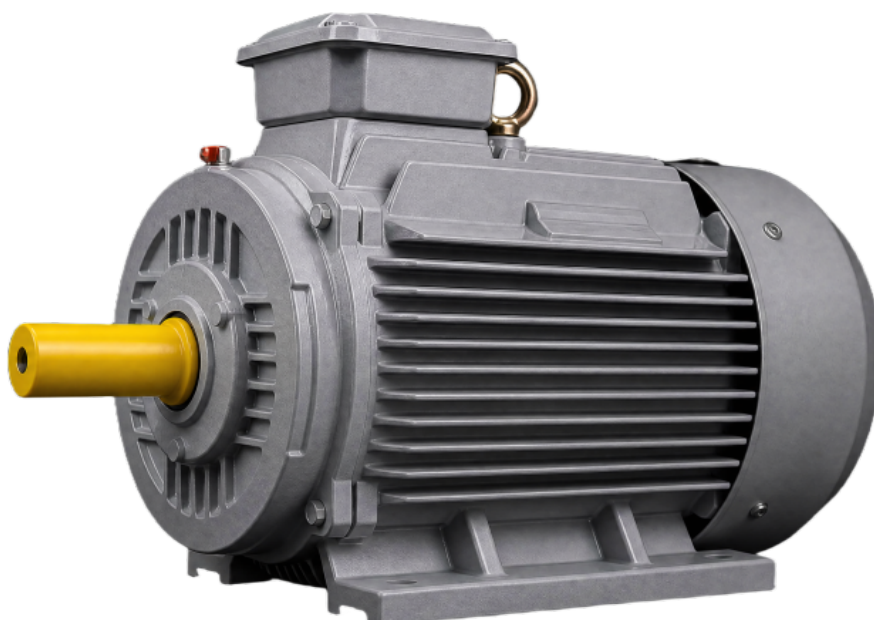


IEC STANDARD SERIES

YE3 (IE3)

YE3 (IE3) SERIES THREE-PHASE INDUCTION MOTOR

Single-speed, totally enclosed fan-cooled, continuous-duty low-voltage squirrel-cage induction motor for general purpose drives.

**0.55–375** kW

RATED OUTPUT

H80–H355FRAME CENTRE
HEIGHT**IE3**

EFFICIENCY CLASS

IP55DEGREE OF
PROTECTION

SERIES

YE3

REVISION

A01

ISSUE

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DESCRIPTION

The efficiency of the YE3 series reaches grade 3 of GB 18613—2020 *Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Motors*, which corresponds to IE3 of IEC 60034-30 and places the series at the same level as NEMA Premium.

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 3
IEC 60034-30	Efficiency class IE3

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**.

YE3	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

YE3-160M1-2 = YE3 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 HP		RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE3-80M1-2	0.75	1	2855	80.7	0.82	1.72	7.0
YE3-80M2-2	1.1	1.5	2855	82.7	0.83	2.43	7.3
YE3-90S-2	1.5	2	2880	84.2	0.84	3.22	7.6
YE3-90L-2	2.2	3	2880	85.9	0.85	4.58	7.6
YE3-100L-2	3	4	2890	87.1	0.87	6.02	7.8
YE3-112M-2	4	5.5	2905	88.1	0.88	7.84	8.3
YE3-132S1-2	5.5	7.5	2920	89.2	0.88	10.6	8.3
YE3-132S2-2	7.5	10	2915	90.1	0.88	14.4	7.9
YE3-160M1-2	11	15	2940	91.2	0.89	20.6	8.1

