

ORIENTAL MOTOR U.S.A. Corp. 570 Alaska Avenue Torrance, CA 90503 1-800-GO-VEXTA (468-3982)

All Categories - Shop Online > Item # US540-402E2

Item # US540-402E2, AC Speed Control System











Specifications | Dimensions | Connection | System | Performance

Specifications

Contact your local sales office for product lead-times, available to ship dates and shipping Available to Ship¹

methods.

Product Line Oriental Motor®

Motor Type Speed Control Motor

Frame Size 3 54 in

40 W (1/19 HP) **Output Power**

Voltage (VAC) Single-Phase 200-240 VAC

Frequency (Hz)

0.53 A (220/230 VAC, 50 Hz) Current

0.55 A (220/230 VAC, 60 Hz)

Shaft/Gear Type Pinion Shaft (Gearhead required - sold separately)

Lead Wire / Cable Type

RoHS Compliant

UL CSA

Safety Standards

Insulation Resistance

Dielectric Strength

CCC CE

Low Voltage Directives **CE Marking EMC Directive**

Electromagnetic Brake Not Equipped

[Motor] 100 $M\Omega$ or more when 500 VDC megger is applied between the windings and the

case after rated operation under normal ambient temperature and humidity.

[Control Unit] 100 $M\Omega$ or more when 500 VDC megger is applied between all the pins and

the case after rated operation under normal ambient temperature and humidity.

[Control Unit] Sufficient to withstand 3.0 kV at 60 Hz applied between all the pins and the case for 1 minute after rated operation under normal ambient temperature and humidity.

[Motor] Sufficient to withstand 1.5 kV at 50 Hz and 60 Hz applied between the windings and the case for 1 minute after rated operation under normal ambient temperature and humidity.

Insulation Class [Motor] Class B (266°F [130°C])

[Motor] $14^{\circ}F \sim 104^{\circ}F$ (- $10^{\circ}C \sim 40^{\circ}C$) (nonfreezing) **Ambient Temperature Range** [Control Unit] 32°F ~ 104°F (0°C ~ 40°C) (nonfreezing)

Ambient Humidity 85% or less (Non-condensing)

[Motor] IP20 **Degree of Protection** [Control Unit] IP10

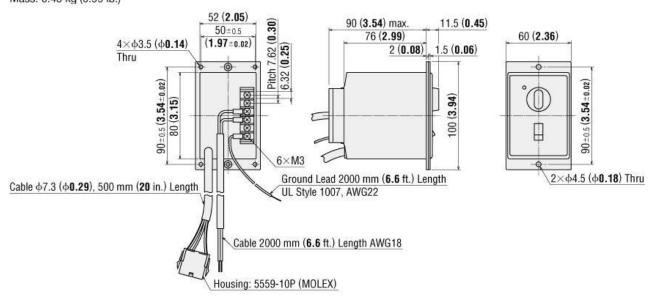
Dimensions

Dimensions Unit = mm (in.)

♦Control Unit

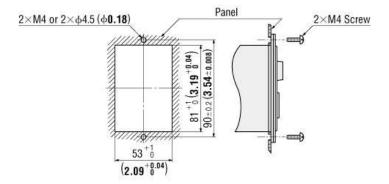
Common to US206, US315, US425 and US540 Types

USP206-1U2/USP206-2E2 USP315-1U2/USP315-2E2 USP425-1U2/USP425-2E2 USP540-1U2/USP540-2E2 Mass: 0.45 kg (0.99 lb.)



◇Panel Cut-Out for Control Unit

Installation Method by Cutting a Square Hole



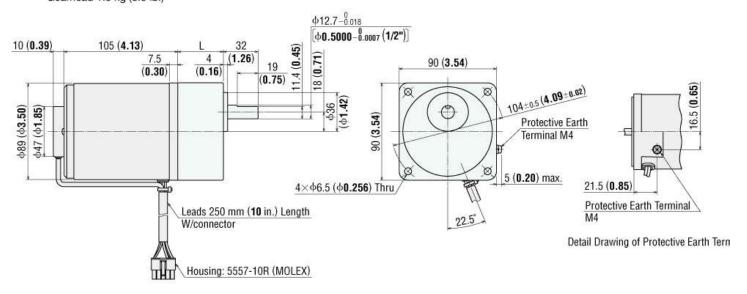
Dimensions Unit = mm (in.)

