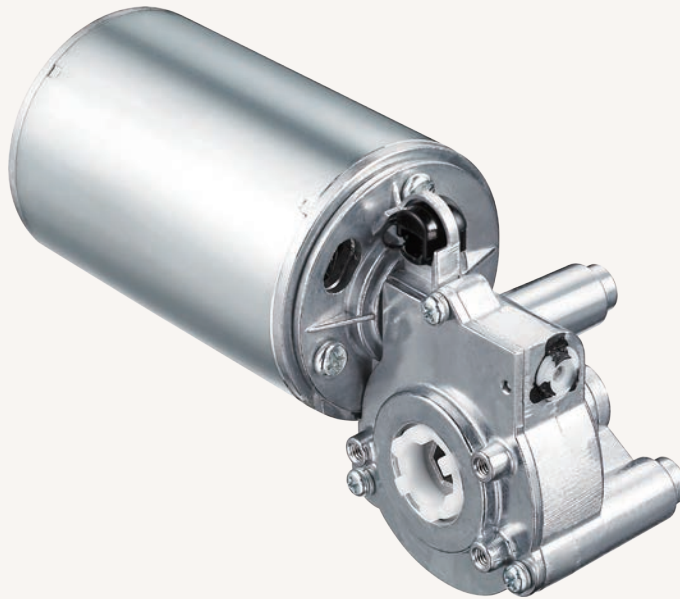# TGM2
series

Product Segments

• **Ergo Motion**

The TGM2 series gear motor is our most powerful gear motor. Although its primary use is for ergonomic applications like workplace adjustable height desks and tables, it can be used in a wide range of applications. This high torque product allows for quick, smooth and quiet adjustment of specially designed built-in spindles using external limit switches. Shafting allows mechanical synchronization of dual spindles.

General Features

Voltage of motor	24V DC
Maximum speed	107RPM (±5%) after gear reduction
Torque	15.0Nm after gear reduction
Option	Hall sensor(s)
Hexogen hole for the shaft by 9mm diameter	
Low noise	

Drawing

Standard Dimension
(mm)

M4-3
M4-3

66.5

50.2   127.9

51.5

ø58

ø36.1

6   24.5

183

30

56.5
48

66

M4-3

9

63.5

15.9
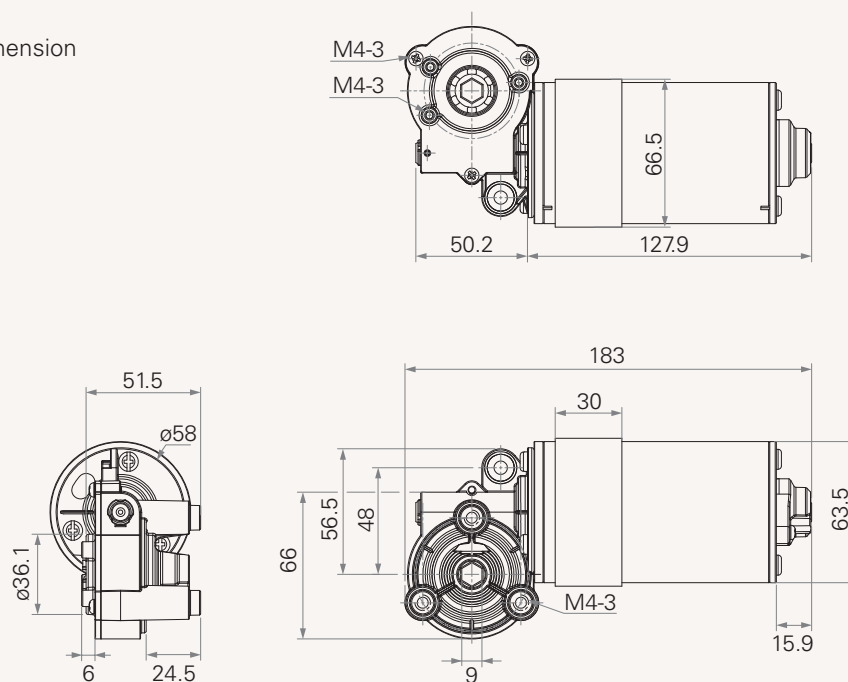
Load and Speed

CODE	Rated Load		Typical Current at Rated Load (A)	Typical Speed	
	Torque (Nm)	Speed (RPM, ±5%)		32V DC (RPM, ±7%)	24V DC (RPM, ±5%)
Motor Speed (3800RPM)					
A	15.0	60	8.0	107	80
Motor Speed (2200RPM)					
B	11.0	34	3.5	60	45

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.
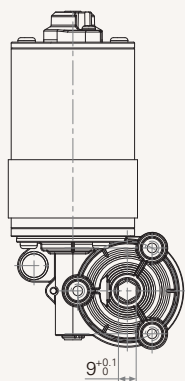
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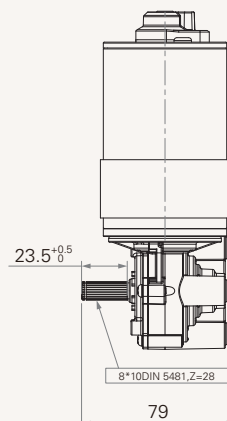
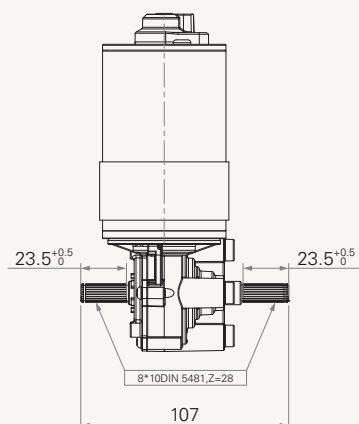TiMOTION

Drawing

Shaft Selection1
Hexagon Hole (9mm)

$9^{+0.1}_{0}$

Shaft Selection2
Ø12, Knurling, One Side

$23.5^{+0.5}_{0}$

8*10DIN 5481,Z=28

79

Shaft Selection3
Ø12, Knurling, Both Sides

$23.5^{+0.5}_{0}$ $23.5^{+0.5}_{0}$

8*10DIN 5481,Z=28

107

Shaft Selection4
Ø12, PIN

Ø4.8   Ø4.8

$Ø12^{0}_{-0.03}$

13±0.1   13±0.1

216±0.2

TiMOTION

TGM2 Ordering Key

TGM2

Voltage	2 = 24V			
Load and Speed	See appendix			
Output Signals	0 = Without	1 = One Hall sensor	2 = Two Hall sensors	
Motor Brake	0 = Without		1 = With	
Direction of Brake	0 = Without	1 = Counterclockwise	2 = Clockwise	
Plug	0 = Tinned leads	1 = TiMOTION's standard 6pin plug	2 = Molex plug 8PIN	A = Customized
Cable Length	0 = Straight, 1000mm 1 = Straight, 1500mm	2 = Straight, 2000mm 3 = Coiled, 1000mm	A = Customized	
Shaft Selection (Refer to Illustration)	1 = Hexagon hole (9mm) 2 = Ø12, knurling, one side		3 = Ø12, knurling, both sides 4 = Ø12, PIN	
External Limit Switch (TES2)	0 = Without		1 = With	
Output Rotation (If with TES2)	Number of hexagon rotations (up to 35 rotations); if without TES2, the code here will be 00			