



QBL 4208

42 mm
8 pole
BLDC motor

INFO These BLDC motors give a good fit to the TRINAMIC family of medium and high current BLDC motor modules.

MAIN CHARACTERISTICS

- No. of poles: 8
- No. of phases: 3
- nominal 4000 RPM at rated torque
- stepper compatible 42 mm flange
- 5 mm axis diameter, 20 mm length
- typical 24V operating voltage
up to 48V possible
- integrated hall sensors
- CE approved
- RoHS compliant

| SPECIFICATIONS | UNIT | -41-04-006 | -61-04-013 | -81-04-019 | -100-04-025 |
|----------------------|------|------------|------------|------------|-------------|
| Rated current (typ.) | A | 1.8 | 3.5 | 5.2 | 6.9 |
| Line resistance | | 1.8 | 0.72 | 0.55 | 0.28 |
| Line inductance | mH | 2.6 | 1.2 | 0.8 | 0.54 |
| Rated torque (typ.) | Nm | 0.0625 | 0.125 | 0.185 | 0.25 |
| Max. peak torque | Nm | 0.19 | 0.38 | 0.56 | 0.75 |
| Max. peak current | A | 5.4 | 10.6 | 15.5 | 20 |
| Torque constant | Nm/A | 0.035 | 0.036 | 0.036 | 0.036 |
| Weight (mass) | kg | 0.30 | 0.45 | 0.65 | 0.80 |
| Motor length | mm | 41 | 61 | 81 | 100 |
| Related PAN-drive | Type | PD1-...-42 | PD2-...-42 | PD3-...-42 | PD4-...-42 |

| ORDER CODE | DESCRIPTION |
|--------------------|--|
| QBL4208-41-04-006 | QMot BLDC motor 42 mm, 4000RPM, 0.06Nm |
| QBL4208-61-04-013 | QMot BLDC motor 42 mm, 4000RPM, 0.13Nm |
| QBL4208-81-04-019 | QMot BLDC motor 42 mm, 4000RPM, 0.19Nm |
| QBL4208-100-04-025 | QMot BLDC motor 42 mm, 4000RPM, 0.25Nm |