



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