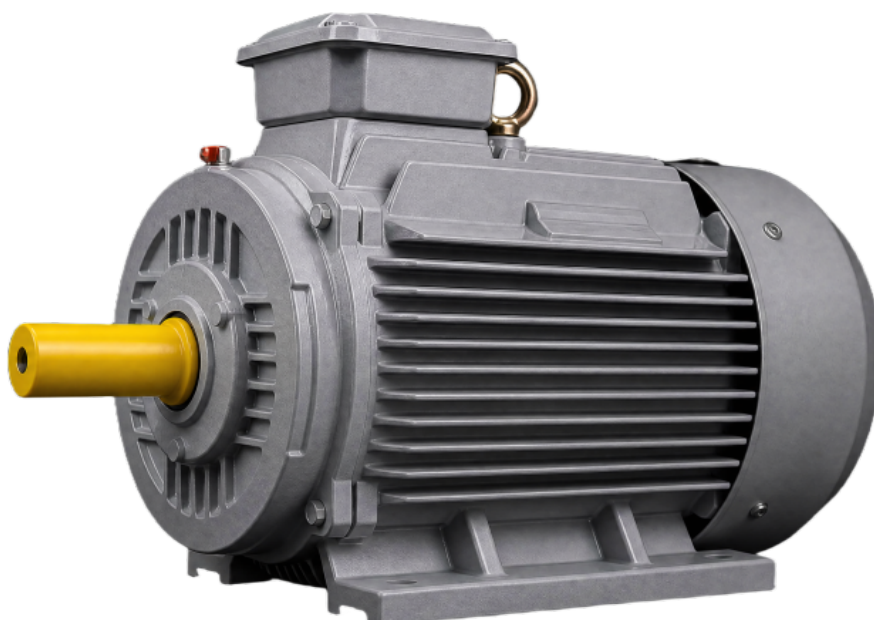


IEC STANDARD SERIES

YE4 (IE4)

YE4 (IE4) SERIES THREE-PHASE INDUCTION MOTOR

Single-speed, totally enclosed fan-cooled, continuous-duty low-voltage squirrel-cage induction motor at IE4 efficiency.

**0.55–375** kW

RATED OUTPUT

H80–H355FRAME CENTRE
HEIGHT**IE4**

EFFICIENCY CLASS

IP55DEGREE OF
PROTECTION

SERIES

YE4

REVISION

A01

ISSUE

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DESCRIPTION

The efficiency of the YE4 series reaches grade 2 of GB 18613—2020 *Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Small and Medium Three-Phase Induction Motors*, which corresponds to IE4 of IEC 60034-30.

The series is a single-speed, totally enclosed, fan-cooled, continuous-duty general purpose low-voltage squirrel-cage three-phase induction motor. It is intended for sites with no special requirement and drives general machinery of all kinds.

TECHNICAL SPECIFICATION

Frame centre height	H80–H355 mm
Rated output power	0.55 kW–375 kW
Rated voltage and frequency	380 V, 50 Hz
Degree of protection	IP55
Thermal class	155 (F), evaluated to Class B temperature rise
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 B5 (flange), IM B35 (foot and flange)

STANDARDS

GB 18613—2020	Energy efficiency grades for motors — grade 2
IEC 60034-30	Efficiency class IE4

MODEL DESIGNATION

The designation is formed in accordance with **JB/T 11818—2014 Designation Method for Electric Machine Products**. For a small induction motor the specification code is composed of **frame centre height · frame length · core length · number of poles**.

YE4	160	M	1	2
PRODUCT CODE	CENTRE HEIGHT	FRAME LENGTH	CORE LENGTH	POLES
Series identification	Frame centre height in mm	S = short frame M = medium frame L = long frame	No. 1, 2, 3 ... in order from shortest to longest	Number of poles

YE4-160M1-2 = YE4 series induction motor, frame centre height 160 mm, medium frame, No. 1 core length, 2 poles.

READING A DESIGNATION

Where a frame is built in a single core length the digit is not printed. The remaining fields keep the order given above.

