

CONTROL SYSTEMS

TYP-T3-F

TYP-T3-F DEDICATED CONTROL SYSTEM FOR THREE-PHASE PERMANENT MAGNET SYNCHRONOUS MOTORS

Intelligent control cabinet for beam pumping units, matched to the permanent magnet intelligent drive motor.

**1.5-132** kW

RATED POWER

380 V

RATED VOLTAGE

IP54DEGREE OF
PROTECTION**F**

INSULATION CLASS

SERIES

TYP-T3-F

REVISION

A01

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DESCRIPTION

The TYP-T3-F series is a dedicated intelligent control device for pumping units, built to pair with the permanent magnet intelligent drive motor. It applies computer technology, communication networks and motor control algorithms to give remote supervision, control and data acquisition for oil field production.

The drive uses field-oriented control, resolving the permanent magnet field for fast dynamic response, flexible control and high torque at low frequency, so the system stays efficient across its range. Protection covers short circuit, overload, overvoltage, phase loss and loss of speed regulation.

TECHNICAL SPECIFICATION

Rated power	1.5 kW–132 kW
Rated voltage	380 V (built to order)
Rated frequency	50 Hz (built to order)
Degree of protection	IP54
Insulation class	F
Mounting arrangements	Floor-standing control cabinet

MODEL DESIGNATION

The type number carries the rated power, shown for **TYP-T3-F 011**.

TYP-T3-F

SERIES

Control system series

011

POWER

Rated power in kW; 011 = 11 kW

READING A DESIGNATION

The brochure prints no further breakdown of the type number.

TYPICAL APPLICATIONS

- Beam pumping units
- Oil field production
- SCADA-monitored sites

NOTES

LOCAL AND REMOTE CONTROL

A digital module switches between local and remote control. Ethernet, RS485 and wireless ZigBee interfaces link the SCADA centre, the drive and the pumping unit's wireless sensors into one data network for automatic acquisition, analysis and remote control.

METERING

A multi-function meter measures and analyses energy use to high accuracy and can upload the readings in real time.

TEMPERATURE CONTROL

For harsh oil field sites the cabinet cools itself automatically at high temperature and heats itself automatically at low temperature.

RATED DATA

Ratings are for the standard 380 V, 50 Hz build. Other supply voltages and frequencies are built to order.

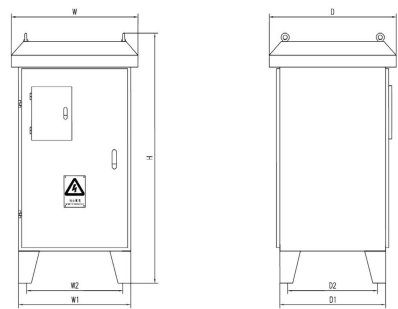
RATINGS

TYPE	RATED OUTPUT kW	RATED VOLTAGE V	RATED FREQUENCY Hz	RATED CURRENT A
TYP-T3-F001.5	1.5	380	50	3.7
TYP-T3-F002.2	2.2	380	50	5
TYP-T3-F004	4	380	50	9.5
TYP-T3-F005.5	5.5	380	50	14
TYP-T3-F007.5	7.5	380	50	18.5
TYP-T3-F011	11	380	50	25
TYP-T3-F015	15	380	50	32
TYP-T3-F018.5	18.5	380	50	38
TYP-T3-F022	22	380	50	45
TYP-T3-F030	30	380	50	60
TYP-T3-F037	37	380	50	75
TYP-T3-F045	45	380	50	92
TYP-T3-F055	55	380	50	115
TYP-T3-F075	75	380	50	150
TYP-T3-F090	90	380	50	180
TYP-T3-F110	110	380	50	215
TYP-T3-F132	132	380	50	260

MOUNTING ARRANGEMENTS

The control cabinet outline is shown below. W, D and H are the symbols used in the dimension schedule.

Cabinet FLOOR-STANDING ENCLOSURE



ABOUT THESE DRAWINGS

The drawing shows the cabinet outline and is not to scale. Dimensions for each type are given in the schedule below.

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)

TYPE	W	D	H	W1	W2	D1	D2
TYP-T3-F001.5 / F002.2 / F004 / F005.5 / F007.5	600	600	1200	500	400	450	350
TYP-T3-F011 / F015 / F018.5 / F022 / F030	700	700	1430	610	510	570	470
TYP-T3-F037 / F045 / F055 / F075 / F090	790	790	1510	700	600	660	560
TYP-T3-F110 / F132	820	820	1600	730	630	690	590

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.