

warranty

investment

Chang An Synchronous Motor - 7 promises

Magnetic field generates electricity, a revolutionary design that improves safety, which last for 20 years.

shipping Best motor in the world. Free samples can be provided to confirm the quality (shipping cost is excluded). L/C at sight. 10 years of warranty under normal industrial condition, proper use can last for 20 years. Indirect transmission to avoid damage. To ensure your investment, we provide discount if proving our motor is more expensive than the other motor with same quality. patent Invention patent I433434, safety patent (Taiwan)193111, (China) 4330019.

moral We trust our customers and maintain good relationship with them. Most of our customers are life-long partners.

motor code	#6007 🔵 🔵 🔶	#5007 🔴 🛑 🔵	#4208 🔵 🔵 🛑	#3809 🔵 🔵 🔵	#1415 🔵 🔵 #9016 🔵 🔵	
(differ by wire color)	Ior) power wire: Black CW/CCW rotation wire: Green, Yellow power wire: Black CW/CCW rotation wire: Orange, Blue power wire: Black CW/CCW rotation wire: Brown, Purple		power wire: Black CW/CCW rotation wire: Brown, Purple	power wire: Black CW/CCW rotation wire: Grey, White	power wire: Red CW/CCW rotation wire: White, Green White, Brown	
6 types of motor serve different function	#6007 / 3W 1~3 RPM 110V:38°C 220V:37°C	#5007 / 3.5W ₁₁₀ V:48°C 3~10 RPM 220V:45°C	#4208 / 4W 110V:52°C 6~60 RPM 220V:51°C	#3809 / 4W 110V:56°C 6~200 RPM 220V:55°C	#1415 / 9W #9016 / 12W 1~4 RPM 10~200 RPM 24V:40°C 24V:51°C	
low speed⇔high torque fast speed⇔low torque						
torque with low damage			test is conduct at 20 celsiu	s degree		
Allowable voltage	110V-15%=93	110V-15%=93.5V ~ 110V+15%=126.5V / 220V-15%=187V ~ 220V+10%=242V 24V-6%=22.56V ~ 24V+6%=25.44V				
motor features, functions and associated industry strength of ChangAn motor:	long-term continuous operating industries e.g. rotating monitor scanner.	house appliance, automation industries	high-torque low temp. humid environment industries e.g. gaming industry, electric valves, and voltage regulators.	highter-torque which is limited to intermittent operation industry	inflammable, oil pipes, etc.	
	operate under low temperature, low current, and low pulse to extent service life.	function of #5007 is in between #4208 and #6007	twice the torque of #6007, generate high torque with high temp. & current.	thicker wire, best torque; temp. is 3°C higher than other motor types.	safter than DC motor. The function of #9016 is the same as #1415, differ in voltage.	
1. strong power 2. multi-function 3. long lifespan	 A. speed determined by rated frequency 60/50Hz (frequency controls speed) B. voltage controls torque C. phase electronics control: forward/backward rotation, commutation rotation, or step rotation may all be programmed. D. magnetic induction electricity generation: phase electronics control, sharp switching of forward/backward rotation, high accuracy in reaching starting speed. E. award for reduction carbon emissions. 					
	R P M					
RPM	F	Z601.02.03.0IZ500.831.662.5	4.0 6.0 10.0 15.0 2 3.33 5.0 8.33 12.5 1	0.030.060.0100.06.625.050.083.3	150.0 200.0 125.0 166.0	
Materials	Gear: uses stell step pulleys, precision maching for knurling inside of inner and outer holes all by gear rolling, gear damage test tolerance is up to 3 Magnet: high-precision magnets from Japan with anti-aging and high-temperature resistance treatment to keep the magnet materials stable and magnetic force semi-permanent. (magnetic filed induction) Coils: world's best German Elektrisola enamel wire, of which finished products have voltage tolerance 2500V/sec by CE standards. 180°C temp. tolerance.					

	Pros and Cons comparison of Chang An AC s	ynchronous motors vs. DC motors				
	ChangAn motor can run 24 hrs even with 220voltage.					
characteristics	ChangAn AC synchronous motor	DC motor				
control scheme	Automatic forward/backward rotation, commutation rotation, one-way rotation, gradually forward/backward. Does not rotate backward due to resistance. Speed frequency control, running integer point, magnetic brake control.	one backward rotation for each forward rotation; unable to have automatic forward/backward rotation or step rotation. speed decreases as torque increases, and the decreasing speed causes the current to increase and more heat dissipation.				
speed variation	Rated frequency determines speed and thus speed is not affected by voltage. Voltage determines torque.	speed determined by voltage and unstable; drifts easily like electric fans; fast at 1st gear and slow at 2nd gear.				
rpm1~200 run the integer point	Low start speed (16P 450rpm) reduced by gears to 1rpm~200rpm. Run integers. High start torque (before gears) 1rpm: 85~150kg, 200rpm: 2.2kg.	high start speed about 3600rpm and requires multiple gears to reduce speed; poor efficiency, large noise, failures often. low start toque (before gears)				
current consumption transformer / rectifie	Low current consumption and magnetic induction electricity generation; does not require adaptor or rectifier.	high current consumption and requires transformers and rectifiers.				
brake	High accuracy in reaching starting speed; magnetic field controls stop/brake (no skidding and shifting)	speed increases from low to high like acceleration in automobiles and brakes skid easily.				
structure	Steel gear rolling; precision maching for knurling inside of inner and outer holes; gear can stand 300kg with no cracks or skidding (knurling inside assembly)	carbon brushes wear easily and are not durable				
safety	if power is on and motor does not work, it will not get burn neither affect circuit safety. Uses the world's best German Elektrisola enamel wires that have voltage tolerance 2500V/sec by CE standards.	damaged if stuck and rotation is stopped during power on.				
lifespan	lifespan is 10 years under normal operation; permanent charging by induction motor.	short lifespan (1 year for normal operation due to worn carbon brushes)				
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Sequential and reverse positioning, do not reverse due to resistance, speed frequency, brake magnetic field control

Equipped with semiconductors, it has a wider range of functions and is an intelligent control Synchronous motor.

motor and capacitor configuration Patent no. 193111; share 110V & 220V for saving cost and safety

I10V & 24V only differs by a split phase capacitor, with same wiring and different capacitance.

I10V and 220V may share motors, where 110V only uses 1 split phase capacitor (220V uses 2)







mixer K. Air pressure drainage

V. Antenna

C

Ε.

11. sasfety regulation, paten

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