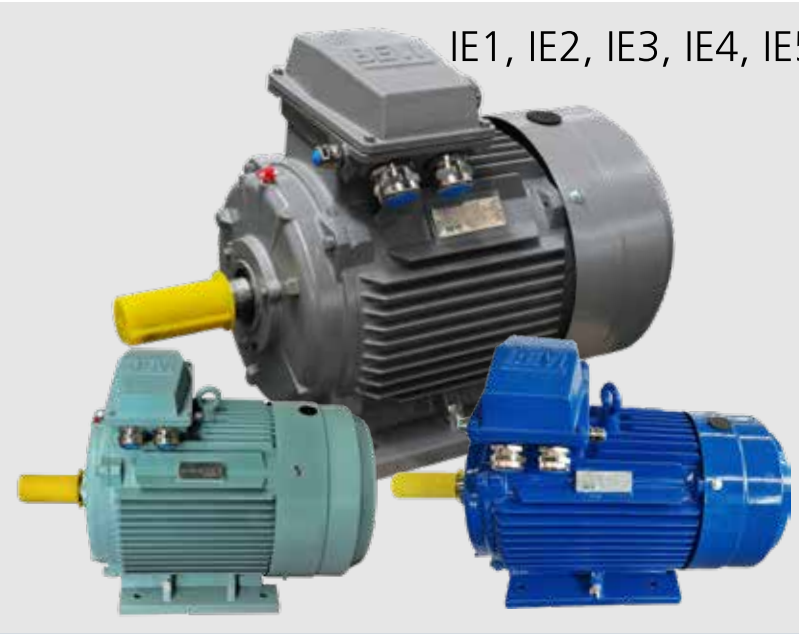


# 3D Series Three Phase Induction Motors

For marine and industry use



# Let us present BEVI

Founded in 1931, BEVI is one of the Nordic region's largest companies working with electric drive and power generation supporting a wide range of applications and industries, including the Marine industry. Electric motors is our core business and we are always at the cutting edge in terms of product development and quality of energy efficient drive systems.

We are active in Sweden, Denmark, Norway, Finland, Lithuania, Estonia, South Korea and China mainly through our own companies, but also through distributors. It provides good, local contact and good accessibility. The headquarters is located in Blomstermåla, Sweden.

BEVI AB is certified according to ISO 9001, ISO 14001 and 80079-34.

There are local variations in our offer but overall the BEVI group offers a comprehensive range of electric motors, generators, transmissions, power electronics, component materials and starting equipment. We also perform service on electrical machines up to 20 tonnes.

BEVI is part of Addtech, a Swedish publicly listed technology trading group comprising of 150 independent companies that sell high-tech products and solutions to customers in around 20 countries.



## Content

3D motor description	4
Design and approvals	5
Mounting Arrangement	6
Bearing sizes and cable glands	6
Technical data IE1	7
Dimensions IE1	11
Technical data IE2	15
Technical data IE3	19
Dimensions IE2 and IE3	23
Technical data IE4	27
Dimensions IE4	31
Technical data IE5	35
Dimensions IE5	39
Components	42

# 3D motor description

## Construction

3D 80-400 marine duty motors have stator house and end-shields in cast iron, HT200, and top mounted terminal boxes. The motors are produced according to IEC60034, IEC60072 and IEC60092 standards and are marked with CE.

In addition, the motors also comply with the rules and technical specifications of marine classes such as ABS, BV, CCS, DNV, KR, LR, NK, RINA, RMRS and etc. They have got the type approvals from ABS, BV, CCS, DNV, KR, LR, RINA and RMRS.

## Voltage and frequency

Motors are available for frequencies of 50 and 60 Hz, at all standard voltages (230, 400, 690V 50Hz - 440-480V 60Hz), see motor plate for actual voltage. Other voltages can supplied on request. All motors are wide range wounded. The voltage can vary by up to +/-10% and the frequency can vary by up to +/-5%, without derating. However, the variations of the combination of voltage and frequency should not exceed +/- 10%.

## Maintenance

In normal use maintenance is limited to greasing of the bearings. All motors in sizes 160 and larger are fitted with grease nipples as standard. The bearings are lubricated with Lithium based grease. Smaller than 160 frame motors have closed bearing housings and sealed bearings. During the whole bearing life, the smaller than 160 frame motors can be considered maintenance free. For severe operating conditions special bearings can be supplied - for example, for high ambient temperature and increased speed.

