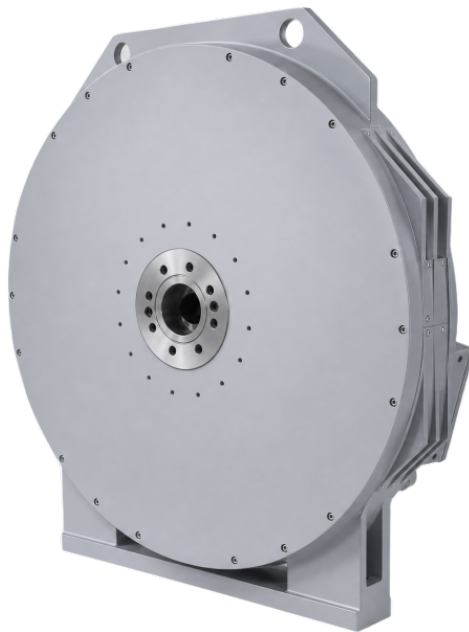


PERMANENT MAGNET SERIES

CYJTYP

CYJTYP SERIES PERMANENT MAGNET INTELLIGENT DRIVE MOTOR

Low-speed high-torque permanent magnet synchronous motor driving the gearbox input shaft of a beam pumping unit directly.

**15-75** kW

RATED OUTPUT

H480-H700FRAME CENTRE
HEIGHT**IP55**DEGREE OF
PROTECTION**S1**

DUTY TYPE

SERIES

CYJTYP

REVISION

A01

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DESCRIPTION

The semi-direct drive motor turns the gearbox input shaft directly. Doing away with the belt drive and with the motor's own bearings reduces the depth of the machine, raises transmission efficiency, lowers maintenance cost and saves energy.

It is used mainly on oil pumping units.

TECHNICAL SPECIFICATION

Rated output power	15 kW–75 kW
Supply voltage	380 V
Degree of protection	IP55
Insulation class	F
Method of cooling	IC410
Rated voltage	380 V
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	Direct drive onto the gearbox input shaft

STANDARDS

Q/1083 SLJ 032-2019	Permanent magnet intelligent drive motor
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FEATURES

- Large-diameter, flat, ultra-thin construction; durable and easy to work on
- Totally enclosed, naturally cooled: low heat, small size, low noise
- No belt drive between motor and gearbox, so transmission efficiency rises
- Permanent magnet synchronous machine: high efficiency, high power factor, clear energy saving
- Improves the loading on the pumping unit gearbox input shaft by removing the radial pull of the belt pulley on the gearbox bearings, so gearbox reliability improves
- No belts or bearings to replace, which lowers pumping unit maintenance cost
- Stepless adjustment of stroke rate
- High starting torque, and easy to maintain
- High overload factor, improving reliability
- The motor mounting section at the tail of the base is removed, saving foundation cost

TYPICAL APPLICATIONS

- Beam pumping units
- Oil production

NOTES

RATING DATA

The brochure page for this series carries the description and features only; it prints no rating table and no dimension schedule. Ratings are issued on request.

SHAFT BORE

The hub bore is tapered to match the tapered gearbox output shaft. The fit must be to specification and the taper closely controlled, or the motor can work loose from the gearbox.

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.