TIG1
series

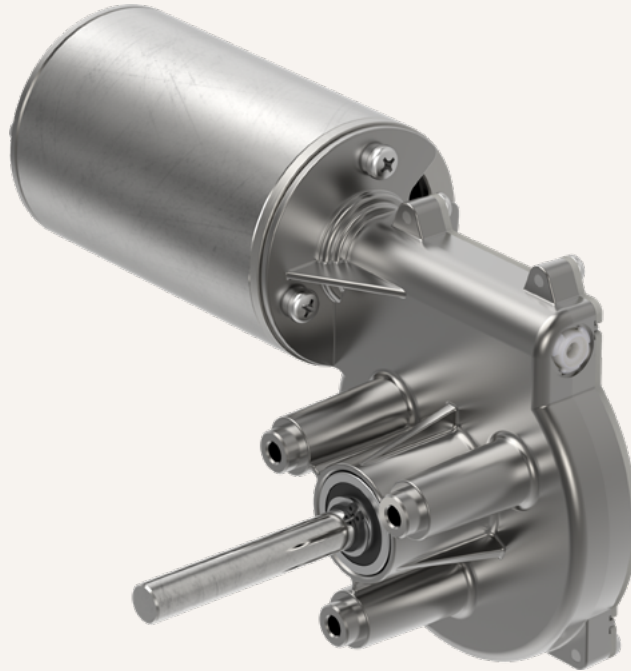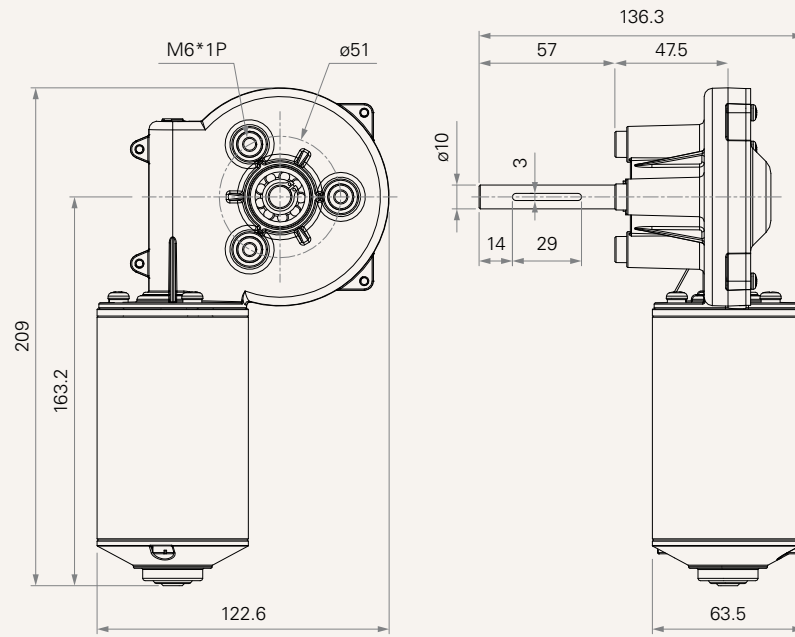## Product Segments

• **Industrial Motion**

TiMOTION's TIG1 is a brushed DC gear motor using a bronze worm wheel. It is suitable for general industrial applications such as material handling and adapted automobiles.

General Features

Max. rated torque	60Nm
Max. speed at max. load	24RPM
Max. speed at no load	40RPM
Output signals	Hall sensor(s)
Voltage	12/24V DC (thermal cutoff)
Operational temperature range at full performance	+5°C~+45°C

Drawing

Standard Dimensions
(mm)