## Degree of protection

Motors are produced in degree of protection IP55 as standard. Higher protection can also be met on request.

## Insulation class

All motors adopt Class F insulation with temperature rise class B. Class H insulation can be available.

The data in this catalogue may change without prior to notice.

## Efficiency level (IE Class)

The efficiency level complies with IE1 (Type 3D), IE2 (Type 3D2), IE3 (Type 3D3), IE4 (Type 3D4) or IE5 (Type 3D5) as per IEC 60034-30-1:2025. To reach the limits as per IEC60034-30-1: 2025 the voltage may vary +/-5% and the frequency can vary max +/-2%. However, the variations of combinations of voltage and frequency should not exceed +/-5%

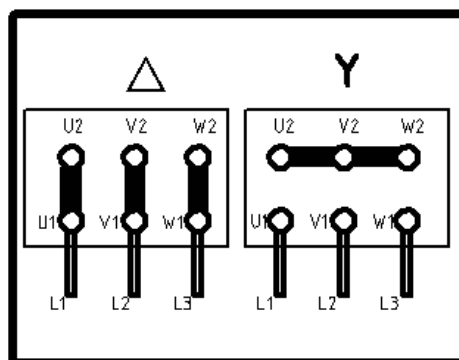
When the 3D2, 3D3, 3D4 and 3D5 motors are used for marine, the type should be changed to 3D plus IE grade to match the types in the marine class type approvals.

For example when 3D2 180L-4 motor is used for marine, the type should be 3D 180L-4 IE2.

## Thermal protection

Protection is provided by thermistors (PTC) fitted in the windings of 160 and larger frame motors as standard. Other frames are also available on request.

If required by customers, PT100 can also be fit in the stator windings or in the bearing chamber.



## Connection

Three phase single speed motors can normally be connected for two different voltage ranges (connection in star – higher voltage, or delta – lower voltage). This gives a wide application range and simplifies management of ordering and stockholding.

## Lifting eyebolts

All motors from frame 100 and up are equipped with lifting eyebolts.

## Cooling

The cooling is IC411. IC410 and IC416 can also be met on request.

## Heaters

Motors used in conditions of wide temperature variation or extreme climatic conditions can be damaged by condensation and dampness in the windings. In this case space heater is recommended in the winding. When the motor stops, the heater is energized to make the winding temperature higher than the ambient temperature to prevent the ingress of cold air. The power supply of heater is 1PH 115V AC (available for 110-120V) or 1PH 230V AC (available for 220-240V). BEVI can fit heaters to all motor sizes if required by customers.

## Ambient temperature and altitude

The motor can run at -20 °C to +40 °C (-20 °C to +45 °C for marine use).

Altitude is up to 1000 m. Higher or lower ambient temperature and higher altitude can also be available by derating, adopting high/low temperature grease or special bearings.

## Duty

The duty is S1 continuous. S2-S9 duties are also available.

## Vibration and noise

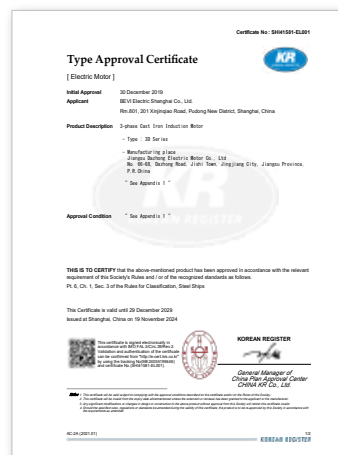
The vibration speed complies with Grade A of IEC 60034-14 as standard. And the noise level complies with IEC 60034-9.

## Design and approvals

We fulfill the requirements of leading classification societies.

BEVI 3D marine duty motors have marine class type approvals from ABS, BV, CCS, DNV, KR, LR, RINA and RMRS. These type approvals are renewed according to the expiry.

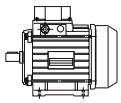
Separate class based certificates from ABS, BV, CCS, DNV, KR, LR, NK, RINA and RS can also be met on request.



