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Data of the gearless E-40

Rated capacity: 600 kW Rotor diameter: 44 m Hub height: 46/65/78 m

(variety of towers and foundations)

Turbine concept: gearless, variable speed, variable blade pitch

Rotor with pitch control

upwind rotor with active pitch control Type:

Direction of rotation: clockwise

Number of blades:

Swept area:

1.521 m² fiberglass (reinforced epoxy) Blade material: with integral lightning protection

Rotor speed: variable, 18-34 rpm

Tip speed: 41-78 m/s

Pitch control: three synchronised blade pitch systems

with emergency supply

Generator with drive train

Hub: rigid

Main bearings: tapered roller bearings

Generator: direct-driven synchronous ENERCON ring

generator

Grid feeding: **ENERCON** inverter

Braking system: - 3 independent pitch control systems

with emergency supply

- rotor brake

- rotor lock for service and maintenance

Yaw control: active through adjustment gears, load-

dependent damping

Cut-in wind speed: 2.5 m/s Cut-out wind speed: 28-34 m/s Remote monitoring system: **ENERCON SCADA** Sound power level: 101 dB (A) (measured)

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