



# QSH 2818

28 mm / NEMA11  
 1.8° step angle  
 high torque  
 hybrid stepper motor

INFO These two phase hybrid stepper motors are optimized for microstepping and give a good fit to the TRINAMIC family of motor controllers and drivers. They can be used in very space critical applications and allow high RPM due to their low back EMF. They are also used in the 28mm PANdrive mechatronics family.

MAIN CHARACTERISTICS

- NEMA 11 mounting configuration
- flange max. 28 mm \* 28 mm
- 5 mm axis diameter, 20 mm length, D-Cut
- step angle: 1.8°
- optimized for microstep operation
- optimum fit for TMC222 / TMC236 / TMC246 based driver circuits
- 4 wire connection
- neodymium magnets for maximum torque
- CE approved
- RoHS compliant

SPECIFICATIONS	UNIT	-32-07-006	-51-07-012
Rated phase current	A	0.67	0.67
Ph. resistance at 20°C		5.6	9.2
Ph. inductance (typ.)	mH	3.4	7.2
Holding torque (typ.)	Ncm	6	12
Detent torque	Ncm		
Rotor inertia	gcm <sup>2</sup>	9	18
Weight (mass)	kg	0.11	0.20
Motor length	mm	32.0	51.0
Related PAN-drive	Type	PD1-...-42	PD3-...-42

ORDER CODE	DESCRIPTION
QSH2818-32-07-006	QMot Steppermotor 28 mm, 0.67A, 0.06 Nm
QSH2818-51-07-012	QMot Steppermotor 28 mm, 0.67A, 0.12 Nm