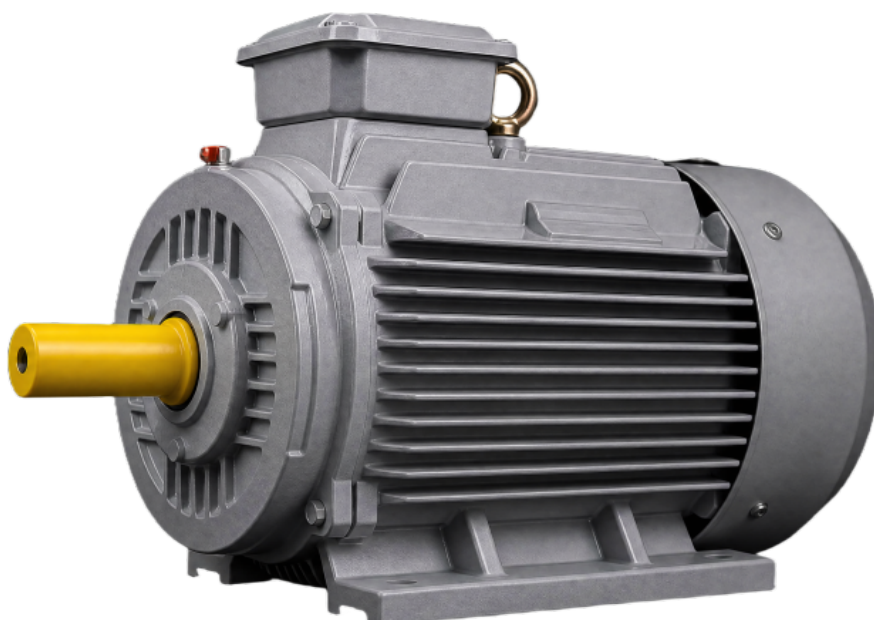


IEC STANDARD SERIES

YE5 (IE5)

YE5 (IE5) SERIES THREE-PHASE INDUCTION MOTOR

Single-speed, totally enclosed fan-cooled, continuous-duty low-voltage squirrel-cage induction motor at IE5, the highest efficiency class in the range.

**0.55–315** kW

RATED OUTPUT

H80–H355FRAME CENTRE
HEIGHT**IE5**

EFFICIENCY CLASS

IP55DEGREE OF
PROTECTION

SERIES

YE5

REVISION

A01

ISSUE

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DESCRIPTION

The efficiency of the YE5 series reaches grade 1 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 IE5 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–315 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 1
IEC 60034-30	Efficiency class IE5

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**.



YE5-280S-4 = YE5 series induction motor, frame centre height 280 mm, short frame, 4 poles. This is the worked example printed in the LEADGO product brochure.

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
YE5-80M1-2	0.75	2895	86.3	0.83	1.59
YE5-80M2-2	1.1	2900	87.8	0.83	2.29
YE5-90S-2	1.5	2915	88.9	0.85	3.02
YE5-90L-2	2.2	2915	90.2	0.86	4.31
YE5-100L-2	3	2920	91.1	0.87	5.75
YE5-112M-2	4	2935	91.8	0.88	7.52
YE5-132S1-2	5.5	2950	92.6	0.88	10.3
YE5-132S2-2	7.5	2950	93.3	0.89	13.7
YE5-160M1-2	11	2965	94.0	0.89	20.0

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
YE5-160M2-2	15	2965	94.5	0.89	27.1
YE5-160L-2	18.5	2965	94.9	0.89	33.3
YE5-180M-2	22	2970	95.1	0.89	39.5
YE5-200L1-2	30	2975	95.5	0.89	53.6
YE5-200L2-2	37	2975	95.8	0.89	65.9
YE5-225M-2	45	2980	96.0	0.89	80.0
YE5-250M-2	55	2980	96.2	0.89	97.6
YE5-280S-2	75	2980	96.5	0.89	133
YE5-280M-2	90	2980	96.6	0.89	159
YE5-280M1-2	110	2980	96.8	0.89	194
YE5-315S-2	110	2980	96.8	0.89	194
YE5-315M-2	132	2980	96.9	0.89	233
YE5-315L1-2	160	2980	97.0	0.90	279
YE5-315L-2	185	2980	97.1	0.90	322
YE5-315L2-2	200	2980	97.2	0.90	347
YE5-315L3-2	220	2980	97.2	0.90	382
YE5-355M1-2	220	2985	97.2	0.90	382
YE5-315L4-2	250	2980	97.2	0.91	429
YE5-355M2-2	250	2985	97.2	0.91	429
YE5-355L1-2	280	2985	97.2	0.91	481
YE5-355L2-2	315	2985	97.2	0.91	541