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

TYPE	RATED OUTPUT kW	HP	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE3-160M2-2	15	20	2940	91.9	0.89	27.9	8.1
YE3-160L-2	18.5	25	2940	92.4	0.89	34.2	8.2
YE3-180M-2	22	30	2950	92.7	0.89	40.5	8.2
YE3-200L1-2	30	40	2950	93.3	0.89	54.9	7.6
YE3-200L2-2	37	50	2950	93.7	0.89	67.4	7.6
YE3-225M-2	45	60	2965	94.0	0.90	80.8	7.7
YE3-250M-2	55	75	2970	94.3	0.90	98.5	7.7
YE3-280S-2	75	100	2975	94.7	0.90	134	7.1
YE3-280M-2	90	125	2975	95.0	0.90	160	7.1
YE3-315S-2	110	150	2980	95.2	0.90	195	7.1
YE3-315M-2	132	180	2980	95.4	0.90	234	7.1
YE3-315L1-2	160	220	2980	95.6	0.91	279	7.2
YE3-315L-2	185	250	2980	95.7	0.91	322	7.2
YE3-315L2-2	200	270	2980	95.8	0.91	349	7.2
YE3-315L3-2	220	300	2980	95.8	0.91	383	7.2
YE3-355M1-2	220	300	2980	95.8	0.91	383	7.2
YE3-355M-2	250	340	2980	95.8	0.91	436	7.2
YE3-355L1-2	280	380	2980	95.8	0.91	488	7.2
YE3-355L-2	315	430	2980	95.8	0.91	549	7.2
YE3-3551-2	355	480	2980	95.8	0.91	619	7.2
YE3-3552-2	375	510	2980	95.8	0.91	654	7.2

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

TYPE	RATED OUTPUT kW	HP	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE3-80M1-4	0.55	0.75	1420	80.8	0.75	1.38	6.5
YE3-80M2-4	0.75	1	1420	82.5	0.75	1.84	6.6
YE3-90S-4	1.1	1.5	1425	84.1	0.76	2.61	6.8
YE3-90L-4	1.5	2	1425	85.3	0.77	3.47	7.0
YE3-100L1-4	2.2	3	1440	86.7	0.81	4.76	7.6
YE3-100L2-4	3	4	1440	87.7	0.82	6.34	7.6
YE3-112M-4	4	5.5	1455	88.6	0.82	8.37	7.8
YE3-132S-4	5.5	7.5	1460	89.6	0.83	11.2	7.9
YE3-132M-4	7.5	10	1455	90.4	0.84	15.0	7.5
YE3-160M-4	11	15	1465	91.4	0.85	21.5	7.7
YE3-160L-4	15	20	1465	92.1	0.86	28.8	7.8
YE3-180M-4	18.5	25	1470	92.6	0.86	35.3	7.8

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

TYPE	RATED OUTPUT kW	HP	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE3-180L-4	22	30	1470	93.0	0.86	41.8	7.8
YE3-200L-4	30	40	1475	93.6	0.86	56.6	7.3
YE3-225S-4	37	50	1480	93.9	0.86	69.6	7.4
YE3-225M-4	45	60	1480	94.2	0.86	84.4	7.4
YE3-250M-4	55	75	1480	94.6	0.86	103	7.4
YE3-280S-4	75	100	1485	95.0	0.88	136	6.9
YE3-280M-4	90	125	1485	95.2	0.88	163	6.9
YE3-315S-4	110	150	1485	95.4	0.89	197	7.0
YE3-315M-4	132	180	1485	95.6	0.89	236	7.0
YE3-315L1-4	160	220	1485	95.8	0.89	285	7.1
YE3-315L-4	185	250	1485	96.0	0.90	325	7.1
YE3-315L2-4	200	270	1485	96.0	0.90	352	7.1
YE3-315L3-4	220	300	1485	96.0	0.90	387	7.1
YE3-355M1-4	220	300	1490	96.0	0.90	387	7.1
YE3-355M-4	250	340	1490	96.0	0.90	440	7.1
YE3-355L1-4	280	380	1490	96.0	0.90	492	7.1
YE3-355L-4	315	430	1490	96.0	0.90	554	7.1
YE3-355L1-4	355	480	1490	96.0	0.88	638	7.0
YE3-355L2-4	375	510	1490	96.0	0.88	674	7.0

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	LOCKED-ROTOR CURRENT / rated current
YE3-80M1-6	0.37	930	73.5	0.68	1.12	6.0
YE3-80M2-6	0.55	930	77.2	0.68	1.59	6.0
YE3-90S-6	0.75	940	78.9	0.71	2.03	6.0
YE3-90L-6	1.1	940	81.0	0.73	2.83	6.0
YE3-100L-6	1.5	950	82.5	0.73	3.78	6.5
YE3-112M-6	2.2	950	84.3	0.74	5.36	6.6
YE3-132S-6	3	975	85.6	0.74	7.20	6.8
YE3-132M1-6	4	975	86.8	0.74	9.46	6.8
YE3-132M2-6	5.5	970	88.0	0.75	12.7	7.0
YE3-160M-6	7.5	970	89.1	0.79	16.2	7.0
YE3-160L-6	11	970	90.3	0.80	23.1	7.2
YE3-180L-6	15	980	91.2	0.81	30.9	7.3
YE3-200L1-6	18.5	980	91.7	0.81	37.8	7.3
YE3-200L2-6	22	980	92.2	0.81	44.8	7.4

