

CONTROL SYSTEMS

YZYVP

YZYVP DEDICATED CONTROL SYSTEM FOR THREE-PHASE INDUCTION MOTORS

Integrated drive package of a YVP oil field variable-frequency induction motor and an intelligent inverter cabinet.

**5.5–90** kW

RATED POWER

380 V

RATED VOLTAGE

5–50 HzCONSTANT TORQUE
RANGE**IP54**DEGREE OF
PROTECTION

SERIES

YZYVP

REVISION

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DESCRIPTION

The YZYVP series is an integrated motor drive package made up of a YVP series (IP55) oil field variable-frequency induction motor and an intelligent inverter cabinet. It is intended for oil field duty and suits pumping units and other loads that are not constant.

The package is of dual-circuit design, running either from the inverter or direct on line, with protection against over-torque, overvoltage, overcurrent and phase loss. On inverter supply the motor runs constant-torque between 5 and 50 Hz, smoothly and without torque ripple, with high starting torque and low starting current. On mains supply an intelligent motor protector guards the machine.

TECHNICAL SPECIFICATION

Rated power	5.5 kW–90 kW
Rated voltage	380 V (built to order)
Rated frequency	50 Hz (built to order)
Degree of protection	IP54
Insulation class	F
Matched motor	YVP series (IP55) oil field variable-frequency induction motor
Mounting arrangements	Floor-standing control cabinet

MODEL DESIGNATION

The type number carries both matched motor ratings, shown for **YZYVP-3F 011/015**.

YZYVP-3F

011/015

SERIES

Control system series

RATINGS

Matched motor rating, heavy duty / light duty, in kW

READING A DESIGNATION

The brochure prints no further breakdown of the type number.

TYPICAL APPLICATIONS

- Beam pumping units
- Oil field production
- Loads that are not constant

NOTES

CONTROL METHOD

The inverter uses sensorless vector control, holding efficiency and control accuracy across the range.

TEMPERATURE CONTROL

The cabinet heats itself automatically at low temperature and cools itself automatically at high temperature.

RATED DATA

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

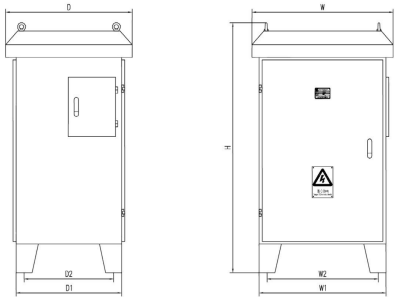
RATINGS

TYPE	MOTOR RATING, HEAVY DUTY kW	MOTOR RATING, LIGHT DUTY kW	RATED VOLTAGE V	RATED FREQUENCY Hz	RATED CURRENT A
YZYVP-3F05.5/07.5	5.5	7.5	380	50	14
YZYVP-3F07.5/011	7.5	11	380	50	18.5
YZYVP-3F011/015	11	15	380	50	25
YZYVP-3F015/018.5	15	18.5	380	50	32
YZYVP-3F018.5/022	18.5	22	380	50	38
YZYVP-3F022/030	22	30	380	50	45
YZYVP-3F030/037	30	37	380	50	60
YZYVP-3F037/045	37	45	380	50	75
YZYVP-3F045/055	45	55	380	50	92
YZYVP-3F055/075	55	75	380	50	115
YZYVP-3F075/090	75	90	380	50	150
YZYVP-3F090/110	90	110	380	50	180

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
YZYVP-3F05.5/07.5 / F07.5/011	750	540	1350	660	560	440	340
YZYVP-3F011/015 / F015/018.5 / F018.5/022	800	750	1450	710	610	620	520
YZYVP-3F022/030 / F030/037 / F037/045 / F045/055 / F055/075 / F075/090 / F090/110	890	796	1517	800	700	664	564

MANUFACTURER

CHINA HEADQUARTERS

SHANDONG LIJIU ELECTRICAL
MACHINERY CO., LTD

No.22, Shanhai Road, Rushan City, Shandong, China
Email: info@leadgomotor.com

THAILAND FACILITY

LEADGO MOTOR TECHNOLOGY
THAILAND CO LTD

Rojana Bowin 2 Industrial Estate, Si Racha,
Chonburi, Thailand
Email: info@leadgomotor.com

WEBSITE www.leadgomotor.com

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.