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
YE5-80M1-4	0.55	1455	86.7	0.75	1.29
YE5-80M2-4	0.75	1455	88.2	0.75	1.72
YE5-90S-4	1.1	1455	89.5	0.75	2.49
YE5-90L-4	1.5	1455	90.4	0.76	3.32
YE5-100L1-4	2.2	1465	91.4	0.80	4.57
YE5-100L2-4	3	1465	92.1	0.81	6.11
YE5-112M-4	4	1465	92.8	0.81	8.09
YE5-132S-4	5.5	1470	93.4	0.81	11.0
YE5-132M-4	7.5	1475	94.0	0.83	14.6
YE5-160M-4	11	1480	94.6	0.85	20.8
YE5-160L-4	15	1480	95.1	0.85	28.2
YE5-180M-4	18.5	1485	95.3	0.86	34.3

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
YE5-180L-4	22	1485	95.5	0.86	40.7
YE5-200L-4	30	1490	95.9	0.87	54.6
YE5-225S-4	37	1490	96.1	0.87	67.2
YE5-225M-4	45	1490	96.3	0.87	81.6
YE5-250M-4	55	1485	96.5	0.88	98.4
YE5-280S-4	75	1490	96.7	0.88	134
YE5-280M-4	90	1490	96.9	0.89	159
YE5-280M1-4	110	1490	97.0	0.89	194
YE5-315S-4	110	1490	97.0	0.89	194
YE5-315M-4	132	1490	97.1	0.89	232
YE5-315L1-4	160	1490	97.2	0.90	278
YE5-315L-4	185	1490	97.3	0.90	321
YE5-315L2-4	200	1490	97.4	0.90	347
YE5-315L3-4	220	1490	97.4	0.90	381
YE5-315L4-4	250	1490	97.4	0.90	433
YE5-355M1-4	220	1490	97.4	0.90	381
YE5-355M2-4	250	1490	97.4	0.90	433
YE5-355L1-4	280	1490	97.4	0.90	485
YE5-355L2-4	315	1490	97.4	0.90	546

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
YE5-90S-6	0.75	955	85.7	0.72	1.85
YE5-90L-6	1.1	955	87.2	0.73	2.63
YE5-100L-6	1.5	970	88.4	0.74	3.48
YE5-112M-6	2.2	975	89.7	0.74	5.04
YE5-132S-6	3	985	90.6	0.74	6.80
YE5-132M1-6	4	985	91.4	0.74	8.99
YE5-132M2-6	5.5	985	92.2	0.75	12.1
YE5-160M-6	7.5	985	92.9	0.78	15.7
YE5-160L-6	11	985	93.7	0.78	22.9
YE5-180L-6	15	985	94.3	0.81	29.8
YE5-200L1-6	18.5	990	94.6	0.81	36.7
YE5-200L2-6	22	990	94.9	0.82	43.0
YE5-225M-6	30	990	95.3	0.82	58.3
YE5-250M-6	37	990	95.6	0.84	70.0

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
YE5-280S-6	45	990	95.8	0.86	83.0
YE5-280M-6	55	990	96.0	0.86	101
YE5-280M1-6	75	990	96.3	0.85	139
YE5-315S-6	75	990	96.3	0.85	139
YE5-315M-6	90	990	96.5	0.84	169
YE5-315L1-6	110	990	96.6	0.85	204
YE5-315L2-6	132	990	96.8	0.86	241
YE5-315L3-6	160	990	96.9	0.86	292
YE5-315L4-6	185	990	96.9	0.86	337
YE5-355S-6	160	990	96.9	0.86	292
YE5-355M1-6	185	990	96.9	0.86	337
YE5-355M2-6	200	990	97.0	0.86	364
YE5-355L1-6	220	990	97.0	0.86	401
YE5-355L2-6	250	990	97.0	0.86	455
YE5-355L3-6	315	990	97.0	0.86	574

