

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

 $\begin{tabular}{lll} Max. rated torque & 18.3Nm \\ Max. speed at max. load & 88RPM (<math>\pm 5\%$) \\ Max. speed at no load & 117RPM ($\pm 5\%$)

IP rating IP66W
Certificate UL962
Output signals Hall sensors
Options Motor brake

Voltage 12, 24, 36V DC or 24V /36V DC (Thermal

switch)

Operational temperature range +5°C~+45°C

at full performance

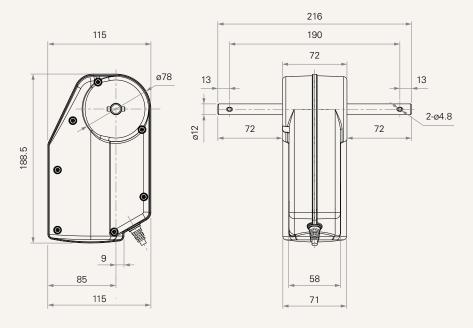
Hexagon hole for the shaft by 12mm diameter

Low noise

1

Drawing

Standard Dimensions (mm)



Load and Speed

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

Note

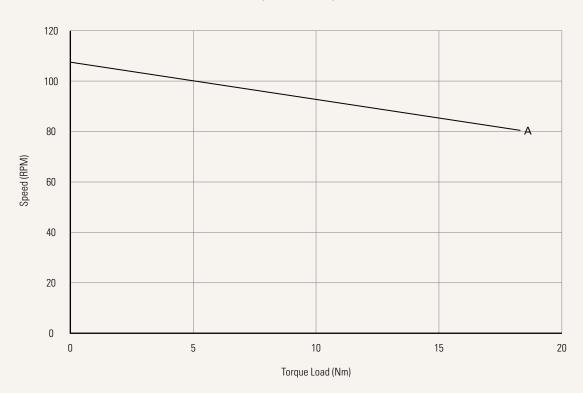
- 1 Please refer to the approved drawing for the final authentic value.
- 2 The current & speed in table and diagram are tested with TiMOTION control boxes, and there will be around 10% tolerance depending on different models of the control box. (Under no load condition, the voltage is around 32V DC.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



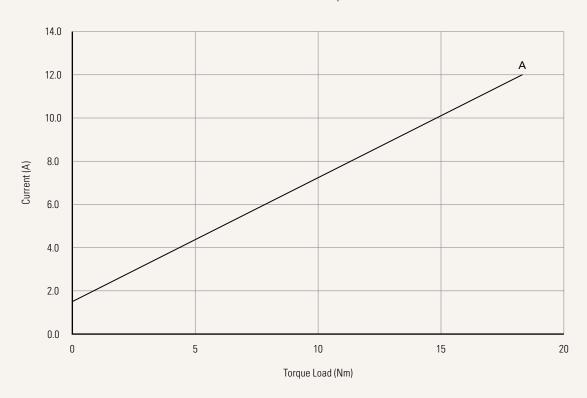
Performance Data (24V DC Motor)

Motor Speed (3800RPM)

Speed vs. Torque Load



Current vs. Torque Load





TGM5 Ordering Key



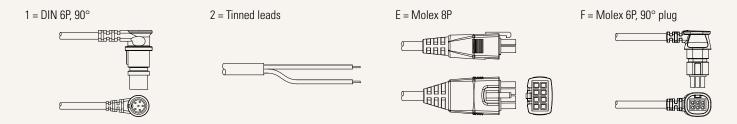
TGM5

				Version: 20240812-N				
Voltage	1 = 12V DC	3 = 36V DC	7 = 36V DC, Thermal switch					
	2 = 24V DC	5 = 24V DC, Thermal switch						
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	5 = IP66W				
Connector See page 5	1 = DIN 6P, 90°	2 = Tinned leads	E = Molex 8P	F = Molex 6P, 90° plug				
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	5 = Straight, 1500	7 = Curly, 200				
	2 = Straight, 750	4 = Straight, 1250	6 = Straight, 2000	8 = Curly, 400				
Internal Limit Switch	0 = Without	1 = With						
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



Terms of Use