

THREE-PHASE MOTORS



TERMINAL BOX

The location of the terminal box in standard design is on top; on the right or on the left are possible.

Motors 71-160 frame size have removable feet for easy change of terminal box position

For motors with mountings IM B6, IM B7, IM B8, IM V5, IM V6 the location of the terminal box is related to an IM B3 mounting.

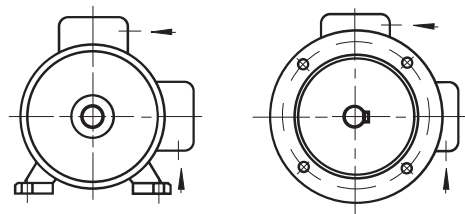
The position of the entry openings can be adjusted to suit the existing connection facilities by turning through 90°. Should special accessories be used (temperature detectors, anti-condensation heating, etc.) please enquire.

For motors in standard design, the cable gland does not belong to our scope of delivery.

For plastic terminal boxes, only plastic glands may be used (shock protection).

When using screened leads, a metal terminal box is required.

Direction of cable entries

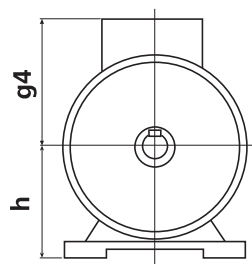


Frame size	Degree of protection	Thread for cable entry		Max. cable section mm ²	Terminal thread	Max. external cable diam. mm
		Metric ¹⁾	Pg ²⁾			
56 - 71	IP 55	1 x M16/1 x M20	1 x Pg 11/1 x Pg 13.5	2.5	M4	12
80	IP 55	1 x M25/1 x M20	1 x Pg 13.5/1 x Pg 16	2.5	M4	16
90 - 112	IP 55	1 x M25/1 x M20	1 x Pg 13.5/1 x Pg 16	4	M5	16
132	IP 55	2 x M32	2 x Pg 21	4	M5	20
160	IP 55	2 x M40	2 x Pg 29	16	M6	28
180	IP 55	2 X M32/1 X M16		35	M8	28
200	IP 55	2 x M40/1 x M16		35	M8	34
225	IP 55	2 x M50/1 x M16		50	M10	34
250 - 280	IP 55	2 x M50/1 x M16		50	M10	40
315	IP 55	2 x M63/1 x M16 ³⁾		185	M12	48

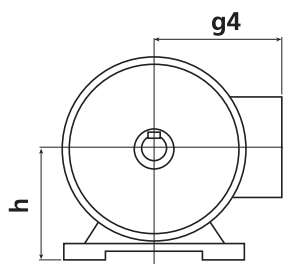
1) Pitch 1.5

2) Pg thread to DIN 40 430 (on request)

3) Terminal box with unscrewable cable entry plate



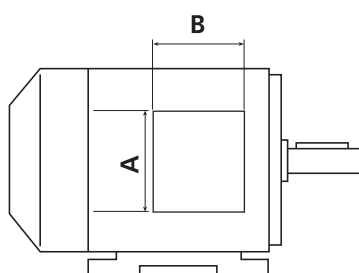
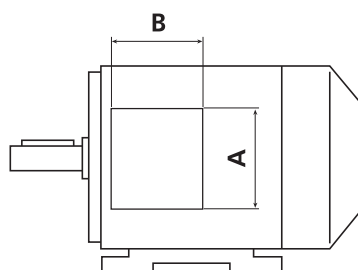
Terminal box on top



Terminal box at the side

STANDARD DESIGN

Frame size h	g ₄	A	B	Material
56	98	91	93	Plastic UL 94 V0
63	103	91	93	Plastic UL 94 V0
71	112	91	93	Plastic UL 94 V0
80	129	111	116	Plastic UL 94 V0
90	138	111	116	Plastic UL 94 V0
100	145	111	116	Plastic UL 94 V0
112	161	111	116	Plastic UL 94 V0
132	198	133	133	Aluminium
160	238	150	150	Aluminium
180	268	187	162	Cast Iron
200	300	233	186	Cast Iron
225	335	233	186	Cast Iron
250	366	260	218	Cast Iron
280	408	260	218	Cast Iron
315	530	320	280	Cast Iron


left ¹⁾


right

SPECIAL DESIGN

Frame size h	g ₄	A	B	Material
56	100	94	94	Aluminium
63	105	94	94	Aluminium
71	114	94	94	Aluminium
80	139	110	110	Aluminium
90	148	110	110	Aluminium
100	155	110	110	Aluminium
112	171	110	110	Aluminium
180	285	209	220	Cast Iron
200	310	241	246	Cast Iron
225	334	272	254	Cast Iron
250	375	272	254	Cast Iron
280	409	272	254	Cast Iron

1) On frame size 56-63 the terminal box is supplied displaced towards the non-drive end

CONNECTION DIAGRAMS

Windings of standard three-phase single speed motors can be connected either in star or delta connection.

STAR CONNECTION

A star connection is obtained by connecting W2, U2, V2 terminals to each other and the U1, V1, W1 terminals to the mains. The phase current and voltage are:

$$I_{ph} = I_n ; U_{ph} = U_n / \sqrt{3}$$

where I_n is the line current and U_n the line voltage referred to the star connection.

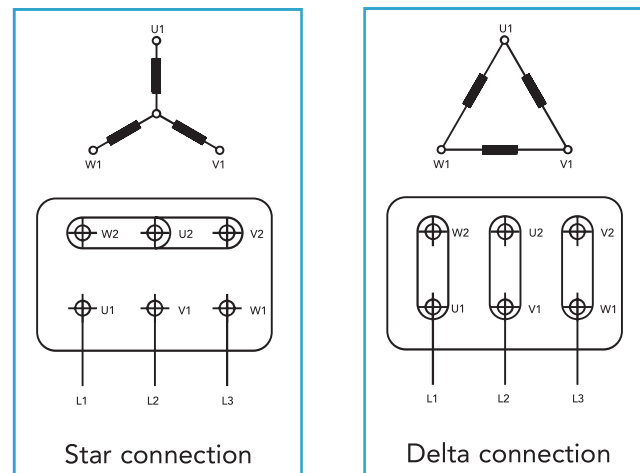
DELTA CONNECTION

A delta connection is obtained by connecting the end of a phase to the beginning of the next phase.

The phase current I_{ph} and the phase voltage U_{ph} are:

$$I_{ph} = I_n / \sqrt{3} ; U_{ph} = U_n$$

where I_n and U_n are referred to the delta connection.



STAR-DELTA STARTING

Star-delta starting allows a peak current reduction. It can be used only when the reduced starting torque obtained is higher than the resistant torque. Actually, it should be noted that the torque of an induction squirrel-cage motor is directly proportional to the square of the voltage. Motors whose rated voltage with delta connection corresponds to the mains voltage, can be started with the star-delta method.

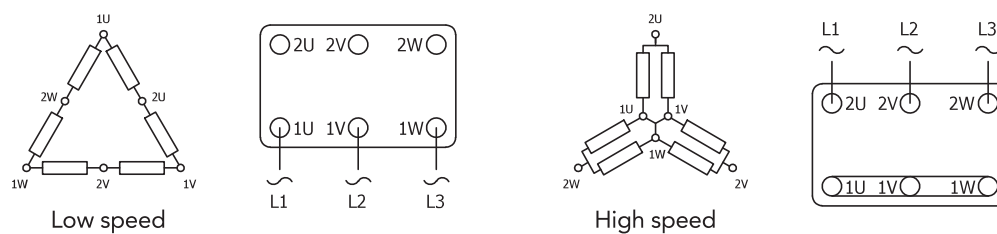
All motors can be supplied with windings designed for star-delta starting (for example: 400 V Δ / 690 V Y).

TWO SPEED MOTORS

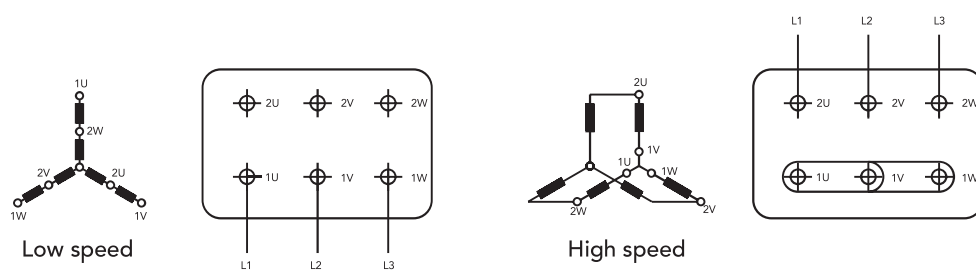
Standard pole-changing motors are designed for single voltage and direct-on-line starting.

When the ratio between the two speeds is from 1 to 2, the standard motors have one single winding (Dahlander connection). For the other speeds, the motors have two separate windings.

AM/AMV - two separate windings

AM - Dahlander connection Δ/YY 

AMV - Dahlander connection Y/YY

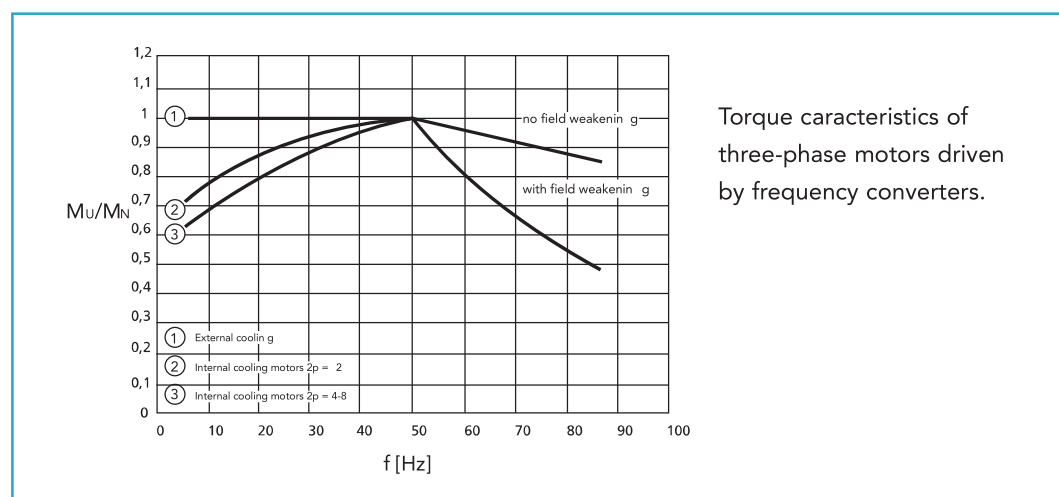


CAGE MOTORS DRIVEN BY FREQUENCY CONVERTERS

Motors frame sizes 90 upwards in standard design are suitable for operation on static frequency converters, taking into account the following remarks:

- Maximum converter output voltage 500V at peak voltages $\hat{U} \leq 1460\text{V}$ and $du/dt \leq 13 \text{ kV/us}$. For higher converter output voltages or stresses, a special insulation is required.
- With square characteristic of the load torque, motors can be driven with their rated torque.
- For constant torque, the rated torque of motors with internal cooling must be reduced due to reduced cooling air inlet. Depending on the control range, the use of an external fan would be advisable.
- The motors frame sizes 90 – 112 are suitable for a maximum output frequency of the converter of 60 Hz (e.g. applications with square torque, control range 1:10, such as pumps and fans). For higher frequencies, a special range is available on request. From frame size 132 upwards, motors designed Δ/Y 230/400 V, 50 Hz can be operated in delta with a maximum frequency of 87 Hz (observe mechanical limit speed).
- The motors frame size 56 – 80 can be operated on single-phase converters up to maximum 60 Hz. Special range for operation on three-phase converters with output voltage $\geq 400 \text{ V}$ and output frequency $> 60 \text{ Hz}$ is available on request.

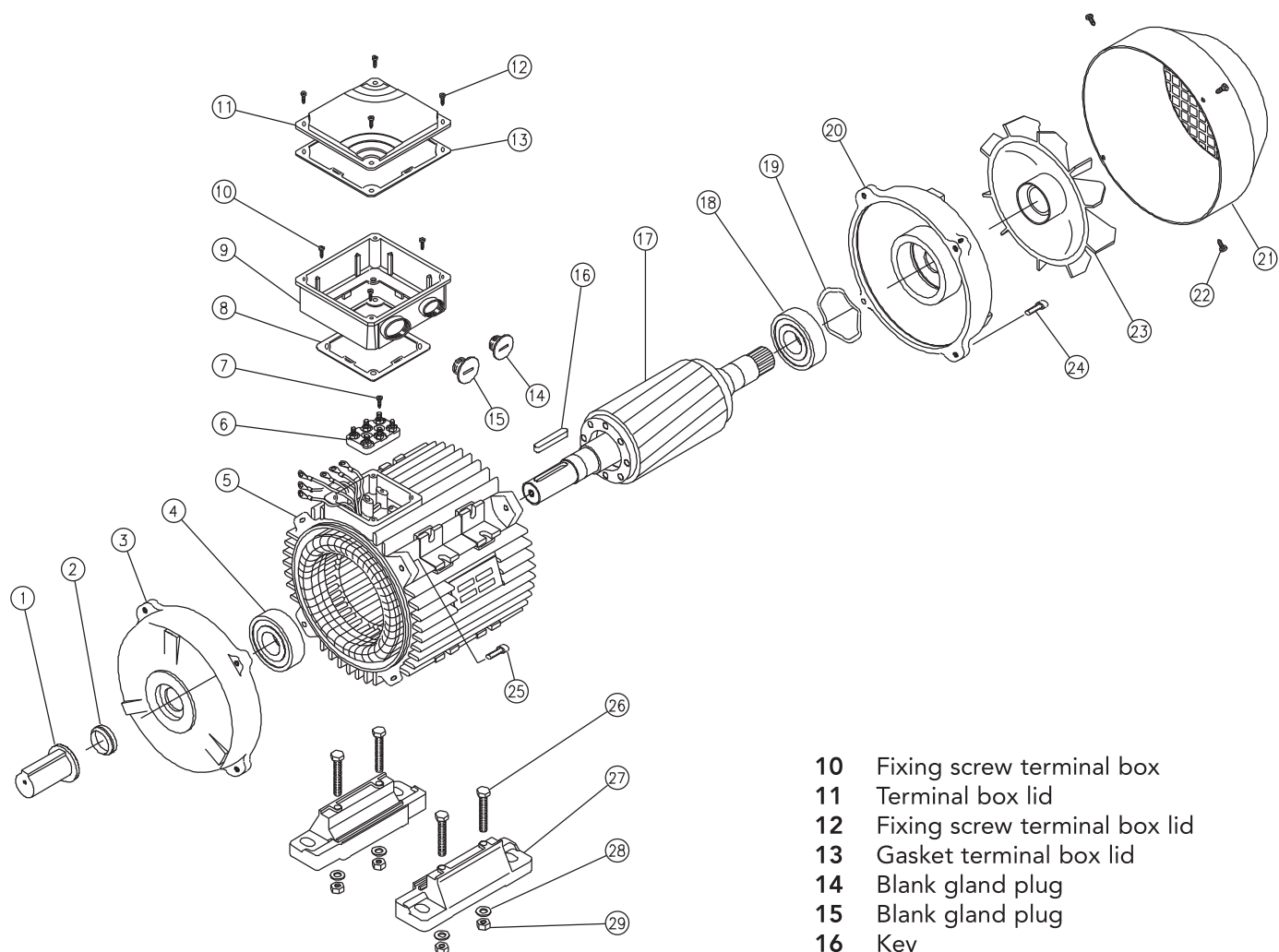
Note: Motors 75 kW, 2 poles and up - insulated bearing are recommended when inverter fed.



NOISE

Depending on the operating point and converter type, converter-fed motors produce between approx. 4 - 10 dB(A) higher noise values than when supplied from the mains. For motors driven with a frequency over 50 Hz, more fan noise is produced. We recommend the use of an external fan.

