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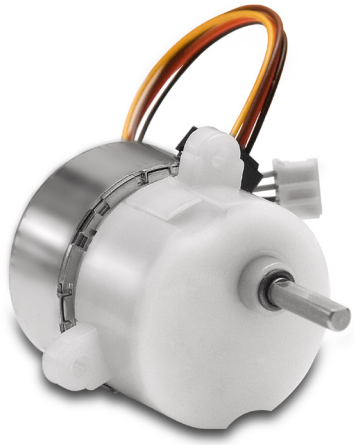
STEP MOTOR with gearbox

GM31



• 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	5N/20N
Insulation class	E		Max allow torque	50 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

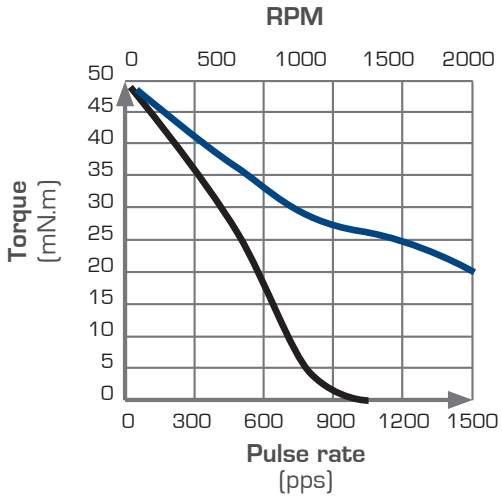
PART NUMBER	Ratio (x:1)	Length mm	Holding Torque mNm	Max Speed (ref.) RPM
GM31-12-35	12,25	35	600	122
GM31-21-35	21,14	35	800	71
GM31-36-35	35,73	35	800	42
GM31-72-35	71,54	35	800	21
GM31-149-35	149,05	35	800	10
GM31-208-35	208,66	35	800	7
GM31-608-35	608,61	35	800	2,5
GM31-1470-35	1470,82	35	800	1

GM31

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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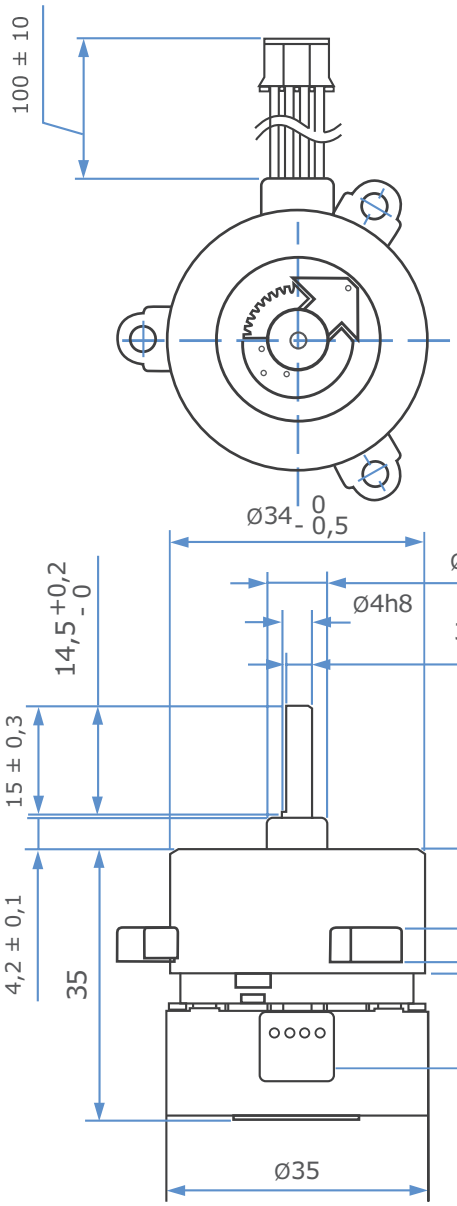
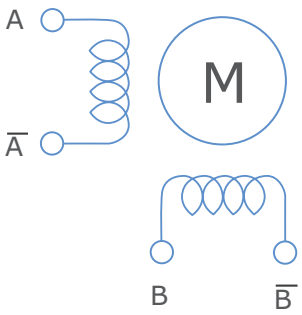
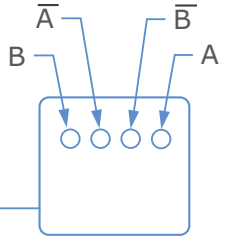
GM31 Mechanical dimensions



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





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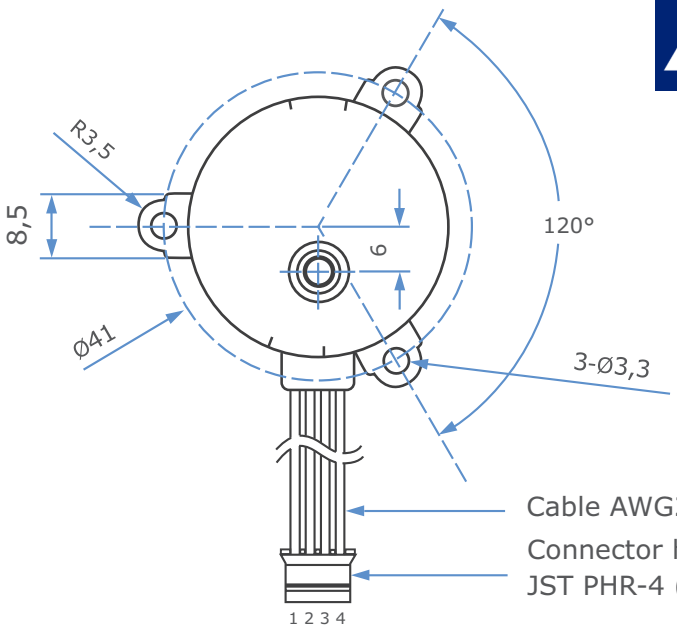

Cable AWG26 UL1061

Connector housing:
JST PHR-4 (white)

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