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	LOCKED-ROTOR CURRENT / rated current
YE3-225M-6	30	985	92.9	0.83	59.1	6.9
YE3-250M-6	37	985	93.3	0.84	71.7	7.1
YE3-280S-6	45	990	93.7	0.85	85.8	7.3
YE3-280M-6	55	990	94.1	0.86	103	7.3
YE3-315S-6	75	990	94.6	0.84	143	6.6
YE3-315M-6	90	990	94.9	0.85	170	6.7
YE3-315L1-6	110	990	95.1	0.85	207	6.7
YE3-315L2-6	132	990	95.4	0.86	244	6.8
YE3-355M1-6	160	990	95.6	0.86	296	6.8
YE3-355M-6	185	990	95.7	0.87	338	6.8
YE3-355M2-6	200	990	95.8	0.87	365	6.8
YE3-355L1-6	220	990	95.8	0.87	401	6.8
YE3-355L-6	250	990	95.8	0.87	456	6.8
YE3-355L1-6	280	990	95.8	0.86	516	6.8
YE3-355L2-6	315	990	95.8	0.86	581	6.8
YE3-355L3-6	355	990	95.8	0.86	655	6.8

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

TYPE	RATED OUTPUT kW	HP	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE3-80M1-8	0.18	0.25	680	58.7	0.58	0.80	4.0
YE3-80M2-8	0.25	0.35	680	64.1	0.63	0.94	4.0
YE3-90S-8	0.37	1.5	695	69.3	0.65	1.25	5.0
YE3-90L-8	0.55	0.75	695	73.0	0.65	1.76	5.0
YE3-100L1-8	0.75	1	715	75.0	0.65	2.34	5.5
YE3-100L2-8	1.1	1.5	715	77.7	0.65	3.31	5.5
YE3-112M-8	1.5	2	700	79.7	0.69	4.14	5.5
YE3-132S-8	2.2	3	715	81.9	0.70	5.83	6.0
YE3-132M-8	3	4	715	83.5	0.71	7.69	6.0
YE3-160M1-8	4	5.5	720	84.8	0.73	9.82	6.0
YE3-160M2-8	5.5	7.5	720	86.2	0.73	13.3	6.0
YE3-160L-8	7.5	10	720	87.3	0.74	17.6	6.0
YE3-180L-8	11	15	730	88.6	0.76	24.8	6.5
YE3-200L-8	15	20	730	89.6	0.76	33.5	6.5
YE3-225S-8	18.5	25	735	90.1	0.76	41.0	6.5
YE3-225M-8	22	30	735	90.6	0.77	47.9	6.5
YE3-250M-8	30	40	735	91.3	0.77	64.8	6.5

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

TYPE	RATED OUTPUT kW	HP	RATED SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A	LOCKED-ROTOR CURRENT / rated current
YE3-280S-8	37	50	740	91.8	0.77	79.5	6.5
YE3-280M-8	45	60	740	92.2	0.77	96.3	6.5
YE3-315S-8	55	75	740	92.5	0.79	114	6.5
YE3-315M-8	75	100	740	93.1	0.79	155	6.5
YE3-315L1-8	90	125	740	93.4	0.80	183	6.5
YE3-315L2-8	110	150	740	93.7	0.81	220	6.5
YE3-355M1-8	132	180	740	94.0	0.82	260	6.5
YE3-355M2-8	160	220	740	94.3	0.82	314	6.5
YE3-355L1-8	185	250	740	94.4	0.82	363	6.5
YE3-355L-8	200	270	740	94.6	0.82	392	6.5
YE3-3551-8	220	300	740	94.6	0.82	431	6.5
YE3-3552-8	250	340	740	94.6	0.82	490	6.5

