

# Oriental Motor 2TK3CGN-A



Frame Size	60 mm
Shaft/Gear Type	Pinion Shaft Type
Gear Ratio	-
Rotation Direction	Depends on the combination gear head.
Service Rating (When Locked)	Single-Phase 100 VAC / 50 Hz / Setting Resistance VACalue 0 kΩ: 5Minutes Single-Phase 100 VAC / 50 Hz / Setting Resistance VACalue Approx. 10 kΩ: Continuous Single-Phase 100 VAC / 60 Hz / Setting Resistance VACalue 0 kΩ: 5Minutes Single-Phase 100 VAC / 60 Hz / Setting Resistance VACalue Approx. 7 kΩ: Continuous
Voltage/ Frequency/ Maximum Output Current/ Input at Maximum Output Power (5 Minutes Service Rating)	Single-Phase 100 VAC / 50 Hz / 0.5 A / 48 W Single-Phase 100 VAC / 60 Hz / 0.6 A / 60 W
Voltage/ Frequency/ Maximum Output Current/ Input at Maximum Output Power (Continuous Service Rating)	Single-Phase 100 VAC / 50 Hz / 0.35 A / 21 W Single-Phase 100 VAC / 60 Hz / 0.4 A / 22 W
Starting Torque (Motor Shaft, 5 Minutes Service Rating)	Depends on the combination gear head.
Starting Torque (Motor Shaft, Continuous Service Rating)	Depends on the combination gear head.
Gearhead Output Shaft Starting Torque (5 Minutes Service Rating)	Depends on the combination gear head.
Maximum Output Power (5 Minutes Service Rating)	Single-Phase 100 VAC / 50 Hz: 3 W (Setting Resistance VACalue 0 kΩ) Single-Phase 100 VAC / 60 Hz: 4 W (Setting Resistance VACalue 0 kΩ)
Maximum Output Power (Continuous Service Rating)	Single-Phase 100 VAC / 50Hz: 0.8 W (Setting Resistance VACalue Approx. 10 kΩ) Single-Phase 100 VAC / 60Hz: 0.8 W (Setting Resistance VACalue Approx. 7 kΩ)
Speed at Maximum Output Power/ Torque at Maximum Output Power (Motor Shaft, 5 Minutes Service Rating)	Single-Phase 100 VAC / 50 Hz: 750 r/min / 40 mN·m (Setting Resistance Value0 kΩ) Single-Phase 100 VAC / 60 Hz: 900 r/min / 44 mN·m (Setting Resistance Value0 kΩ)
Speed at Maximum Output Power/ Torque at Maximum Output Power (Motor Shaft, Continuous Service Rating)	Single-Phase 100 VAC / 50 Hz: 750 r/min / 11 mN·m (設定抵抗値約10 kΩ) Single-Phase 100 VAC / 60 Hz: 900 r/min / 9 mN·m (設定抵抗値約7 kΩ)
Permissible Inertia J	Depends on the combination gear head.
Capacitor	Product name: CH70、Capacity: 7 μF、Rated voltage: 200 VAC
Power Supply Input Voltage	Single-Phase 100 VAC
Power Supply Input Frequency	50/60 Hz
Torque Setting Method	Variable Resistors (Included, 20 kΩ)
Mass	0.8 kg

## Other Specifications

### General Specifications

Item	Specifications
Insulation Resistance	After rated operation at normal ambient temperature and humidity, the measurement between the coils and the case is 100 MΩ min. using a 500 VDC megger.
Dielectric Strength	No abnormality is observed even with an application of 1.5 kVAC (1.0 kV AC) at 50 Hz between the coils and the case for 1 minute after rated operation at normal ambient temperature and humidity. Figures in parentheses are for <b>4TK</b> and <b>5TK</b> types.
Temperature Rise	After rated operation at normal ambient temperature and humidity, the measurement value of the motor surface temperature rise is 60 °C max. (55 °C max. for the 2TK type) using the thermometer method.
Thermal Class	120 (E)
Operating Ambient Temperature	-10~+40 °C (Non-freezing)
Operating Ambient Humidity	85 % max. (Non-condensing)

## Standards

### Hazardous Substances

The product does not contain any substances (10 substances) exceeding the regulation values of the RoHS Directive (2011/65/EU, 2015/863/EU).

## System Configuration

