



# QSH 5718

**new series 57 mm / NEMA23**  
**1.8° step angle**  
**high torque**  
**hybrid stepper motor**

**INFO** These high torque 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 new 57 mm PANdrive mechatronics family.

**MAIN CHARACTERISTICS**

- NEMA 23 mounting configuration
- flange max. 56.4 mm \* 56.4 mm
- 6.35 mm axis diameter, 20.6 mm length
- step angle: 1.8°
- optimized for microstep operation
- optimum fit for TMC239 / TMC249 based driver circuits
- up to 75V operating voltage
- 4 wire connection
- neodymium magnets for maximum torque
- CE approved
- RoHS compliant

SPECIFICATIONS	UNIT	-41-28-055	-51-28-101	-56-28-126	-76-28-189
Rated phase current	A	2.8	2.8	2.8	2.8
Ph. resistance at 20°C		0.7	0.83	0.9	1.13
Ph. inductance (typ.)	mH	1.4	2.2	2.5	3.6
Holding torque (typ.)	Ncm	55	101	126	189
Detent torque	Ncm	2.0	3.5	3.9	6.6
Rotor inertia	gcm <sup>2</sup>	120	275	300	480
Weight (mass)	kg	0.45	0.65	0.7	1.00
Motor length	mm	41.0	51.0	56.0	76.0
Related PAN-drive	Type	PD1-...-57	PD2-...-57	PD3-...-57	PD4-...-57

ORDER CODE	DESCRIPTION
QSH5718-41-28-055	QMot Steppermotor 57 mm, 2.8A, 0.55 Nm
QSH5718-51-28-101	QMot Steppermotor 57 mm, 2.8A, 1,01 Nm
QSH5718-56-28-126	QMot Steppermotor 57 mm, 2.8A, 1.26 Nm
QSH5718-76-28-189	QMot Steppermotor 57 mm, 2.8A, 1.89 Nm