

Senvion 3.4M140 Eco Blade Control (EBC)

With a 140m rotor diameter, operational lifetime of 25 years and a very low sound power level the 3.4M140 is perfect for low-wind locations. The new turbine generation Eco Blade Control stands for more clean, affordable electricity from wind energy in the grid.

3.4M140

- With an increase in yield of over 20% compared to the 3.0M122
- The tried-and-tested drive train design from the MM and 3.XM
- The new electrical system from the 3.XM NES as a response to future grid requirements
- Newly developed 68 m blade with aeroacoustic enhancements for fewer sound emissions in all operating modes: (max. 104 dB (A))
- New, intelligent load management for a streamlined turbine design
- Durable, load flow-optimised mechanical construction for a 25-year operating life
- Intelligent turbine design and flexible logistics concepts, suitable for a wide range of different locations

Technical data

Design Data

Nominal power	3,400 kW
Cut-in wind speed	3.0 m/s
Nominal wind speed	11.0 m/s
Cut-out wind speed	22.0 m/s
Operating temperature range	-20 °C bis +40 °C

Certification

Hub height	Wind class	DIBt Wind zone
107–110 m	IEC IIIA	WZ 2, GK II
127–130 m	IEC IIIA	WZ 2, GK II

Rotor

Diameter	140,0 m
Rotor area	15.390 m ²
Rotor speed	5,2–9,6 min ⁻¹ (+15 %)
Power control	Electrical pitch system

Rotor blade

Length	68,5 m
Type	Glass fibre-reinforced plastic (GRP)
Max. chord width	4,0 m

Gear System

Type	Three-stage planetary/spur gearbox
Type of suspension	Three-point contact suspension

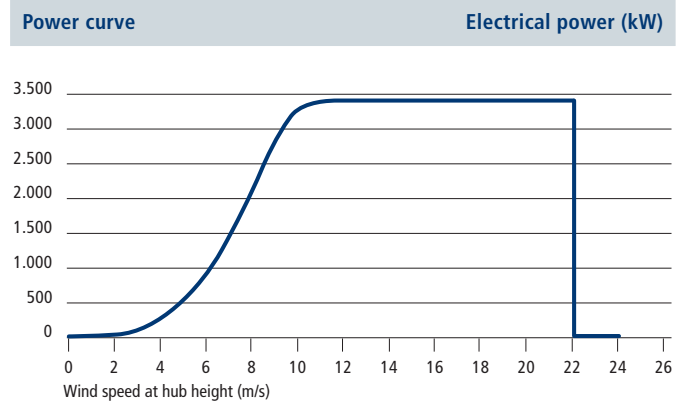
Electrical system

Nominal power	3,400 kW
Nominal voltage	Approx. 750 V (LV-side)
Nominal frequency	50 Hz
Generator	Squirrel Cage Induction Generator
Generator protection class	IP 54
Speed range	780–1,440 min ⁻¹
Converter type	Full converter
Transformer	Internal Transformer (ITS)

Sound power level

Maximum sound power level	104.0 dB (A)
Sound management I	Reducing the maximum sound power level in several stages
Sound management II	Reducing the maximum sound power level in the partial load range

Power curve



Senvion GmbH

Überseering 10
22297 Hamburg
Germany

T +49 40 5555 090-0
F +49 40 5555 090-39 99

info@senvion.com
www.senvion.com

Published by and copyright © 2015 Senvion GmbH.

All rights reserved. This document is for information purposes only and subject to change at any time. No guarantees are given. All obligations arise from a corresponding contract. Reproduction, use or distribution without prior written permission from Senvion GmbH is prohibited.