

Wood Drying Motors

W22 Platform

Industrial Motors

Commercial &
Appliance Motors

Automation

Digital &
Systems

Energy

Transmission &
Distribution

Coatings



WEG W22 Drying Motors were developed to match the application demands of an environment which is exposed to high temperatures (up to 150°C). High performance with maximum energy efficiency, this is what defines the WEG electric motor. A design created to anticipate concepts in performance and energy savings.

Driving efficiency and sustainability



W22 Wood Drying Motors

W22 Wood Drying Motor is built to withstand extreme environments with high ambient temperature, high humidity and aggressive environment. The motor is suitable for applications such as wood dryers or ovens.

W22 Wood Drying Motor is made of cast iron and surface treated both inside and outside to withstand humidity up to 100% and ambient temperature up to 150 °C.

Characteristics of Typical Application

Drying process occurs after the kiln is loaded with wood, then the temperature is raised to maximum.

The holding time and the final temperature in the kiln depend on the type of wood being dried and the expected quality level of the finished product. Complete cycle of the drying process, generally, takes between 24 hours and 56 hours. The temperature of the kiln can vary and, basically, there are two types taking into consideration the temperature range:

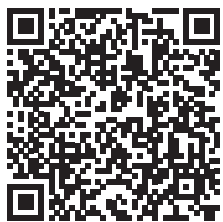
- Kilns that operate up to 100°C and are powered by water vapor at atmospheric pressure.
- Kilns that operate over 100°C.

Technical Features

- Output: up to 450kW
- Number of poles: 2 to 8 poles
- Frames: 63 to 355A/B
- Voltage: up to 690 V
- Frequency: 50 Hz or 60 Hz
- Service factor:
 - 50Hz: 1.00
 - 60Hz: 1.25 (63 to 315S/M)
 - 60Hz: 1.15 (315L and 355M/L)
 - 60Hz: 1.00 (355A/B)
- Degree of Protection: IP55
- Insulation class: H
- Mounting: B3T
- Frame material: Cast iron
- Cooling system: IC411 - TEFC
- Grounding terminals on frame and main terminal box
- Thermistor (1 per phase) for frames 160M to 355A/B

Additional Features

Features		Temperature Range 60°C to 100°C
Insulation Class		H
Impregnation	Frames up to 200	Double Polyester
	Frames 225 and above	Dripping
Connection Cables		Teflon (H class)
Space Heater		200-240 V
Painting Plan		202E or better (Epoxy)
Epoxy Mass Between Frame and T-Box		Included
Internal Tropicalized Painting		Included
Permatex on Joints		Included
Degree of Protection (endshield)	IP65 (standard)	Taconite Labyrinth
	IP66	W3Seal Labyrinth
Bearing	Clearance	C4
	Thermostabilized	None
Grease	Opened Bearing	Mobil Polyrex
	Closed Bearings	Kryton ENS
Grease Nipple		Optional
Bearing Cap		Included
Fan		Plastic
Screws Material		Carbon
Terminal Block		BMC
Drain		Automatic Drain Plug



Get more information about the constructive details of motor!

Please scan the QR code



Drying Motors for ambient temperature over 100°C
Contact WEG.



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