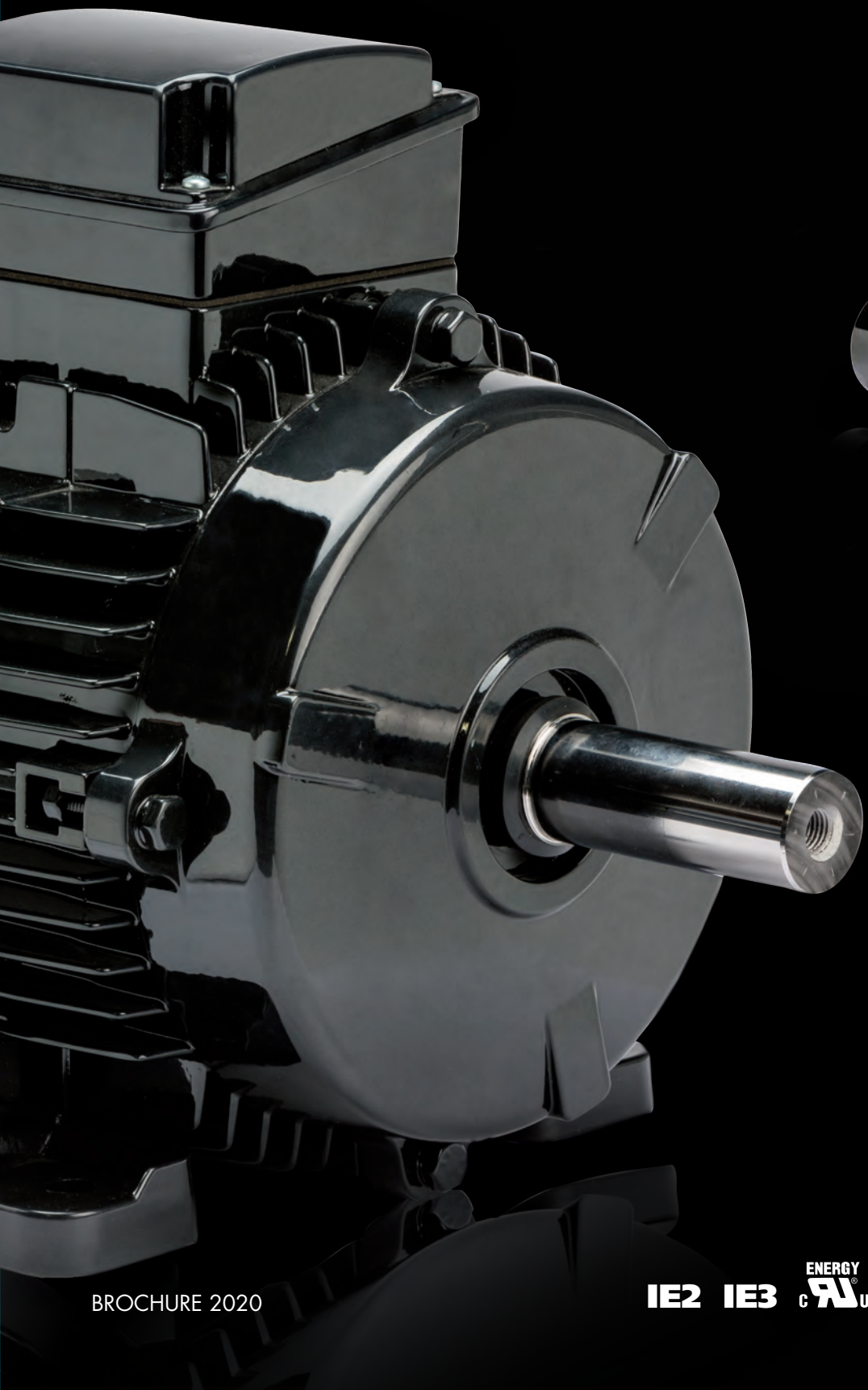
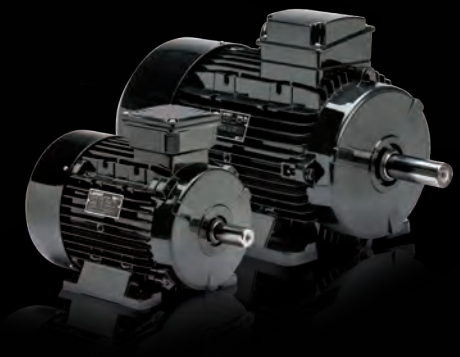
LAFERTMOTORS