Load and Speed

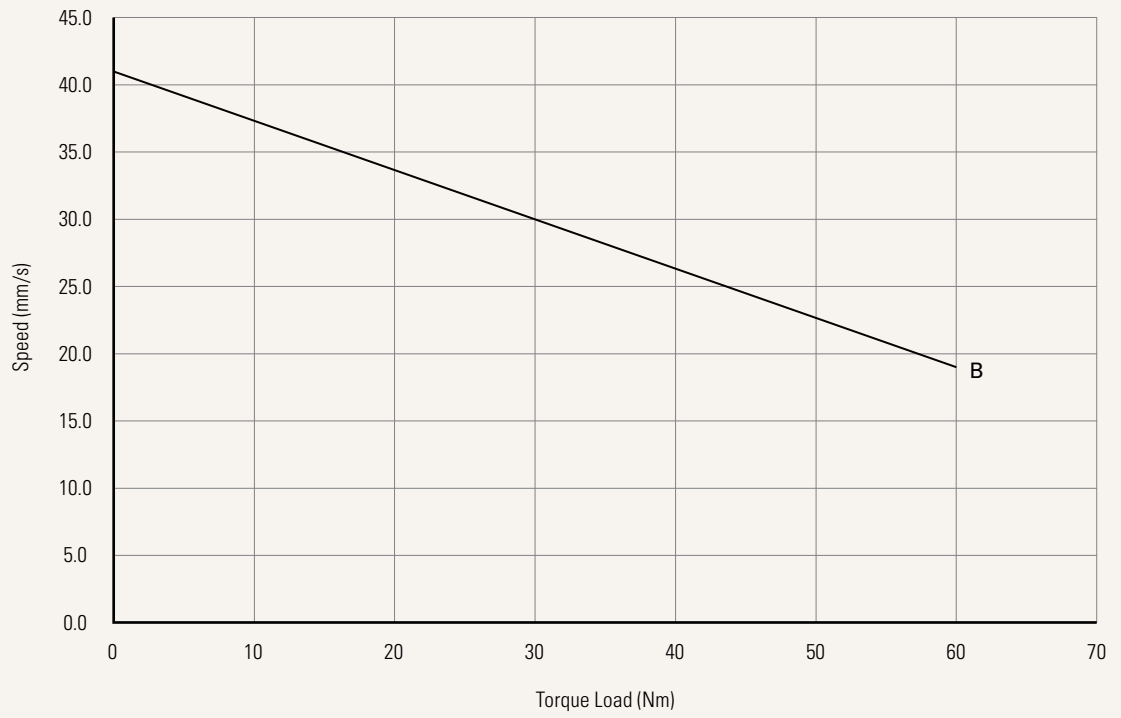| CODE	Rated Voltage	No Load		Rated				Max.			
		Current (A)	RPM (RPM)	Torque (Nm)	Current (A)	RPM (RPM)	Duty cycle (%)	Torque (Nm)	Current (A)	RPM (RPM)	Duty cycle (%)
Motor Speed (3400RPM)											
B	12VDC	2.5	40	9	4.5	38	100%	60	19.5	24	10%
B	24VDC	2.0	41	9	2.5	39	100%	60	12.7	23.5	10%