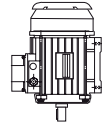
## Mounting arrangements

Foot mounting

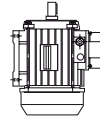
B3 / IM1001



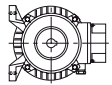
V5 / IM1011



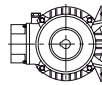
V6 / IM1031



B6 / IM 1051



B7 / IM 1061

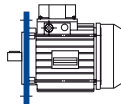


B8 / IM 1071

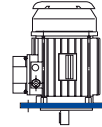


Flange mounting

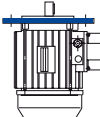
B5 / IM 3001



V1 / IM3011

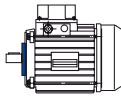


V3 / IM 3031

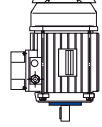


Face mounting

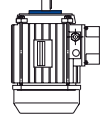
B14 / IM 3601



V18 / IM 3611

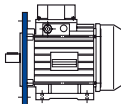


V19 / IM 3631

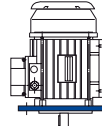


Foot & flange mounting

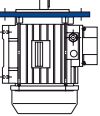
B35 / IM2001



V15 / IM 2011

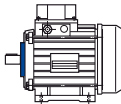


V36 / IM 2031

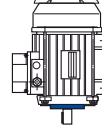


Foot & face mounting

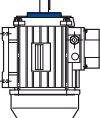
B34 / IM 2101



V17 / IM2111



V37 / IM 2131



## BEARINGS AND CABLE ENTRIES


Frame size	Poles	Bearing size		Cable glands for power cables	Cable gland for PTC/heater
		DE	NDE		
80	2,4,6,8	6204-2RSC3	6204-2RS/C3	1×M20×1.5	M16×1.5
90	2,4,6,8	6205-2RS/C3	6205-2RS/C3	1×M20×1.5	M16×1.5
100	2,4,6,8	6206-2RS/C3	6206-2RS/C3	1×M20×1.5	M16×1.5
112	2,4,6,8	6206-2RS/C3	6206-2RS/C3	2×M25×1.5	M16×1.5
132	2,4,6,8	6208-2RS/C3	6208-2RS/C3	2×M25×1.5	M16×1.5
160	2,4,6,8	6309/C3	6309/C3	2×M40×1.5	M20×1.5
180	2,4,6,8	6311/C3	6311/C3	2×M40×1.5	M20×1.5
200	2,4,6,8	6312/C3	6312/C3	2×M50×1.5	M20×1.5
225	2	6312/C3	6312/C3	2×M50×1.5	M20×1.5
225	4,6,8	6313/C3	6313/C3	2×M50×1.5	M20×1.5
250	2	6314/C3	6314/C3	2×M63×1.5	M20×1.5
250	4,6,8	6314/C3	6314/C3	2×M63×1.5	M20×1.5
280	2	6316/C3	6316/C3	2×M63×1.5	M20×1.5
280	4,6,8	6316/C3	6316/C3	2×M63×1.5	M20×1.5
315	2	6316/C3	6316/C3	2×M63×1.5	M20×1.5
315	4,6,8	6319/C3	6319/C3	2×M63×1.5	M20×1.5
355	2	6319/C3	6319/C3	2×M63×1.5	M20×1.5
355	4,6,8	6322/C3	6319/C3	2×M63×1.5	M20×1.5
400	2	6319/C3	6319/C3	2×M72×2	M20×1.5
400	4,6,8	6326/C3	6326/C3	2×M72×2	M20×1.5
<b>OPTION</b>					
<b>BEARINGS AT V1-MOUNTING</b>					
(Standard bearings as above also at V1-mounting except frame 400)					
250-V1	2,4,6,8	7314BEP	6314/C3	2×63×1.5	M20×1.5
280-V1	2,4,6,8	7316BEP	6316/C3	2×63×1.5	M20×1.5
315-V1	2	7316BEP	6316/C3	2×63×1.5	M20×1.5
315-V1	4,6,8	7319BEP	6319/C3	2×63×1.5	M20×1.5
355-V1	2	7319BEP	6319/C3	2×63×1.5	M20×1.5
355-V1	4,6,8	7322BEP	6319/C3	2×63×1.5	M20×1.5
400-V1	2	7319BEP	6319/C3	2×M72×2	M20×1.5
400-V1	4,6,8	2*7226BCBM	NU226ECJ/C3	2×M72×2	M20×1.5

Note: When insulated bearing at NDE is required for VFD use, frame 280 4/6/8P motors adopt 6317/C3 bearing at DE and 6317/C3VL0241 bearing at NDE.


Warning: Please refer to the nameplate data when replacing bearing.

The data in this catalogue may change without prior to notice. Please pay attention the release version.