IE3 RANGE

PREMIUM EFFICIENCY THREE-PHASE MOTORS





BROCHURE 2020

IE2 IE3

	PREMIUM EFFICIENCY MOTORS		HIGH EFFICIENCY MOTORS	
EFFICIENCY	**IE3** **IE3@400V-50Hz**	**IE3** ENERGY c UL us **IE3@460V-60Hz** **NEMA MG 1-table 12-12 @460-60Hz**	**IE2** **IE2@400V-50Hz** **IE2@460V-60Hz** **NEMA MG 1-table 12-11 (EPAct) @460V-60Hz**	**IE2** **IE2@400V-50Hz**
RANGE	AMPE 71-315	AMPH 80-160	AMHE 71-160	AMEE 71-160
STANDARDS	IEC 60034-30-1:2014	EISA Directive	IEC 60034-30-1:2014	IEC 60034-30-1:2014
TESTING METHOD	IEC 60034-2-1:2014	CSA C390-10	IEC 60034-2-1:2014	IEC 60034-2-1:2014

INTERNATIONAL EFFICIENCY LEVELS: IE CODES

The International Standard **IEC 60034-30-1;2014** ensures an international common base for electric motor designing and classification, as well as for national legislative activities, increasing the level of harmonization in efficiency standard **MEPS** (Minimum Energy Performance Standard) all over the world.
The IEC 60034-30-1 states the efficiency levels (IE codes) and requirements, provides test conditions and efficiency measurement methods which are more accurate than the previous, specified in **IEC 60034-2-1;2014**, and unifies product labelling requirements.

While the Standard sets international guidelines. It does not state the motors to be supplied or the minimum efficiency level (MEPS). This depends on any national legislative activities and government targets to save energy and reduce environmental impact.

EU MEPS–COMMISSION REGULATION EC 4/2014

The **Commission Regulation EC 4/2014** specifies efficiency requirements for three-phase AC motors from 0.75 to 375kW, 2, 4 and 6 poles, and introduces in all countries of the European Community the following MEPS **from 1st January 2017**:
- motors from 0.75 to 375kW - **IE3 minimum efficiency or IE2 only for motors with variable speed drive (VSD)**.

USA MEPS – EISA 2007

The **EISA Directive** (Energy Independence and Security Act, 2007), enforced in Dec 2010, replaces the previous EPAct (Energy Policy Act), and sets **Nema Super Premium Efficiency IE3 as minimum level** for general purpose three-phase AC industrial motors from 1 to 500 HP, which are manufactured or imported for sale in USA.

STANDARD FEATURES

- Very low temperature rise: allowing a service factor of 1.25, extending insulation and bearings useful life
- Very low noise
- VFD rated as standard
- Detachable feet to flange conversion
- Four position cable entry
- IP 55 Protection
- Ease of Maintenance
- Clean modern lines with RAL 9005 finish

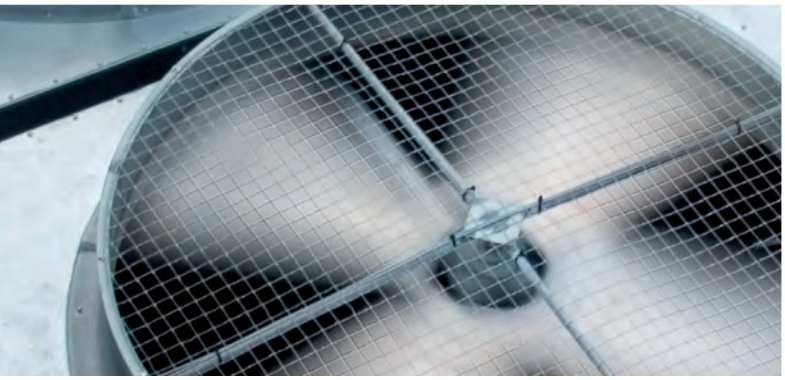
OPTIONAL FEATURES

- cURus Energy Certification (EPAct - EISA)
- China Energy Label
- Encoder mounting
- Forced ventilation
- Customised shafts of flanges
- Increased output (Progressive motor)

TYPICAL APPLICATIONS

- Fans and Blowers
- Pumps
- Vacuum Pumps
- Compressors
- Conveyors
- HVAC




SPECIAL EXECUTIONS

A strong OEM orientation, with a **wide range of special executions to offer the optimum electrical and mechanical designs for particular markets or customer requests.**
Excellent flexibility to specific market demands, the whole manufacturing process is integrated within Lafert manufacturing facilities, and that gives a high level of cost-efficiency.