Note

1 Please refer to the approved drawing for the final authentic value.

2 Operational temperature range at full performance: +5°C~+45°C

3 The current & speed in table and diagram are tested with TiMOTION control boxes, and there will be around 10% tolerance depending on different models of the control box.
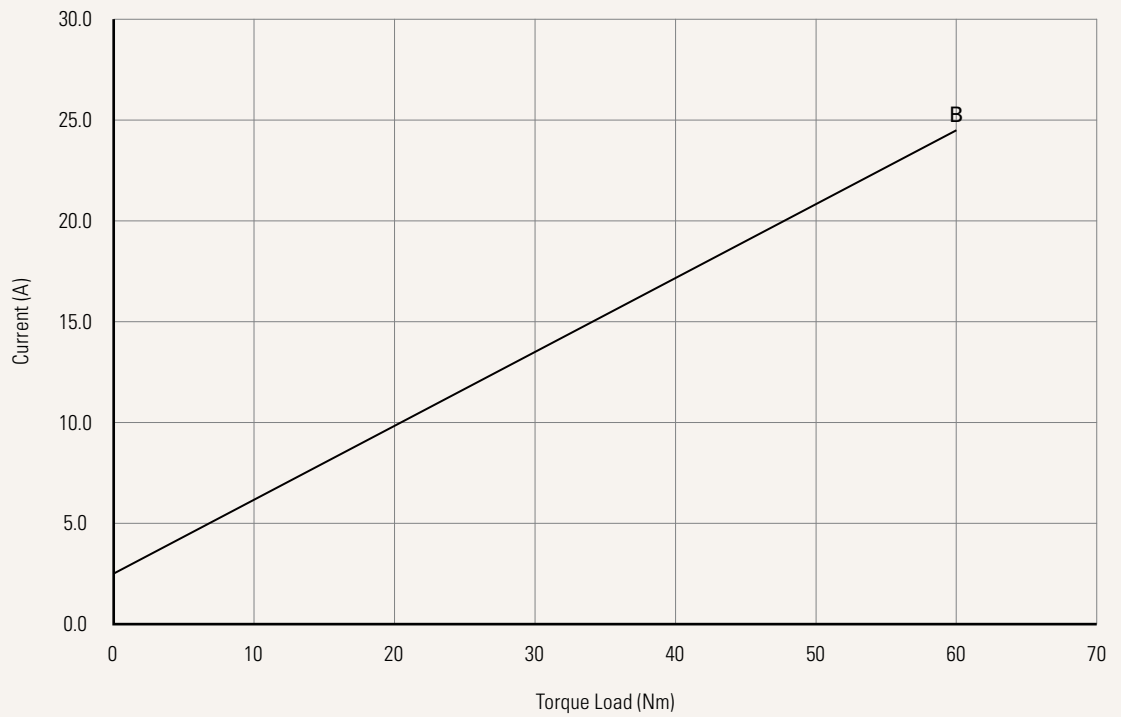
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Performance Data (12V DC Motor)

