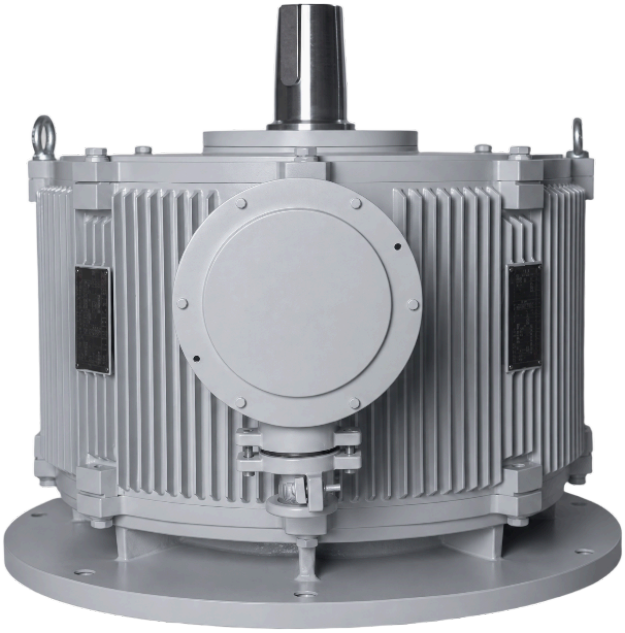
PERMANENT MAGNET SERIES

DZTYP

DZTYP SERIES PERMANENT MAGNET VARIABLE FREQUENCY DIRECT DRIVE MOTOR FOR COOLING TOWERS

Integrated low-speed high-torque permanent magnet motor and intelligent inverter cabinet, developed for cooling tower fan duty.



30–160 kW	H315–H500	IP67	H
RATED OUTPUT	FRAME CENTRE HEIGHT	DEGREE OF PROTECTION	INSULATION CLASS

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DESCRIPTION

A conventional cooling tower drive mounts an induction motor outside the tower and drives the fan through a drive shaft and a gearbox inside it. This system fits a high-efficiency permanent magnet direct-drive motor in the position of the original gearbox, removing the mechanical connection, cutting energy consumption and reducing maintenance cost.

The motor is controlled by an intelligent inverter cabinet providing soft anti-reversal after a power failure, shutdown or fault alarm, regenerative braking, automatic low-temperature heating against condensation, automatic high-temperature cooling, and over-torque, over-voltage and over-current protection.

TECHNICAL SPECIFICATION

Frame centre height	H315–H500 mm
Rated output power	30 kW–160 kW
Supply voltage	380 V, 50 Hz
Degree of protection	IP67
Insulation class	H
Method of cooling	IC410
Rated supply	380 V, 50 Hz (customisable)
Mounting	V2
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	−15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty
Mounting arrangements	IM V2 (vertical)

MODEL DESIGNATION

The type designation is formed as follows, shown for **DZTYP 315 – 30 P 220 R**.

DZTYP	315	30	220R
SERIES	FRAME	OUTPUT	220 R
Series code	Frame centre height, mm	Rated output, kW	Speed, r/min

TYPICAL APPLICATIONS

- Cooling tower fans
- High-temperature, high-humidity environments

NOTES

RATINGS ABOVE THE STATED RANGE

The rating table includes 200 kW and 220 kW machines, above the 160 kW upper limit given in the series data. Both are reproduced as printed; confirm the applicable range with the manufacturer.

RATED DATA

The series is inverter-fed. Ratings below are grouped by synchronous speed with the corresponding base frequency; the constant-torque frequency band is stated with each group.

MOUNTING ARRANGEMENTS

The series is supplied in the following arrangements to IEC 60034-7. Letters on the drawings are the dimension symbols used in the outline and mounting dimension schedule.

ABOUT THESE DRAWINGS

The drawings show a representative frame for each arrangement and are not to scale. Dimensions for a specific frame size are given in the outline and mounting dimension schedule.

OUTLINE AND MOUNTING DIMENSIONS

The series is supplied in the IM B3 (foot), IM B5 (flange), IM B35 (foot and flange) mounting arrangements. The full outline and mounting dimension schedule for each frame — including flange details and tolerances — is issued on request and is not reproduced in this datasheet.

MANUFACTURER

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Ratings and dimensions in this datasheet are taken from the LEADGO product brochure and are subject to change without prior notice as a result of continuous product development. Confirm the applicable data with the manufacturer before ordering or before modifying an existing installation.