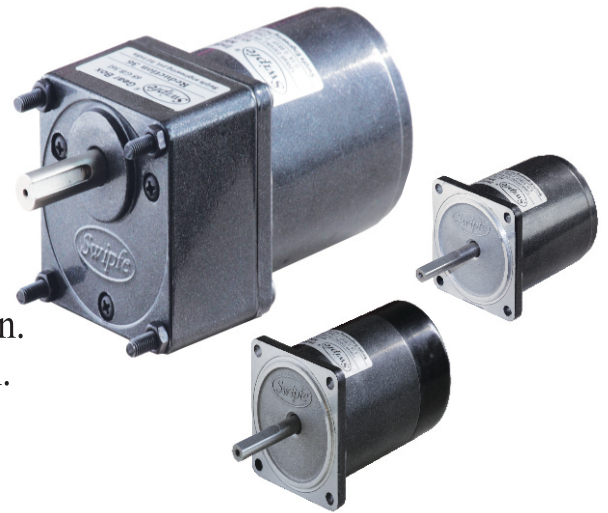


# Torque Motor

## 3 Watt

Frame Size:  65 mm

Continuous Rating, TE Aluminium Body.  
Rotates in Clockwise or Counter Clockwise Direction.  
Capacitor Cover or Open Lead Wires for Connection.



## Specifications:

Model	Supply Voltage	Frequency Hz	Current A	Starting Torque N.m	Torque at Max Power N.m	Max Input Power W	Capacitor $\mu$ F
65 TW 2 <input type="checkbox"/> 3	Single Phase 110V	50	0.30	0.01	0.005	24	3.0
65 TX 2 <input type="checkbox"/> 3	Single Phase 230V	50	0.15	0.01	0.005	24	1.0
65 TW 4 <input type="checkbox"/> 3	Single Phase 110V	50	0.30	0.02	0.01	24	3.0
65 TX 4 <input type="checkbox"/> 3	Single Phase 230V	50	0.30	0.02	0.01	24	1.3
65 TY 4 <input type="checkbox"/> 3	Three Phase 230V	50	0.30	0.02	0.01	24	—
65 TY 4 <input type="checkbox"/> 3	Three Phase 415V	50	0.07	0.02	0.01	24	—

Type Of Shaft, G for Gear Shaft, R for Round Shaft

## Gearbox Ratio:

Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	

The Gear boxes are sold separately.

A coloured background indicates gear shaft rotation in same direction as motor shaft.

A white background indicates gear shaft rotation in opposite direction to the motor shaft.

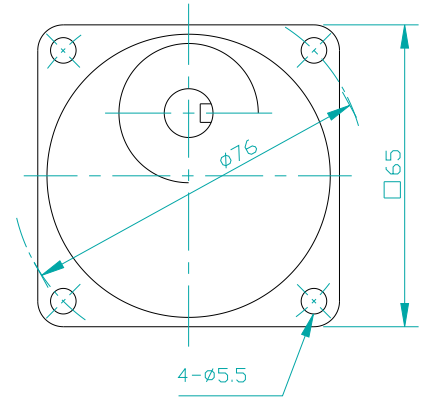
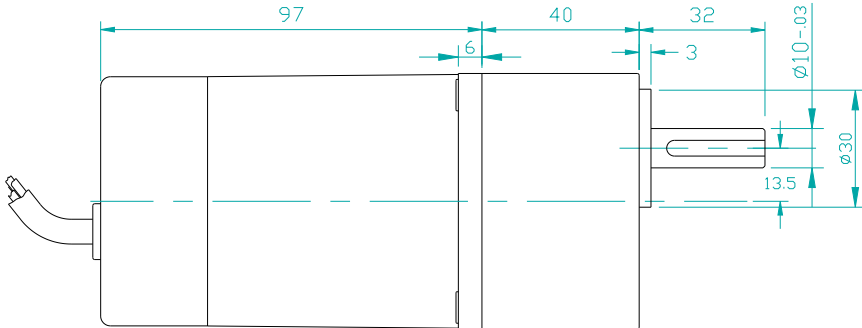
The speed of geared motor is calculated by dividing motor's synchronous speed by the gear ratio.

Torque increases as the speed drops.

