

IEC STANDARD SERIES

YE3 LV/HP

YE3 SERIES LOW-VOLTAGE HIGH-POWER THREE-PHASE INDUCTION MOTOR

Low-voltage induction motor for high-power drives, extending the YE3 range above frame 355.

**200–1000** kW

RATED OUTPUT

H355–H450FRAME CENTRE
HEIGHT**IE3**

EFFICIENCY CLASS

IP55DEGREE OF
PROTECTION

SERIES

YE3-HP

REVISION

A01

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DESCRIPTION

The efficiency of this series meets grade 3 of GB 18613—2020, that is efficiency class IE3 of IEC 60034. The design is compact and well proportioned, with high efficiency, low noise and low vibration.

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 YE3 range (H80–H355, 0.55–375 kW), taking the series on to 1000 kW.

TECHNICAL SPECIFICATION

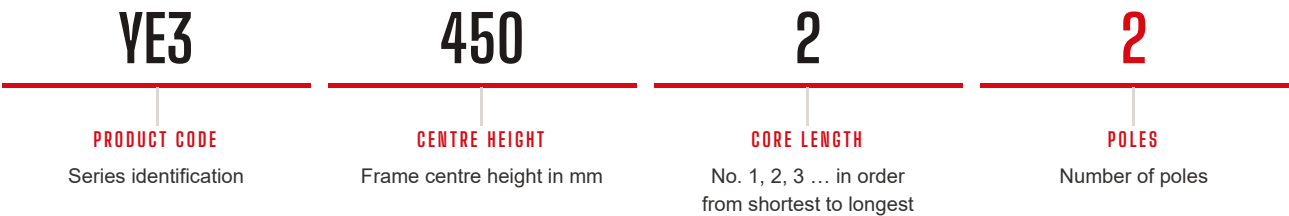
Frame centre height	H355–H450 mm
Rated output power	200 kW–1000 kW
Supply voltage	380 V, 50 Hz · 660 V, 50 Hz
Degree of protection	IP55
Insulation class	F
Method of cooling	IC411
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	–15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty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

STANDARDS

GB 18613—2020	Energy efficiency grades for motors — grade 3
IEC 60034	Efficiency class IE3

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.



YE3-4502-2 = YE3 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
YE3-3551-2	355	2980	95.8	0.90	626
YE3-3552-2	400	2980	95.8	0.90	705
YE3-3553-2	450	2980	95.8	0.90	793
YE3-4001-2	500	2980	95.8	0.90	881
YE3-4002-2	560	2980	95.8	0.91	976
YE3-4003-2	630	2980	95.8	0.91	1098
YE3-4501-2	710	2984	95.8	0.91	1237
YE3-4502-2	800	2985	95.8	0.91	1394
YE3-4503-2	900	2983	95.8	0.91	1569
YE3-4504-2	1000	2986	95.8	0.92	1724

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
YE3-3551-4	355	1490	96.0	0.88	638
YE3-3552-4	400	1490	96.0	0.88	719
YE3-3553-4	450	1490	96.0	0.88	809
YE3-4001-4	500	1490	96.0	0.88	899
YE3-4002-4	560	1490	96.0	0.89	996
YE3-4003-4	630	1490	96.0	0.89	1120
YE3-4501-4	710	1490	96.0	0.89	1263
YE3-4502-4	800	1490	96.0	0.90	1407
YE3-4503-4	900	1490	96.0	0.90	1583
YE3-4504-4	1000	1490	96.0	0.90	1759

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
YE3-3552-6	315	990	95.8	0.82	609
YE3-3553-6	355	990	95.8	0.82	687
YE3-4001-6	400	990	95.8	0.83	764
YE3-4002-6	450	990	95.8	0.83	860
YE3-4003-6	500	990	95.8	0.83	955
YE3-4501-6	560	993	95.8	0.84	1057
YE3-4502-6	630	993	95.8	0.84	1189
YE3-4503-6	710	993	95.8	0.84	1341
YE3-4504-6	800	993	95.8	0.84	1510

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
YE3-3552-8	250	740	94.6	0.80	502
YE3-3553-8	315	740	94.6	0.80	632
YE3-4001-8	355	745	94.6	0.80	713
YE3-4002-8	400	745	94.6	0.80	803
YE3-4501-8	450	744	94.6	0.81	892
YE3-4502-8	500	744	94.6	0.81	991
YE3-4503-8	560	744	94.6	0.81	1110
YE3-4504-8	630	744	94.6	0.81	1249

