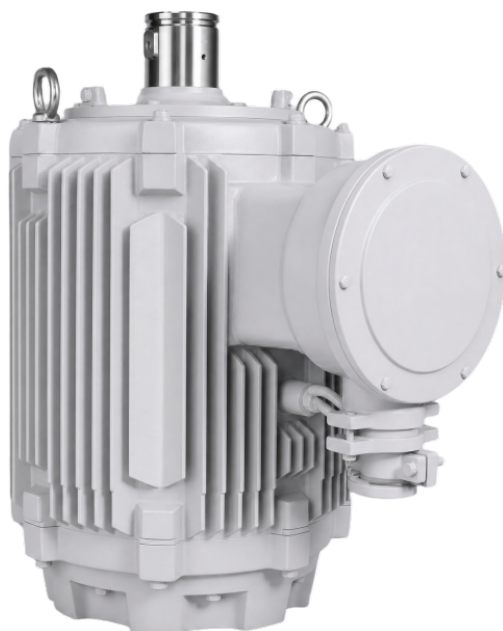


PERMANENT MAGNET SERIES

TYPL

TYPL SERIES EXPLOSION-PROOF PERMANENT MAGNET VARIABLE FREQUENCY MOTOR FOR SCREW PUMPS

Integrated flameproof permanent magnet variable frequency motor and intelligent inverter cabinet, developed for oil field screw pump duty.

**8.4-55** kW

RATED OUTPUT

H225-H400FRAME CENTRE
HEIGHT**25-200** r/min

SPEED RANGE

≥ 0.93

POWER FACTOR

SERIES

TYPL

REVISION

A01

ISSUE

September 2026

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DESCRIPTION

A vertical hollow-shaft high-efficiency permanent magnet variable frequency motor drives the screw of the pump directly, removing the gearbox and so cutting energy consumption and maintenance cost. The well seal moves from the wellhead to the top of the motor, which makes servicing simpler.

The system is simple in construction, easy to set up and efficient. It provides 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. The control cabinet can be built to a customer's requirement.

TECHNICAL SPECIFICATION

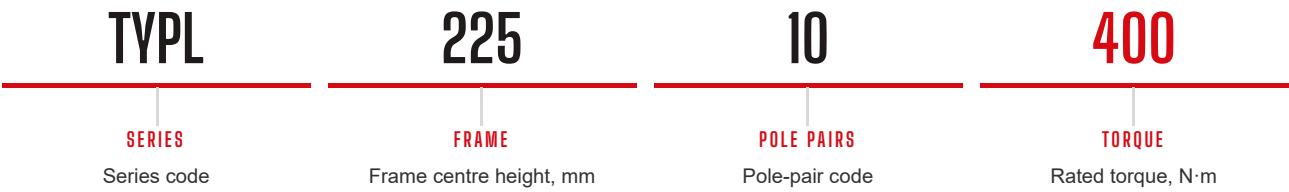
Frame centre height	H225–H400 mm
Rated output power	8.4 kW–55 kW
Supply voltage	380 V, 50 Hz
Degree of protection	IP55
Insulation class	F
Method of cooling	IC410
Rated supply	380 V $\pm$ 10 %, 50 Hz (customisable)
Rated speed	200 r/min
Mounting	V2
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	–15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty
Mounting arrangements	IM V2 (vertical), hollow shaft

STANDARDS

Q/1083 SLJ 004-2022	Flameproof permanent magnet variable frequency motor for screw pumps
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MODEL DESIGNATION

Two designation forms are used — one by rated torque, one by rated output. Shown for **TYPL 225 – 10 – 400**.



READING A DESIGNATION

In the output form the last field is the rated output in kW instead, for example TYPL 400M3 – 55.

TYPICAL APPLICATIONS

- Oil field screw pump units
- High viscosity, high sand and high water cut wells

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.

RATINGS BY RATED TORQUE

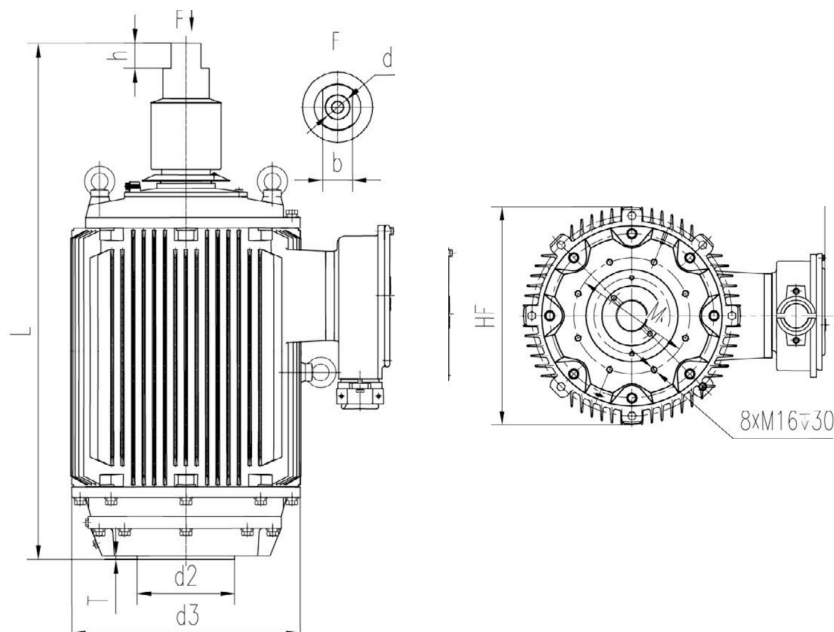
TYPE	RATED TORQUE N·m	RATED OUTPUT kW	EFFICIENCY %
TYPL225-10-400	400	8.4	87
TYPL225-10-600	600	12.6	87.9
TYPL225-10-900	900	18.8	89.8
TYPL250-20-600	600	12.5	87.9
TYPL250-20-900	900	18.8	89.8
TYPL250-20-1000	1000	21	90.3
TYPL280-20-1200	1200	25	90.8
TYPL280-20-1500	1500	31.4	91.1

RATINGS BY RATED OUTPUT

TYPE	RATED TORQUE N·m	EFFICIENCY %	OUTLINE DRAWING
TYPL225S-5.5	263	85.4	Fig. 1
TYPL225M-7.5	358	86.6	Fig. 1
TYPL250S1-11	525	87.9	Fig. 1
TYPL250S2-15	716	89	Fig. 1
TYPL250M1-18.5	883	89.8	Fig. 1
TYPL250M2-22	1051	90.3	Fig. 1
TYPL280S-25	1200	90.8	Fig. 1
TYPL280M-30	1433	91.1	Fig. 1
TYPL280L-37	1767	91.4	Fig. 1
TYPL315M1-42	2006	92	Fig. 1
TYPL400M1-40	1910	91.8	Fig. 2
TYPL400M2-45	2149	92.2	Fig. 2
TYPL400M3-55	2626	92.5	Fig. 2

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.

IM V2 VERTICAL MOUNTING

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	D1	D2	D3	H	T	B	M	HF	ND	L
TYPL225	to suit polished rod	φ230(0/-0.072)	φ450	19	9	70	φ290	600	420	900
TYPL250	as above	as above	φ490	19	9	70	φ290	670	460	940
TYPL280	as above	as above	φ550	19	9	70	φ290	720	500	1130
TYPL315	as above	as above	φ610	23	9	70	φ290	820	550	1300
TYPL400	as above	as above	φ847	23	9	70	φ290	1010	603	1000

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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.