SPARE PARTS



PART DESCRIPTION

- 1 Shaft protection
- 2 Dust seal drive end
- 3 Endshield drive end
- 4 Bearing drive end
- 5 Stator frame
- 6 Terminal board
- 7 Fixing screw terminal board
- 8 Gasket terminal box
- 9 Terminal box

- 10 Fixing screw terminal box
- 11 Terminal box lid
- 12 Fixing screw terminal box lid
- 13 Gasket terminal box lid
- 14 Blank gland plug
- 15 Blank gland plug
- 16 Key
- 17 Rotor complete
- 18 Bearing non-drive end
- 19 Pre-load washer
- 20 Endshield non-drive end
- 21 Fan cover
- 22 Fixing screw fan cover
- 23 Fan
- 24 Fixing bolt endshield non-drive end
- 25 Fixing bolt endshield drive end
- 26 Fixing bolt motor feet
- 27 Motor feet
- 28 Fixing washer motor feet
- 29 Fixing nut motor feet

Only motors 71-160 frame size have removable feet for easy change of terminal box position

In enquires and orders for spare parts please state always:

Designation of spare part, motor type, mounting arrangement, motor serial number (Product No. when available)

Enquires and orders cannot be handled without these data.

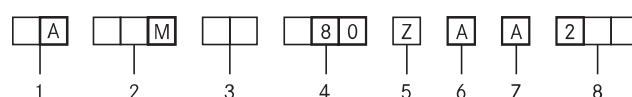
TYPE DESIGNATION

Apart from other information, it is necessary to specify the exact type designation in all enquiries, when ordering spare parts or replacement motors or when asking for documentary information.

The type designation of our motors comprises 8 points of reference, each of which may consist of several letters and/or numerals. The meaning of each symbol can be seen from the following table. For motors not included in our standard range, special symbols may be used which are not listed here.

Ref. point	Meaning	Description of symbols used for our motors	
1	Type of motor	A	Asynchronous motor
2	Cooling	M	Surface cooled with external fan, cooling fins
		G	Surface cooled without external fan, cooling fins
		MFV	Surface cooled with forced ventilation, cooling fins
3	Type of motor	blank	Three-phase motor, standard efficiency IE1 code
		EE	Three-phase motor, high efficiency IE2 code
		HE	Three-phase motor, high efficiency IE2 code 50 - 60 Hz
		PE	Three-phase motor, premium efficiency IE3 code
		PH	Three-phase motor, premium efficiency EISA regulations
		V	Three-phase two speed motor for driving fans
		I	Special design for three-phase motor driven with frequency converter
4	Shaft centre height	56, 63, 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315	
5	Frame length	Z	
		S	Mechanical dimension (short)
		M	Mechanical dimension (medium)
		L	Mechanical dimension (long)
6	Mechanical design and output value	A	
		B	
		...	
		Z	
7	Frame material	A	Aluminium frame
		G	Cast iron frame
8	Number of poles	2 - 4/2 4 - 8/4 6 - 4/6 8 - 6/8	

Example



PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3

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



TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	IE3 η			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
						50%	75%	100%								
3000 min ⁻¹ (2 poles)																
ALUMINIUM DESIGN																
AMPE 56Z BA	2	0.12	0.16	2650	0.4	49.1	55.8	60.8	0.68	0.45	3.5	3.4	3.4	3.5	0.09	3.4
AMPE 56Z CA	2*	0.18	0.24	2650	0.6	57.0	61.8	65.9	0.73	0.60	3.9	3.8	3.8	3.9	0.1	3.5
AMPE 63Z AA	2	0.18	0.25	2735	0.6	55.4	61.9	65.9	0.73	0.55	3.7	3.0	3.0	3.1	0.14	3.6
AMPE 63Z BA	2	0.25	0.33	2810	0.9	57.0	65.3	69.7	0.62	0.86	4.5	3.2	3.2	3.3	0.17	4.1
AMPE 63Z CA	2*	0.37	0.50 ¹	2720	1.3	65.4	69.9	73.8	0.73	1.05	4.6	3.4	3.3	3.4	0.2	4.4
AMPE 71Z XA	2	0.37	0.50	2810	1.3	70.3	74.2	73.8	0.76	0.95	4.7	3.6	3.4	3.6	0.32	5.8
AMPE 71Z YA	2	0.55	0.75	2850	1.9	73.3	77.7	77.8	0.73	1.40	4.8	3.2	3.1	3.3	0.37	6.2
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
CAST IRON DESIGN																
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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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

* Higher output (Progressive motor)

1) Motors from 75 to 200 kW from July 1st 2023 are available in Super Premium Efficiency IE4, please contact us.

PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3

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	η			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
						50%	75%	100%								
1500 min ⁻¹ (4 poles)																
ALUMINIUM DESIGN																
AMPE 63Z AA	4	0.12	0.16	1370	0.8	58.3	64.1	64.8	0.70	0.4	2.4	2.0	1.9	2.0	0.2	3.3
AMPE 63Z BA	4	0.18	0.25	1360	1.3	61.8	67.0	69.9	0.66	0.6	2.3	1.9	1.8	1.9	0.3	4.1
AMPE 71Z AA	4	0.25	0.33	1420	1.8	69.9	74.6	73.5	0.70	0.7	3.2	1.9	1.8	2.0	0.6	5.7
AMPE 71Z BA	4	0.37	0.50	1410	2.6	73.2	76.5	77.3	0.70	1.0	3.3	2.2	2.1	2.2	0.8	6.0
AMPE 80Z XA	4	0.55	0.75	1440	3.8	75.6	80.7	80.8	0.75	1.3	6.0	2.8	2.5	2.6	1.4	8.2
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	49.0
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	54.0
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	62.0
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	71.0
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	0.81	41.0	8.0	2.2	1.9	3.0	128.1	115.0
CAST IRON DESIGN																
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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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

1) Motors from 75 to 200 kW from July 1st 2023 are available in Super Premium Efficiency IE4, please contact us.

PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3

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	η			cos φ	I _N 400V	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J	
						50%	75%	100%							10 ⁻³ kgm ²	kg
1000 min ⁻¹ (6 poles)																
ALUMINIUM DESIGN																
AMPE 71Z AA	6	0.18	0.25	910	2.0	60.9	66.1	63.9	0.63	0.6	2.2	1.6	1.5	1.6	1.0	6.1
AMPE 71Z BA	6	0.25	0.33 ¹	900	2.7	61.4	66.2	68.6	0.64	0.9	2.5	1.7	1.6	1.7	1.2	6.6
AMPE 80Z AA	6	0.37	0.5	940	3.8	70.9	72.1	73.5	0.72	1.0	2.7	1.6	1.6	2.1	1.8	8.0
AMPE 90S XA	6	0.55	0.75	940	5.6	73.4	77.2	77.2	0.67	1.5	4.5	1.6	1.5	1.8	4.8	15.0
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	0.70	9.6	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 160M 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
CAST IRON DESIGN																
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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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)

1) Motors from 75 to 200 kW from July 1st 2023 are available in Super Premium Efficiency IE4, please contact us.

PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3

EFFICIENCY LEVEL ACCORDING TO EISA
EFFICIENCY TESTING METHOD CSA C390-10
VERIFIED BY UL UNDERWRITERS LABORATORIES INC.

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

FOR MAINS VOLTAGE
460 V - 60 HZ



TEMPERATURE RISE TO CLASS B

Type	kW	HP	min ⁻¹	M _N Nm	η			cos φ	I _N 460 V	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J		
					50 %	75 %	100 %							10 ⁻³ kgm ²	kg	
3600 min ⁻¹ (2 poles)																
AMPH 80Z AA2	2	0.75	1	3525	2.0	81.2	84.2	77.0	0.77	1.5	9.4	5.2	4.1	5.5	0.7	9.5
AMPH 80Z BA2	2	1.1	1.5	3490	3.0	81.9	84.6	84.0	0.80	2.0	8.3	4.4	3.9	4.5	0.9	11.1
AMPH 80Z CA2	2*	1.5	2	3460	4.1	82.1	84.9	85.5	0.77	2.8	8.2	4.7	3.6	4.4	1.1	13.5
AMPH 90S AA	2	1.5	2	3515	4.1	81.2	84.7	85.5	0.78	2.8	10.0	3.7	3.6	4.3	1.6	16.4
AMPH 90L BA	2	2.2	3	3480	6.0	83.6	86.1	86.5	0.84	3.8	8.5	4.4	4	4.4	1.8	18.3
AMPH 90L DA	2*	3	4	3510	8.2	85.9	88.6	88.5	0.82	5.3	9.4	4.1	3.9	4.3	2.0	18.0
AMPH 100L AA	2	3	4	3515	8.2	85.8	88.1	88.5	0.86	4.9	10.5	5.6	5.3	5.3	4.0	23.6
AMPH 100L BA	2*	3.7	5	3540	10.0	86.2	88.0	88.5	0.75	7.0	9.6	4.9	4.3	4.9	7.3	26.5
AMPH 100L CA	2*	4	5.5	3530	10.8	86.6	88.1	88.5	0.76	7.4	9.0	4.5	4.0	4.5	7.3	26.5
AMPH 112M AA	2	3.7	5	3535	10.0	84.0	87.6	88.5	0.90	5.8	11.0	3.4	1.9	4.0	6.5	27.4
AMPH 112M BA	2	4	5.5	3520	10.9	85.3	88.0	88.5	0.91	6.2	10.5	3.2	1.7	3.8	6.5	27.4
AMPH 112M CA	2*	5.5	7.5	3530	14.9	86.2	89.0	89.5	0.86	8.9	14.4	4.5	2.5	4.3	8.6	35.5
AMPH 112M DA	2*	7.5	10	3530	20.3	87.9	90.1	90.2	0.88	11.9	11.0	4.5	2.6	4.7	10.5	36.5
AMPH 132S ZA	2	5.5	7.5	3540	14.8	87.3	89.6	89.5	0.88	8.8	10.2	3.0	2.6	3.3	20.5	42.0
AMPH 132S TA	2	7.5	10	3540	20.2	88.0	90.3	90.2	0.87	12.0	12.0	3.4	2.9	3.9	22.8	48.0
AMPH 132M TA	2	9.2	12.4	3545	24.8	87.7	90.1	90.2	0.88	14.5	10.0	4.0	3.5	4.7	25.0	50.0
AMPH 132M RA	2*	11	15	3535	29.7	87.5	90.4	91.0	0.86	17.7	10.7	4.0	3.5	4.7	25.0	60.1
AMPH 132M ZA	2*	15	20	3530	40.6	89.6	90.7	91.0	0.88	23.5	9.7	4.1	3.4	4.2	28.0	68.0
AMPH 160M YA	2	11	15	3550	29.6	86.6	90.0	91.0	0.89	17.0	10.8	3.5	2.5	4.5	51.7	90.0
AMPH 160M ZA	2	15	20	3555	40.3	90.1	92.0	91.0	0.88	23.4	10.0	3.5	3.1	4.5	53.4	92.0
AMPH 160L ZA	2	18.5	25	3555	49.7	90.0	92.2	91.7	0.82	31.0	12.5	4.6	3.3	6.0	64.0	108.0
AMPH 160L TA	2	22	30	3540	59.3	90.7	92.5	91.7	0.84	35.8	10.6	3.9	2.8	5.0	64.0	108.0
Type	kW	HP	min ⁻¹	M _N Nm	η			cos φ	I _N 460 V	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J 10 ⁻³ kgm ² kg		
1800 min ⁻¹ (4 poles)																
AMPH 80 Z AA	4	0.75	1	1740	4.1	82.6	86.1	85.5	0.76	1.45	6.5	3.4	2.5	3.5	2.5	11.0
AMPH 90S AA	4	1.1	1.5	1745	6.0	82.8	85.6	86.5	0.71	2.2	8.2	4.4	4.3	4.6	3.7	18.8
AMPH 90L BA	4	1.5	2	1735	8.3	83.5	86.2	86.5	0.74	2.9	7.5	3.8	3.7	4.0	3.7	18.8
AMPH 90L CA	4	1.8	2.4	1730	9.9	85.2	86.7	86.5	0.68	3.8	7.8	3.9	3.8	4.1	3.7	18.8
AMPH 100L AA	4	2.2	3	1760	11.9	87.8	88.9	89.5	0.81	3.8	8.3	2.8	2.7	3.3	10.7	25.0
AMPH 100L BA	4	3	4	1765	16.2	88.2	89.1	89.5	0.80	5.3	8.2	2.7	2.5	3.2	14.9	28.0
AMPH 112M AA	4	3.7	5	1765	20.0	87.3	89.3	89.5	0.80	6.5	9.6	3.1	2.5	4.6	16.4	35.7
AMPH 112M BA	4	4	5.5	1760	21.7	87.7	89.4	89.5	0.81	6.9	9	2.9	2.3	4.3	16.4	35.7
AMPH 132S AA	4	5.5	7.5	1770	35.9	91.0	92.1	91.7	0.83	9.0	9.0	2.4	2.0	3.8	33.0	49.0
AMPH 132M BA	4	7.5	10	1765	40.5	90.8	91.5	91.7	0.83	12.5	9.0	2.4	2.0	3.8	36.0	54.0
AMPH 132M CA	4	9.2	12.4	1765	49.8	90.9	91.6	91.7	0.83	15.2	9.2	2.2	1.9	3.7	45.0	62.0
AMPH 132M DA	4*	11	15	1770	59.7	91.2	92.0	92.4	0.81	18.5	8.5	3.5	3.0	4.0	57.0	71.0
AMPH 160M AA	4	11	15	1770	59.3	91.0	92.5	92.4	0.80	18.6	8.5	2.5	1.8	3.3	89.0	100.0
AMPH 160L BA	4	15	20	1770	81.2	91.9	93.0	93.0	0.82	24.8	8.9	2.7	2.4	3.7	105.0	105.0
AMPH 160L CA	4	18.5	25	1770	99.8	92.0	93.4	93.6	0.78	32.5	8.0	2.5	2.2	3.3	120.7	110.0
AMPH 160L DA	4	22	30	1770	119.0	92.9	93.7	93.6	0.83	35.6	7.8	2.5	2.0	3.3	135	127.0

* Higher output (progressive motor)

PREMIUM EFFICIENCY THREE-PHASE MOTORS – IE3

EFFICIENCY LEVEL ACCORDING TO EISA
EFFICIENCY TESTING METHOD CSA C390-10
VERIFIED BY UL UNDERWRITERS LABORATORIES INC.

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

FOR MAINS VOLTAGE
460 V - 60 HZ



TEMPERATURE RISE TO CLASS B

Type	kW	HP	min ⁻¹	M _N Nm	η			cos φ	I _N 460 V	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J		
					50 %	75 %	100 %							10 ³ kgm ²	kg	
1200 min ⁻¹ (6 poles)																
AMPH 90S AA	6	0.75	1	1155	6.2	78.5	81.8	82.5	0.58	2.05	4.5	1.8	1.7	2.1	6.0	18.1
AMPH 100L AA	6*	1.1	1.5	1175	8.9	85.8	87.8	87.5	0.64	2.5	6.1	2.1	1.6	2.2	13.3	28.0
AMPH 112M AA	6	1.1	1.5	1180	8.9	86.0	88.0	87.5	0.63	2.5	6.5	2.8	2.0	2.9	20.1	34.2
AMPH 112M BA	6	1.5	2	1180	12.1	85.6	88.1	88.5	0.63	3.5	6.2	2.9	2.5	3.1	23.1	36.5
AMPH 112M CA	6	1.8	2.4	1170	14.7	86.3	88.3	88.5	0.66	3.9	6.4	3.0	2.6	3.2	23.1	36.5
AMPH 132S AA	6	2.2	3	1175	17.9	87.4	89.6	89.5	0.65	4.7	6.0	2.3	1.7	3.0	45	46
AMPH 132S BA	6	3	4	1175	24.4	88.2	89.8	89.5	0.66	6.4	6.5	2.5	1.7	3.2	45	48
AMPH 132M CA	6	4	5.5	1175	32.5	89.5	90.0	89.5	0.7	7.9	6.2	2.1	1.6	2.9	54	50
AMPH 160M AA	6	5.5	7.5	1180	44.5	88.4	90.4	91	0.78	9.8	8.2	2.8	2.6	3.5	103	84
AMPH 160M BA	6	7.5	10	1180	60.7	89.4	91.1	91	0.76	13.6	8.5	3.1	2.8	3.4	130	105
AMPH 160L CA	6	9.2	12.4	1175	74.8	90.0	91.5	91	0.77	16.4	8.1	3.0	2.7	3.6	136	115

* Higher output (progressive motor)

HIGH EFFICIENCY THREE-PHASE MOTORS – IE2

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

NOMINAL FULL LOAD EFFICIENCY ACCORDING TO IE2 CODE @ 400 V - 50 HZ; IE2 CODE @ 460 V - 60 HZ
AND NEMA MG 1 - TABLE 12-11 (EPACT) @ 460 V - 60 HZ

Performance data referred @ 400 V - 50 Hz. For performance data @ 460 V - 60 Hz, please consult us.

