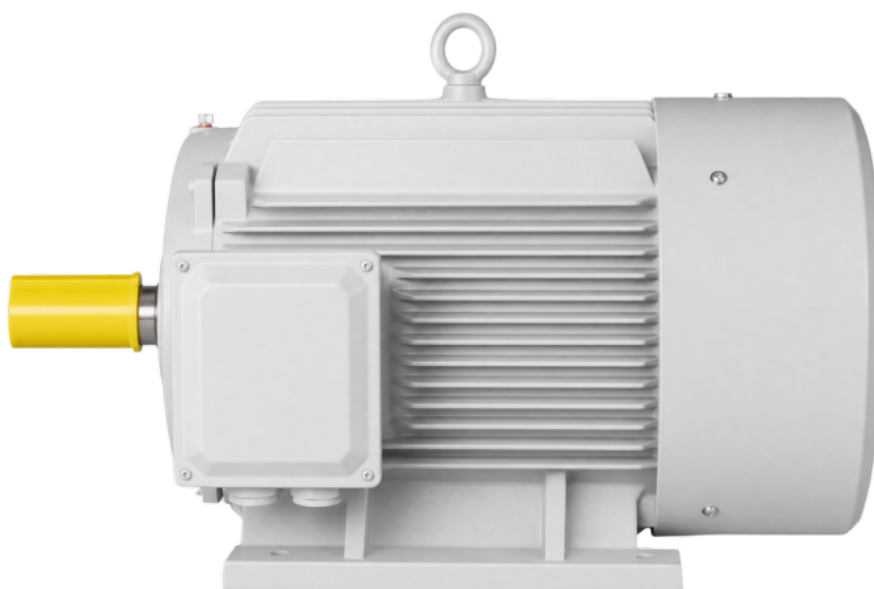


## SPECIAL PURPOSE SERIES

## YDGJ

## YDGJ SERIES MULTI-POWER THREE-PHASE INDUCTION MOTOR

Induction motor giving two rated outputs at one speed by changing the winding connection, for oil field duty.

**11-45** kW

RATED OUTPUT

**H180-H280**FRAME CENTRE  
HEIGHT**2**

OUTPUTS PER SPEED

**380** V

RATED VOLTAGE

SERIES

YDGJ

REVISION

A01

ISSUE

September 2026

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DESCRIPTION

The YDGJ series gives one speed and two rated outputs by changing the winding connection, so output can be matched to the load. Starting torque is high and the arrangement saves energy.

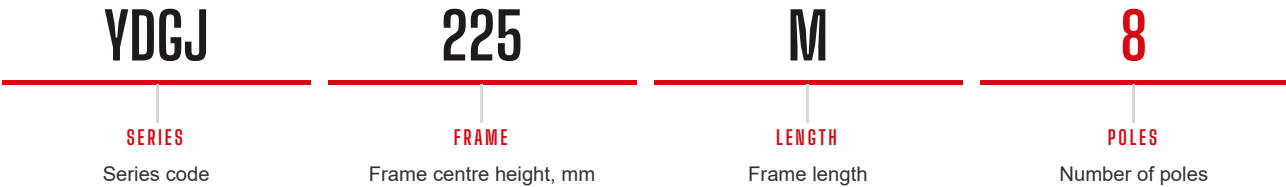
A dedicated control cabinet is available and can be built to a customer's requirement. Its electrical system provides power changeover and protection against short circuit, overload and phase loss. The cabinet uses a concealed lock, is simple and safe to operate, and is rainproof and secure against theft.

TECHNICAL SPECIFICATION

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Output changeover     | By winding connection, through the control cabinet |
| 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 B3 (foot mounting)                              |

MODEL DESIGNATION

The type designation is formed as follows, shown for **YDGJ 225M – 8**.



READING A DESIGNATION

The output column carries two figures, for example 22/18.5, one for each winding connection.

TYPICAL APPLICATIONS

- Oil fields
- Beam pumping units

NOTES

NOT EXPLOSION PROTECTED

This series carries no explosion-protection marking and must not be used in a hazardous area.

RATED DATA

Values are for 50 Hz operation at the rated voltage stated above. Ratings are continuous (duty type S1).

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

Principal dimensions are given below. The complete dimension schedule, including tolerances and flange details, is issued on request.

PRINCIPAL OUTLINE AND MOUNTING DIMENSIONS (MM)

| FRAME        | A   | B   | C   | D  | E   | F  | G    | H   | K    | AB  | AC  | AD  | HD  | L    |
|--------------|-----|-----|-----|----|-----|----|------|-----|------|-----|-----|-----|-----|------|
| YDGJ225M-8   | 356 | 311 | 149 | 60 | 140 | 18 | 53   | 225 | 18.5 | 435 | 475 | 345 | 530 | 845  |
| YDGJ250M-6   | 406 | 349 | 168 | 65 | 140 | 18 | 58   | 250 | 24   | 435 | 515 | 385 | 575 | 930  |
| YDGJ250M-8   | 406 | 349 | 168 | 65 | 140 | 18 | 58   | 250 | 24   | 435 | 515 | 385 | 575 | 930  |
| YDGJ280S-6/8 | 457 | 368 | 190 | 75 | 140 | 20 | 67.5 | 280 | 24   | 550 | 580 | 410 | 640 | 1000 |
| YDGJ280M-6/8 | 457 | 419 | 190 | 75 | 140 | 20 | 67.5 | 280 | 24   | 550 | 580 | 410 | 640 | 1050 |
| YDGJ315S-6/8 | 508 | 406 | 216 | 80 | 170 | 22 | 71   | 315 | 28   | 630 | 645 | 576 | 865 | 1270 |
| YDGJ315M-8   | 508 | 457 | 216 | 80 | 170 | 22 | 71   | 315 | 28   | 630 | 645 | 576 | 865 | 1340 |

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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.