TYPICAL APPLICATIONS

- Machine tools
- Fans
- Compressors
- Conveyors
- Mixers
- Printing machinery
- Agricultural machinery
- Packaging machinery

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	LOCKED-ROTOR CURRENT / rated current
YE4-80M1-2	0.75	2885	83.5	0.83	1.64	8.5
YE4-80M2-2	1.1	2885	85.2	0.83	2.36	8.5
YE4-90S-2	1.5	2885	86.5	0.85	3.10	9.0
YE4-90L-2	2.2	2885	88.0	0.86	4.42	9.0
YE4-100L-2	3	2905	89.1	0.87	5.88	9.5
YE4-112M-2	4	2900	90.0	0.88	7.67	9.5
YE4-132S1-2	5.5	2930	90.9	0.88	10.4	9.5
YE4-132S2-2	7.5	2935	91.7	0.89	14.0	9.5
YE4-160M1-2	11	2955	92.6	0.89	20.3	9.5

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

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE4-160M2-2	15	2955	93.3	0.89	27.4	9.5
YE4-160L-2	18.5	2955	93.7	0.89	33.7	9.5
YE4-180M-2	22	2960	94.0	0.89	40.0	9.5
YE4-200L1-2	30	2965	94.5	0.89	54.2	9.0
YE4-200L2-2	37	2960	94.8	0.89	66.6	9.0
YE4-225M-2	45	2970	95.0	0.89	80.9	9.0
YE4-250M-2	55	2980	95.3	0.89	98.5	9.0
YE4-280S-2	75	2980	95.6	0.89	134	8.5
YE4-280M-2	90	2980	95.8	0.89	160	8.5
YE4-280M1-2	110	2980	96.0	0.89	196	8.5
YE4-315S-2	110	2975	96.0	0.89	196	8.5
YE4-315M-2	132	2975	96.2	0.89	234	8.5
YE4-315L1-2	160	2975	96.3	0.89	284	8.5
YE4-315L-2	185	2975	96.4	0.89	328	8.5
YE4-315L2-2	200	2975	96.5	0.89	354	8.5
YE4-315L3-2	220	2975	96.5	0.90	385	8.5
YE4-355M1-2	220	2980	96.5	0.90	385	8.5
YE4-315L4-2	250	2975	96.5	0.91	433	8.5
YE4-355M-2	250	2980	96.5	0.91	433	8.5
YE4-355L1-2	280	2980	96.5	0.91	485	8.5
YE4-355L-2	315	2980	96.5	0.91	545	8.5
YE4-3551-2	355	2980	96.5	0.90	620	8.6
YE4-3554-2	375	2980	96.5	0.90	655	8.6

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
YE4-80M1-4	0.55	1430	83.9	0.74	1.35
YE4-80M2-4	0.75	1430	85.7	0.74	1.80
YE4-90S-4	1.1	1440	87.2	0.75	2.56
YE4-90L-4	1.5	1440	88.2	0.76	3.40
YE4-100L1-4	2.2	1455	89.5	0.79	4.73
YE4-100L2-4	3	1455	90.4	0.80	6.30
YE4-112M-4	4	1460	91.1	0.80	8.34
YE4-132S-4	5.5	1470	91.9	0.80	11.4
YE4-132M-4	7.5	1470	92.6	0.81	15.2
YE4-160M-4	11	1475	93.3	0.83	21.6