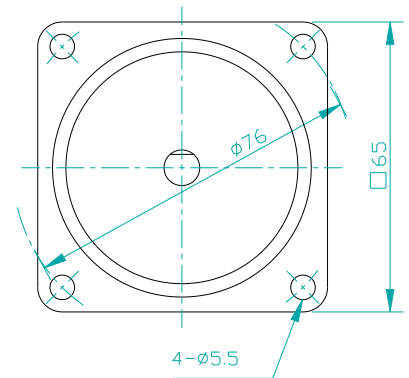
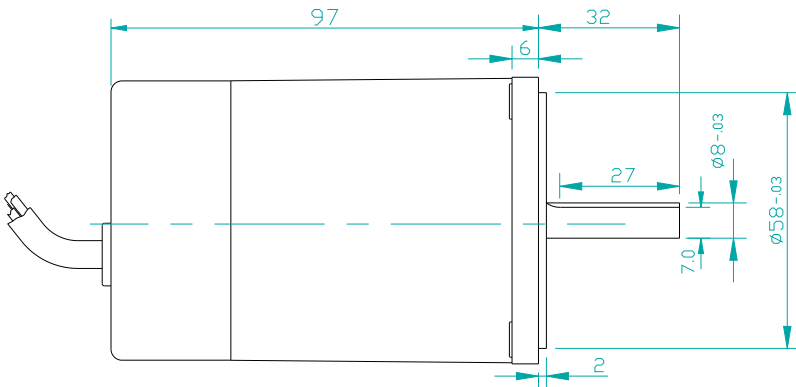
Characteristics, specifications and dimensions are subject to change without notice.

## Dimensions:

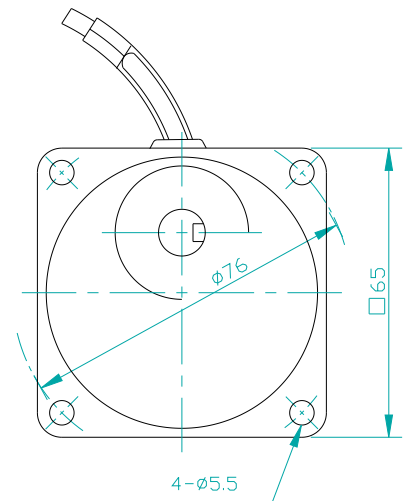
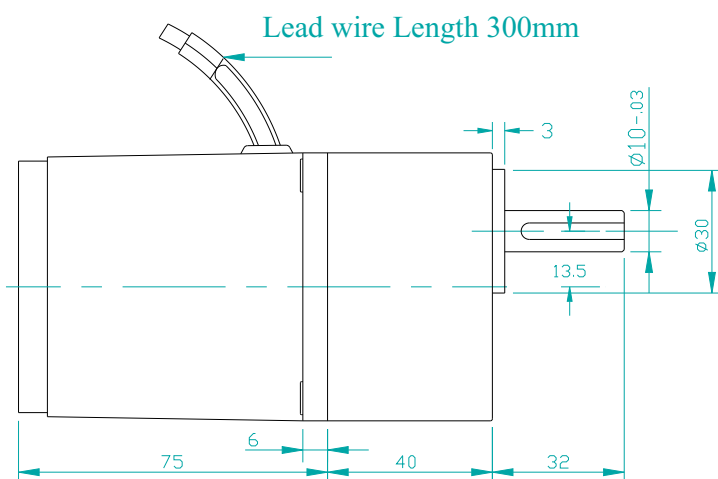
### Motor, Gearbox with Capacitor Cover



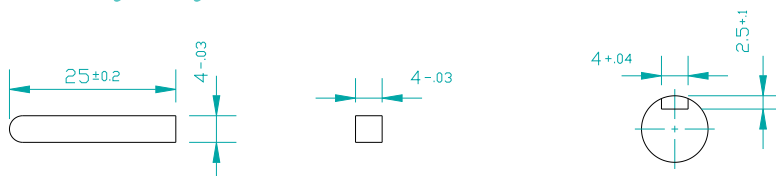
### Motor Round Shaft with Capacitor Cover



### Motor, Gearbox with Lead Wires



## Key & Keyway



Weight: Motor 1.0 Kg

Gear Box 0.5 Kg

# Torque Motor

## Wiring Diagram: Capacitor Cover Type

<p><b>Single Phase Motor</b></p>	<p><b>Three Phase Motor</b></p>
<p>Capacitor is connected internally and is fitted in capacitor cover. Make the connections as shown to rotate the motor in clockwise direction. To Change the direction, flip CW to CCW.</p>	<p>Make the connections as shown to rotate the motor in clockwise direction To change the direction, interchange any two wire between U, V and W.</p>

## Lead Wire Single Phase Motor

<p>Short Black wires and connect as shown to rotate the motor in clockwise direction To change the direction, flip CW to CCW.</p>	<p>Red wires are for running winding &amp; Black wires are for starting winding. To change the direction, interchange Black wires or Red wires.</p>

## Lead Wire Three Phase Motor

<p><b>Star Connection</b></p>	<p><b>Delta Connection</b></p>
<p>To change the direction, interchange any two wires between U, V &amp; W. For 415 Volt supply, wires are connected as shown. Short White, Black &amp; Blue wire and then insulate properly.</p>	<p>To change the direction, interchange any two wires between U, V &amp; W. For 230 Volt 3 Ph supply, wires are connected as shown.</p>

Change the direction of the motor only after it stops rotating. If the attempt is made during rotation, motor may ignore the reversing command or change the direction after some time.