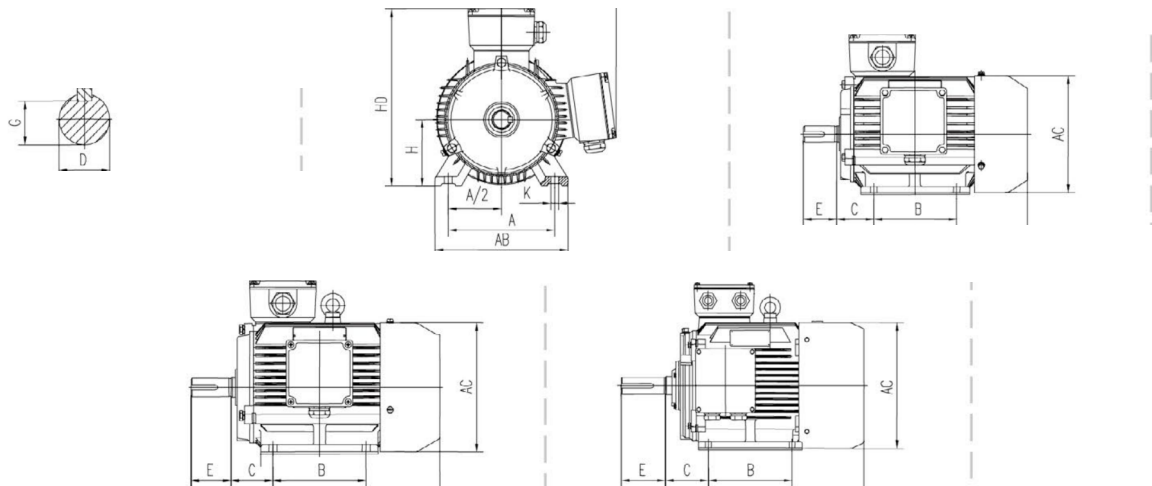
10 POLES — SYNCHRONOUS SPEED 600 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE3-3552-10	200	590	93.9	0.74	437
YE3-3553-10	250	590	93.9	0.74	547
YE3-4002-10	315	595	94.4	0.77	658
YE3-4003-10	355	595	94.4	0.77	742
YE3-4502-10	400	594	94.5	0.77	835
YE3-4503-10	450	594	94.5	0.77	940
YE3-4504-10	500	594	94.6	0.77	1043

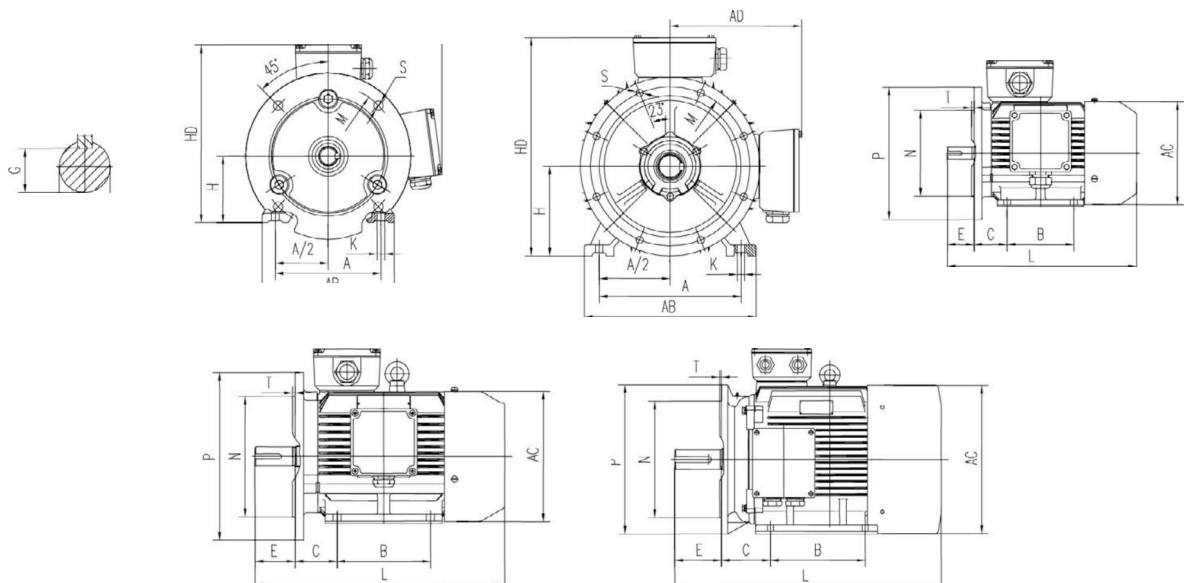
MOUNTING ARRANGEMENTS

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

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	POLES	SHAFT DIA. Φ	A	B	C	OVERALL LENGTH L mm
YE3-355	2 / 4.6.8.10	Φ80 / Φ110	630	800	224±4.0	1870~1930
YE3-400	2 / 4.6.8.10	Φ85 / Φ120	710	900	224±4.0	1990~2030
YE3-450	2 / 4.6.8.10	Φ95 / Φ130	800	1000	250±4.0	2310~2350

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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.