BEARINGS

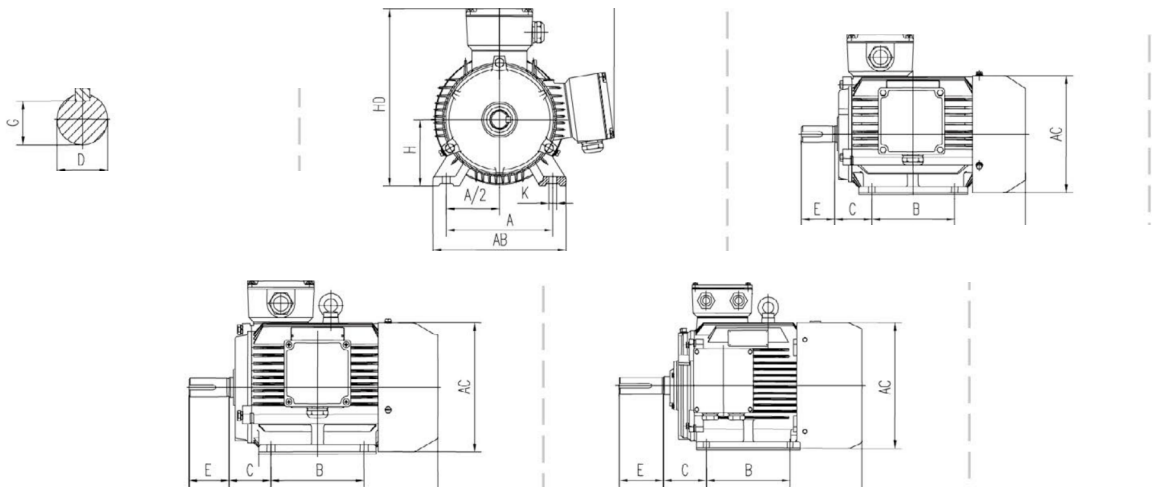
BEARING SPECIFICATION BY FRAME

FRAME	POLES	DRIVE-END BEARING	NON-DRIVE-END BEARING
80	2.4.6	6204-2RZ/Z1	6204-2RZ/Z1
90	2.4.6	6205-2RZ/Z1	6205-2RZ/Z1
100	2.4.6	6206-2RZ/Z1	6206-2RZ/Z1
112	2.4.6	6206-2RZ/Z1	6206-2RZ/Z1
132	2.4.6.8	6208-2RZ/Z1	6208-2RZ/Z1
160	2 / 4.6.8	6209C3 / 6309C3	6209C3
180	2 / 4.6.8	6211C3 / 6311C3	6211C3
200	2 / 4.6.8	6212C3 / 6312C3	6212C3
225	2 / 4.6.8	6312C3 / 6313C3	6312C3
250	2 / 4.6.8	6313C3 / 6314C3	6313C3
280	2 / 4.6.8	6314C3 / 6317C3	6314C3
315	2 / 4.6.8	6317C3 / N319C3	6317C3 / 6319C3
355	2 / 4.6.8	6319C3 / N322C3	6319C3 / 6322C3