Lafert specializes in the design and manufacture of customized electric motors produced to meet specific needs of individual customers. **Over 90% of Lafet's output is non-standard motors**. The co-ordination of all production processes from start to finish allows for any aspect of the motor to be modified. This gives the ability to engineer customized motors that fit the final application/work environment for maximum efficiency and reliability.

Motors manufactured ad hoc for non-standard applications according to customer's demands: customised flanges and shafts, special electrical designs for each application duty, complete tailor-made designs, solutions to special environmental conditions e.g. Smoke and Heat Exhaust Ventilation, Dust Ignition for Zone 22, Non Sparking Exn.

TARGET APPLICATIONS

RENEWABLES
Wind turbines (Cooling System, Hydraulic Pump),
Solar Followers (Gear drive), Biogas & Biofuel Power Plant (Cooling System)
- High reliability
- High corrosion protection level (according to ISO 12944)
- Special insulation system/voltage/frequency
- PAD mounting

HVAC
Centrifugal and axial Fans & Pumps for Industrial and Marine Environment
- Stainless steel shaft in special design
- High corrosion protection level (according to ISO 12944)
- EISA - EPAct approval

COOLERS
Air cooled radiators for heavy industrial cooling applications (diesel and gas engine/generator)
- High corrosion protection level (according to ISO 12944)
- Special insulation system/voltage/frequency
- Very high ambient temperature up to 80°C
- Without ventilation
- Cast iron design
- PAD mounting

TEXTILE INDUSTRY
- Without ventilation
- Driven by frequency converter
- Encoder (variable speed)
- High reliability

PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3
ALLUMINIUM DESIGN

EFFICIENCY LEVEL ACCORDING TO IEC 60034-30-1:2014
EFFICIENCY TESTING METHOD IEC 60034-2-1;2014

NOMINAL FULL LOAD EFFICIENCY ACCORDING TO IE3 CODE @ 400 V - 50 HZ

FOR MAINS VOLTAGE
400 V - 50 HZ

IE3

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min^{-1}	M_N Nm	IE3 η 50%	IE3 η 75%	IE3 η 100%	cos φ	I_N 400V	I_A/I_N	M_A/M_N	M_S/M_N	M_K/M_N	J 10^{-3} kgm^2	kg
3000 min^{-1} (2 poles)																
AMPE 71Z AA	**2***	0.75	1	2880	2.5	76.5	80.8	80.7	0.70	1.9	5.5	3.1	3.0	3.2	0.7	8.2
AMPE 80Z AA	**2**	0.75	1	2910	2.5	77.8	81.2	82.0	0.78	1.7	8.9	4.7	4.5	4.8	0.7	9.5
AMPE 80Z BA	**2**	1.1	1.5	2870	3.7	78.7	81.7	82.7	0.76	2.4	9.3	5.0	4.9	5.3	0.9	11.1
AMPE 80Z CA	**2***	1.5	2	2810	5.1	78.8	82.2	84.2	0.76	3.6	7.8	4.9	3.7	4.3	1.1	13.5
AMPE 90S AA	**2**	1.5	2	2875	5.0	83.2	84.8	84.2	0.85	3.0	8.4	3.6	3.2	3.8	1.6	14.0
AMPE 90L BA	**2**	2.2	3	2880	7.3	85.0	86.2	86.5	0.82	4.6	9.2	4.0	3.8	4.2	1.8	16.0
AMPE 90L DA	**2***	3	4	2865	10.0	85.2	86.3	87.1	0.80	6.3	8.7	4.5	4.0	4.6	2.0	18.0
AMPE 100L AA	**2**	3	4	2900	9.9	82.3	85.8	87.1	0.89	5.6	8.8	5.5	3.5	4.5	4.1	22.8
AMPE 100L BA	**2***	4	5.5	2920	13.1	85.4	87.2	88.1	0.81	8.2	10.9	6.1	5.2	5.7	7.3	26.5
AMPE 112M AA	**2**	4	5.5	2910	13.1	86.8	87.8	88.1	0.93	7.0	9.6	3.6	3.0	4.0	6.5	27.4
AMPE 112M BA	**2***	5.5	7.5	2935	17.9	85.6	88.3	89.2	0.87	10.2	11.2	4.2	3.5	4.3	8.6	33.6
AMPE 112M CA	**2***	7.5	10	2930	24.5	88.0	89.7	90.1	0.84	14.4	10.4	4.5	3.5	4.6	10.5	36.0
AMPE 132S ZA	**2**	5.5	7.5	2920	18.0	88.0	88.5	89.2	0.90	10.0	8.9	3.0	2.5	3.6	14.0	46.0
AMPE 132S TA	**2**	7.5	10	2910	24.6	88.6	89.2	90.1	0.92	13.1	8.9	3.0	2.6	3.6	16.0	53.0
AMPE 132M ZA	**2**	9.2	12.4	2930	30.0	88.6	89.8	90.7	0.89	16.5	10.1	3.7	3.3	4.0	17.5	58.0
AMPE 132M RA	**2***	11	15	2935	35.8	90.0	90.8	91.2	0.89	19.9	9.7	4.4	3.5	4.6	25.0	59.0
AMPE 132M TA	**2***	15	20	2915	49.2	91.0	92.2	91.9	0.88	26.8	9.6	3.7	2.6	3.8	28.0	68.0
AMPE 160M YA	**2**	11	15	2950	35.6	87.4	89.8	91.2	0.89	19.7	9.1	4.0	3.0	4.2	51.7	87.8
AMPE 160M ZA	**2**	15	20	2940	48.7	91.0	91.3	91.9	0.89	26.7	9.7	4.7	3.5	4.8	53.4	88.9
AMPE 160L ZA	**2**	18.5	25	2950	59.9	91.6	92.8	92.4	0.88	33.0	10.7	4.6	3.1	4.7	64.0	104.0
AMPE 160L TA	**2**	22	30	2950	71.3	92.2	93.7	92.7	0.87	39.4	10.4	4.5	3.0	4.6	64.0	104.0
1500 min^{-1} (4 poles)																
