



# QSH 4218

**42 mm / NEMA17**  
**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 are also used in the 42 mm PANdrive mechatronics family.

MAIN CHARACTERISTICS

- NEMA 17 mounting configuration
- flange max. 42.2 mm \* 42.2 mm
- 5 mm axis diameter, 20 mm length
- Step angle: 1.8°
- optimized for microstep operation
- optimum fit for TMC236 / TMC246 based driver circuits
- up to 40V operating voltage
- 4 wire connection
- neodymium magnets for maximum torque
- RoHS compliant

SPECIFICATIONS	UNIT	-35-10-027	-41-10-035	-51-10-049
Rated phase current	A	1.0	1.0	1.0
Ph. resistance at 20°C		2.95	2.86	3.00
Ph. inductance (typ.)	mH	4.45	6.74	5.5
Holding torque (typ.)	Ncm	27	35	49
Detent torque	Ncm	1.6	1.6	2.5
Rotor inertia	gcm <sup>2</sup>	45	66	90
Weight (mass)	kg	0.23	0.30	0.38
Motor length	mm	34.5	39	49
Related PAN-drive	Type	PD1-...-42	PD2-...-42	PD3-...-42

ORDER CODE	DESCRIPTION
QSH4218-35-10-027	QMot Steppermotor 42 mm, 1A, 0.27 Nm
QSH4218-41-10-035	QMot Steppermotor 42 mm, 1A, 0.35 Nm
QSH4218-51-10-049	QMot Steppermotor 42 mm, 1A, 0.49 Nm