

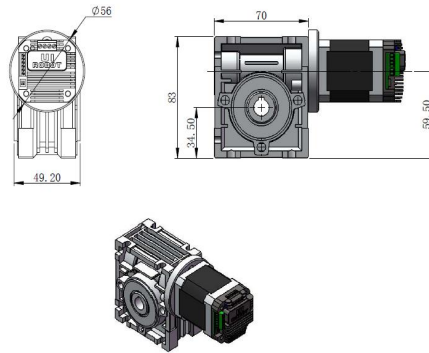
Producer: Tiger Huang

TH0918 Dual Axis Solar Tracker Drive and Power Transmission



Nema23 Motorized Worm Gear Reducer

1. Dual Axis Solar Tracking Mechanical System.
2. Integrated Stepper Motor with Pulse&Direction Driver. Nema23 100mm Length Stepper Motor Torque at 2.5N.m, UIM24004 1.5-4 amps Miniature Stepper Driver.
3. NMRV40 Worm Gear Reducer, Ratio 100:1 or Customized.
4. Wide range Power Supply 24V, 30V and 36V, Output Speed from 0-4.5RPM, 0-5.5RPM and 0-7.5RPM. And the Speed is related with Power Supply and Ratio of the Worm Gear Reducer.



Nema17 Motorized Worm Gear Reducer

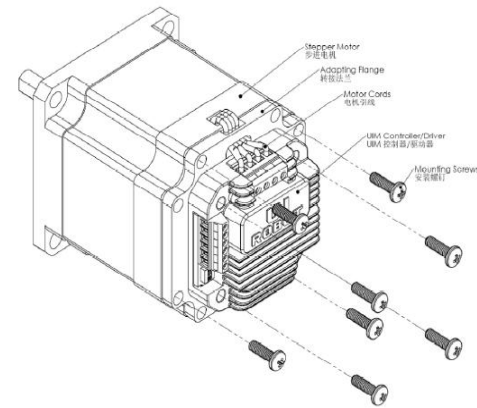


TH0918 Dual Axis Solar Tracker Drive and Power Transmission System are used for Heliostats or Dual Axis Solar Tracking

Model Number	RPM			Integrated Stepper Motor with Drive				Worm Gear Ratio
	24VDC	30VDC	36VDC	Stepper Motor		Drive		
TH0918	0-4.5RPM	0-5.5RPM	0-7.5RPM	Nema23 2.5N.m	Customized Nema23 2.8N.m	UIM24004	Customized RS232 interface	100:1

Stepper Motor:

Specification	
Step Angle	1.8 degrees
Step Angle Accuracy	5.00%
Phase Current	3 amps
Phase Resistance	1.4 ohms
Phase Inductance	5.5 mH
Holding Torque	250 N.cm
Rotor Inertia	680 g.cm ²
Number of Leads	4
Motor Weight	1250 g



Motor Driver Features:

Control Features:

UIM24004 Pulse&Direction Miniature Integrated Stepper Driver.

Optional serial port RS232 interface Stepper Controller with Accel and Decel fu
10-40v DC voltage input, max 4A adjustable phase current.

16th Micro stepping.

Dual full H-Bridge with PWM constant current control.

Worm Gear Reducer:

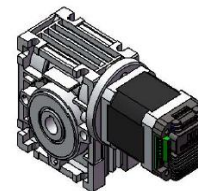
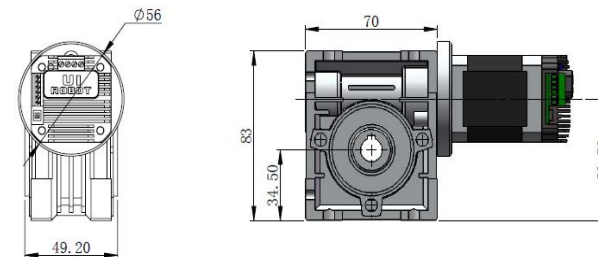
NMRV040 worm gear reducer

Ratio 100:1

Power Transmission:

