INDAR

DFIG W

Main features

Doubly Fed Induction Generator



Applications: On-shore, Off-shore

Indar A

Indar markets a series called **DFIG W**, which comprises the range of general product of the wind power industry in its more usual speed and power range. However, the core of the series relies on its adaptation to the customer's specific requirements and the integration into the complete solution with the converter. With proven experience in this product range, the main design standards are reliability, performance optimisation and cost-effectiveness. The following table shows the main design features of the **DFIG W** series:

DFIG W

Rated power range Electrical layout Voltage	Up to 8 MW Partial converter 690 V-12000 V
Network frequency Cooling Insulation Temperature range Construction Protection degree Corrosive protection	50 Hz-60 Hz Air-Air / Air-Water F-H -30 °C / +50 °C (-40 °C optional) Horizontal (IM1001 / IM1101) IP54 / IP55 (slip-rings IP23 / IP54) C3H-C4H-C5M
Speed Range HS	Drive-Train Config. 3 stage gearbox

Our machines are designed manufactured and tested according to the criteria and standards of the International Electrotechnical Commission (IEC). Additionally, we can design and manufacture in accordance with other standards.









Test Procedure Direct-current windings resistance measurement at cold condition IEC 60034-4 Phase sequence check IEC 60034-8 Temperature rise test IEC 60034-1 IEC 60034-29 No-load saturation test (open circuit saturation curve) IEC 60034-4 Iron losses measurement at no-load IEC 60034-2-1 Friction and windage losses measurement (mechanical losses) IEC 60034-2-1 Total harmonic distortion THD measurement (Voltage waveform) IEC 60034-1 Sustained three-phase short-circuit test (short-circuit curve) IEC 60034-4 Additional load losses measurement (stray losses) IFC 60034-2-1 IEC 60034-2-1 Determination of efficiency IEC 60034-14 Vibration level measurement IEC 60034-1 Overspeed test Withstand voltage test (High voltage dielectric test) IEC 60034-1 Insulation resistance and polarization index measurement IEEE Std 43 Noise level test Reactances & time constants det. IEC 60034-4 Full Load Test

www.indar.net

wind@indar.ingeteam.com



