

W22 The New Electric Motor Concept

High performance with maximum energy efficiency, this is the meaning of the new WEG electric motor. High efficiency and Low cost of Ownership throughout the entire motor lifetime have been the basis for the W22 development. A design created to anticipate concepts on performance and energy savings



IEC 225S/M up to 355M/L and NEMA 364T up to 587T

W22, a new concept:

- Excellent cost benefit ratio
- Optimization of energy resources
- Updated electrical features
- Noise level reduction
- Vibration level reduction
- Easier maintenance
- Improving efficiency levels

Lower total operational costs

A product that can operate the most of its designed lifetime consuming the minimum possible energy with high levels of productivity operating continuously without unplanned stops and with top performance, thus generating the maximum value to the user – this is what is behind W22 new concept.

Energy saving

Costs with energy correspond to approximately 90% of total operational costs throughout motor lifetime, being acquisition, installation and maintenance cost the other 10%. W22 new industrial motors platform are supplied with efficiencies above the EFF1 minimum required values, thus guaranteeing energy savings and reduced payback time.

Versatility

The new concept allows terminal box to be mounted top, right or left by using an extensor without disassembling the complete motor, thus reducing modification time and reducing stocks.

Built to last

W22 motors are built using high quality cast iron at WEG own foundries, assuring maximum durability and high performance in aggressive conditions. The new fan cover design provides great resistance against impacts. Additionally the endshield have been designed for a better bearing heat dissipation.

Inverter Duty applications

The exclusive WISE insulation system used on the W22 range increases windings dielectrical resistance, thus allowing VFD operation up to 575V without requiring further modification which results in flexibility and extended motor lifetime.

Range extensions for the future

The W22 platform, offering high efficiency and low lifetime costs, will be the basis for further WEG developments. For example, as well as new permanent magnet motors and Exd motors, an Eco design of compact motors with optimised materials of construction are in development offering a reduced frame size per output. WEG is confident that the principles of the W22 design are the basis for a highly successful international class of electric motors.