Poles |  | 14 |
| Torque Constant (KT) | Nm/A | 0.1 |
| Back EMF Constant (KE) | Vs/rad | 0.1 |
| Terminal Resistance Phase to Phase (±%10) | mΩ | 1000 |
| Terminal Inductance Phase to Phase (±%30) | mH | 0.75 |
| Thermal Data |
| Ambient Temperature | °C | -40...+85 |
| Max. Winding Temperature | °C | +155 |
| Physical Parameters |
| Outer Diameter | mm | 45 |
| Shaft Diameter | mm | N/A |
| Max. Lenght | mm | 30 |
| Weight | gr | ~500 |
| Motor Connection |
| U | RED |
| V | WHITE |
| W | BLACK |
| Sensor Connection |
| NTC | PURPLE |
| GND | GREEN |
| GND | GREEN |
| VCC | BLUE |
| H1 | BROWN |
| H2 | YELLOW |
| H3 | ORANGE |
| Connector Articles |
| Power | N/A |
| Signal | N/A |