FOR MAINS VOLTAGE
400 V - 50 HZ
460 V - 60 HZ

IE2

TEMPERATURE RISE TO CLASS B

Type	kW		HP	min ⁻¹	M _N Nm	IE2 η			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
						50%	75%	100%								
3000 min ⁻¹ (2 poles)																
AMHE 56Z BA	2	0.12	0.16	2650	0.4	49.1	55.8	53.6	0.73	0.4	3.5	3.4	3.4	3.5	0.10	3.5
AMHE 56Z CA	2	0.18	0.24	2660	0.6	55.0	59.8	60.4	0.64	0.7	3.9	3.8	3.8	3.9	0.09	3.4
AMHE 63Z AA	2	0.18	0.25	2720	0.6	53.8	59.7	60.4	0.76	0.6	3.7	3.0	3.0	3.1	0.14	3.6
AMHE 63Z BA	2	0.25	0.33	2790	0.9	60.8	67.2	64.8	0.68	0.8	4.5	3.2	3.2	3.3	0.17	4.1
AMHE 63Z CA	2*	0.37	0.5	2750	1.3	59.1	66.2	69.5	0.69	1.1	4.6	3.4	3.3	3.4	0.20	4.4
AMHE 71Z XA	2	0.37	0.5	2810	1.3	67.5	71.6	69.5	0.77	1.0	4.7	3.6	3.4	3.6	0.32	5.8
AMHE 71Z YA	2	0.55	0.75	2780	1.9	72.9	76.7	74.1	0.80	1.3	4.8	3.2	3.1	3.3	0.37	6.2
AMHE 71Z AA	2*	0.75	1	2865	2.5	75.0	78.1	79.4	0.71	1.9	5.2	3.1	3.0	3.1	0.69	8.2
AMHE 80Z AA	2	0.75	1	2900	2.5	77.3	78.5	80.5	0.78	1.7	8.4	3.6	3.4	3.6	0.7	9.5
AMHE 80Z BA	2	1.1	1.5	2880	3.6	79.5	81.2	81.5	0.78	2.5	9.5	3.6	3.4	3.6	0.89	11.1
AMHE 80Z CA	2*	1.5	2	2880	5.0	80.5	82.1	82.4	0.78	3.4	7.8	3.5	3.4	3.6	1.1	13.5
AMHE 90S AA	2	1.5	2	2880	5.0	81.0	82.8	82.8	0.80	3.2	10.1	3.6	3.1	4.0	1.56	14.0
AMHE 90L CA	2	2.2	3	2860	7.3	82.5	84.0	84.0	0.85	4.4	10.1	3.5	3.2	3.7	1.8	16.0
AMHE 90L DA	2*	3	4	2880	9.9	85.0	86.0	85.6	0.82	6.1	9.9	3.5	3.3	3.8	2.0	18.0
AMHE 100L AA	2	3	4	2920	9.8	84.1	85.8	85.5	0.84	5.9	10.3	3.5	3.0	4.0	4.05	22.8
AMHE 100L BA	2*	4	5.5	2920	13.1	85.2	86.4	86.1	0.86	7.8	10.4	3.3	3.0	3.8	4.1	22.8
AMHE 112M AA	2	4	5.5	2940	13.0	85.5	87.0	86.8	0.88	7.6	10.7	2.9	2.1	3.3	6.48	27.4
AMHE 112M BA	2*	5.5	7.5	2920	18.0	85.8	87.4	87.3	0.88	10.4	9.9	3.0	2.1	3.2	8.58	34.0
AMHE 112M CA	2*	7.5	10	2900	24.7	86.5	88.3	88.3	0.87	14.2	9.1	3.0	2.2	3.4	10.50	36.0
AMHE 132S YA	2	5.5	7.5	2900	18.1	86.0	88.0	87.9	0.89	10.2	8.6	2.7	2.3	3.2	14.0	46.0
AMHE 132S ZA	2	7.5	10	2900	24.7	86.3	88.6	88.4	0.89	13.8	8.9	2.8	2.5	3.3	16.0	53.0
AMHE 132M ZA	2	9.2	12.5	2920	30.1	88.4	89.9	90.0	0.87	16.9	9.4	3.2	3	3.8	17.5	58.0
AMHE 132M RA	2*	11	15	2920	36.0	88.1	90.0	89.7	0.90	19.8	9.7	3.8	2.6	4.0	17.5	58.0
AMHE 132M TA	2*	15	20	2920	49.1	88.9	90.6	90.3	0.89	27.0	9.7	3.8	2.2	4.0	21.0	64.0
AMHE 160M YA	2	11	15	2930	35.9	88.9	90.2	90.0	0.87	20.4	9.3	2.4	2.2	3.1	51.75	77.0
AMHE 160M ZA	2	15	20	2930	48.9	90.0	91.0	90.8	0.88	27.2	9.6	2.5	2.3	3.1	55.4	87.1
AMHE 160L ZA	2	18.5	25	2935	60.2	90.3	91.6	91.2	0.88	33.3	9.6	2.8	2.4	3.4	59.7	97.5
AMHE 160L TA	2*	22	30	2935	71.6	91.0	91.7	91.5	0.89	38.6	9.9	3.0	2.6	3.7	64.0	108.7

* Higher output (progressive motor)

HIGH EFFICIENCY THREE-PHASE MOTORS – IE2

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

NOMINAL FULL LOAD EFFICIENCY ACCORDING TO IE2 CODE @ 400 V - 50 HZ; IE2 CODE @ 460 V - 60 HZ
AND NEMA MG 1 - TABLE 12-11 (EPACT) @ 460 V - 60 HZ

Performance data referred @ 400 V - 50 Hz. For performance data @ 460 V - 60 Hz, please consult us.

FOR MAINS VOLTAGE
400 V - 50 HZ
460 V - 60 HZ

IE2

TEMPERATURE RISE TO CLASS B

Type			HP	min ⁻¹	M _N Nm	IE2 η			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
	kW					50%	75%	100%								
1500 min ⁻¹ (4 poles)																
AMHE 63Z AA	4	0.12	0.16	1330	0.8	61.3	62.6	59.1	0.67	0.4	2.4	2.0	1.9	2.0	0.25	3.3
AMHE 63Z BA	4	0.18	0.25	1345	1.3	61.9	66.7	64.7	0.66	0.6	2.3	1.9	1.8	1.9	0.27	4.1
AMHE 63Z CA	4*	0.25	0.33	1356	1.8	67.3	71.3	68.5	0.65	0.9	2.7	2.2	2.0	2.1	0.30	4.2
AMHE 71Z AA	4	0.25	0.33	1390	1.8	67.0	71.2	68.5	0.77	0.7	3.2	1.9	1.8	2.0	0.65	5.7
AMHE 71Z BA	4	0.37	0.50	1410	2.6	68.4	73.3	72.7	0.70	1.0	3.3	2.2	2.1	2.2	0.76	6.0
AMHE 71Z CA	4*	0.55	0.75 ¹	1410	3.8	71.5	75.5	77.1	0.71	1.5	3.6	2.4	2.3	2.4	1.00	7.3
AMHE 80Z XA	4	0.55	0.75	1422	3.8	75.1	77.8	77.1	0.72	1.5	3.6	2.6	2.5	2.6	1.38	8.2
AMHE 80Z AA	4	0.75	1	1430	5.0	79.2	80.3	80.2	0.76	1.8	5.5	2.8	2.7	3.0	2.5	11.0
AMHE 90S AA	4	1.1	1.5	1430	7.3	81.4	82.7	82.5	0.77	2.5	6.1	4.0	3.9	4.1	3.73	18.0
AMHE 90L BA	4	1.5	2	1430	10.0	81.0	83.5	83.0	0.77	3.4	7.9	3.9	3.8	4.0	3.73	19.0
AMHE 100L AA	4	2.2	3	1450	14.5	84.0	85.3	85.1	0.74	5.1	6.0	3.2	3	3.4	5.58	22.4
AMHE 100L BA	4	3	4	1440	19.9	82.6	84.7	86.4	0.77	6.5	8.5	3.4	3.1	3.6	7.3	26.5
AMHE 112M AA	4	4	5.5	1450	26.3	86.0	87.3	87.1	0.78	8.5	6.1	3.1	2.8	3.3	13.3	30.4
AMHE 132S AA	4	5.5	7.5	1455	36.1	89.0	89.6	87.7	0.83	10.9	8.5	2.6	2.3	3.7	25.0	45.0
AMHE 132M BA	4	7.5	10	1460	49.1	90.0	90.5	88.7	0.83	14.6	8.2	2.6	2.4	3.7	30.0	55.0
AMHE 132M CA	4	9.2	12.5	1460	60.3	90.2	90.6	89.3	0.83	18.0	8.2	2.6	2.4	3.7	33.0	65.0
AMHE 132M DA	4*	11	15	1455	72.2	90.2	90.7	89.8	0.81	21.8	8.2	2.6	2.4	3.7	36.0	67.0
AMHE 160M AA	4	11	15	1470	71.3	91.4	92.0	91.3	0.81	22.0	8.2	2.1	1.7	2.8	69.0	90.0
AMHE 160L BA	4	15	20	1460	97.8	92.0	92.3	91.7	0.82	29.0	8.2	2.1	1.7	2.8	89.0	100.0
AMHE 160L CA	4	18.5	25	1460	122.0	92.4	92.5	91.8	0.83	35.2	8.2	2.1	1.7	2.8	105.0	105.0
AMHE 160L DA	4	22	30	1460	143.9	92.4	92.5	91.9	0.80	43.5	8.3	2.2	1.6	3.0	120.7	110.0

* Higher output (progressive motor)

HIGH EFFICIENCY THREE-PHASE MOTORS – IE2

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

FOR MAINS VOLTAGE
400 V - 50 HZ

IE2

TEMPERATURE RISE TO CLASS B

Type	kW		HP	min ⁻¹	M _N Nm	IE2 η			cos φ	I _N 400V	I _A /I _N	M _A /M _N	M _S /M _N	M _K /M _N	J	
						50%	75%	100%							10 ⁻³ kgm ²	kg
1000 min ⁻¹ (6 poles)																
AMEE 71Z AA	6	0.18	0.25	886	2.0	58.7	60.4	56.6	0.61	0.7	2.2	1.6	1.5	1.6	1.00	6.1
AMEE 71Z BA	6	0.25	0.33	860	2.7	62.0	62.7	61.6	0.65	0.9	2.5	1.7	1.6	1.7	1.19	6.6
AMEE 80Z AA	6	0.37	0.5	937	3.8	70.2	71.8	67.6	0.75	1.0	2.7	1.6	1.6	2.1	1.83	8.0
AMEE 80Z BA	6	0.55	0.75	922	5.7	66.9	71.2	73.1	0.74	1.5	2.9	2.2	2.1	2.1	2.36	9.4
AMEE 90S AA	6	0.75	1	925	7.7	75.3	75.8	76.2	0.65	2.2	4.6	1.7	1.6	1.8	4.78	15.0
AMEE 90L BA	6*	1.1	1.5	935	11.2	78.5	78.7	78.9	0.67	3.0	4.2	1.8	1.8	2.3	6.45	20.3
AMEE 100L AA	6	1.1	1.5	950	11.1	75.7	77.6	79.5	0.67	3.0	5.5	1.9	1.9	2.4	7.48	19.4
AMEE 100L BA	6	1.5	2	950	15.1	78.5	79.4	79.8	0.69	3.9	5.5	2.1	1.5	2.2	11.6	27.1
AMEE 112M AA	6	2.2	3	960	21.9	79.4	81.0	81.8	0.73	5.3	6.1	3.1	2.2	3.1	18.7	39.0
AMEE 132S YA	6	3	4	960	29.8	82.3	82.9	83.5	0.58	8.9	5.6	2.2	1.4	3.2	37.7	55.8
AMEE 132M YA	6	4	5.5	955	40.0	84.1	84.8	85.2	0.66	10.3	5.8	2.1	1.2	2.9	44.4	65.5
AMEE 132M TA	6*	5.5	7.5	970	54.1	85.0	86.2	86.5	0.75	12.2	7.0	1.9	1.1	2.7	54.1	64.1
AMEE 160M YA	6	5.5	7.5	975	53.9	84.7	85.6	86.1	0.78	11.7	7.4	2.3	2.3	3.0	75.2	70.5
AMEE 160M ZA	6	7.5	10	970	73.8	85.8	87.3	87.5	0.78	15.8	7.7	3.0	2.8	3.8	103	96.6
AMEE 160L ZA	6	9.2	12.4	965	91.0	86.3	87.4	88.2	0.83	18.1	8.3	3.1	2.7	3.5	125	103
AMEE 160L TA	6	11	15	965	108.9	87.9	88.2	88.7	0.79	22.5	8.0	2.7	2.4	3.2	156	129

* Higher output (progressive motor)

STANDARD EFFICIENCY THREE-PHASE MOTORS – IE1

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

FOR MAINS VOLTAGE
400 V - 50 HZ

IE1

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	IE1 η			cos φ	I_N		I_A/I_N	M_A/M_N	M_S/M_N	M_K/M_N	J	
						50%	75%	100%		400V	380-420V					10 ⁻³ kgm ²	kg
3000 min ⁻¹ (2 poles)																	
AM 56Z AA	2	0.09	0.12	2810	0.3	49.0	53.0	59.0	0.67	0.35	0.40	3.9	3.8	3.8	3.9	0.09	3.4
AM 56Z BA	2	0.12	0.16	2800	0.4	51.0	56.0	62.0	0.68	0.40	0.45	3.5	3.4	3.4	3.5	0.10	3.5
AM 63Z AA	2	0.18	0.25	2790	0.6	54	58	63.0	0.73	0.60	0.65	3.7	3.0	3.0	3.1	0.14	3.6
AM 63Z BA	2	0.25	0.33	2790	0.9	57	62	66.0	0.70	0.80	0.75	4.5	3.2	3.2	3.3	0.17	4.1
AM 63Z CA	2*	0.37 ¹⁾	0.50 ¹⁾	2800	1.3	54	58	65.0	0.70	1.20	1.25	4.6	3.4	3.3	3.4	0.20	4.4
AM 71Z AA	2	0.37	0.50	2820	1.3	58.0	64.0	70.0	0.78	1.0	1.2	4.7	3.6	3.4	3.6	0.32	5.8
AM 71Z BA	2	0.55	0.75	2830	1.9	57.0	64.0	71.0	0.77	1.5	1.6	4.8	3.2	3.1	3.3	0.37	6.2
AM 71Z CA	2*	0.75 ¹⁾	1 ¹⁾	2800	2.6	58.9	65.7	72.6	0.76	2.0	2.1	5.2	3.1	3.2	3.1	0.48	7.2
AM 80Z AA	2	0.75	1	2840	2.5	66.3	71.5	73.0	0.78	1.9	2.0	5.0	2.8	2.8	2.9	0.6	8.4
AM 80Z BA	2	1.1	1.5	2810	3.7	72.1	75.0	75.3	0.82	2.5	2.6	4.6	2.4	2.8	2.9	0.75	9.5
AM 80Z CA	2*	1.5 ¹⁾	2 ¹⁾	2825	5.1	74.7	77.5	77.8	0.83	3.3	3.4	5.0	2.9	3.0	3.3	1.92	11.1
AM 90S AA	2	1.5	2	2830	5.1	75.6	78.7	78.6	0.82	3.4	3.5	5.0	3.1	2.9	3.0	1.23	12.7
AM 90S BA	2*	1.8	2.5	2805	6.1	74.9	78.0	78.2	0.80	4.2	4.3	4.5	2.6	2.4	2.5	1.23	12.7
AM 90L CA	2	2.2	3	2860	7.3	81.5	82.8	81.8	0.81	4.9	4.9	7.1	4.1	3.6	4.0	1.68	16.0
AM 90L DA	2*	3 ¹⁾	4 ¹⁾	2860	10.0	78.7	81.8	82.2	0.80	6.6	6.8	7.2	3.9	3.4	3.8	2.16	18.7
AM 100L AA	2	3	4	2860	10.0	78.9	81.4	81.5	0.85	6.4	6.7	6.0	3.1	3.1	3.3	2.36	19.3
AM 100L BA	2*	4 ¹⁾	5.5 ¹⁾	2835	13.5	81.1	82.5	81.7	0.88	8.0	8.1	6.2	2.9	2.5	2.9	2.90	19.7
AM 100L CA	2*	5.5 ¹⁾	7.5 ¹⁾	2865	18.3	83.7	84.6	83.3	0.86	11.1	11.3	7.2	3.5	3.4	4.1	3.90	25.9
AM 112M AA	2	4	5.5	2880	13.3	81.9	84.0	83.5	0.82	8.4	8.7	8.0	3.4	3.5	3.6	4.65	24.3
AM 112M BA	2*	5.5	7.5	2900	18.1	83.6	84.7	85.0	0.86	10.9	11.2	7.8	3.5	3.4	3.6	5.80	27.4
AM 112M CA	2*	7.5	10	2900	24.7	86.7	87.8	87.1	0.87	14.3	14.8	8.7	4.0	3.9	4.0	8.50	33.6
AM 132S YA	2	5.5	7.5	2890	18.2	83.2	84.7	85.0	0.83	11.3	11.4	6.0	2.2	2.1	2.3	9.50	37.0
AM 132S ZA	2	7.5	10	2880	24.9	85.6	86.7	86.1	0.87	14.5	14.9	6.4	2.9	2.7	3.1	12.30	42.6
AM 132M ZA	2*	9.2	12.5	2900	30.3	84.7	86.8	87.0	0.84	18.4	18.8	7.0	2.8	2.4	3.2	13.20	48.0
AM 132M RA	2*	11	15	2880	36.5	87.1	88.1	88.0	0.85	21.3	21.7	6.9	3.2	2.8	3.8	16.00	52.5
AM 132M TA	2*	15 ¹⁾	20 ¹⁾	2920	49.1	86.4	88.6	88.9	0.83	29.5	30.5	7.0	3.2	2.8	3.7	21.20	59.0
AM 160M VA	2	11	15	2940	35.7	83.4	86.4	87.7	0.83	21.9	22.7	7.4	2.5	2.3	3.1	33.10	77.0
AM 160M XA	2	15	20	2940	48.7	87.3	88.9	88.9	0.85	28.6	29.2	8.1	3.1	2.6	3.7	43.90	94.0
AM 160L XA	2	18.5	25	2950	59.9	88.2	89.7	89.6	0.87	34.3	34.8	8.5	3.6	3.0	4.2	57.00	107.8
AM 160L RA	2*	22	30	2940	71.5	88.7	90.5	90.4	0.90	39.1	39.4	8.4	3.0	2.6	3.7	57.00	108.7