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

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE4-160L-4	15	1480	93.9	0.84	28.9
YE4-180M-4	18.5	1480	94.2	0.85	35.1
YE4-180L-4	22	1480	94.5	0.85	41.6
YE4-200L-4	30	1480	94.9	0.85	56.5
YE4-225S-4	37	1485	95.2	0.85	69.5
YE4-225M-4	45	1485	95.4	0.85	84.3
YE4-250M-4	55	1485	95.7	0.86	102
YE4-280S-4	75	1485	96.0	0.87	136
YE4-280M-4	90	1485	96.1	0.88	162
YE4-280M1-4	110	1490	96.3	0.89	195
YE4-315S-4	110	1490	96.3	0.89	195
YE4-315M-4	132	1490	96.4	0.89	234
YE4-315L1-4	160	1490	96.6	0.90	280
YE4-315L-4	185	1490	96.7	0.90	323
YE4-315L2-4	200	1490	96.7	0.90	349
YE4-315L3-4	220	1490	96.7	0.90	384
YE4-315L4-4	250	1490	96.7	0.90	437
YE4-355M1-4	220	1490	96.7	0.90	384
YE4-355M-4	250	1490	96.7	0.90	436
YE4-355L1-4	280	1490	96.7	0.90	489
YE4-355L-4	315	1490	96.7	0.90	549
YE4-3551-4	355	1490	96.7	0.88	633
YE4-3554-4	375	1490	96.7	0.88	669

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
YE4-90S-6	0.75	950	82.7	0.70	1.97
YE4-90L-6	1.1	950	84.5	0.70	2.83
YE4-100L-6	1.5	965	85.9	0.71	3.74
YE4-112M-6	2.2	970	87.4	0.71	5.39
YE4-132S-6	3	980	88.6	0.71	7.25
YE4-132M1-6	4	980	89.5	0.72	9.43
YE4-132M2-6	5.5	980	90.5	0.72	12.8
YE4-160M-6	7.5	980	91.3	0.76	16.4
YE4-160L-6	11	980	92.3	0.77	23.5
YE4-180L-6	15	985	92.9	0.80	30.7

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

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE4-200L1-6	18.5	985	93.4	0.80	37.6
YE4-200L2-6	22	985	93.7	0.81	44.0
YE4-225M-6	30	985	94.2	0.82	59.0
YE4-250M-6	37	990	94.5	0.83	71.7
YE4-280S-6	45	990	94.8	0.83	86.9
YE4-280M-6	55	990	95.1	0.84	105
YE4-280M1-6	75	990	95.4	0.84	142
YE4-315S-6	75	985	95.4	0.84	142
YE4-315M-6	90	985	95.6	0.85	168
YE4-315L1-6	110	985	95.8	0.85	205
YE4-315L2-6	132	985	96.0	0.86	243
YE4-315L3-6	160	985	96.2	0.86	294
YE4-315L4-6	185	985	96.3	0.86	339
YE4-355M1-6	160	990	96.2	0.86	294
YE4-355M-6	185	990	96.3	0.86	340
YE4-355M2-6	200	990	96.3	0.86	367
YE4-355L1-6	220	990	96.4	0.86	403
YE4-355L-6	250	990	96.5	0.86	458
YE4-355L1-6	280	990	96.5	0.82	537
YE4-355L2-6	315	990	96.6	0.82	604
YE4-355L3-6	355	990	96.6	0.82	681
YE4-355L4-6	375	990	96.6	0.82	719

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
YE4-80M1-8	0.18	675	67.2	0.57	0.71
YE4-80M2-8	0.25	675	70.8	0.61	0.88
YE4-90S-8	0.37	680	74.3	0.61	1.24
YE4-90L-8	0.55	680	77.0	0.61	1.78
YE4-100L1-8	0.75	715	78.4	0.66	2.20
YE4-100L2-8	1.1	715	80.8	0.67	3.09
YE4-112M-8	1.5	710	82.6	0.69	4.00
YE4-132S-8	2.2	720	84.5	0.70	5.65
YE4-132M-8	3	720	85.9	0.70	7.58
YE4-160M1-8	4	725	87.1	0.71	9.83
YE4-160M2-8	5.5	725	88.3	0.72	13.1