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
YE5-100L1-8	0.75	725	82.0	0.67	2.07
YE5-100L2-8	1.1	725	84.0	0.68	2.93
YE5-112M-8	1.5	720	85.5	0.70	3.81
YE5-132S-8	2.2	730	87.2	0.70	5.48
YE5-132M-8	3	730	88.4	0.73	7.06
YE5-160M1-8	4	730	89.4	0.73	9.31
YE5-160M2-8	5.5	730	90.4	0.74	12.5
YE5-160L-8	7.5	730	91.3	0.74	16.9
YE5-180L-8	11	735	92.2	0.74	24.5
YE5-200L-8	15	740	92.9	0.75	32.7
YE5-225S-8	18.5	740	93.3	0.75	40.2
YE5-225M-8	22	740	93.6	0.76	47.0
YE5-250M-8	30	740	94.1	0.77	62.9
YE5-280S-8	37	740	94.4	0.78	76.3
YE5-280M-8	45	740	94.7	0.78	92.6
YE5-315S-8	55	740	94.9	0.80	110
YE5-315M-8	75	740	95.3	0.80	149
YE5-315L1-8	90	740	95.5	0.81	177

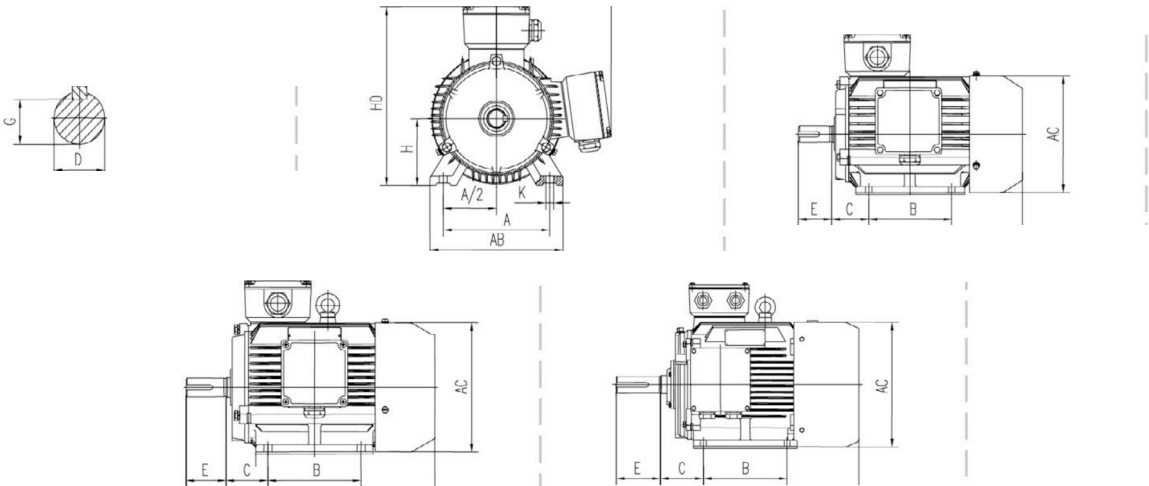
8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE5-315L2-8	110	740	95.7	0.81	216
YE5-355S-8	132	740	95.9	0.81	258
YE5-355M-8	160	740	96.1	0.82	308
YE5-355L1-8	185	740	96.2	0.82	356
YE5-355L2-8	200	740	96.3	0.82	385
YE5-3551-8	250	740	96.3	0.82	481
YE5-3552-8	280	740	96.3	0.82	539
YE5-3553-8	315	740	96.3	0.82	606

