

IEC STANDARD SERIES

YE4 LV/HP

YE4 SERIES LOW-VOLTAGE HIGH-POWER THREE-PHASE INDUCTION MOTOR

Low-voltage induction motor for high-power drives at IE4 efficiency, extending the YE4 range above frame 355.

**200–1000** kW

RATED OUTPUT

H355–H450FRAME CENTRE
HEIGHT**IE4**

EFFICIENCY CLASS

IP55DEGREE OF
PROTECTION

SERIES

YE4-HP

REVISION

A01

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DESCRIPTION

The efficiency of this series meets grade 2 of GB 18613—2020, that is efficiency class IE4 of IEC 60034. It is a totally enclosed fan-cooled three-phase induction motor optimised with new materials and new manufacturing technique, with high efficiency, low noise, low vibration and a compact, well-proportioned design.

The series is rated 380 V or 660 V at 50 Hz, insulation class F, cooling IC411, continuous duty S1, and is available in the IM B3, IM B35 and IM V1 mounting arrangements. It complements the standard YE4 range (H80–H355, 0.55–375 kW), taking the series on to 1000 kW.

TECHNICAL SPECIFICATION

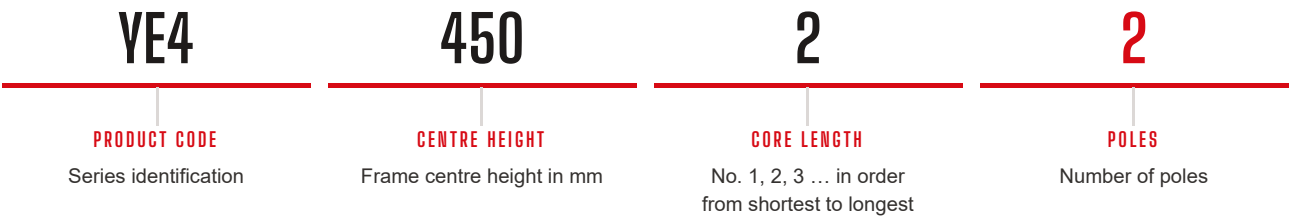
Frame centre height	H355–H450 mm
Rated output power	200 kW–1000 kW
Supply voltage	380 V, 50 Hz · 660 V, 50 Hz
Degree of protection	IP55
Insulation class	F
Method of cooling	IC411
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	–15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty
Mounting arrangements	IM B3 (foot), IM B35 (foot and flange), IM V1 (vertical flange)

STANDARDS

GB 18613—2020	Energy efficiency grades for motors — grade 2
IEC 60034	Efficiency class IE4

MODEL DESIGNATION

The designation is formed in accordance with **JB/T 11818—2014 *Designation Method for Electric Machine Products***. For a large or medium induction motor the specification code is composed of **frame centre height · core length · number of poles**, followed where applicable by a special-environment code.



YE4-4502-2 = YE4 series induction motor, frame centre height 450 mm, No. 2 core length, 2 poles.

READING A DESIGNATION

The special-environment code is appended only where the duty requires it. Where several apply they are ordered as set out in JB/T 11818—2014.

TYPICAL APPLICATIONS

- | | | | |
|---------------|--------------------------|---------------------------|--------------------|
| ■ Water pumps | ■ Fans | ■ Compressors | ■ Conveyors |
| ■ Mixers | ■ Agricultural machinery | ■ Metallurgical machinery | ■ Mining machinery |

NOTES

MOUNTING

IM B3, IM B35 and IM V1.

SUPPLY

380 V or 660 V at 50 Hz. Other voltages to order.

RATED DATA

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

2 POLES — SYNCHRONOUS SPEED 3000 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE4-3551-2	355	2980	96.5	0.90	621
YE4-3552-2	400	2980	96.5	0.90	700
YE4-3553-2	450	2980	96.5	0.90	787
YE4-4001-2	500	2980	96.5	0.90	875
YE4-4002-2	560	2980	96.5	0.91	969
YE4-4003-2	630	2980	96.5	0.91	1090
YE4-4501-2	710	2984	96.5	0.91	1228
YE4-4502-2	800	2985	96.5	0.91	1384
YE4-4503-2	900	2983	96.5	0.91	1557
YE4-4504-2	1000	2986	96.5	0.92	1711

4 POLES — SYNCHRONOUS SPEED 1500 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE4-3551-4	355	1490	96.7	0.88	634
YE4-3552-4	400	1490	96.7	0.88	714
YE4-3553-4	450	1490	96.7	0.88	803
YE4-4001-4	500	1490	96.7	0.88	893
YE4-4002-4	560	1490	96.7	0.89	989
YE4-4003-4	630	1490	96.7	0.89	1112
YE4-4501-4	710	1490	96.7	0.89	1253
YE4-4502-4	800	1490	96.7	0.90	1397
YE4-4503-4	900	1490	96.7	0.90	1571
YE4-4504-4	1000	1490	96.7	0.90	1746