1) Temperature rise to class F

* Higher output (progressive motor)

STANDARD EFFICIENCY THREE-PHASE MOTORS – IE1

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

FOR MAINS VOLTAGE
400 V - 50 HZ

IE1

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	IE1 η			cos φ	I_N		I_A/I_N	M_A/M_N	M_S/M_N	M_K/M_N	J	
						50%	75%	100%		400V	380-420V					10 ⁻³ kgm ²	kg
1500 min ⁻¹ (4 poles)																	
AM 56Z AA	4	0.06	0.08	1300	0.4	42.0	44.0	48.0	0.70	0.28	0.32	2.6	2.1	2.0	2.1	0.14	2.7
AM 56Z BA	4	0.09	0.12	1330	0.6	43.0	47.0	51.0	0.74	0.35	0.40	2.5	2.2	2.1	2.2	0.16	2.9
AM 63Z AA	4	0.12	0.16	1350	0.8	46.0	50.0	57.0	0.65	0.50	0.55	2.4	2.0	1.9	2.0	0.25	3.3
AM 63Z BA	4	0.18	0.25	1330	1.3	47.0	50.0	58.0	0.70	0.65	0.70	2.3	1.9	1.8	1.9	0.27	4.1
AM 63Z CA	4*	0.25	0.33	1360	1.8	49.0	52.5	58.0	0.74	0.85	0.90	2.7	2.2	2.0	2.1	0.30	4.2
AM 71Z AA	4	0.25	0.33	1340	1.8	55.0	59.0	64.0	0.66	0.90	1.00	3.2	1.9	1.8	2.0	0.65	5.7
AM 71Z BA	4	0.37	0.50	1370	2.6	60.0	63.0	67.0	0.67	1.20	1.25	3.3	2.2	2.1	2.2	0.76	6.0
AM 71Z CA	4*	0.55 ¹⁾	0.75 ¹⁾	1380	3.8	61.0	64.0	69.0	0.68	1.70	1.80	3.6	2.4	2.3	2.4	1.00	7.3
AM 80Z AA	4	0.55	0.75	1400	3.8	67.0	69.0	70.0	0.72	1.6	1.7	3.6	2.6	2.5	2.6	1.38	8.2
AM 80Z BA	4	0.75	1	1410	5.1	68.7	70.8	72.4	0.72	2.1	2.2	4.4	2.8	2.3	2.8	1.78	9.3
AM 80Z CA	4*	1.1 ¹⁾	1.5 ¹⁾	1385	7.6	73.4	75.7	75.2	0.77	2.8	2.9	4.4	2.5	2.5	2.6	2.18	10.6
AM 90S AA	4	1.1	1.5	1400	7.5	75.8	76.0	75.4	0.78	2.7	2.9	5.2	2.5	2.4	2.8	2.20	12.5
AM 90L BA	4	1.5	2	1400	10.2	77.6	77.8	77.5	0.78	3.6	3.7	5.7	2.8	2.6	3.0	2.80	14.5
AM 90L CA	4	1.8 ¹⁾	2.5 ¹⁾	1380	12.5	76.3	76.5	75.9	0.81	4.2	4.3	5.5	2.7	2.5	2.9	3.35	14.5
AM 90L DA	4*	2.2 ¹⁾	3 ¹⁾	1400	15.0	78.3	78.5	77.9	0.77	5.3	5.5	4.8	2.9	2.8	3.2	3.65	17.0
AM 100L AA	4	2.2	3	1435	14.6	76.5	79.1	79.9	0.74	5.4	5.6	5.3	2.5	2.4	2.7	4.50	19.5
AM 100L BA	4	3	4	1425	20.1	82.0	83.0	81.6	0.78	6.8	6.9	4.6	2.4	2.3	2.5	5.75	22.5
AM 100L CA	4*	4 ¹⁾	5.5 ¹⁾	1400	27.3	80.8	81.8	80.4	0.78	9.2	9.3	6.0	2.6	2.4	2.9	6.30	25.0
AM 112M AA	4	4	5.5	1430	26.7	83.2	83.9	83.1	0.82	8.5	8.8	6.3	2.2	2.0	2.8	10.70	29.5
AM 112M BA	4*	5.5 ¹⁾	7.5 ¹⁾	1430	36.7	84.1	84.8	84.0	0.83	11.4	11.7	6.5	2.2	2.0	2.9	13.50	34.0
AM 132S AA	4	5.5	7.5	1460	36.1	85.1	86.8	84.7	0.84	11.0	11.5	7.0	2.6	2.3	3.0	21.20	41.9
AM 132M BA	4	7.5	10	1460	49.7	85.8	87.6	86.0	0.84	14.9	15.5	8.2	2.6	2.4	3.7	27.80	51.0
AM 132M CA	4	9.2	12.5	1455	60.3	86.5	87.5	86.9	0.83	18.3	18.9	8.2	2.6	2.4	3.7	31.50	65.0
AM 132M DA	4*	11 ¹⁾	15 ¹⁾	1450	72.4	84.7	86.5	87.6	0.79	23.0	23.5	8.2	2.6	2.4	3.7	31.50	65.0
AM 160M AA	4	11	15	1470	71.9	87.0	88.9	87.6	0.82	22.0	22.7	8.2	2.1	1.7	2.8	69.00	90.0
AM 160L BA	4	15	20	1465	98.1	88.1	89.6	88.7	0.84	29.0	29.6	8.1	2.1	1.7	2.8	89.00	100.0
AM 160L CA	4*	18.5	25	1460	121.8	88.9	90.1	89.3	0.84	35.5	36.0	8.2	2.1	1.7	2.8	105.00	105.0
AM 160L DA	4*	22	30	1460	143.9	89.0	90.1	89.9	0.86	41.0	42.0	8.2	2.1	1.7	2.8	120.70	110.0

1) Temperature rise to class F

* Higher output (progressive motor)

STANDARD EFFICIENCY THREE-PHASE MOTORS – IE1

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

FOR MAINS VOLTAGE
400 V - 50 HZ

IE1

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	IE1 η			$\cos \varphi$	I_N		I_A/I_N	M_A/M_N	M_S/M_N	M_K/M_N	J 10 ⁻³ kgm ²	kg
1000 min ⁻¹ (6 poles)																	
AM 71Z AA	6	0.18	0.25	880	2.0	46.0	48.0	53.0	0.60	0.85	0.9	2.2	1.6	1.5	1.6	1.00	6.1
AM 71Z BA	6	0.25 ¹⁾	0.33 ¹⁾	880	2.7	46.0	50.0	54.0	0.62	1.10	1.2	2.5	1.7	1.6	1.7	1.19	6.6
AM 80Z AA	6	0.37	0.5	920	3.8	47.0	58.0	60.0	0.70	1.25	1.3	2.7	1.6	1.6	2.1	1.83	8.0
AM 80Z BA	6	0.55	0.75	920	5.7	60.0	64.0	68.0	0.67	1.75	1.8	2.9	2.2	2.1	2.1	2.36	9.4
AM 90S AA	6	0.75	1	910	7.9	70.5	72.5	71.5	0.63	2.4	2.5	2.9	1.7	1.5	1.7	2.90	11.6
AM 90L BA	6	1.1	1.5	920	11.4	72.0	73.5	73.0	0.66	3.3	3.4	3.0	1.7	1.5	1.7	4.38	15.0
AM 100L AA	6	1.5	2	930	15.4	73.3	75.8	75.3	0.69	4.2	4.4	3.7	1.8	1.8	2.3	6.35	17.5
AM 100L BA	6	1.8	2.5	940	18.3	74.6	77.1	76.6	0.67	5.1	5.3	4.2	2.4	2.4	2.8	9.00	22.0
AM 112M AA	6	2.2	3	940	22.4	77.0	79.0	78.0	0.74	5.3	5.4	4.4	2.4	2.4	2.6	12.85	26.0
AM 112M CA	6*	3	4	940	30.5	81.8	82.8	82.8	0.74	7.0	7.2	5.3	2.9	2.9	2.9	17.90	39.0
AM 132S ZA	6	3	4	950	30.2	79.5	81.5	81.3	0.72	7.4	7.5	4.9	2.0	1.8	2.4	21.40	36.7
AM 132M YA	6	4	5.5	950	40.2	81.4	83.1	82.7	0.71	9.9	10.5	4.5	2.2	2.0	2.5	28.90	42.5
AM 132M ZA	6	5.5	7.5	950	55.3	82.2	83.6	83.6	0.71	13.5	13.5	4.1	2.2	1.9	2.2	37.40	55.5
AM 132M TA	6*	7.5 ¹⁾	10 ¹⁾	960	74.6	82.8	83.5	82.9	0.75	17.4	17.6	5.0	2.3	1.9	2.8	46.70	64.1
AM 160M ZA	6	7.5	10	970	73.8	84.4	86.5	86.3	0.78	16.0	16.3	6.2	2.8	2.7	3.2	103	96.6
AM 160L ZA	6	11	15	960	109.4	88.1	88.5	87.8	0.78	23.4	24.0	6.0	2.5	2.2	3.5	136	113.6

1) Temperature rise to class F

* Higher output (progressive motor)

EFFICIENCY TESTING METHOD IEC 60034-2-1;1996

Type		kW	HP	min ⁻¹	M _N Nm	η			$\cos \varphi$	I_N		I_A/I_N	M_A/M_N	M_S/M_N	M_K/M_N	J 10 ⁻³ kgm ²	kg
750 min ⁻¹ (8 poles)																	
AM 71Z AA	8	0.12	0.16	670	1.7	40	44	50	0.55	0.65	0.7	2.4	2.5	2.4	2.5	0.76	6.0
AM 80Z AA	8	0.25	0.33	680	3.5	40	47	51	0.62	1.1	1.2	2.2	1.8	1.9	2.0	1.83	8.0
AM 90S AA	8	0.37	0.5	680	5.2	52	58	59	0.53	1.7	1.8	2.1	1.4	1.3	1.6	2.91	11.4
AM 90L BA	8	0.55	0.75	680	7.7	52	58	59	0.54	2.5	2.7	2.1	1.4	1.3	1.6	4.40	15.0
AM 100L AA	8	0.75	1	690	10.4	59	64	65	0.65	2.6	2.8	3.0	1.6	1.5	1.7	6.35	17.6
AM 100L BA	8	1.1	1.5	690	15.2	59	67	68	0.62	3.9	4.0	3.0	1.9	1.3	1.6	9.00	22.6
AM 112M AA	8	1.5	2	696	20.6	66	69	70	0.66	4.6	4.8	4.0	1.8	2.0	2.4	15.35	35.0
AM 132S ZA	8	2.2	3	710	29.6	79.3	80.5	78.8	0.64	6.4	6.6	3.4	1.7	1.6	1.7	28.90	45.5
AM 132M ZA	8	3	4	710	40.4	81.3	82.0	79.8	0.67	8.1	9.2	3.6	1.7	1.6	1.9	37.40	54.5
AM 160M YA	8	4	5.5	700	54.6	84.9	84.5	84.4	0.72	9.5	9.7	4.5	1.8	1.6	2.2	76.70	75.0
AM 160M ZA	8	5.5	7.5	720	72.9	85.6	85.2	85.0	0.73	12.8	13.3	4.0	1.8	1.6	2.3	103.70	92.0
AM 160L ZA	8	7.5	10	710	100.9	86.3	85.8	85.5	0.74	17.1	17.8	4.0	1.8	1.6	2.3	136.00	113

THREE-PHASE TWO SPEED MOTORS

DESIGNED FOR RANGE
OF RATED VOLTAGE
380-420 V $\pm$ 5% - 50 HZ

FOR MAINS VOLTAGE
400 V - 50 HZ

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N		I _A /I _N	M _A /M _N	J 10 ⁻³ kgm ²	kg
1500/3000 min ⁻¹ (4/2 poles) - Dahlander connection Δ/YY													
AM 63Z AA	4/2	0.20/0.30	0.27/0.40	1345/2700	1.4/1.1	56/65	0.65/0.81	0.8/0.83	0.89/0.88	2.4/3.2	2.1/2.1	0.40	4.6
AM 71Z AA	4/2	0.30/0.45	0.40/0.65	1374/2830	2.1/1.5	61/66	0.78/0.73	1.0/1.35	1.2/1.5	3.3/3.0	2.3/2.1	0.76	6.3
AM 80Z AA	4/2	0.45/0.60	0.65/0.80	1390/2760	3.1/2.1	64/68.8	0.75/0.80	1.4/1.6	1.5/1.7	3.8/4.0	2.3/2.2	1.58	8.3
AM 80Z BA	4/2	0.55/0.75	0.75/1.0	1435/2850	3.7/2.5	70/71.2	0.67/0.77	1.7/2.0	1.8/2.1	4.5/5.0	2.6/2.8	2.00	11.5
AM 80Z CA	4/2	0.8/1.1	1.1/1.5	1425/2830	5.4/3.7	76.1/77.2	0.70/0.79	2.2/2.6	2.5/2.8	4.5/4.9	2.5/2.7	2.41	14.7
AM 90L AA	4/2	1.2/1.55	1.6/2.1	1435/2850	8/5.2	77.4/78.3	0.71/0.79	3.2/3.7	3.4/3.9	4.7/5.1	2.6/2.7	3.10	15.6
AM 90L BA	4/2	1.6/2.0 ¹⁾	2.15/2.7 ¹⁾	1390/2810	11/6.8	73.5/75.5	0.78/0.86	4.0/4.6	4.1/4.7	4.1/5.5	2.7/2.6	3.73	17.1
AM 100L AA	4/2	1.8/2.5	2.5/3.35	1420/2865	12.1/8.3	78.5/77.4	0.76/0.84	4.5/5.6	4.7/5.8	5.2/5.5	2.2/2.2	4.60	21.4
AM 100L BA	4/2	2.2/3.0	3.0/4.0	1410/2830	14.9/10.1	74.6/71.4	0.72/0.82	5.9/7.4	6.1/7.7	4.2/4.3	1.8/2.0	4.60	22.5
AM 100L CA	4/2	2.6/3.3	3.5/4.4	1430/2890	17.4/10.9	82.6/78.6	0.78/0.76	5.9/8.0	6.1/8.5	4.7/5.5	1.9/2.2	5.58	23.2
AM 112M AA	4/2	3.3/4.4	4.4/5.9	1410/2800	22.4/15	77.4/75.4	0.82/0.85	7.5/9.9	7.8/10.6	4.5/5.1	2.1/2.4	13.30	36.1
AM 132S ZA	4/2	4.4/5.5	6.0/7.5	1450/2925	29/18	83.0/84.6	0.70/0.87	11.0/10.8	12.0/11.8	4.4/7.2	2.2/2.7	13.83	42.6
AM 132M ZA	4/2	6.6/8.1	9.0/11.0	1460/2920	43.2/26.5	85.4/84.5	0.76/0.90	14.7/15.4	15.5/16.4	5.5/7.5	2.6/2.9	17.13	51.4
AM 160M ZA	4/2	8.8/11.0	12.0/15.0	1460/2940	57.6/35.7	87.1/87.5	0.79/0.91	18.5/20.0	19.0/21.0	5.5/7.5	2.0/1.9	51.75	94.0
AM 160L ZA	4/2	12.5/15.0	17.0/20.4	1470/2955	81.2/48.5	89.4/90.0	0.74/0.90	27.4/26.8	29.0/28.2	4.8/7.4	2.1/2.3	64.00	108.7