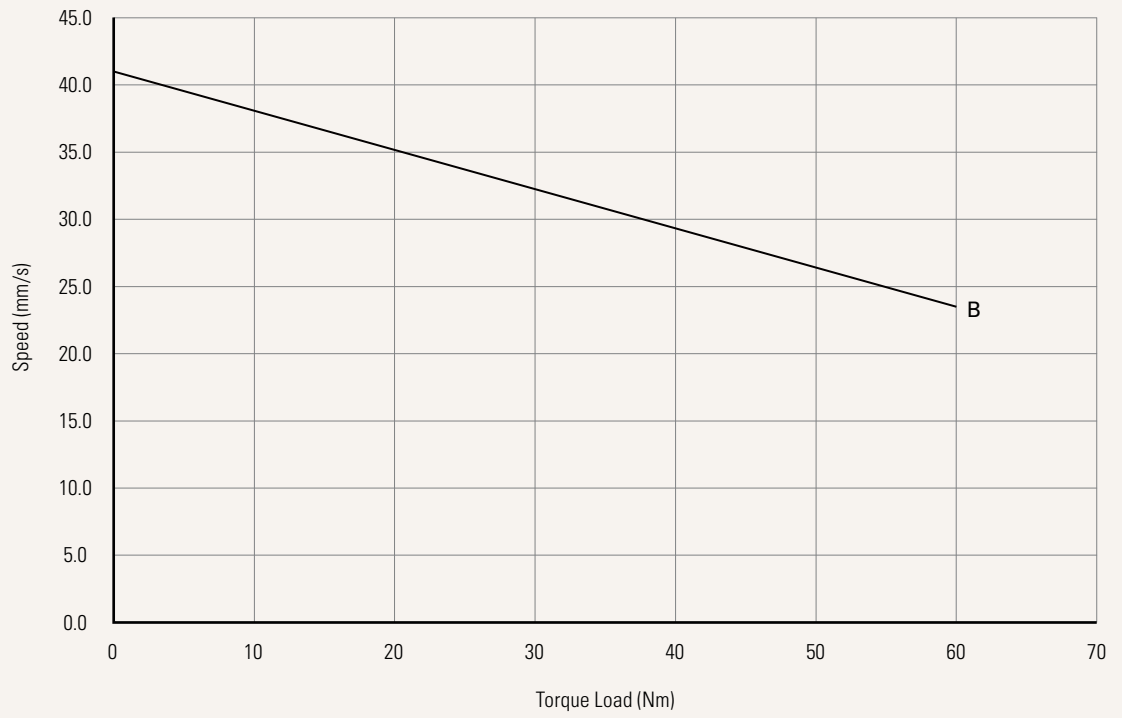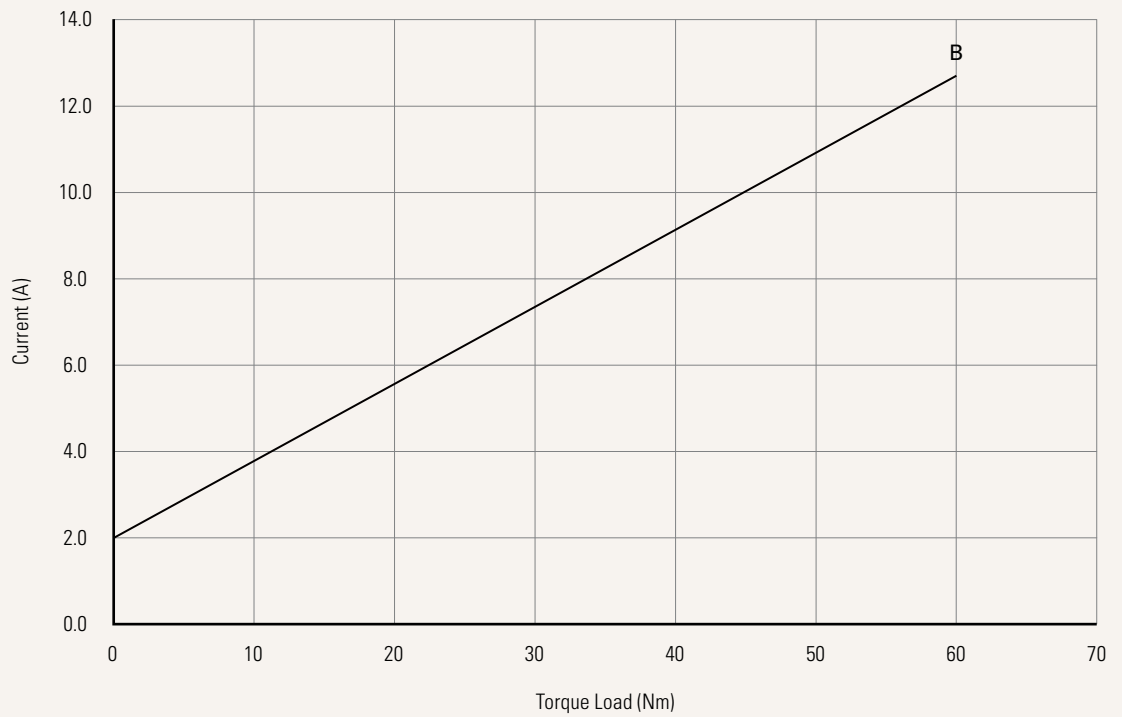Motor Speed (3400RPM)

Speed vs. Torque Load

Current vs. Torque Load

Performance Data (24V DC Motor)

Motor Speed (3400RPM)

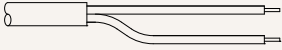### Speed vs. Torque Load

Current vs. Torque Load

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TIG1 Ordering Key

TIG1

Voltage	6 = 12V, thermal cutoff	5 = 24V, thermal cutoff	
Torque & RPM	See page 2		
Brake	0 = Without		
Torque Output	K = Output shaft with key slot		
Position Feedback	0 = Without	1 = Hall sensor*1	2 = Hall sensor*2
Connecter	G = Tinned leads		
Cable Length (mm)	1 = Straight, 1000	2 = Straight, 2000	
Covering	0 = Without		
IP Rating	1 = Without		

TIG1 Ordering Key Appendix

Connector

G = Tinned leads

Output Signals

Wire Definitions				Wire Gauge (AWG)	Output Signal Code		
					0. Without	4. Hall sensor*1	5. Hall sensor*2
without T-Smart	Limit Switches Cut Off the Acutator	●	Red	14	CW+	CW+	CW+
		●	Black	14	CCW+	CCW+	CCW+
		●	Red	26	-	+5V	+5V
		○	White	26	-	S1	S1
		●	Blue	26	-	-	S2
		●	Black	26	-	GND	GND

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.
TiMOTION products are subject to change without prior notice.