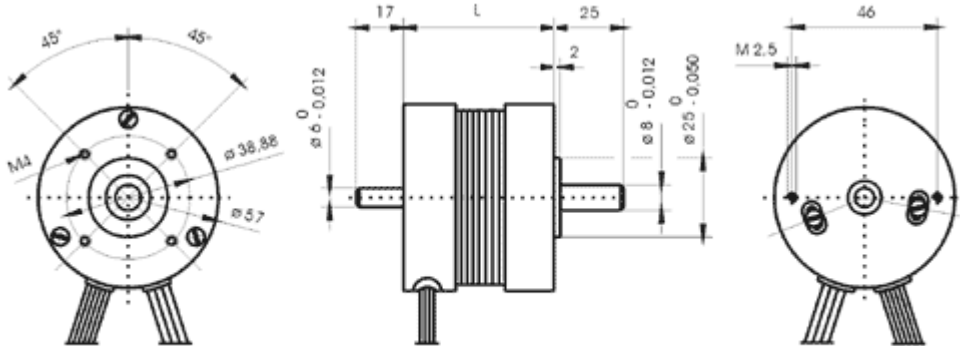
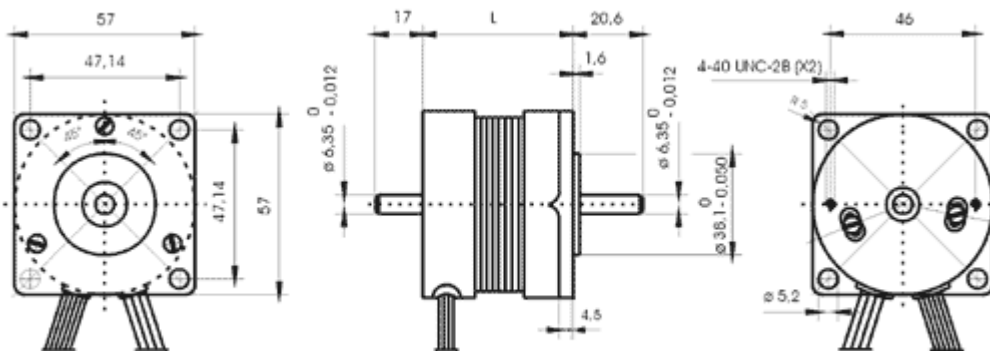


# Series BM 05

## Specifications



WARNING! M4 x MAX 4mm



AWG 22 AWG 26 L=300mm

Dimensions in mm

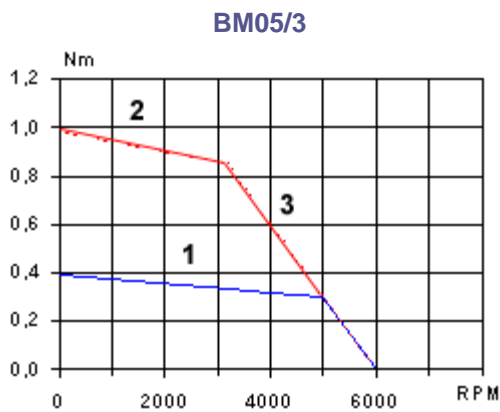
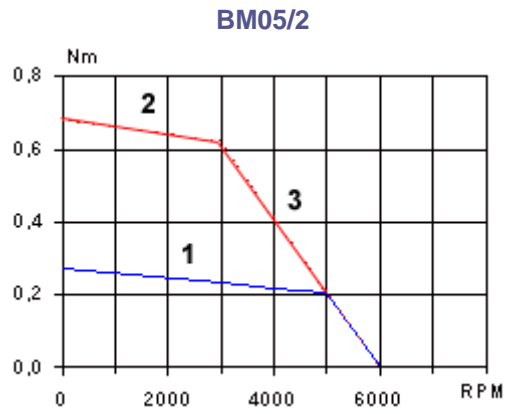
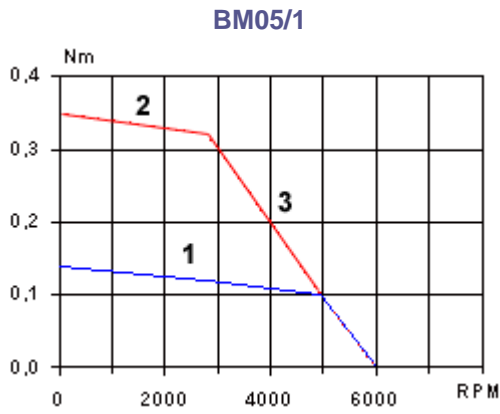
Specifications	BM 05/1	BM 05/2	BM 05/3
continuous stall torque - $\Delta t_{cu}$ 80°C - (Nm)	0.14	0.27	0.39
continuous torque at rated speed (Nm)	0.11	0.22	0.32
maximum peak torque - duty cycle 10% - (Nm)	0.35	0.68	0.98
rated speed (rpm)	4000	4000	4000
output power at rated speed (Watt)	46	92	133
rotor inertia (Kgm <sup>2</sup> )	$7.5 \cdot 10^{-6}$	$11.9 \cdot 10^{-6}$	$17.3 \cdot 10^{-6}$
torque constant (Nm/Adc)	0.08	0.084	0.084
terminal resistance at 20°C (ohm)	2.8	1.3	0.78
line to line inductance (mH)	8.6	4.2	2.7
line to line B.E.M.F. at nominal speed (Vrms)	27	28	28
locked rotor rated current (Adc)	1.75	3.2	4.7
max peak current (Adc)	5	9	13
length - L - (mm)	55	75	95
mass (Kg)	0.5	0.75	1

3 Hall sensors at electrical 120° - Electrical specs.: I<sub>lin</sub> - 30 mA - V<sub>in</sub> = 4 ÷ 24V



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- 1 Continuous duty
- 2 10% duty
- 3 Limit curve for Vdc bus=60V

**Test Condition**  
 - DT winding 80°C  
 - motor on flange: 100x100x4 mm

#### Connections

Phase 1 = white-yellow	Vcc HALL = red
Phase 2 = white-black	GND HALL = black
Phase 3 = white-red	HALL A = green
	HALL B = white
	HALL C = blue



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