940 W (1/19 HP)

Model	Motor Model	Gearhead Model	Gear Ratio	L
US540-401U2	USM540-401W2	5GN□SA	3~18	42 (1.65)
US540-402E2	USM540-402W2		25~180	60 (2.36)

Enter the gear ratio in the box (
) within the model name.

Mass: Motor 2.6 kg (5.7 lb.) Gearhead 1.5 kg (3.3 lb.)



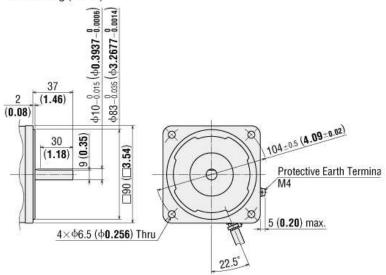
Shaft Section of Round Shaft Type

The motor's dimensions (excluding the shaft section) are the same as those of the pinion shaft types.

US540-001U2, US540-002E2

Motor: USM540-001W2, USM540-002W2

Mass: 2.6 kg (5.7 lb.)

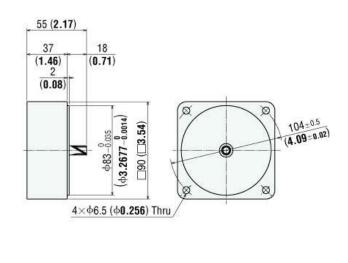


ODecimal Gearhead

Can be connected to **US540** pinion shaft type.

5GN10XS

Mass: 0.6 kg (1.32 lb.)



Connection

Connection and Operation

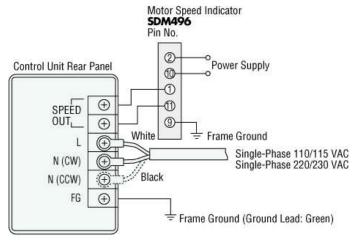
Names and Functions of Speed Control Unit Parts

Control Unit Front Panel



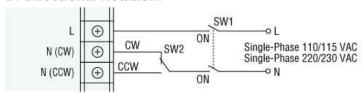
- Connection Diagrams
- ♦ US206, US315, US425 and US540 Types

Uni-Directional Rotation:



In the diagrams above, the motor shaft rotates in the clockwise direction. When changed to the dotted line [N (CCW)] position, the motor shaft rotates in the counterclockwise direction.

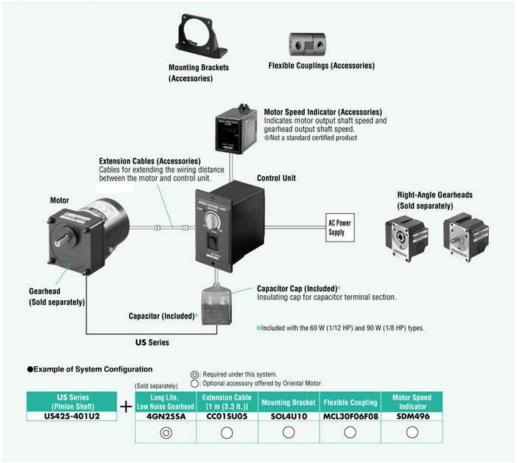
Bi-Directional Rotation:



Contact Capacity of Switch 250 VAC 5 A min. (Inductive load)

System

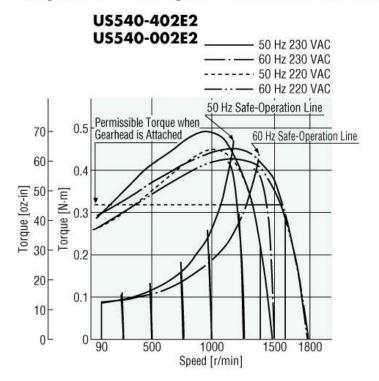
System Configuration



The system configuration shown above is an example. Other configurations are available.

Performance

Speed - Torque Characteristics



©2017 - ORIENTAL MOTOR U.S.A. Corp. - All rights reserved.