6 POLES — SYNCHRONOUS SPEED 1000 R/MIN, 50 HZ

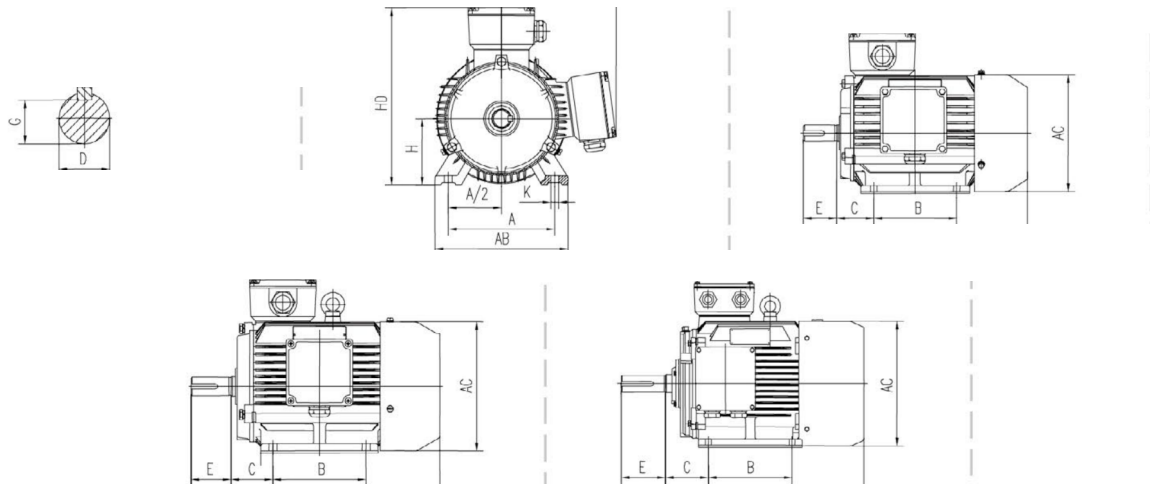
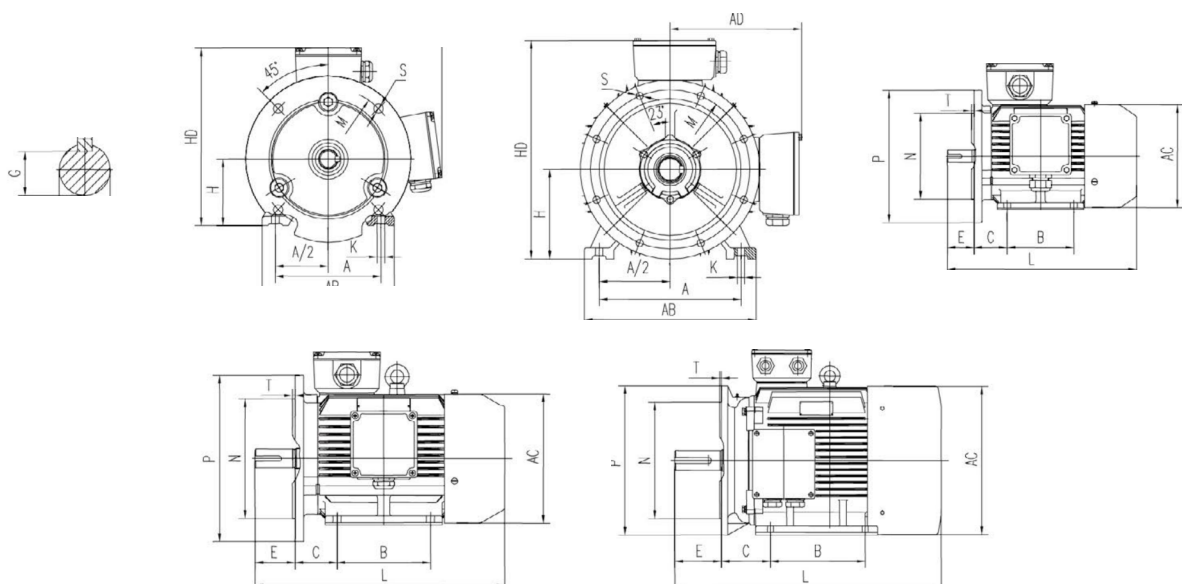
TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE4-3552-6	315	990	96.6	0.82	604
YE4-3553-6	355	990	96.6	0.82	681
YE4-4001-6	400	990	96.6	0.83	758
YE4-4002-6	450	990	96.6	0.83	853
YE4-4003-6	500	990	96.6	0.83	948
YE4-4501-6	560	993	96.6	0.84	1049
YE4-4502-6	630	993	96.6	0.84	1180
YE4-4503-6	710	993	96.6	0.84	1329
YE4-4504-6	800	993	96.6	0.84	1498

8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE4-3552-8	250	740	95.4	0.80	498
YE4-3553-8	315	740	95.4	0.80	627
YE4-4001-8	355	745	95.4	0.80	707
YE4-4002-8	400	745	95.4	0.80	796
YE4-4501-8	450	744	95.4	0.81	885
YE4-4502-8	500	744	95.4	0.81	983
YE4-4503-8	560	744	95.4	0.81	1101
YE4-4504-8	630	744	95.4	0.81	1239

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 B3 FOOT MOUNTING**IM B35** FOOT AND FLANGE 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

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.

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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.