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V380-420V		I _A /I _N	M _A /M _N	J 10 ⁻³ kgm ²	kg
750/1500 min ⁻¹ (8/4 poles) - Dahlander connection Δ/YY													
AM 71Z AA	8/4	0.09/0.15	0.12/0.20	610/1310	1.4/1.1	40/56	0.61/0.75	0.53/0.52	0.59/0.57	2.5/3.2	1.6/1.6	0.71	6.3
AM 80Z AA	8/4	0.18/0.37	0.25/0.50	700/1370	2.5/2.6	43.2/58.7	0.63/0.83	1.0/1.1	1.1/1.2	2.6/3.4	1.8/1.6	1.97	7.9
AM 80Z BA	8/4	0.26/0.51	0.35/0.68	700/1360	3.5/3.6	44.1/61.2	0.60/0.88	1.2/1.4	1.3/1.5	2.5/3.6	2.0/1.6	2.47	9.2
AM 90S AA	8/4	0.37/0.75	0.50/1.0	690/1385	5.1/5.2	52.2/67.1	0.58/0.82	1.8/2.0	1.9/2.1	2.8/3.9	1.9/1.8	3.18	13.5
AM 90L BA	8/4	0.5/1.0	0.67/1.34	690/1410	6.9/6.8	52.2/72.5	0.58/0.80	2.4/2.4	2.5/2.5	3.3/4.0	2.3/1.9	4.78	15.7
AM 100L AA	8/4	0.7/1.4	0.94/1.9	700/1440	9.5/9.3	57.2/78.5	0.50/0.78	3.5/3.3	3.7/3.4	2.8/4.3	2.1/1.9	5.58	21.9
AM 100L BA	8/4	0.9/1.8 ¹⁾	1.2/2.5 ¹⁾	690/1415	12.5/12.1	62/76	0.56/0.87	3.8/4.0	4.0/4.3	2.5/4.5	1.9/1.8	6.00	23.7
AM 112M AA	8/4	1/1.8	1.34/2.5	710/1445	13.5/11.9	66.1/78.5	0.61/0.82	4.1/4.1	4.4/4.2	3.9/6.3	2.2/2.1	14.18	31.7
AM 112M BA	8/4	1.3/2.6 ¹⁾	1.75/3.0 ¹⁾	705/1420	17.6/17.5	70.0/76.3	0.65/0.88	4.6/5.7	4.8/5.9	3.2/4.8	2.1/2.0	16.70	34.2
AM 132S ZA	8/4	2.1/3.7	2.9/5.0	710/1440	28.2/24.5	70.2/76.1	0.66/0.84	6.5/8.4	6.7/8.6	4.0/5.2	1.9/1.7	29.50	42.5
AM 132M ZA	8/4	2.6/4.8	3.5/6.5	715/1450	34.7/31.6	71.6/78.8	0.60/0.80	8.8/11.0	9.8/12.0	4.3/5.5	2.3/1.8	37.75	55.5
AM 160M YA	8/4	4.0/6.3	5.5/8.6	710/1410	53.8/42.7	80.0/81.0	0.64/0.88	11.3/12.8	12.3/13.5	4.6/6.5	1.8/ 1.7	81.25	88.5
AM 160L YA	8/4	4.8/7.5	6.5/10.0	730/1470	62.8/48.7	80.0/85.0	0.65/0.85	13.2/15.0	14.0/16.0	4.5/6.5	1.8/1.6	105.75	106.5
AM 160L ZA	8/4	5.9/10.3	8.0/14.0	725/1450	77.7/67.8	81.0/87.0	0.66/0.88	16.1/19.5	17.0/20.4	5.0/6.0	1.9/1.6	127.50	110.5

1) Temperature rise to class F

THREE-PHASE TWO SPEED MOTORS

DESIGNED FOR RANGE
OF RATED VOLTAGE
380-420 V $\pm$ 5% - 50 HZ

FOR MAINS VOLTAGE
400 V - 50 HZ

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V 380-420V		I_A/I_N	M_A/M_N	J 10 ⁻³ kgm ²	kg
1500/1000 min ⁻¹ (4/6 poles) - separate windings													
AM 71Z AA	4/6	0.22/0.15	0.30/0.20	1430/900	1.5/1.6	61/44	0.7/0.64	0.78/0.68	0.83/0.73	1.9/3.4	1.5/1.8	0.73	6.2
AM 80Z AA	4/6	0.37/0.26	0.50/0.35	1385/905	2.6/2.7	61.4/48.1	0.82/0.80	1.1/1.0	1.1/1.1	3.7/2.6	1.7/1.3	1.97	8.3
AM 80Z BA	4/6	0.55/0.37	0.75/0.50	1380/900	3.8/3.9	60.5/51.1	0.64/0.82	1.5/1.3	1.6/1.4	3.7/2.7	1.6/1.2	2.47	10.0
AM 90S AA	4/6	0.75/0.5	1.0/0.67	1400/930	5.1/5.1	63/64	0.81/0.61	2.2/1.9	2.3/2.1	3.0/3.5	1.4/1.8	4.10	13.4
AM 90L BA	4/6	1/0.65	1.34/0.87	1380/920	6.9/6.7	68.8/67.1	0.81/0.62	2.6/2.3	2.8/2.5	2.9/3.4	1.1/1.6	4.78	16.4
AM 100L AA	4/6	1.2/0.8	1.6/1.07	1460/940	7.8/8.1	76.0/67.9	0.66/0.70	3.5/2.5	3.8/2.6	4.7/3.0	2.1/1.5	4.60	24.4
AM 100L BA	4/6	1.6/1.0	2.15/1.34	1445/935	10.6/10.2	77.6/69.5	0.73/0.63	4.1/3.3	4.3/3.5	5.8/3.0	2.8/1.7	5.58	33.2
AM 112M AA	4/6	1.8/1.3	2.5/1.75	1445/950	11.9/13.1	74.6/69.5	0.85/0.78	4.2/3.6	4.4/3.7	5.9/3.8	1.9/1.3	14.18	33.3
AM 112M BA	4/6	2.6/1.85	3.5/2.5	1445/950	17.2/18.6	73.8/71.6	0.86/0.73	6.0/5.2	6.2/5.4	6.1/4.4	2.0/1.7	17.53	37.0
AM 132S ZA	4/6	3.1/2.2	4.2/3.0	1440/965	20.6/21.8	80/78	0.80/0.74	7/5.5	7.5/6	5.8/5.6	2.1/2.0	22.4	41.9
AM 132M ZA	4/6	4.0/2.6	5.5/3.5	1470/975	26/25.5	81.0/79.3	0.83/0.74	8.6/6.4	9.3/7.0	7.7/5.2	2.0/1.9	29.25	51.0
AM 160M YA	4/6	5.5/3.7	7.5/5.0	1480/970	35.5/36.4	84.0/81.4	0.79/0.73	12.0/9.0	12.9/9.6	7.5/4.5	2.5/1.6	81.25	88.5
AM 160M ZA	4/6	7.5/4.8	10.2/6.5	1465/960	48.9/47.7	85.0/82.6	0.83/0.75	15.4/11.2	15.8/11.5	7.4/4.6	2.4/1.6	81.25	88.5
AM 160L ZA	4/6	11.0/6.6	15.0/9.0	1470/960	71.5/65.7	86.0/83.8	0.86/0.75	21.6/15.2	22.5/16.0	7.2/5.0	2.3/1.8	105.75	106.5

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V 380-420V		I_A/I_N	M_A/M_N	J 10 ⁻³ kgm ²	kg
1000/750 min ⁻¹ (6/8 poles) - separate windings													
AM 80Z AA	6/8	0.37/0.18	0.50/0.25	915/700	3.9/2.5	51.1/44.2	0.81/0.65	1.3/1.0	1.4/1.0	2.8/2.5	1.4/1.7	2.47	9.5
AM 90L AA	6/8	0.55/0.30	0.75/0.40	950/710	5.5/4	65.2/45.1	0.62/0.52	2.0/1.8	2.1/1.9	3.9/2.6	2.5/1.9	4.78	16.2
AM 100L AA	6/8	0.75/0.45	1.0/0.60	960/720	7.5/6	72.6/61.8	0.67/0.54	2.2/2.0	2.3/2.1	4.1/2.9	1.9/1.9	6.73	23.4
AM 112M AA	6/8	0.95/0.65	1.3/0.90	965/715	9.4/8.7	65.2/62.1	0.78/0.70	3.0/2.2	3.2/2.3	4.5/3.8	1.4/1.7	14.18	32.0
AM 112M BA	6/8	1.5/0.75	2.0/1.0	970/720	14.8/9.9	75.3/64.6	0.66/0.60	4.4/2.8	4.6/3.0	4.6/3.8	2.2/2.1	18.70	36.2
AM 132S ZA	6/8	2.2/1.2	3.0/1.6	970/730	21.7/15.7	73.5/66.0	0.69/0.60	6.3/4.4	6.6/4.8	4.5/3.7	1.6/1.7	29.5	42.5
AM 132M ZA	6/8	3.0/1.7	4.1/2.3	980/730	29.2/22.2	78.2/72.5	0.72/0.64	7.7/5.3	8.2/5.9	5.4/4.3	1.7/1.7	37.75	55.5
AM 160M YA	6/8	4.8/2.6	6.5/3.5	970/730	47.3/34	83.0/74.0	0.80/0.70	10.5/7.3	11.0/7.7	4.8/3.6	1.9/1.8	112.7	88.0
AM 160L ZA	6/8	5.9/3.3	8.0/4.5	970/730	58.1/43.2	83.2/73.0	0.76/0.60	13.5/10.9	14.5/11.4	6.5/5.0	2.2/2.1	150.25	97.5

THREE-PHASE TWO SPEED MOTORS FOR CENTRIFUGAL MACHINES

DESIGNED FOR RANGE
OF RATED VOLTAGE
380-420 V $\pm$ 5% - 50 HZ

FOR MAINS VOLTAGE
400 V - 50 HZ

TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V 380-420V		I _A /I _N	M _A /M _N	J 10 ⁻³ kgm²	kg
1500/3000 min ⁻¹ (4/2 poles) - Dahlander connection Y/YY													
AMV 63Z AA	4/2	0.07/0.33	0.095/0.45	1350/2700	0.5/1.2	55/60	0.70/0.80	0.25/0.95	0.27/1.1	2.5/2.6	1.8/1.6	0.37	5.0
AMV 71Z AA	4/2	0.08/0.37	0.11/0.5	1350/2870	0.6/1.2	60/64	0.65/0.68	0.30/1.3	0.35/1.4	3.2/4.3	2.0/2.8	0.82	7.9
AMV 71Z BA	4/2	0.12/0.55	0.16/0.75	1430/2835	0.8/1.9	70/68	0.65/0.72	0.40/1.6	0.42/1.7	4.1/4.0	3/2.8	1.08	10.0
AMV 80Z AA	4/2	0.15/0.75	0.2/1.0	1400/2710	1/2.6	70/68	0.68/0.80	0.45/1.9	0.45/2.0	2.6/4.6	2.8/2.9	1.58	8.3
AMV 80Z BA	4/2	0.22/1.1	0.3/1.5	1420/2820	1.5/3.7	70/73	0.75/0.84	0.6/2.5	0.65/2.6	4.6/4.7	2.7/2.9	2.0	11.5
AMV 90L AA	4/2	0.30/1.5	0.4/2.0	1400/2830	2/5.1	69/70	0.70/0.84	0.9/3.5	1.0/3.7	4.7/5.0	2.7/3.0	3.13	15.6
AMV 90L BA	4/2	0.44/2.2	0.6/3.0	1430/2830	2.9/7.4	74/72	0.76/0.89	1.1/4.8	1.2/5.0	4.5/5.2	2.6/2.8	3.73	17.1
AMV 100L AA	4/2	0.50/2.5	0.67/3.3	1430/2840	3.3/8.4	72/73	0.77/0.88	1.3/5.3	1.4/5.6	4.6/5.0	2.2/2.3	4.6	21.4
AMV 100L BA	4/2	0.60/3.0	0.8/4.0	1440/2850	4/10.1	78/77	0.79/0.87	1.3/6.2	1.4/6.5	4.5/4.5	2.2/2.1	5.58	23.2
AMV 112M AA	4/2	0.75/3.70	1.0/5.0	1440/2850	5/12.4	74/72	0.80/0.90	1.7/7.9	1.9/2.2	4.5/5.1	2.0/2.4	13.3	36.1
AMV 112M BA	4/2	0.9/4.5	1.2/6.1	1440/2850	6/15.1	75/73	0.82/0.90	2.0/9.5	2.1/9.8	4.5/5.5	2.0/2.3	14.75	40.0
AMV 132S AA	4/2	1.1/5.5	1.5/7.5	1440/2880	7.3/18.2	81.5/84.8	0.78/0.90	2.5/10.4	2.6/11.0	5.0/6.0	2.1/2.8	13.83	42.6
AMV 132S BA	4/2	1.5/7 ¹⁾	2/9.5 ¹⁾	1440/2900	9.9/23.1	82.0/86.0	0.78/0.92	3.4/12.8	3.8/13.0	5.3/6.5	2.2/2.9	13.83	42.6
AMV 132M CA	4/2	1.9/8.0	2.6/10.9	1450/2930	12.5/26.1	83.7/88.0	0.82/0.87	4.0/15.1	4.0/16.0	5.5/7.0	2.2/3.0	17.13	51.4
AMV 160M AA	4/2	2.8/11	3.8/15.0	1440/2940	18.6/35.7	82.5/88.2	0.78/0.90	6.3/20.0	7.0/20.4	5.0/7.5	2.0/2.1	51.75	94
AMV 160M BA	4/2	3.3/13.5 ¹⁾	4.5/18.3 ¹⁾	1440/2920	21.9/44.2	83.0/88.5	0.80/0.92	7.2/24.0	7.5/24.0	5.5/7.5	2.0/2.2	51.75	94
AMV 160L CA	4/2	4.4/18.5 ¹⁾	6.0/25.1 ¹⁾	1450/2940	29/60.1	85.5/89.5	0.83/0.92	9.0/32.5	9.5/33.0	5.5/7.5	2.0/2.2	64.0	108.7
Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V 380-420V		I _A /I _N	M _A /M _N	J 10 ⁻³ kgm²	kg
750/1500 min ⁻¹ (8/4 poles) - Dahlander connection Y/YY													
AMV 71Z AA	8/4	0.08/0.37	0.11/0.5	660/1370	1.2/2.6	26/57	0.63/0.72	0.60/1.25	0.65/1.35	2.8/3.4	1.9/1.7	1.24	6.8
AMV 80Z AA	8/4	0.12/0.55	0.16/0.75	685/1420	1.7/3.7	50/69	0.60/0.74	0.58/1.53	0.65/1.6	1.9/3.3	1.4/1.5	2.47	9.2
AMV 80Z BA	8/4	0.18/0.75	0.25/1.0	660/1380	2.6/5.2	53/67	0.73/0.81	0.65/1.9	0.7/2.0	2.0/3.5	1.6/1.7	2.41	10.6
AMV 90L AA	8/4	0.18/1.1	0.25/1.5	680/1400	2.5/7.5	60/70	0.65/0.82	0.9/2.7	1.0/2.8	2.8/4.0	1.5/2.0	2.98	15.7
AMV 90L CA	8/4	0.4/1.6	0.54/2.15	675/1400	5.7/10.9	61.5/75	0.64/0.79	1.8/4.0	1.8/4.1	3.1/5.0	1.6/2.2	3.70	19.6
AMV 100L AA	8/4	0.45/2.2	0.60/3.0	680/1420	6.3/14.8	63.1/75.3	0.60/0.80	1.7/5.0	1.9/5.3	2.7/4.7	1.7/2.0	5.58	21.9
AMV 100L BA	8/4	0.6/2.6	0.80/3.5	680/1435	8.4/17.3	64.0/76.2	0.63/0.75	2.2/6.5	2.3/6.7	2.7/4.8	1.7/2.2	6.00	23.7
AMV 112M AA	8/4	0.7/3.3	0.94/4.5	690/1420	9.7/22.2	62/78	0.70/0.80	2.2/7.4	2.3/7.6	3.4/6.5	1.8/2.4	16.70	34.2
AMV 112M CA	8/4	1.0/4.0	1.34/5.5	720/1420	13.3/26.9	60/77	0.70/0.82	3.1/8.6	3.3/9.0	3.5/5.0	2.3/1.9	19.50	40.0
AMV 132S AA	8/4	1.1/4.5	1.5/6.1	725/1450	14.5/29.6	77.0/85.5	0.58/0.82	3.6/9.3	4.0/9.7	3.5/5.4	2.2/2.7	22.4	41.9
AMV 132M BA	8/4	1.4/5.5	1.9/7.5	720/1440	18.6/36.5	78.0/86.0	0.62/0.82	4.2/11.3	4.5/12	3.6/5.5	2.0/2.5	29.25	51.0
AMV 132M CA	8/4	1.8/7.5	2.4/10.2	720/1450	23.9/49.4	78.2/86.5	0.64/0.86	5.2/14.6	5.5/15.0	4.6/6.0	2.0/2.5	37.25	65.0
AMV 160M ZA	8/4	2.2/10.0	3.0/13.0	720/1450	29.2/65.9	80.0/88.0	0.61/0.83	6.6/19.9	6.8/20.4	3.5/6.0	1.8/1.7	81.25	88.5
AMV 160L ZA	8/4	3.2/15.0 ¹⁾	4.3/20.0 ¹⁾	720/1450	42.4/98.8	81.0/90.0	0.61/0.88	9.4/27.3	9.8/28	3.5/6.5	1.7/1.8	105.75	106.5