AMPE 80Z AA	**4**	0.75	1	1435	5.0	80.7	81.5	82.5	0.74	1.8	5.5	2.7	2.6	2.8	2.5	11.0
AMPE 90S AA	**4**	1.1	1.5	1440	7.3	83.3	84.3	84.1	0.75	2.5	7.1	4.3	3.4	4.4	3.6	15.8
AMPE 90L BA	**4**	1.5	2	1430	10.0	84.1	85.2	85.3	0.72	3.6	6.6	4.3	3.8	4.4	3.7	16.4
AMPE 90L CA	**4**	1.8	2.4	1430	12.0	83.5	86.1	86.0	0.69	4.5	8.5	4.3	3.7	4.4	3.9	20.0
AMPE 100L AA	**4**	2.2	3	1455	14.5	86.0	87.0	86.7	0.78	4.8	9.0	3.1	3.0	3.5	8.9	21.5
AMPE 100L BA	**4**	3	4	1460	19.5	86.1	87.8	87.7	0.82	6.0	8.5	2.5	2.4	3.0	14.9	29.0
AMPE 112M BA	**4**	4	5.5	1450	26.4	87.2	88.3	88.6	0.80	8.2	8.5	2.7	2.4	3.5	16.4	36.0
AMPE 132S AA	**4**	5.5	7.5	1460	35.9	90.6	91.3	89.6	0.84	10.6	8.6	2.5	2.1	3.5	33.0	60.0
AMPE 132M BA	**4**	7.5	10	1465	48.9	90.8	91.5	90.4	0.84	14.2	8.6	2.5	2.1	3.5	36.0	65.0
AMPE 132M CA	**4**	9.2	12.4	1460	60.1	91.0	91.6	91.0	0.84	17.3	8.7	2.4	2.0	3.6	45.0	63.0
AMPE 132M DA	**4***	11	15	1470	71.7	90.6	91.5	91.4	0.8	21.8	8.7	2.4	2.0	3.6	57.0	77.0
AMPE 160M AA	**4**	11	15	1475	71.3	91.6	92.4	91.4	0.83	21.0	8.2	2.1	1.7	2.8	89.0	100.0
AMPE 160L BA	**4**	15	20	1465	97.8	92.2	92.7	92.1	0.83	28.5	7.8	2.3	2.0	3.1	105.0	105.0
AMPE 160L CA	**4**	18.5	25	1470	122	92.0	92.8	92.6	0.78	37.0	7.1	2.1	1.9	2.6	120.7	110.0
AMPE 160L DA	**4**	22	30	1470	143.9	92.4	93.1	93.0	0.76	45.0	8.0	2.2	1.9	3.0	128.1	115.0
1000 min^{-1} (6 poles)																
AMPE 90S AA	**6**	0.75	1	940	7.6	78.1	79.2	78.9	0.62	2.2	4.6	1.7	1.6	1.8	6.0	18.1
AMPE 90L BA	**6***	1.1	1.5	935	11.2	79.1	81.2	81.0	0.64	3.1	4.2	1.8	1.7	2.3	6.5	19.0
AMPE 100L AA	**6**	1.1	1.5	960	10.9	78.9	81.3	81.0	0.65	3.0	6.2	2.2	1.8	2.8	11.6	25.0
AMPE 100L BA	**6**	1.5	2	920	15.6	81.1	82.7	82.5	0.68	3.8	5.7	1.7	1.3	2.3	14.2	26.0
AMPE 112M BA	**6**	2.2	3	920	22.8	83.3	85.1	84.3	0.68	5.4	5.3	2.0	1.8	2.4	20.1	34.2
AMPE 132S YA	**6**	3	4	975	29.4	84.1	85.8	85.6	0.65	8.0	5.5	2.1	1.9	3.1	37.7	42.0
AMPE 132M YA	**6**	4	5.5	975	39.2	85.2	87.1	86.8	0.66	10.3	5.4	2.2	1.7	3.2	44.4	46.0
AMPE 132M TA	**6***	5.5	7.5	975	53.9	87.1	88.1	88.0	0.64	14.2	5.4	2.1	1.8	2.9	54.1	48.0
AMPE 160M YA	**6**	5.5	7.5	975	53.9	87.5	88.5	88.0	0.77	11.8	8.6	2.2	1.8	2.8	103.0	84.0
AMPE 160LM ZA	**6**	7.5	10	980	73.1	88.3	89.3	89.1	0.78	15.7	8.7	2.4	1.9	3.1	132.0	97.0
AMPE 160L ZA	**6**	9.2	12.4	970	87.6	88.9	90.1	89.8	0.74	19.9	8.3	3.1	2.2	3.5	136.0	105.0
AMPE 160L TA	**6**	11	15	970	108.3	89.1	90.4	90.3	0.78	22.9	8.0	2.7	2.4	3.2	136.0	105.0