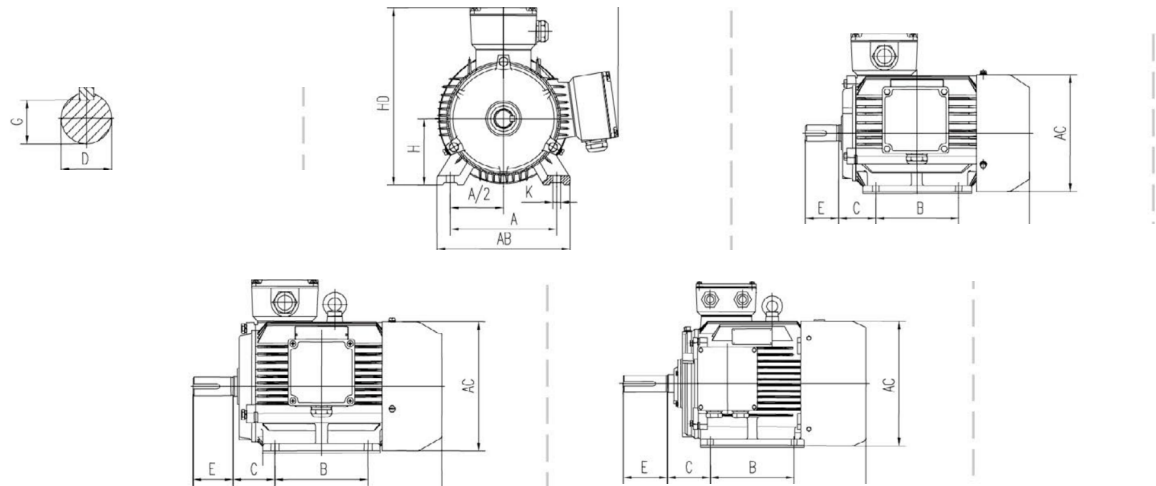
8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE4-160L-8	7.5	725	89.3	0.74	17.2
YE4-180L-8	11	730	90.4	0.74	25.0
YE4-200L-8	15	730	91.2	0.75	33.3
YE4-225S-8	18.5	735	91.7	0.75	40.9
YE4-225M-8	22	735	92.1	0.76	47.8
YE4-250M-8	30	740	92.7	0.77	63.9
YE4-280S-8	37	740	93.1	0.78	77.4
YE4-280M-8	45	740	93.4	0.78	93.9
YE4-315S-8	55	740	93.7	0.80	111
YE4-315M-8	75	740	94.2	0.80	151
YE4-315L1-8	90	740	94.4	0.81	179
YE4-315L2-8	110	740	94.7	0.81	218
YE4-355M1-8	132	740	94.9	0.81	261
YE4-355M2-8	160	740	95.1	0.82	312
YE4-355L1-8	185	740	95.3	0.82	360
YE4-355L-8	200	740	95.4	0.82	388
YE4-3551-8	220	740	95.4	0.80	438
YE4-3552-8	250	740	95.4	0.80	498
YE4-3553-8	315	740	95.4	0.80	627