1) Temperature rise to class F

THREE-PHASE TWO SPEED MOTORS FOR CENTRIFUGAL MACHINES

DESIGNED FOR RANGE
OF RATED VOLTAGE
380-420 V $\pm$ 5% - 50 HZ

FOR MAINS VOLTAGE
400 V - 50 HZ

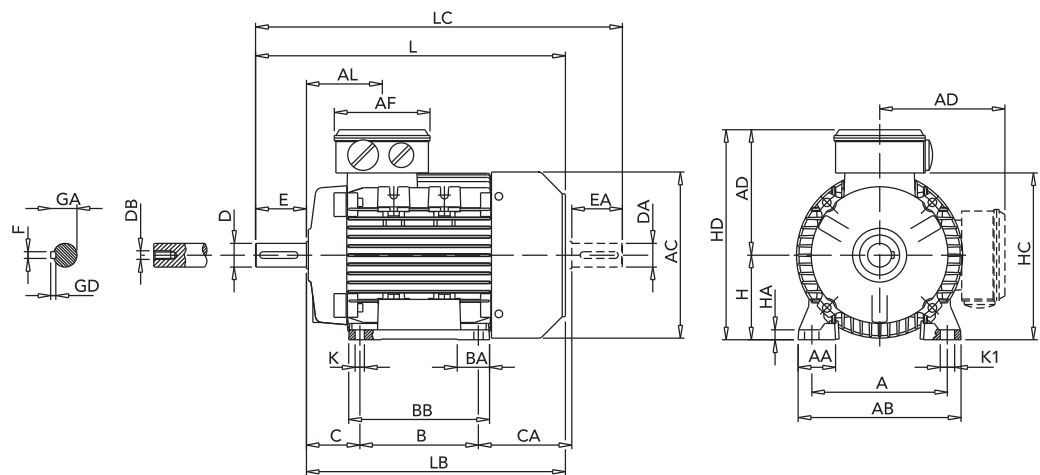
TEMPERATURE RISE TO CLASS B

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V 380-420V		I _A /I _N	M _A /M _N	J 10 ⁻³ kgm ²	kg
1500/1000 min ⁻¹ (4/6 poles) - separate windings													
AMV 71Z AA	4/6	0.25/0.08	0.33/0.11	1370/900	1.7/0.4	60/40	0.80/0.70	0.75/0.4	0.8/0.45	3.0/2.5	1.6/1.6	1.15	6.7
AMV 71Z BA	4/6	0.37/0.13	0.50/0.18	1360/880	2.6/1.4	62/44	0.80/0.70	1.0/0.6	1.1/0.7	3.2/2.6	1.6/1.6	1.24	7.2
AMV 80Z AA	4/6	0.55/0.18	0.75/0.25	1380/920	3.8/1.9	60/42	0.83/0.82	1.60/0.75	1.7/0.8	3.5/2.4	1.6/1.0	1.97	8.3
AMV 80Z BA	4/6	0.75/0.25	1.0/0.33	1400/940	5.1/2.5	70/60	0.82/0.72	1.8/0.8	1.9/0.9	4.2/2.6	1.6/1.3	4.05	14
AMV 90S AA	4/6	0.75/0.24	1.0/0.32	1400/950	5.1/2.4	70/60	0.82/0.72	1.9/0.8	2.0/0.9	4.2/2.6	1.6/1.3	4.05	14
AMV 90L BA	4/6	1.1/0.37	1.5/0.50	1400/930	7.5/3.8	70/60	0.81/0.74	2.8/1.2	3.0/1.3	4.3/2.7	1.6/1.2	4.78	16.4
AMV 90L CA	4/6	1.5/0.5	2.0/0.67	1420/950	10.1/5	73/64	0.80/0.70	3.52/1.52	3.7/1.6	4.8/2.6	1.5/1.3	5.98	20.5
AMV 100L AA	4/6	1.85/0.60	2.5/0.75	1400/920	12.6/6.2	74/64	0.80/0.73	4.6/1.9	4.8/2.1	4.8/3.1	1.8/1.5	6.73	23.4
AMV 100L BA	4/6	2.2/0.75	3.0/1.0	1420/950	14.8/7.5	76/66	0.79/0.75	5.1/2.1	5.3/2.2	5.0/3.5	1.7/1.3	9.25	22.6
AMV 112M AA	4/6	3/1.0	4.0/1.34	1440/970	19.9/9.8	80/73	0.81/0.65	6.6/3.0	6.8/3.2	5.8/4.6	2.5/2.1	13.3	30.4
AMV 132S AA	4/6	3.8/1.3	5.2/1.8	1460/970	24.9/12.8	85.0/75.0	0.8/0.72	8.1/3.5	8.5/4	6.5/4.0	2.2/1.7	22.4	41.9
AMV 132M BA	4/6	4.4/1.5	6.0/2.0	1460/970	28.8/14.8	86.0/78.2	0.85/0.73	8.7/3.8	9.2/4.3	6.5/4.4	2.2/1.7	29.25	51.0
AMV 132M CA	4/6	5.5/1.8	7.5/2.4	1460/970	36/17.7	86.8/80.0	0.84/0.74	10.9/4.4	12.0/4.	7.0/4.7	2.6/1.8	37.25	65.0
AMV 132M DA	4/6	6.3/2.2 ¹⁾	8.6/3.0 ¹⁾	1460/970	41.2/21.7	86.8/81.0	0.84/0.73	12.5/5.4	13.5/5.	7.2/4.8	2.6/1.9	37.25	66.0
AMV 160M AA	4/6	7.5/2.5	10.0/3.4	1470/975	48.7/24.5	87.5/83.0	0.83/0.75	14.9/5.8	15.6/6.0	8.3/4.5	2.5/1.9	81.25	88.5
AMV 160L BA	4/6	11.0/3.7	15.0/5.0	1470/970	71.5/36.4	88.0/84.2	0.81/0.73	22.5/8.7	23.4/9.0	8.0/4.8	2.4/1.8	105.75	106.5
AMV 160L CA	4/6	13.0/4.0 ¹⁾	17.7/5.4 ¹⁾	1460/970	85/39.4	88.0/84.5	0.81/0.72	26.3/9.5	27.5/10	8.0/4.8	2.4/1.9	105.75	106.5

Type		kW	HP	min ⁻¹	M _N Nm	η 100%	cos φ	I_N 400V 380-420V		I _A /I _N	M _A /M _N	J 10 ⁻³ kgm ²	kg
1000/750 min ⁻¹ (6/8 poles) - separate windings													
AMV 80Z AA	6/8	0.25/0.11	0.33/0.15	930/720	2.6/1.5	53/49	0.79/0.62	0.9/0.55	1.0/0.7	2.9/3.0	1.6/1.8	1.97	7.9
AMV 80Z BA	6/8	0.37/0.15	0.50/0.25	920/715	3.8/2	52/47	0.81/0.63	1.3/0.8	1.4/0.9	2.8/2.8	1.4/1.9	2.47	9.5
AMV 90L AA	6/8	0.55/0.22	0.75/0.30	960/740	5.5/2.8	65/47	0.62/0.51	2.0/1.4	2.1/1.5	3.9/2.9	2.5/2.1	4.78	16.2
AMV 90L BA	6/8	0.75/0.30	1.0/0.40	940/720	7.6/4	64/45.5	0.67/0.52	2.5/1.85	2.7/1.9	3.4/2.6	2.2/1.9	4.78	16.2
AMV 100L AA	6/8	1.1/0.45	1.5/0.60	950/710	11.1/6.1	70.6/58	0.71/0.67	3.1/1.7	3.3/1.8	4.3/2.8	2.0/1.3	9.43	22.0
AMV 112M AA	6/8	1.5/0.6	2.0/0.80	970/720	14.8/8	75.8/65	0.65/0.60	4.4/2.3	3.7/2.5	5.5/3.4	2.8/2.1	18.70	39.0
AMV 132S ZA	6/8	2.2/0.9	3.0/1.2	970/715	21.7/12	78.0/69.0	0.67/0.55	6.1/3.5	6.7/4.0	4.8/4.0	1.6/1.6	29.5	42.5
AMV 132M YA	6/8	3/1.2	4.0/1.6	960/715	29.8/16	80/72	0.7/0.55	7.8/4.4	8.2/4.8	4.8/4.1	1.6/1.6	37.75	55.5
AMV 132M ZA	6/8	4/1.6	5.5/2.2	960/715	39.8/21.4	81.0/74.0	0.78/0.6	9.2/5.2	9.8/5.6	5.3/4.4	1.7/1.7	44.5	64.1
AMV 160M YA	6/8	5.5/2.2	7.5/3.0	970/730	54.1/28.8	83/76	0.77/0.6	12.5/7	13.5/7.5	5.7/5.6	1.6/1.9	112.7	88.0
AMV 160M ZA	6/8	7/3	9.5/4.1	970/730	68.9/39.2	84/77	0.80/0.65	15/8.7	16/9.3	6.0/5.8	1.7/2.2	150.25	97.5

1) Temperature rise to class F

THREE-PHASE FRAME SIZE 56 - 160 IM B3 AMPE SERIES - ALUMINIUM ALLOY FRAME



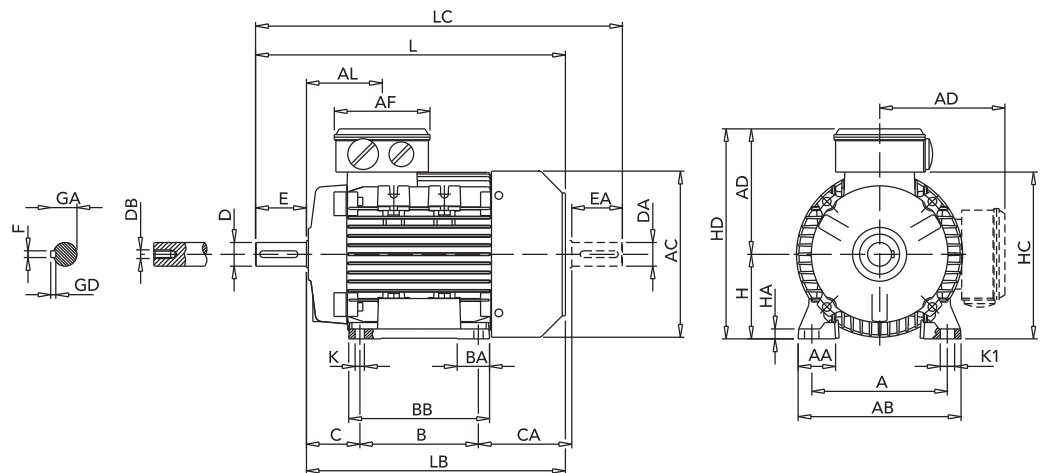
IEC	Poles	kW	H	A	B	C	K ¹⁾	AB	BB	CA	AD ²⁾	HD ²⁾	AC	HC
56	2 - 4	all	56	90	71	36	6	107	86	64	92	148	110	109
63	2 - 4	all	63	100	80	40	7	120	100	72	96	159	124	120
71	2 - 4 - 6	all	71	112	90	45	8	135	108	83	110	181	139	142
80	2 - 4	all	80	125	100	50	10	153	125	89	129	209	160	162
90S	2 - 4 - 6	all	90	140	100	56	10	170	150	116	138	228	180	181
90L	2	2.2	90	140	125	56	10	170	150	91	138	228	180	181
	2	3	90	140	125	56	10	170	150	114	138	228	180	181
	4	1.8	90	140	125	56	10	170	150	114	138	228	180	181
	4 - 6	all	90	140	125	56	10	170	150	91	138	228	180	181
100L	2	all	100	160	140	63	11	192	166	110	145	245	196	198
	4 - 6	all	100	160	140	63	11	192	166	110	145	245	198	192
112M	2	4 - 5.5	112	190	140	70	12.5	220	176	126	160	272	225	225
	2	7.5	112	190	140	70	12.5	220	176	148	160	272	222	225
	4 - 6	all	112	190	140	70	12.5	220	176	126	160	272	225	225
132S	2	5.5	132	216	140	89	12	256	180	134	194	326	248	261
	2	7.5	132	216	140	89	12	256	180	154	194	326	248	261
	4	5.5	132	216	140	89	12	256	180	134	194	326	248	261
	6	all	132	216	140	89	12	256	180	134	194	326	248	261
132M	2	9.2 - 11	132	216	178	89	12	256	218	156	194	326	248	261
	2	15	132	216	178	89	12	256	218	207	194	326	248	261
	4	7.5	132	216	178	89	12	256	218	136	194	326	248	261
	4	9.2	132	216	178	89	12	256	218	156	194	326	248	261
	4	11	132	216	178	89	12	256	218	207	194	326	248	261
	6	4	132	216	178	89	12	256	218	136	194	326	248	261
	6	5.5	132	216	178	89	12	256	218	156	194	326	248	261
160M	2 - 4 - 6	all	160	254	210	108	14	320	270	180	238	398	317	316
160L	2 - 4 - 6	all	160	254	254	108	14	320	310	180	238	398	317	316

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 56 - 160 IM B3 AMPE SERIES - ALUMINIUM ALLOY FRAME