Couplings

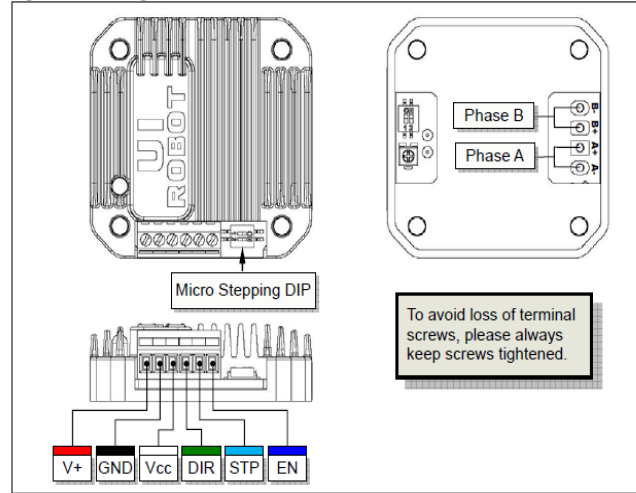
Gear Shaft for Transmission.



Nema17 Motorized Worm Gear Reducer

Wiring Diagram:

Figure 0-1: Wiring Terminal



Wiring Terminals

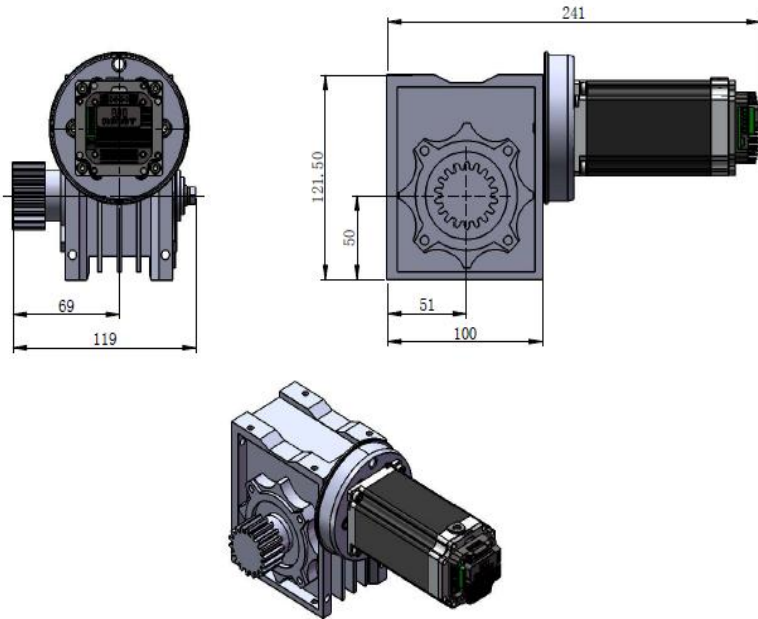
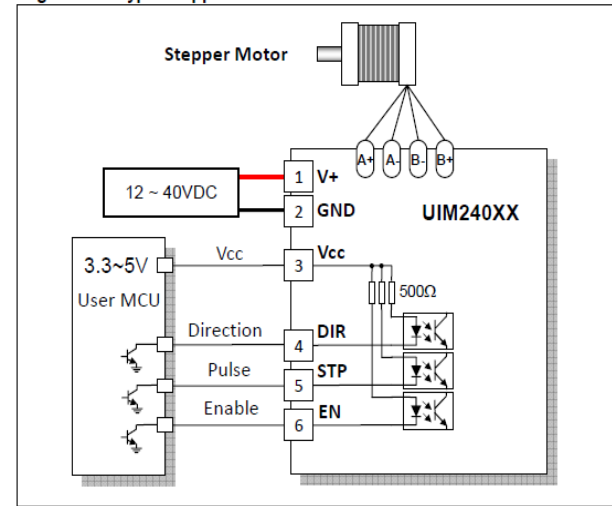


Figure 0-2: Typical Application



Typical Diagram