## Technical data IE1

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D 801-2	0.9	3414	1.82	0.75	2845	3.01	1.74		76.6	76.3	72.9	0.83	6.1	2.2	2.3	0.0008	12
3D 802-2	1.32	3408	2.59	1.1	2840	4.30	2.48		78.5	78.9	76.5	0.84	7.0	2.2	2.3	0.0010	14
3D 90 S-2	1.8	3408	3.42	1.5	2840	5.68	3.28		79.3	79.6	77.3	0.84	7.0	2.2	2.3	0.0015	18
3D 90 L-2	2.64	3408	4.81	2.2	2840	7.98	4.61		81.9	82.5	80.8	0.85	7.0	2.2	2.3	0.0021	24
3D 100 L-2	3.6	3432	6.3	3	2860	10.4	6.0		83.5	83.9	82.3	0.87	7.5	2.2	2.3	0.0031	30
3D 112 M1-2	4.8	3456	8.1	4	2880		7.8	4.5	85.6	86.4	85.6	0.88	7.5	2.2	2.3	0.0058	39
3D 112 M2-2	6.6	3480	11.0	5.5	2900		10.5	6.1	86.8	87.7	87.3	0.88	7.5	2.2	2.3	0.0113	54
3D 132 S1-2	6.6	3480	11.0	5.5	2900		10.5	6.1	87.6	87.6	85.9	0.88	7.5	2.2	2.3	0.0113	56
3D 132 S2-2	9	3480	14.7	7.5	2900		14.1	8.1	88.3	88.7	87.8	0.88	7.5	2.2	2.3	0.0133	61
3D 132 M-2	13.2	3516	21.1	11	2930		20.2	11.7	89.3	89.8	89.1	0.89	7.5	2.2	2.3	0.0443	90
3D 160 M1-2	13.2	3516	21.1	11	2930		20.2	11.7	89.0	88.5	86.4	0.89	7.5	2.2	2.3	0.0443	102
3D 160 M2-2	18	3516	28.4	15	2930		27.2	15.7	90.1	89.9	88.4	0.89	7.5	2.2	2.3	0.0549	114
3D 160 L-2	22.2	3516	34.4	18.5	2930		33.0	19.1	91.0	90.9	89.6	0.90	7.5	2.2	2.3	0.0620	128
3D 180 M-2	26.4	3528	40.7	22	2940		39.0	22.5	90.6	90.2	88.4	0.90	7.5	2.0	2.3	0.0853	166
3D 200 L1-2	36	3540	54.9	30	2950		52.6	30.4	91.5	91.2	89.7	0.90	7.5	2.0	2.3	0.1530	230
3D 200 L2-2	44.4	3540	67.3	37	2950		64.5	37.2	92.2	92.1	90.8	0.90	7.5	2.0	2.3	0.1780	244
3D 225 M-2	54	3552	81.4	45	2960		78.0	45.0	92.8	92.5	91.1	0.90	7.5	2.0	2.3	0.2770	286
3D 250 M1-2	66	3558	98.9	55	2965		94.8	54.7	93.3	92.8	91.2	0.90	7.5	2.0	2.3	0.3880	418
3D 250 M2-2	90	3564	134.1	75	2970		128.5	74.2	93.8	93.4	91.9	0.90	7.5	2.0	2.3	0.5740	430
3D 280 S-2	90	3564	134.1	75	2970		128.5	74.2	93.5	93.0	91.4	0.90	7.5	2.0	2.3	0.5740	521
3D 280 M1-2	108	3564	158.6	90	2970		152.0	87.8	94.0	93.6	92.3	0.91	7.5	2.0	2.3	0.6770	554
3D 280 M2-2	132	3576	193.7	110	2980		185.6	107.2	94.6	94.3	93.0	0.91	7.1	1.8	2.2	1.4000	595
3D 315 S-2	132	3576	193.7	110	2980		185.6	107.2	94.1	93.2	91.3	0.91	7.1	1.8	2.2	1.4000	834
3D 315 M-2	158.4	3576	231.2	132	2980		221.6	127.9	94.6	93.9	92.2	0.91	7.1	1.8	2.2	1.5700	935
3D 315 L1-2	192	3576	276.9	160	2980		265.4	153.2	94.6	94.0	92.3	0.92	7.1	1.8	2.2	1.7600	975
3D 315 L2-2	240	3576	345.4	200	2980		331.0	191.1	94.8	94.4	93.1	0.92	7.1	1.8	2.2	2.3500	1162
3D 355 M-2	300	3576	429.9	250	2980		412.0	237.9	95.4	94.9	93.6	0.92	7.1	1.6	2.2	3.2500	1616
3D 355 L-2	378	3576	540.5	315	2980		518.0	299.1	95.7	95.3	94.1	0.92	7.1	1.6	2.2	3.9300	1806
3D 355 1-2	426	3582	618.5	355	2985		592.7	342.2	95.3	95.1	94.5	0.91	7.5	1.6	2.4	7.4500	2240
3D 355 2-2	480	3582	704.7	400	2985		675.3	389.9	95.2	95.1	94.4	0.90	5.8	1.2	2.8	12.520	2604
3D 355 3-2	540	3582	792.6	450	2985		759.6	438.6	95.2	95.1	94.5	0.90	7.1	1.6	2.7	13.260	2640
3D 400M1-2	426	3582	618.5	355	2985		592.7	342.2	94.0	94.0	93.1	0.91	7.5	1.6	2.4	10.047	2450
3D 400M2-2	480	3582	704.7	400	2985		675.3	389.9	94.0	94.0	93.1	0.90	5.8	1.2	2.8	11.898	2816
3D 400M3-2	540	3582	792.6	450	2985		759.6	438.6	94.0	94.0	93.2	0.90	7.1	1.6	2.7	12.956	3085
3D 400L1-2	600	3582	880.8	500	2985		844.1	487.4	94.0	94.0	93.2	0.90	6.4	1.5	2.8	14.210	3122
3D 400L2-2	672	3582	975.7	560	2985		935.0	539.8	94.0	94.0	93.2	0.91	5.7	1.3	2.7	14.950	3427
3D 400L3-2				630	2985			609.8	94.0	94.0	93.2	0.91	7.3	1.8	2.8	15.670	3614