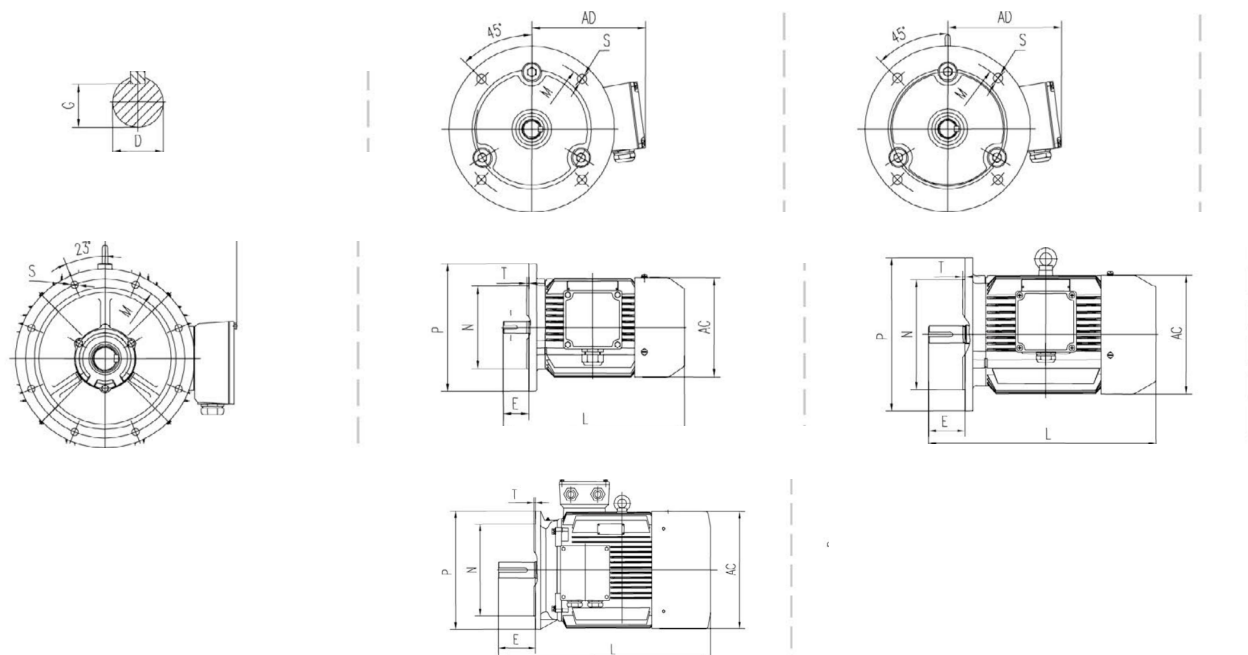
MOUNTING ARRANGEMENTS

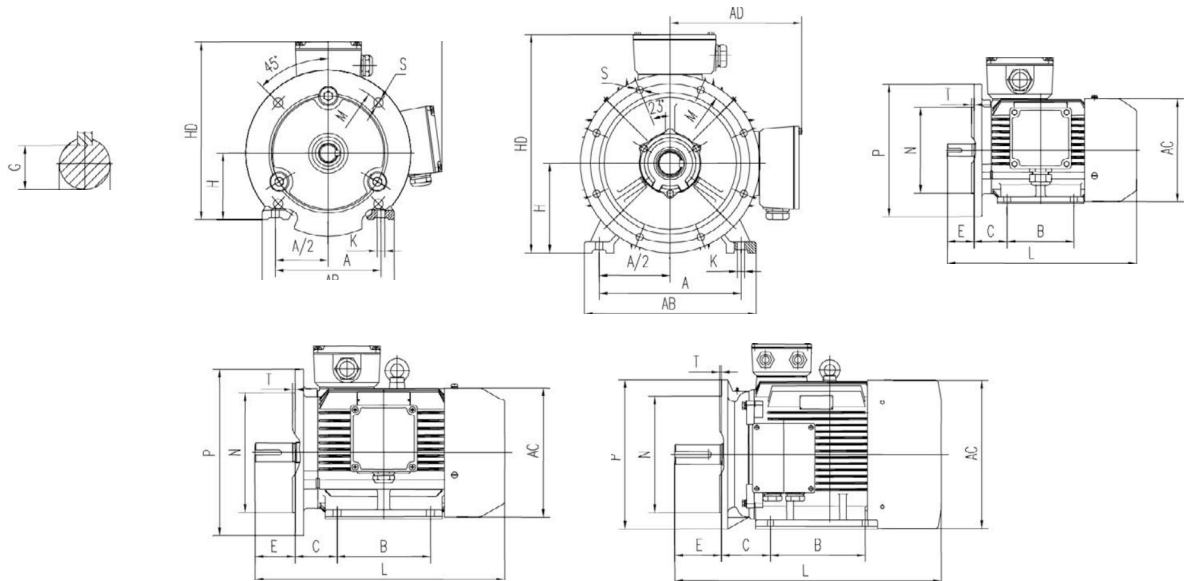
The series is supplied in the following arrangements to IEC 60034-7. Letters on the drawings are the dimension symbols used in the outline and mounting dimension schedule.

IM B3 FOOT MOUNTING



IM B5 FLANGE 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.

COLUMNS NOT REPRODUCED

The brochure does not print “Locked-rotor current / rated current” as values grouped over bands of ratings rather than per type. Those figures are available on request and are omitted here rather than shown against the wrong rating.

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.