* Higher output (progressive motor)

PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3
CAST IRON DESIGN

EFFICIENCY LEVEL ACCORDING TO IEC 60034-30-1:2014
EFFICIENCY TESTING METHOD IEC 60034-2-1;2014

NOMINAL FULL LOAD EFFICIENCY ACCORDING TO IE3 CODE @ 400 V - 50 HZ

FOR MAINS VOLTAGE
400 V - 50 HZ

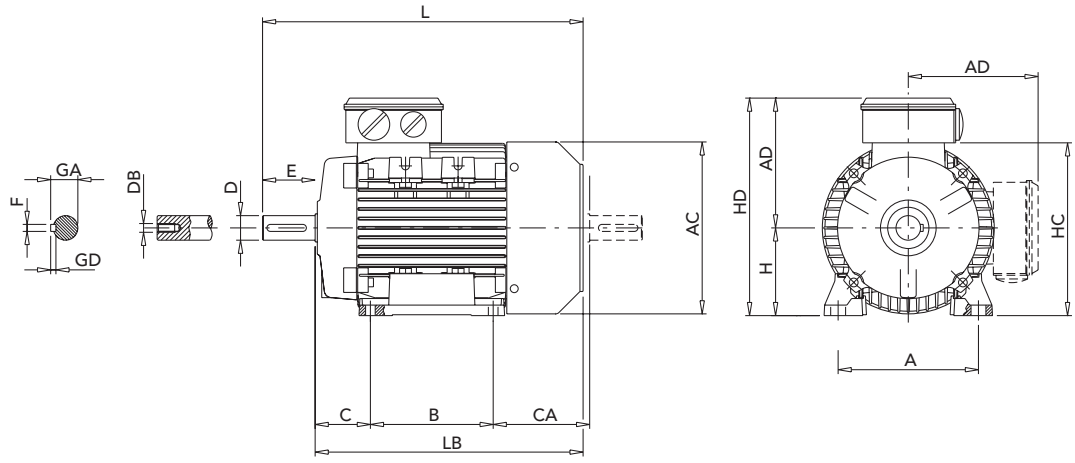
IE3

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min^{-1}	M_N Nm	IE3 η 50%	IE3 η 75%	IE3 η 100%	cos φ	I_N 400V	I_A/I_N	M_A/M_N	M_S/M_N	M_K/M_N	J 10^{-3} kgm^2	kg
3000 min^{-1} (2 poles)																
AMPE 180M ZG	**2**	22	30	2945	71.7	93.6	94.1	92.7	0.89	38.5	7.5	2.3	2.0	2.8	97	210
AMPE 200L PG	**2**	30	40	2945	97.9	93.2	93.8	93.3	0.89	52.1	6.7	2.4	2.0	2.7	173	234
AMPE 200L RG	**2**	37	50	2945	120.6	94.2	94.4	93.7	0.89	64.0	6.3	2.3	2.0	2.7	200	250
AMPE 225M PG	**2**	45	60	2950	146.7	94.1	94.6	94.0	0.91	75.9	6.9	2.3	2.0	2.8	344	322
AMPE 250M PG	**2**	55	75	2960	178.6	93.1	94.5	94.3	0.90	93.5	8.0	2.3	1.9	2.7	444	420
AMPE 280S G	**2**	75	100	2960	243.6	93.7	94.9	94.7	0.91	125.6	8.0	2.2	1.9	2.7	829	630
AMPE 280M G	**2**	90	125	2960	292.3	94.3	95.2	95.0	0.91	150.3	7.7	2.2	1.9	2.6	982	650
AMPE 315S G	**2**	110	150	2960	357.3	94.6	95.5	95.2	0.90	185.3	7.7	2.0	1.8	2.3	1509	930
AMPE 315M G	**2**	132	180	2960	428.7	94.7	95.5	95.4	0.90	221.9	7.6	2.0	1.8	2.3	1938	1030
AMPE 315M RG	**2**	160	200	2960	518.8	94.5	95.8	95.6	0.90	268.4	7.8	2.0	1.8	2.3	2197	1070
AMPE 315L G	**2**	200	270	2960	648.5	94.7	96.0	95.8	0.90	334.8	7.9	2.0	1.8	2.3	2554	1140
1500 min^{-1} (4 poles)																
AMPE 180M ZG	**4**	18.5	25	1460	122.3	92.6	92.9	92.6	0.86	33.5	7.8	2.4	2.1	3.0	155	169
AMPE 180L ZG	**4**	22	30	1460	143.9	93.0	93.3	93.0	0.87	39.2	7.5	2.3	2.0	3.0	194	196
AMPE 200L RG	**4**	30	40	1470	196.2	93.6	93.5	93.6	0.81	57.1	7.9	2.4	2.0	2.7	287	252