## Technical data IE1

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D 80 1-4	0.66	1668	1.55	0.55	1390	2.58	1.49		71.9	71.8	68.0	0.75	5.2	2.4	2.3	0.0013	14
3D 80 2-4	0.9	1656	2.03	0.75	1380	3.38	1.95		73.9	74.6	71.9	0.76	6.0	2.3	2.3	0.0017	17
3D 90 S-4	1.32	1668	2.83	1.1	1390	4.69	2.71		75.1	76.3	74.3	0.77	6.0	2.0	2.3	0.0026	18
3D 90 L-4	1.8	1668	3.64	1.5	1390	6.04	3.49		78.3	79.4	77.9	0.79	6.0	2.0	2.3	0.0035	22
3D 100 L1-4	2.64	1692	5.1	2.2	1410	8.4	4.8		80.8	81.6	80.0	0.81	7.0	2.3	2.3	0.0065	30
3D 100 L2-4	3.6	1692	6.7	3	1410	11.1	6.4		82.3	83.3	82.2	0.82	7.0	2.3	2.3	0.0088	32
3D 112 M 1-4	4.8	1722	8.7	4	1435		8.4	4.8	85.2	85.9	85.0	0.82	7.0	2.3	2.3	0.0098	42
3D 112 M 2-4	6.6	1728	11.7	5.5	1440		11.2	6.5	86.8	87.7	87.1	0.83	7.0	2.3	2.3	0.0254	55
3D 132 S-4	6.6	1728	11.7	5.5	1440		11.2	6.5	86.6	87.3	86.3	0.83	7.0	2.1	2.3	0.0254	56
3D 132 M1-4	9	1728	15.4	7.5	1440		14.8	8.5	87.8	88.4	87.6	0.84	7.0	2.3	2.3	0.0351	70
3D 132 M2-4	13.2	1752	22.3	11	1460		21.4	12.4	88.5	89.5	89.3	0.84	7.0	2.2	2.3	0.0798	87
3D 160 M-4	13.2	1752	22.3	11	1460		21.4	12.4	89.4	89.6	88.5	0.84	7.0	2.2	2.3	0.0798	106
3D 160 L-4	18	1752	29.7	15	1460		28.5	16.5	90.3	90.6	89.6	0.85	7.5	2.2	2.3	0.1060	130
3D 180 M-4	22.2	1764	36.0	18.5	1470		34.5	19.9	91.0	91.2	90.4	0.86	7.5	2.1	2.3	0.1470	162
3D 180 L-4	26.4	1764	42.6	22	1470		40.8	23.6	91.4	91.6	90.9	0.86	7.5	2.2	2.3	0.1640	180
3D 200 L-4	36	1764	57.5	30	1470		55.1	31.8	92.2	92.3	91.5	0.86	7.2	2.2	2.3	0.2680	234
3D 225 S-4	44.4	1770	69.6	37	1475		66.7	38.5	92.6	92.7	91.8	0.87	7.2	2.2	2.3	0.4580	278
3D 225 M-4	54	1770	84.2	45	1475		80.7	46.6	93.2	93.2	92.4	0.87	7.2	2.2	2.3	0.5600	314
3D 250 M1-4	66	1776	102.4	55	1480		98.1	56.6	93.3	93.3	92.3	0.87	7.2	2.2	2.3	0.7730	420
3D 250 M2-4	90	1776	138.8	75	1480		133	76.8	93.8	93.9	93.1	0.87	7.2	2.2	2.3	1.2300	477
3D 280 S-4	90	1776	138.8	75	1480		133	76.8	93.7	93.6	92.5	0.87	7.2	2.2	2.3	1.2300	512
