

TGM5 series



Product Segments

Care Motion

TiMOTION's TGM5 series gear motor was designed primarily for medical applications, but can be used in a wide range of other applications that require a water resistant motion product. This economical, high torque product allows for fast, smooth and quiet adjustment of built-in spindles through the use of external limit switches. Shafting allows for the mechanical synchronization of dual spindles.

General Features

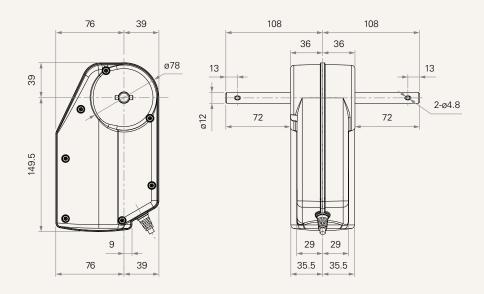
Max. rated torque Max. speed at max. load Max. speed at no load IP rating IP66 Certificate Options Voltage Operational temperature range at full performance

18.3Nm 88RPM (±5%) 117RPM (±5%) UL962 Hall sensors, motor brake 12, 24, 36V DC or 24V DC (PTC) +5°C~+45°C

TGM5 series

Drawing

Standard Dimensions (mm)



Load and Speed CODE Torque Self locking force **Typical Current** Typical Speed Hall Sensor Output Load (Nm) (A) (RPM, ±5%) (Nm) Brake With Load No Load With Load Magnet No Load Period (ms) 32V DC 24V DC 32V DC 24V DC Poles With load #0 #M No Load 32V D C 24V DC Motor Speed (3800RPM) A 18.3 5 2 11 ≤ 1.5 12.0 98~117 73~88 11.0~12.3 24.8~27.5

Note

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

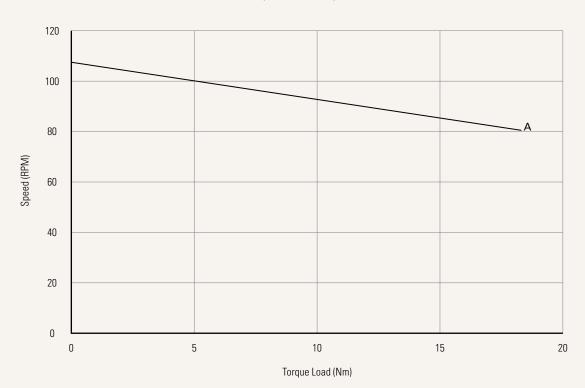
2 The current & speed in table and diagram are tested with TiMOTION control boxes, and there will be around 10% tolerance depending on different models of the control box. (Under no load condition, the voltage is around 32V DC. At rated load, the voltage output will be around 24V DC)





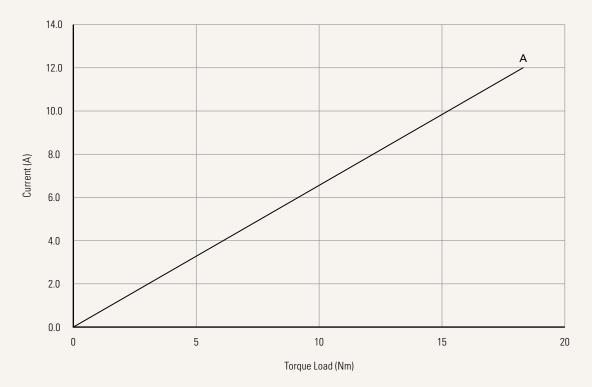
Performance Data (24V DC Motor)

Motor Speed (3800RPM)



Speed vs. Torque Load







TGM5 Ordering Key

1 T*i* MOTION

TGM5

				Version: 20200807-
Voltage	1 = 12V DC	2 = 24V DC	3 = 36V DC	5 = 24V DC, PTC
Load and Speed	See page 2			
Output Signal	0 = Without	2 = Hall sensor*2		
Brake	0 = Without	M = Motor brake		
Motor Brake	0 = Two way			
Color	1 = Black	2 = Pantone 428C		
IP Rating	1 = Without	2 = IP54	3 = IP66	
Connector See page 5	1 = DIN 6P, 90°	2 = Tinned leads	E = Molex 8P	
Cable Length (mm)	1 = Straight, 500 2 = Straight, 750	3 = Straight, 1000 4 = Straight, 1250	5 = Straight, 1500 6 = Straight, 2000	7 = Curly, 200 8 = Curly, 400
Internal Limit Switch	0 = Without	1 = With		
	00 M///			

Output Spindle Rotation Number

00 = Without internal limit switch

XX = With internal limit switch, number of output rotations (between25-58 rotations, factory preset)

TGM5 Ordering Key Appendix

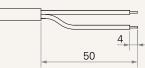


Connector

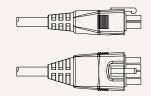


2 = Tinned leads





E = Molex 8P



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.