AMPE 225S PG	**4**	37	50	1470	240.4	93.9	94.1	93.9	0.87	65.4	6.7	2.4	2.0	2.7	578	325
AMPE 225M PG	**4**	45	60	1470	290.3	94.2	94.3	94.2	0.87	79.2	7.0	2.3	2.0	2.8	653	353
AMPE 250M PG	**4**	55	75	1470	354.9	94.6	94.6	94.6	0.88	95.4	7.4	2.4	1.9	2.7	765	427
AMPE 280S G	**4**	75	100	1480	483.9	95.0	95.2	95.0	0.87	131.0	7.5	2.2	1.9	2.6	1887	673
AMPE 280M G	**4**	90	125	1480	580.7	95.2	95.1	95.2	0.85	160.5	7.7	2.2	1.9	2.6	2183	692
AMPE 315S G	**4**	110	150	1480	109.7	95.4	95.7	95.4	0.88	189.1	7.8	2.0	1.8	2.3	3718	1027
AMPE 315M G	**4**	132	180	1480	851.7	95.6	95.8	95.6	0.88	226.5	7.8	2.0	1.8	2.3	4297	1070
AMPE 315M RG	**4**	160	200	1480	1032.4	95.8	96.0	95.8	0.88	273.9	7.9	2.0	1.8	2.3	5120	1150
AMPE 315L G	**4**	200	270	1480	1290.4	96.0	96.2	96.0	0.89	337.9	7.7	2.0	1.8	2.3	6173	1230
1000 min^{-1} (6 poles)																
AMPE 180L ZG	**6**	15	20	960	149.2	90.3	92.0	91.2	0.83	30.0	7.8	2.3	2.1	2.9	257	185
AMPE 200L PG	**6**	18.5	25	970	183.1	90.6	92.3	91.7	0.85	36.4	7.8	2.4	2.1	3.2	383	231
AMPE 200L RG	**6**	22	30	970	217.7	91.3	93.0	92.2	0.86	42.5	7.9	2.3	1.9	3.1	449	249
AMPE 225M PG	**6**	30	40	975	293.8	90.9	93.8	92.9	0.85	53.0	7.9	2.2	1.9	2.7	670	339
AMPE 250M PG	**6**	37	50	975	362.4	91.8	94.0	93.3	0.83	67.3	7.5	2.3	2.1	2.7	992	399
AMPE 280S G	**6**	45	60	980	438.5	92.7	94.6	93.7	0.86	83.5	7.2	2.3	2.0	2.8	2046	551
AMPE 280M G	**6**	55	75	980	535.9	93.4	95.0	94.1	0.86	99.2	7.7	2.2	1.9	2.7	2573	624
AMPE 315S G	**6**	75	100	980	730.8	93.2	94.8	94.6	0.89	139.5	7.9	2.1	1.9	2.5	4157	860
AMPE 315M G	**6**	90	125	980	877.0	93.4	95.0	94.9	0.90	166.9	8.0	2.0	1.8	2.3	3530	970
AMPE 315L RG	**6**	110	150	980	1071.9	94.0	95.4	95.1	0.90	203.6	7.7	2.0	1.8	2.3	4173	1010
AMPE 315L G	**6**	132	180	980	1286.2	94.2	95.7	95.4	0.89	243.5	8.0	2.0	1.8	2.3	5167	1090

