



## GM34



- High Torque
- Low noise
- Small size

### TECHNICAL DATA

Motor Step Angle	7,5°	full step	Nominal voltage	12V
Number of Phase	2	bipolar	Voltage driver	3,75 - 36V
Insulation resistance	100 MΩ	500Vdc	Max axial/radial shaft load	10N/50N
Insulation class	E		Max allow torque	100 Ncm
Coil Resistance/Induction	7,5Ω/10mH		Max current (continuous)	250 mA
Max temp. (motor housing)	60 °C		Max current (non-contin.)	500 mA
Racc. temp (motor housing)	35-45 °C		Operating temp.	-20 °C/+65 °C

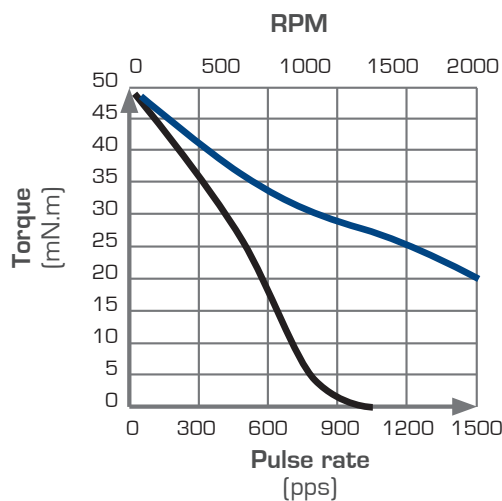
PART NUMBER	Ratio (x:1)	Length mm	Holding Torque mNm	Max Speed (ref.) RPM
GM34-15-35	14,14	43,3	700	105
GM34-30-35	29,75	43,3	1500	50
GM34-75-35	76,84	45,8	1500	20
GM34-100-35	94,37	45,8	1500	16
GM34-200-35	198,5	48,3	1500	7
GM34-250-35	243,8	48,3	1500	6
GM34-510-35	512,85	51,3	1500	3
GM34-630-35	629,82	51,3	1500	2

GM34

### Motor Dynamic Torque Curves 24V/0,5A

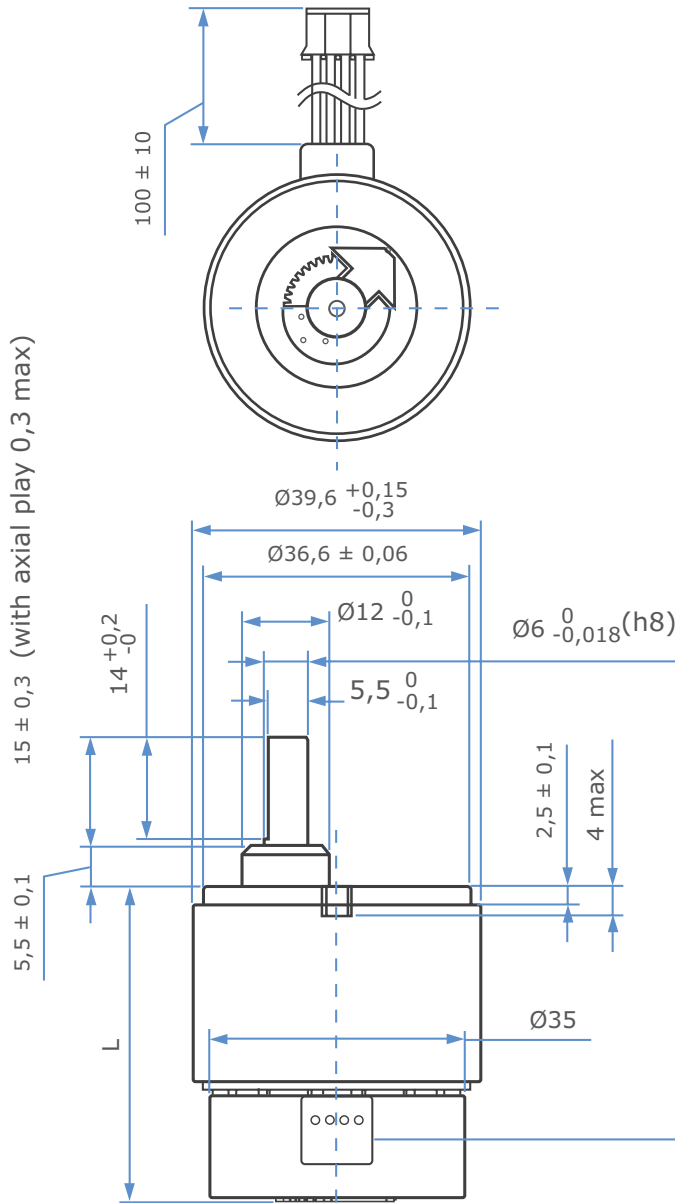
Conditions: Bi-polar Constant Current Driver  
 Driver: AMIS 30522  
 Mode: Full Step

— Pull in torque    — Pull out torque

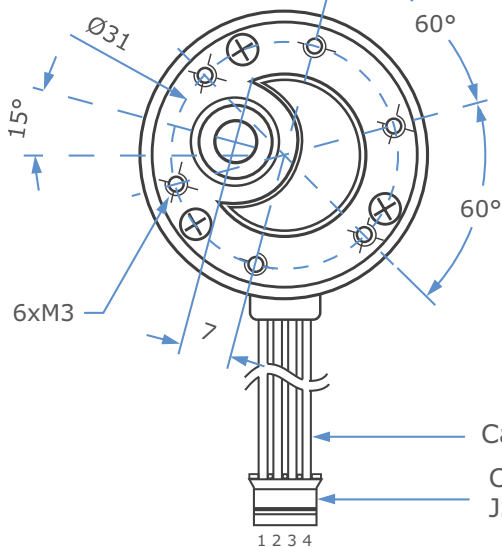
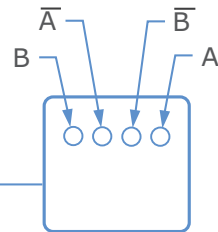
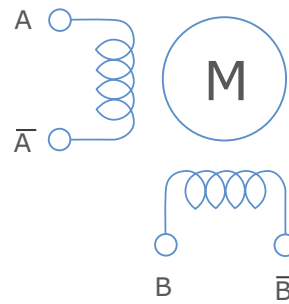


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## Mechanical dimensions



SEQUENCE EXCITATION						
PIN	COLOUR	CCW ← → CW (FROM OUTPUT SHAFT SIDE)				PHASE
			+	+		
1	YELLOW		+	+		A
2	ORANGE	+			+	$\bar{A}$
3	BROWN	+	+		+	$\bar{B}$
4	BLACK			+	+	B



Ratio		L (mm)
15:1	(14,14:1)	43,3
30:1	(29,75:1)	43,3
75:1	(76,85:1)	45,8
100:1	(94,37:1)	45,8
200:1	(198,52:1)	48,3
250:1	(243,80:1)	48,3
510:1	(512,85:1)	51,3
630:1	(629,82:1)	51,3

Cable AWG26 UL1061

Connector housing  
JST PHR-4 (white)

1 2 3 4