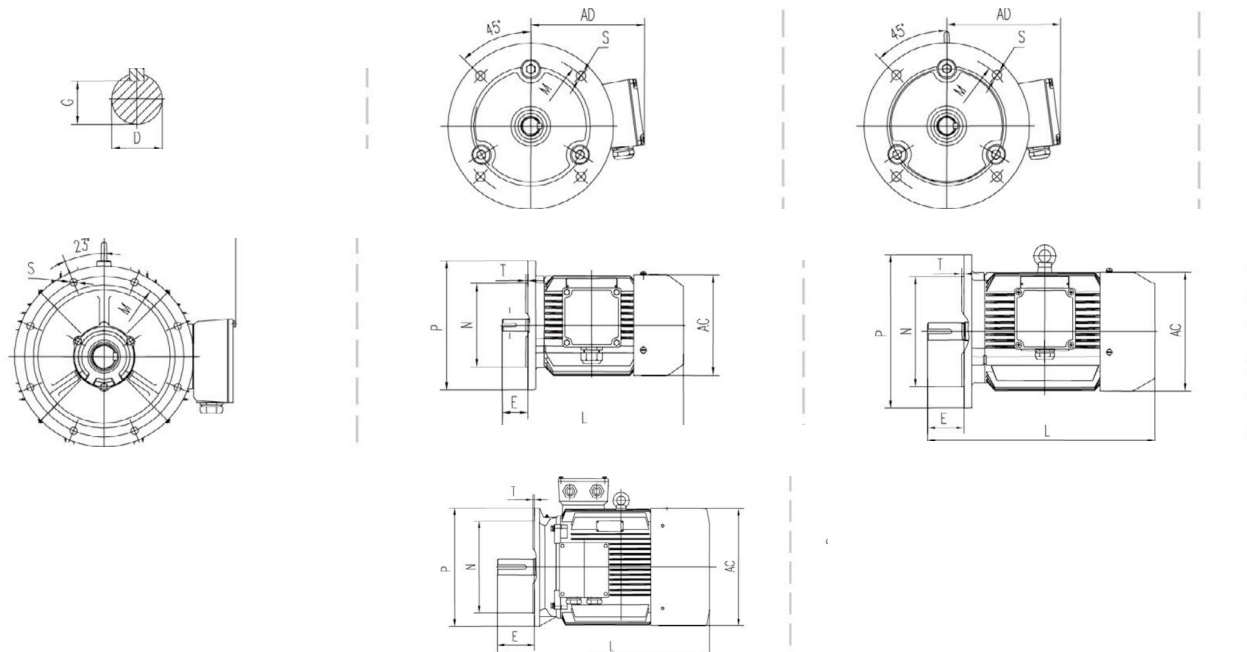
MOUNTING ARRANGEMENTS

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.

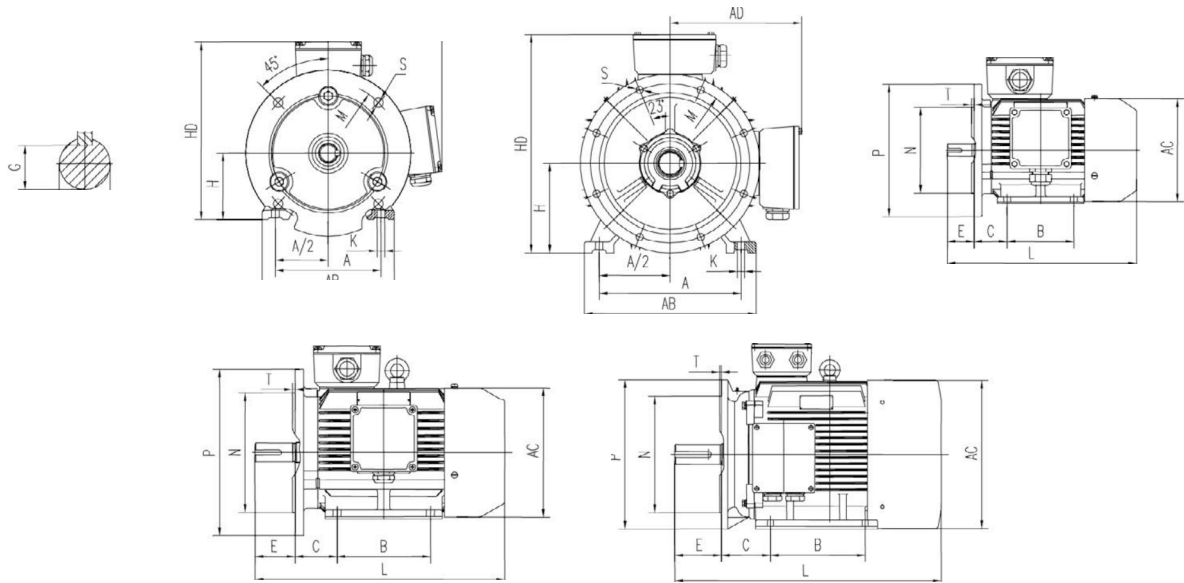
IM B3 FOOT MOUNTING



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

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	A	B	HD	LENGTH L, REF. mm
80M	2, 4	125	100	80	305
100L	2, 4, 6, 8	160	63	100	435
132M	2, 4, 6, 8	216/254(by pole number)	178/254	132	550
160L	2, 4, 6, 8	254	254	160	760
200L	2, 4, 6, 8	318	305	200	890
250M	2 / 4, 6, 8	406	349	250	995/1030
315M	2 / 4, 6, 8	508	457	315	1210/1320
355L	2 / 4, 6, 8	610/630	254/224	355	1530/1920

COLUMNS NOT REPRODUCED

The brochure does not print “HP” 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

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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.