* Higher output (Progressive motor)

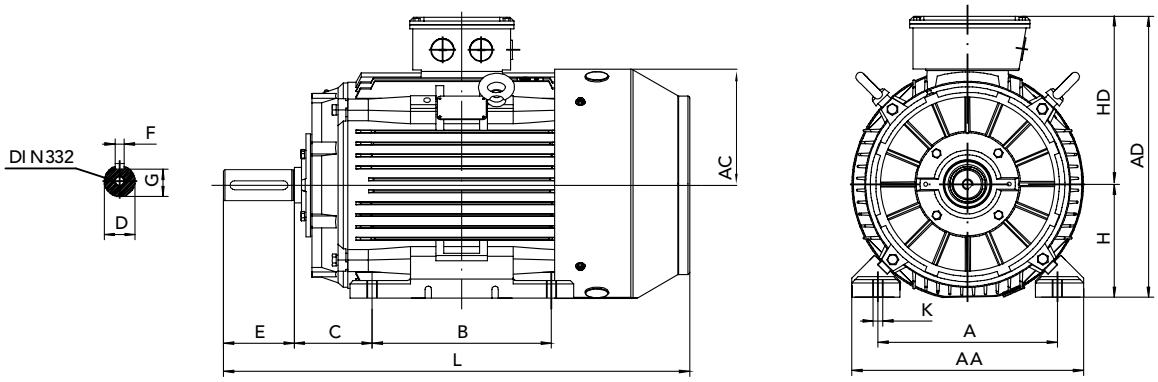
THREE-PHASE FRAME SIZE 71 - 160 IM B3
AMPE SERIES - ALUMINIUM ALLOY FRAME



IEC	Poles	kW	H	A	B	C	CA	AD [1]	HD [1]	AC	HC	L	LB	D	E	F	GD	GA	DB [2]
71	**2**	**all**	71	112	90	45	83	110	181	139	142	246	216	14	30	5	5	16	M5
80	**2 - 4**	**all**	80	125	100	50	89	129	209	160	162	272	232	19	40	6	6	21.5	M6
90S	**2 - 4 - 6**	**all**	90	140	100	56	116	138	228	180	181	317	267	24	50	8	7	27	M8
90L	**2**	**2.2**	90	140	125	56	91	138	228	180	181	317	267	24	50	8	7	27	M8
	2	**3**	90	140	125	56	114	138	228	180	181	340	290	24	50	8	7	27	M8
	4 - 6	**all**	90	140	125	56	91	138	228	180	181	317	267	24	50	8	7	27	M8
100L	**2**	**all**	100	160	140	63	110	145	245	196	198	366	306	28	60	8	7	31	M10
	4 - 6	**all**	100	160	140	63	110	145	245	198	192	366	306	28	60	8	7	31	M10
112M	**2**	**4 - 5.5**	112	190	140	70	126	160	272	225	225	388	328	28	60	8	7	31	M10
	2	**7.5**	112	190	140	70	148	160	272	222	225	410	350	28	60	8	7	31	M10
	4-6	**all**	112	190	140	70	126	160	272	225	225	388	328	28	60	8	7	31	M10
132S	**2**	**5.5**	132	216	140	89	134	194	326	248	261	445	365	38	80	10	8	41	M12
	2	**7.5**	132	216	140	89	154	194	326	248	261	465	385	38	80	10	8	41	M12
	4	**5.5**	132	216	140	89	134	194	326	248	261	445	365	38	80	10	8	41	M12
	6	**all**	132	216	140	89	134	194	326	248	261	445	365	38	80	10	8	41	M12
132M	**2**	**9.2 - 11**	132	216	178	89	156	194	326	248	261	505	425	38	80	10	8	41	M12
	2	**15**	132	216	178	89	207	194	326	248	261	556	476	38	80	10	8	41	M12
	4	**7.5**	132	216	178	89	136	194	326	248	261	485	405	38	80	10	8	41	M12
	4	**9.2**	132	216	178	89	157	194	326	248	261	505	425	38	80	10	8	41	M12
	4	**11**	132	216	178	89	207	194	326	248	261	556	476	38	80	10	8	41	M12
	6	**4**	132	216	178	89	136	194	326	248	261	485	405	38	80	10	8	41	M12
	6	**5.5**	132	216	178	89	156	194	326	248	261	505	425	38	80	10	8	41	M12
160M	**2 - 4 - 6**	**all**	160	254	210	108	180	238	398	317	316	608	498	42/28	110/60	12/8	8/7	45/31	M16/M10
160L	**2 - 4 - 6**	**all**	160	254	254	108	180	238	398	317	316	652	542	42/28	110/60	12/8	8/7	45/31	M16/M10

1) Maximun distance
2) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 180 - 315 IM B3
AMPE SERIES - CAST IRON FRAME



IEC	Poles	H	A	B	C	K	AD	HD	AC	L	AA	D	E	F	G
180M	**2-4-6**	180	279	241	121	15	439	259	360	687	348	48	110	14	42.5
180L	**2-4-6**	180	279	279	121	15	439	259	360	725	348	48	110	14	42.5
200	**2-4-6**	200	318	305	133	19	497	297	399	768	388	55	110	16	49
225S	**≥ 4**	225	356	286	149	19	553	328	465	814	436	60	140	18	53
225M	**2**	225	356	311	149	19	553	358	465	809	436	55	110	16	49
	≥ 4	225	356	311	149	19	553	328	465	839	436	60	140	18	53
250	**2**	250	406	349	168	24	616	366	506	918	484	60	140	18	53
	≥ 4	250	406	349	168	24	616	366	506	918	484	65	140	18	58
280S	**2**	280	457	368	190	24	668	388	559	984	557	65	140	18	58
	≥ 4	280	457	368	190	24	668	388	559	984	557	75	140	20	67.5
280M	**2**	280	457	419	190	24	668	388	559	1035	557	65	140	18	58
	≥ 4	280	457	419	190	24	668	388	559	1035	557	75	140	20	67.5
315S	**2**	315	508	457	216	28	845	530	680	1355	630	65	140	18	58
	≥ 4	315	508	457	216	28	845	530	680	1385	630	80	170	22	71
315M	**2**	315	508	508	216	28	845	530	680	1355	630	65	140	18	58
	≥ 4	315	508	508	216	28	845	530	680	1385	630	80	170	22	71
315L	**2**	315	508	508	216	28	845	530	680	1355	630	65	140	18	58
	≥ 4	315	508	508	216	28	845	530	680	1385	630	80	170	22	71

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