

M5000-116 (Areva)

Main data

Rated power: 5000 kW
Rotor diameter: 116 m
Old model
Class: GL-TK 1 offshore (DIBt III)
Offshore model: yes

Rotor

Number of blades: 3
Type: Pitch
Swept area: 10568.3 m²
Power density: 2.11 m²/kW
Maximum speed: 14,8 rd/min
Manufacturer: PN Rotor

Tower

Minimum hub height: 90 m
Maximum hub height: 90 m
Manufacturer: Ambau

Weights

Nacelle: 246 t
Rotor + hub: 110 t
Tower: 350 t
Total: 815 t

Gearbox

Gearbox: yes
Stages: 1
Gear ratio: 10
Manufacturer: RENK AG

Wind speeds

Cut-in wind speed: 4 m/s
Rated wind speed: 12,5 m/s
Cut-off wind speed: 25 m/s

Generator

Type: SYNC PM
Number: 1
Maximum speed: 148,5 rd/min
Voltage: 3300 V