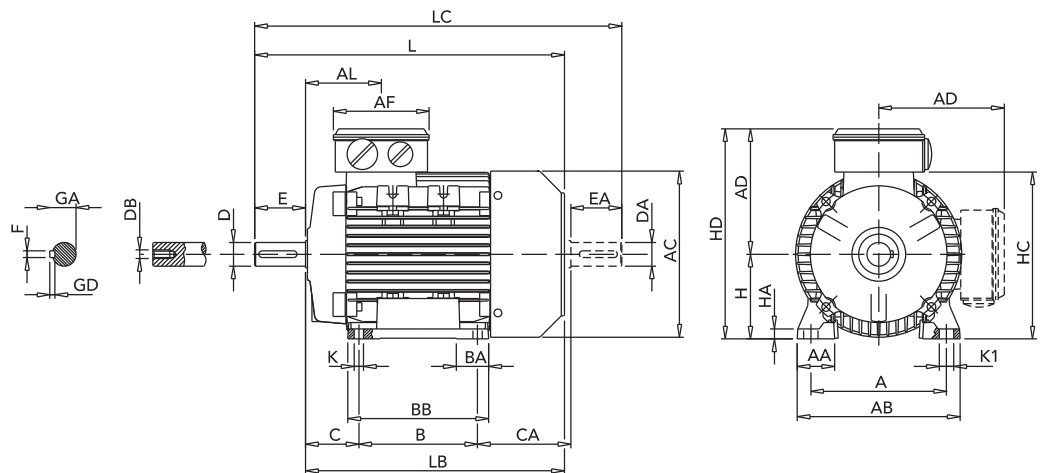
IEC	Poles	kW	HA	K1	L	LB	LC	AL	AF	BA	AA	D/DA	E/EA	F	GD	GA	DB ³⁾
56	2 - 4	all	8	9	188	168	211	61	92	27	27	9	20	3	3	10.2	M3
63	2 - 4	all	8	11	211	188	238	63	92	29	30	11	23	4	4	12.5	M4
71	2 - 4 - 6	all	9	11	246	216	278	69	92	28	31	14	30	5	5	16	M5
80	2 - 4	all	9.5	14	272	232	319	79	116	28.5	34.5	19	40	6	6	21.5	M6
90S	2 - 4 - 6	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
90L	2	2.2	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
	2	3	11	15	340	290	395	85	116	28/53	37	24	50	8	7	27	M8
	4	1.8	11	15	340	290	395	85	116	28/53	37	24	50	8	7	27	M8
	4 - 6	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
100L	2	all	12	17	366	306	433	91	116	38	44	28	60	8	7	31	M10
	4 - 6	all	12	17	366	306	433	92	118	41	44	28	60	8	7	31	M10
112M	2	4 - 5.5	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
	2	7.5	15	19	410	350	478	92	116	46	48	28	60	8	7	31	M10
	4 - 6	all	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
132S	2	5.5	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
	2	7.5	17	20	465	385	543	100	133	45	59	38	80	10	8	41	M12
	4	5.5	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
	6	all	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
132M	2	9.2 - 11	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
	2	15	17	20	556	476	640	120	133	45	59	38	80	10	8	41	M12
	4	7.5	17	20	485	405	563	120	133	45	59	38	80	10	8	41	M12
	4	9.2	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
	4	11	17	20	556	476	640	120	133	45	59	38	80	10	8	41	M12
	6	4	17	20	485	405	563	120	133	45	59	38	80	10	8	41	M12
	6	5.5	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
160M	2 - 4 - 6	all	23	18	608	498	668	146	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10
160L	2 - 4 - 6	all	23	18	652	542	712	168	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 80 - 160 IM B3 AMPH SERIES - ALUMINIUM ALLOY FRAME



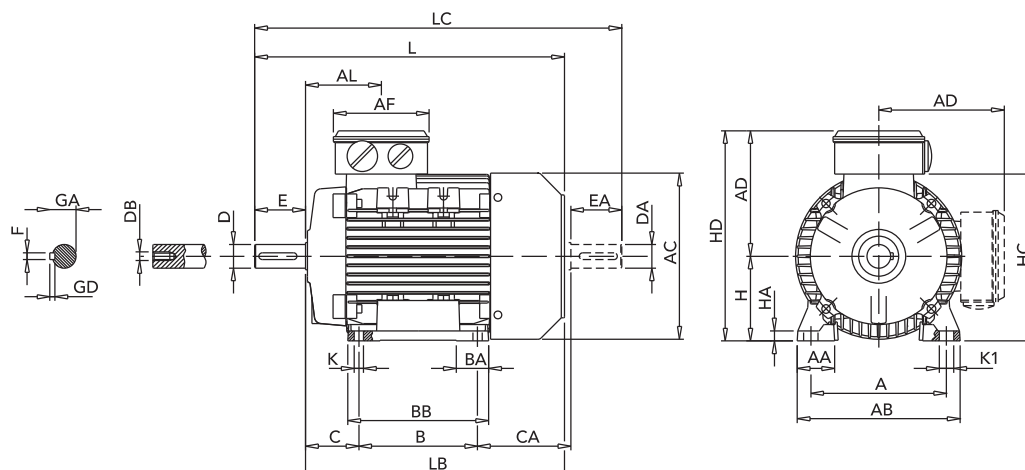
IEC	Poles	kW	H	A	B	C	K ¹⁾	AB	BB	CA	AD ²⁾	HD ²⁾	AC	HC
80	2 - 4	all	80	125	100	50	10	153	125	89	140	220	160	162
90S	2 - 4	all	90	140	100	56	10	170	150	116	149	239	180	181
	6	0.75	90	140	100	56	10	170	150	116	149	239	180	181
90L	2	2.2	90	140	125	56	10	170	150	91	149	239	180	181
	2	3	90	140	125	56	10	170	150	114	138	239	180	181
	4	all	90	140	125	56	10	170	150	91	149	239	180	181
100L	2	all	100	160	140	63	11	192	166	110	156	256	196	198
	4 - 6	all	100	160	140	63	11	192	166	110	156	256	198	192
112M	2	3.7-4-5.5	112	190	140	70	12.5	220	176	126	172	284	225	225
	2	7.5	112	190	140	70	12.5	220	176	148	172	284	222	225
	4	all	112	190	140	70	12.5	220	176	126	172	284	225	225
	6	1.1	112	190	140	70	12.5	220	176	126	172	284	225	225
	6	1.5 - 1.8	112	190	140	70	12.5	220	176	148	172	284	222	225
132S	2	5.5	132	216	140	89	12	256	180	134	194	326	248	261
	2	7.5	132	216	140	89	12	256	180	154	194	326	248	261
	4	5.5	132	216	140	89	12	256	180	134	194	326	248	261
	6	2.2-3	132	216	140	89	12	256	180	154	194	326	248	261
132M	2	9.2-11	132	216	178	89	12	256	218	156	194	326	248	261
	2	15	132	216	178	89	12	256	218	207	194	326	248	261
	4	7.5	132	216	178	89	12	256	218	156	194	326	248	261
	4	9.2	132	216	178	89	12	256	218	207	194	326	248	261
	6	4	132	216	178	89	12	256	218	156	194	326	248	261
160M	2-4-6	all	160	254	210	108	14	320	270	180	238	398	317	316
160L	2-4-6	all	160	254	254	108	14	320	310	180	238	398	317	316
	4	22	160	254	254	108	14	320	310	206	238	398	317	316

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 80 - 160 IM B3 AMPH SERIES - ALUMINIUM ALLOY FRAME



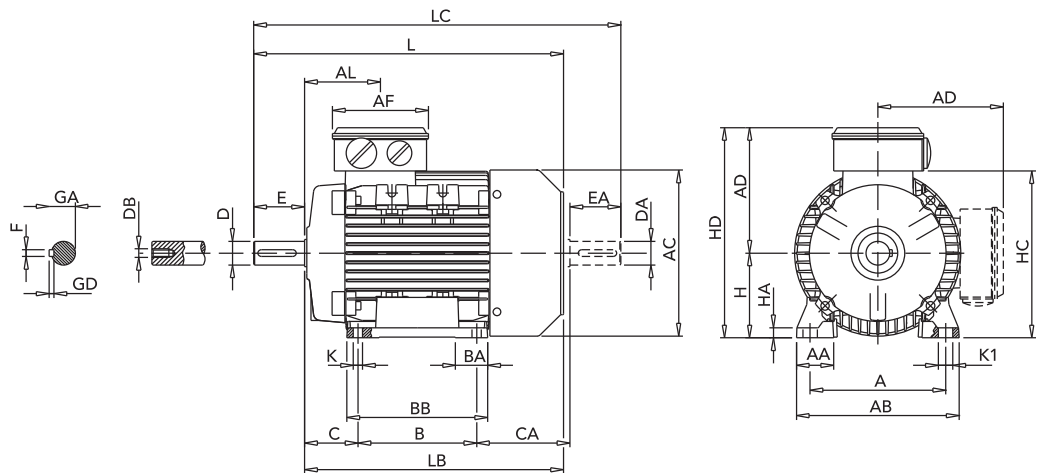
IEC	Poles	kW	HA	K1	L	LB	LC	AL	AF	BA	AA	D/DA	E/EA	F/FA	GD/GF	GA/GC	DB/DC ³⁾
80	2 - 4	all	9.5	14	272	232	319	79	116	28.5	34.5	19	40	6	6	21,5	M6
90S 90L	2 - 4	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
	6	0.75	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
	2	2.2	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
	2	3	11	15	340	290	395	85	116	28/53	37	24	50	8	7	27	M8
	4	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
100L	2	all	12	17	366	306	433	91	110	38	44	28	60	8	7	31	M10
	4 - 6	all	12	17	366	306	433	92	118	41	44	28	60	8	7	31	M10
112M	2	3.7-4-5.5	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
	2	7.5	15	19	410	350	478	92	116	46	48	28	60	8	7	31	M10
	4	all	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
	6	1.1	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
	6	1.5 - 1.8	15	19	410	350	478	92	116	46	48	28	60	8	7	31	M10
132S 132M	2	5.5	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
	2	7.5	17	20	465	385	543	100	133	45	59	38	80	10	8	41	M12
	4	5.5	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
	6	2.2-3	17	20	465	385	543	100	133	45	59	38	80	10	8	41	M12
	2	9.2-11	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
132M	2	15	17	20	556	476	640	120	133	45	59	38	80	10	8	41	M12
	4	7.5	17	20	485	405	563	120	133	45	59	38	80	10	8	41	M12
	4	9.2	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
	6	4	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
160M	2-4-6	all	23	18	608	498	668	146	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10
160L	2-4-6	all	23	18	652	542	712	168	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10
	4	22	23	18	678	568	738	168	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 56-160 IM B3 AMHE SERIES - ALLUMINIUM ALLOY FRAME



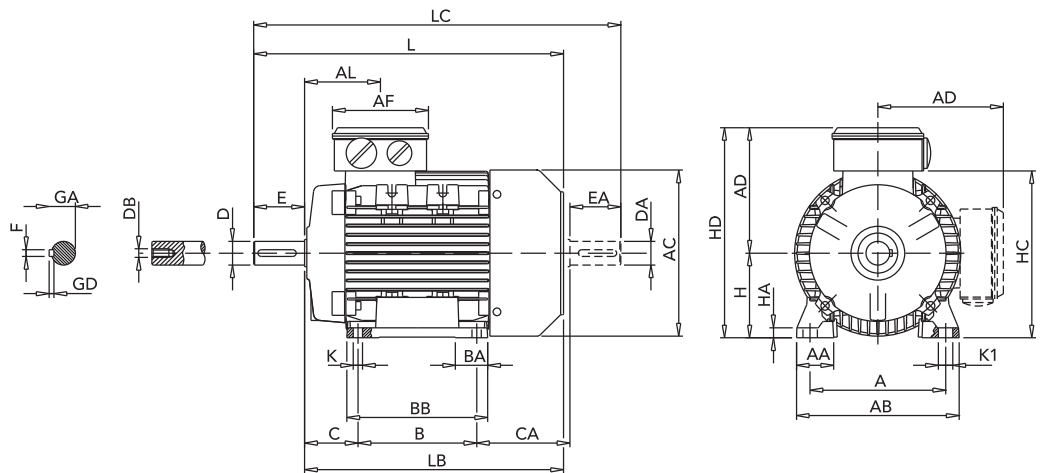
IEC	Poles	kW	H	A	B	C	K ¹⁾	AB	BB	CA	AD ²⁾	HD ²⁾	AC	HC
56	2 - 4	all	56	90	71	36	6	107	86	64	92	148	110	109
63	2 - 4	all	63	100	80	40	7	120	100	72	96	159	124	120
71	2 - 4	all	71	112	90	45	8	135	108	83	110	181	139	142
80	2 - 4	all	80	125	100	50	10	153	125	89	129	209	160	162
90S 90L	2 - 4	all	90	140	100	56	10	170	150	116	138	228	180	181
	2	2.2	90	140	125	56	10	170	150	91	138	228	180	181
	2	3	90	140	125	56	10	170	150	114	138	228	180	181
	4	all	90	140	125	56	10	170	150	91	138	228	180	181
100	2	all	100	160	140	63	11	192	166	110	145	245	196	198
	4	2.2	100	160	140	63	11	192	166	110	145	245	196	198
	4	3	100	160	140	63	11	192	166	125	145	245	194	198
112	2	4 - 5.5	112	190	140	70	12.5	220	176	126	160	272	225	225
	2	7.5	112	190	140	70	12.5	220	176	148	160	272	222	225
	4	all	112	190	140	70	12.5	220	176	126	160	272	225	225
132S	2	5.5	132	216	140	89	12	256	180	134	194	326	248	261
	2	7.5	132	216	140	89	12	256	180	154	194	326	248	261
	4	5.5	132	216	140	89	12	256	180	134	194	326	248	261
132M	2	9.2 - 11	132	216	178	89	12	256	218	156	194	326	248	261
	2	15	132	216	178	89	12	256	218	207	194	326	248	261
	4	7.5 - 9.2	132	216	178	89	12	256	218	136	194	326	248	261
	4	11	132	216	178	89	12	256	218	136	194	326	248	261
160M	2 - 4	all	160	254	210	108	14	320	270	180	238	398	317	316
160L	2 - 4	all	160	254	254	108	14	320	310	180	238	398	317	316

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 56-160 IM B3 AMHE SERIES - ALLUMINIUM ALLOY FRAME



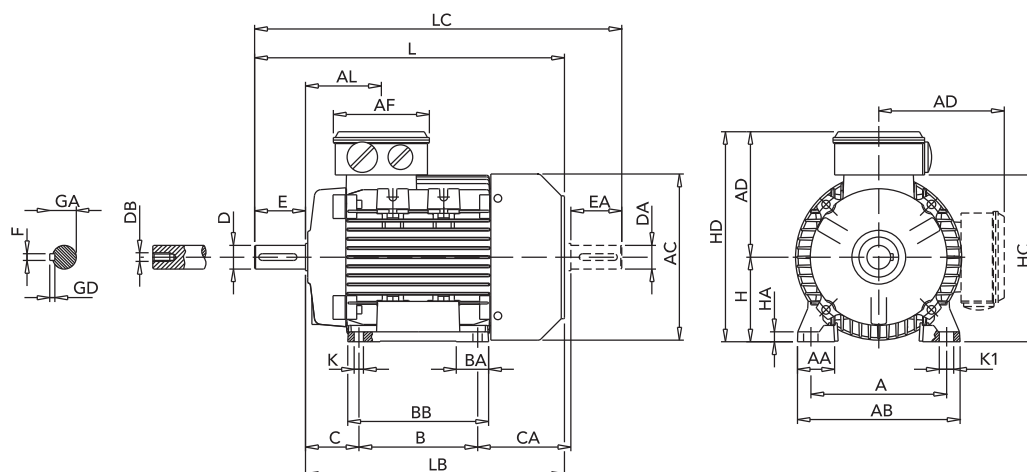
IEC	Poles	kW	HA	K1	L	LB	LC	AL	AF	BA	AA	D/DA	E/EA	F	GD	GA	DB ³⁾
56	2 - 4	all	8	9	188	168	211	61	92	27	27	9	20	3	3	10.2	M3
63	2 - 4	all	8	11	211	188	238	63	92	29	30	11	23	4	4	12.5	M4
71	2 - 4	all	9	11	246	216	278	69	92	28	31	14	30	5	5	16	M5
80	2 - 4	all	9.5	14	272	232	319	79	116	28.5	34.5	19	40	6	6	21.5	M6
90S	2 - 4	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
90L	2	2.2	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
	2	3	11	15	340	290	395	85	116	28/53	37	24	50	8	7	27	M8
	4	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
100L	2	all	12	17	366	306	433	91	116	38	44	28	60	8	7	31	M10
	4	2.2	12	17	366	306	433	91	116	38	44	28	60	8	7	31	M10
	4	3	12	17	381	321	448	91	116	38	44	28	60	8	7	31	M10
112M	2	4 - 5.5	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
	2	7.5	15	19	410	350	478	92	116	46	48	28	60	8	7	31	M10
	4	all	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
132S	2	5.5	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
	2	7.5	17	20	465	385	543	100	133	45	59	38	80	10	8	41	M12
	4	5.5	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
132M	2	9.2 - 11	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
	2	15	17	20	556	476	634	120	133	45	59	38	80	10	8	41	M12
	4	7.5 - 9.2	17	20	485	405	563	120	133	45	59	38	80	10	8	41	M12
	4	11	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
160M	2 - 4	all	23	18	608	498	668	146	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10
160L	2 - 4	all	23	18	652	542	712	168	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 71-160 IM B3 AMEE SERIES - ALLUMINIUM ALLOY FRAME