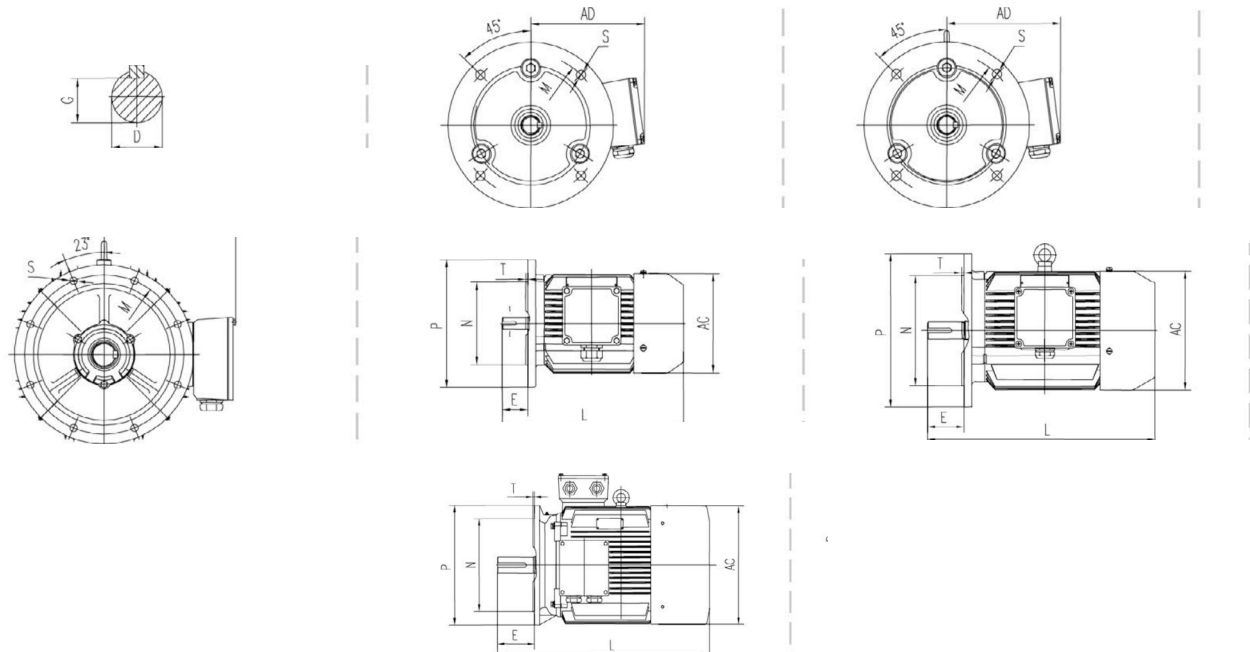
MOUNTING ARRANGEMENTS

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.

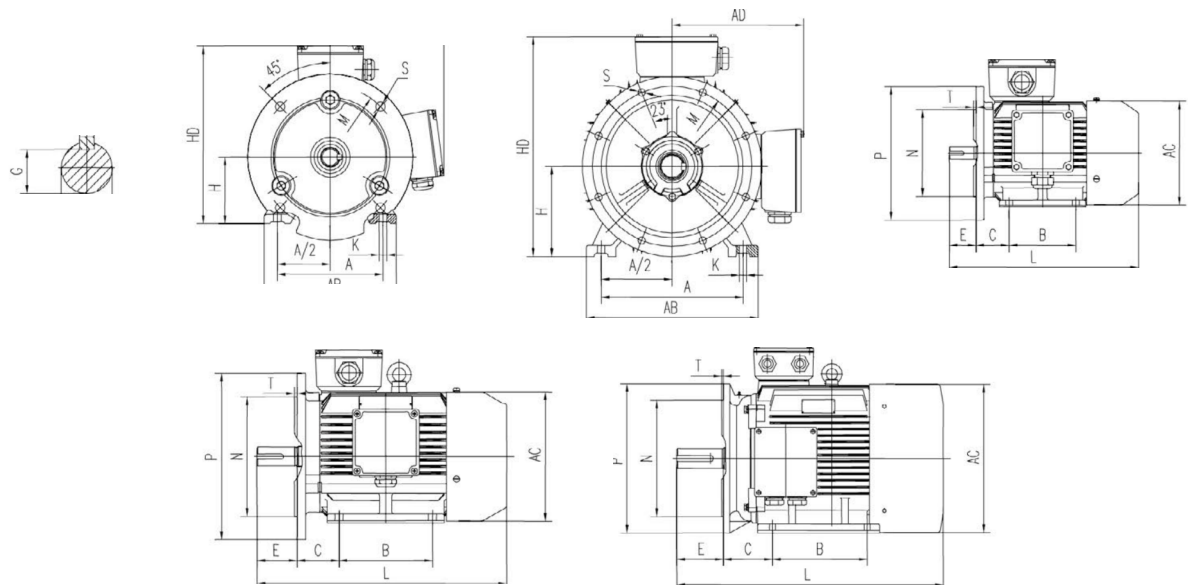
IM B3 FOOT MOUNTING



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.

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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.