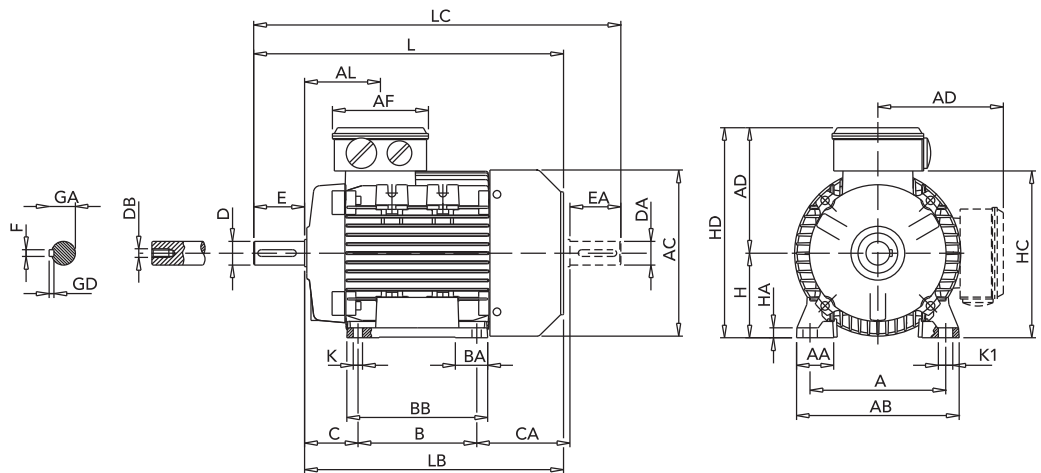
IEC	Poles	kW	H	A	B	C	K ¹⁾	AB	BB	CA	AD ²⁾	HD ²⁾	AC	HC
71	6	all	71	112	90	45	8	135	107	83	110	181	139	142
80	6	all	80	125	100	50	10	153	125	89	129	209	160	162
90S	6	all	90	140	100	56	10	170	150	116	138	228	180	181
90L	6	all	90	140	125	56	10	170	150	91	138	228	180	181
100	6	all	100	160	140	63	11	192	166	110	145	245	196	198
112	6	all	112	190	140	70	12.5	220	176	126	160	272	225	225
132S	6	3	132	216	140	89	12	256	180	134	194	326	248	261
132M	6	4	132	216	178	89	12	256	218	136	194	326	248	261
	6	5.5	132	216	178	89	12	256	218	156	194	326	248	261
160M	6	all	160	254	210	108	14	320	270	180	238	398	317	316
160L	6	all	160	254	254	108	14	320	310	180	238	398	317	316

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 71-160 IM B3 AMEE SERIES - ALLUMINIUM ALLOY FRAME



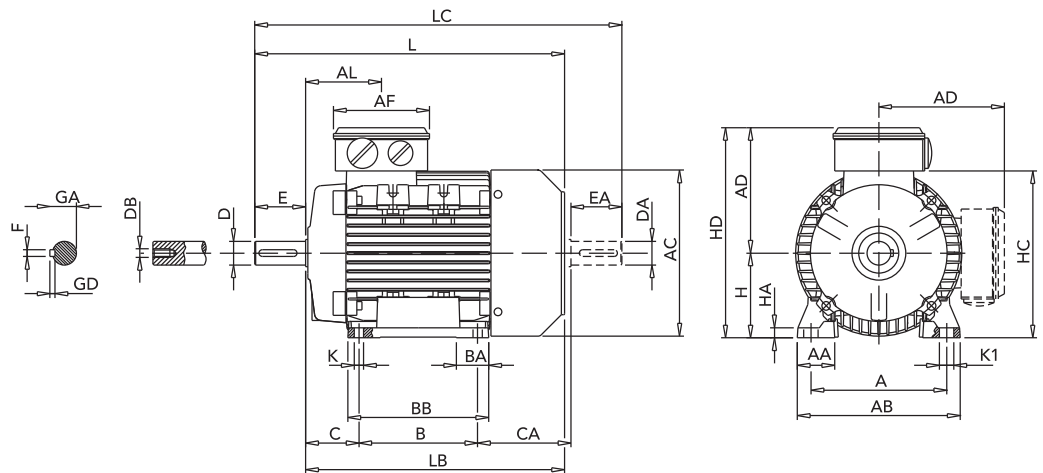
IEC	Poles	kW	HA	K1	L	LB	LC	AL	AF	BA	AA	D/DA	E/EA	F	GD	GA	DB ³⁾
71	6	all	9	11	246	216	278	69	92	28	31	14	30	5	5	16	M5
80	6	all	9.5	14	272	232	319	79	116	29	35	19	40	6	6	21.5	M6
90S	6	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
90L	6	all	11	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
100	6	all	12	17	366	306	433	91	116	38	44	28	60	8	7	31	M10
112	6	all	15	19	388	328	456	92	116	46	48	28	60	8	7	31	M10
132S	6	3	17	20	445	365	523	100	133	45	59	38	80	10	8	41	M12
132M	6	4	17	20	485	405	563	120	133	45	59	38	80	10	8	41	M12
	6	5.5	17	20	505	425	583	120	133	45	59	38	80	10	8	41	M12
160M	6	all	23	18	608	498	668	146	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10
160L	6	all	23	18	652	542	712	168	150	65	76	42/28	110/60	12/8	8/7	45/31	M16/M10

1) Clearance hole for screw

2) Maximum distance

3) Centering holes in shaft extensions to DIN 332 part 2

THREE-PHASE FRAME SIZE 56 - 160 IM B3 AM SERIES - ALUMINIUM ALLOY FRAME



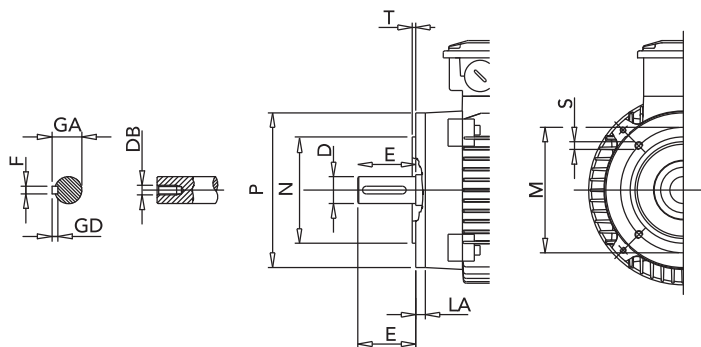
IEC	H	A	B	C	K ¹⁾	AB	BB	CA	AD ²⁾	HD ²⁾	AC	HC	HA
56	56	90	71	36	6	107	86	64	92	148	110	109	8
63	63	100	80	40	7	120	100	72	96	159	124	120	8
71	71	112	90	45	8	135	108	83	110	181	139	142	9
80	80	125	100	50	10	153	125	89	129	209	160	162	9.5
90S	90	140	100	56	10	170	150	116	138	228	180	181	11
90L	90	140	125	56	10	170	150	91	138	228	180	181	11
100	100	160	140	63	11	192	166	110	145	245	196	198	12
112	112	190	140	70	12.5	220	175	126	161	273	225	226	15
132S	132	216	140	89	12	256	180	134	194	326	248	261	17
132M	132	216	178	89	12	256	218	136	194	326	248	261	17
132M⁴⁾	132	216	178	89	12	256	218	156	194	326	248	261	17
160M	160	254	210	108	14	320	270	180	238	398	317	316	23
160L	160	254	254	108	14	320	310	180	238	398	317	316	23

IEC	K1	L	LB	LC	AL	AF	BA	AA	D/DA	E/EA	F	GD	GA	DB ³⁾
56	9	188	168	211	61	92	27	27	9	20	3	3	10.2	M3
63	11	211	188	238	63	92	29	30	11	23	4	4	12.5	M4
71	11	246	216	278	69	92	28	31	14	30	5	5	16	M5
80	14	272	232	319	79	116	28.5	34.5	19	40	6	6	21.5	M6
90S	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
90L	15	317	267	372	85	116	28/53	37	24	50	8	7	27	M8
100L	17	366	306	433	91	116	38	44	28	60	8	7	31	M10
112M	19	388	328	456	91.5	116	46	48	28	60	8	7	31	M10
132S	20	445	365	523	102	133	45	59	38	80	10	8	41	M12
132M	20	485	405	563	122	133	45	59	38	80	10	8	41	M12
132M⁴⁾	20	500	420	593	122	133	45	59	38	80	10	8	41	M12
160M	18	608	498	718	146	150	65	76	42	110	12	8	45	M16
160L	18	652	542	762	168	150	65	76	42	110	12	8	45	M16

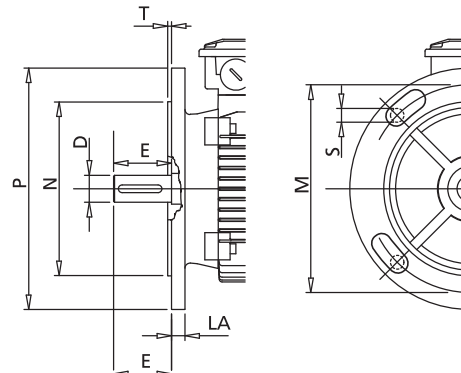
- 1) Clearance hole for screw
- 2) Maximum dimension
- 3) Centering holes in shaft extensions to DIN 332 part 2
- 4) Only for MT A2

THREE-PHASE FRAME SIZE 56 - 160 IM B14, IM B5 AMPE-AMPH-AMHE-AMEE-AM SERIES - ALUMINIUM ALLOY FRAME

IM B14



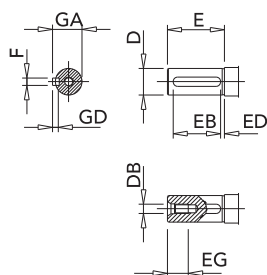
IM B5



FLANGE B14							OVERSIZED FLANGE B14 ²⁾						FLANGE B5					
IEC	P	N	LA	M	T	S	P	N	LA	M	T	S	M	N	P	T	LA	S ¹⁾
56	80	50	8	65	2.5	M5	105	70	8	85	2.5	M6	100	80	120	2.5	7	M6
63	90	60	8	75	2.5	M5	120	80	8	100	2.5	M6	115	95	140	3	8	M8
71	105	70	8	85	2.5	M6	140	95	8	115	3	M8	130	110	160	3.5	10	M8
80	120	80	9	100	3	M6	160	110	8.5	130	3.5	M8	165	130	200	3.5	10	M10
90	140	95	9	115	3	M8	160	110	9	130	3.5	M8	165	130	200	3.5	12	M10
100	160	110	10	130	3.5	M8	200	130	12	165	3.5	M10	215	180	250	4	14	M12
112	160	110	10	130	3.5	M8	200	130	12	165	3.5	M10	215	180	250	4	14	M12
132	200	130	23	165	3.5	M10	250	180	12	215	4	M12	265	230	300	4	14	M12
160	250	180	20	215	4	M12	300	230	12	265	5	M16	300	250	350	5	15	M16

1) Clearance hole for screw. Hole as standard for 132 to 160 frame size

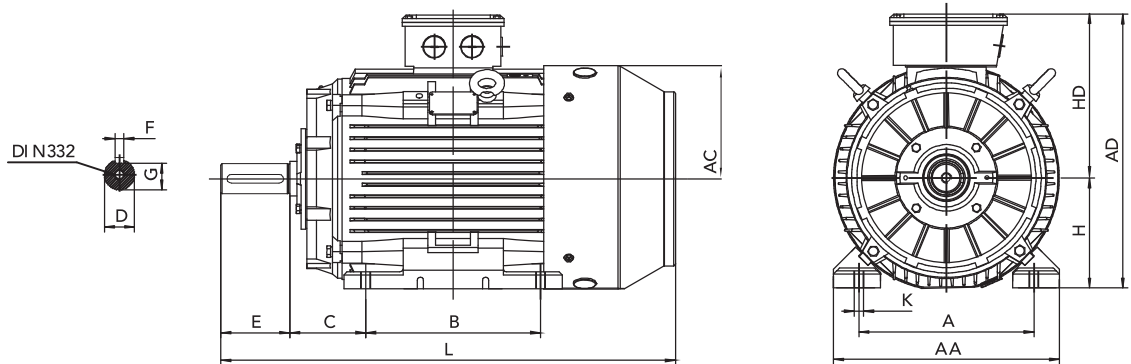
2) Available on request. Please refer to price list "PL 1.1 - Optional features".



IEC	D	E	F h9	GD	GA	DB ¹⁾	EG	EB	ED
56	9 j6	20	3	3	10.2	M3	10	15	2.5
63	11 j6	23	4	4	12.5	M4	10	15	4
71	14 j6	30	5	5	16	M5	12.5	20	4
80	19 j6	40	6	6	21.5	M6	16	30	4
90	24 j6	50	8	7	27	M8	19	40	4
100	28 j6	60	8	7	31	M10	22	50	4
112	28 j6	60	8	7	31	M10	22	50	4
132	38 k6	80	10	8	41	M12	28	70	4
160	42 k6	110	12	8	45	M16	36	100	4

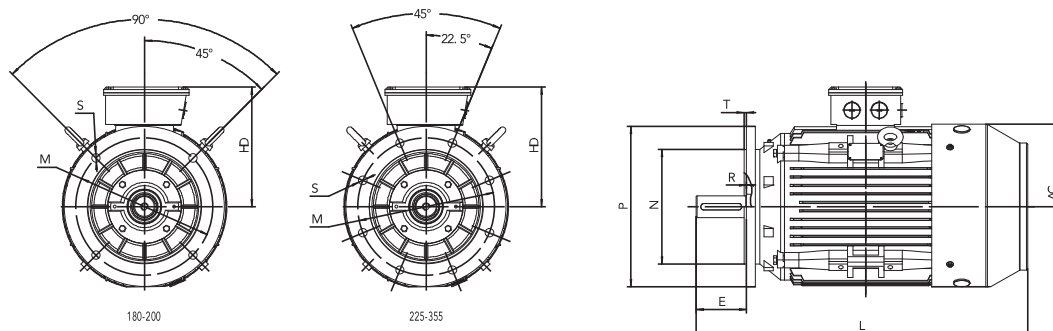
1) Centering holes in shaft extension to DIN 332 part 2

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

THREE-PHASE FRAME SIZE 180 - 315 IM B5 AMPE SERIES - CAST IRON FRAME



IEC	Poles	AC	HD	L	M	N	P	T	S	D	E	F	G
180M		360	259	687	300	250	350	5	19	48	110	14	42.5
180L		360	259	725	300	250	350	5	19	48	110	14	42.5
200		399	297	768	350	300	400	5	19	55	110	16	49
225S	≥ 4	465	328	814	400	350	450	5	19	60	140	18	53
225M	2	465	358	809	400	350	450	5	19	55	110	16	49
	≥ 4	465	328	839	400	350	450	5	19	60	140	18	53
250	2	506	366	918	500	450	550	5	19	60	140	18	53
	≥ 4	506	366	918	500	450	550	5	19	65	140	18	58
280S	2	559	388	984	500	450	550	5	19	65	140	18	58
	≥ 4	559	388	984	500	450	550	5	19	75	140	20	67.5
280M	2	559	388	1035	500	450	550	5	19	65	140	18	58
	≥ 4	559	388	1035	500	450	550	5	19	75	140	20	67.5
315S	2	680	530	1205	600	550	660	6	24	65	140	18	58
	≥ 4	680	530	1235	600	550	660	6	24	80	170	22	71
315M	2	680	530	1355	600	550	660	6	24	65	140	18	58
	≥ 4	680	530	1385	600	550	660	6	24	80	170	22	71
315L	2	680	530	1355	600	550	660	6	24	65	140	18	58
	≥ 4	680	530	1385	600	550	660	6	24	80	170	22	71