3D 280 M1-4	108	1776	165.9	90	1480		159	91.8	94.3	94.1	92.9	0.87	7.2	2.2	2.3	1.5400	663
3D 280 M2-4	132	1776	199.2	110	1480		190.9	110.2	94.6	94.5	93.6	0.88	6.9	2.1	2.2	2.9700	646
3D 315 S-4	132	1776	199.2	110	1480		190.9	110.2	94.7	94.3	93.1	0.88	6.9	2.0	2.2	2.9700	856
3D 315 M-4	158.4	1776	238.3	132	1480		228.4	131.9	95.0	94.7	93.6	0.88	6.9	2.0	2.2	3.3400	940
3D 315 L1-4	192	1776	285.3	160	1480		273.4	157.9	94.9	94.7	93.6	0.89	6.9	2.1	2.2	4.0300	1109
3D 315 L2-4	240	1776	356.7	200	1480		341.8	197.3	94.9	94.8	93.9	0.89	6.9	2.1	2.2	4.8800	1163
3D 355 M-4	300	1788	439.5	250	1490		421.2	243.2	95.5	95.2	94.2	0.90	6.9	2.0	2.2	8.3300	1572
3D 355 L-4	378	1788	553.8	315	1490		530.7	306.4	95.8	95.6	94.7	0.90	6.9	2.0	2.2	10.510	1743
3D 355 1-4	426	1788	631.7	355	1490		605.4	349.5	95.5	95.7	94.6	0.89	7.2	1.6	2.2	7.550	2077
3D 355 2-4	480	1788	719.9	400	1490		689.9	398.3	95.3	95.4	94.4	0.88	8.6	0.9	1.8	11.898	2796
3D 355 3-4	540	1788	809.8	450	1490		776.1	448.1	95.2	95.2	94.4	0.88	8.6	0.8	1.8	12.956	2885
3D 400M1-4	426	1788	631.7	355	1490		605.4	349.5	94.0	94.0	93.2	0.89	7.2	1.6	2.2	10.100	2370
3D 400M2-4	480	1788	719.9	400	1490		689.9	398.3	94.0	94.0	93.3	0.88	8.6	0.9	1.8	10.900	2786
3D 400M3-4	540	1788	809.8	450	1490		776.1	448.1	94.0	94.0	93.2	0.88	8.6	0.8	1.8	13.200	3122
3D 400L1-4	600	1788	899.9	500	1490		862.4	497.9	94.0	94.0	93.2	0.88	8.6	0.8	1.8	15.600	3206
3D 400L2-4	672	1788	996.5	560	1490		955	551.4	94.0	94.0	93.3	0.89	8.7	0.8	1.8	17.000	3397
3D 400L3-4				630	1490			622.8	94.0	94.0	93.3	0.89	8.7	0.8	1.8	18.400	3535

## Technical data IE1

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D 80 1-6	0.44	1062	1.28	0.37	885						
3D 80 2-6	0.66	1062	1.77	0.55	885	2.94	1.70		66.0	67.3	64.2	0.72	4.7	1.9	2.1	0.0022	16
3D 90 S-6	0.9	1092	2.27	0.75	910	3.78	2.18		70.3	70.9	67.4	0.72	5.5	2.0	2.1	0.0033	20
3D 90 L-6	1.32	1092	3.15	1.1	910	5.23	3.02		73.0	74.1	71.7	0.73	5.5	2.0	2.1	0.0045	22
3D 100 L-6	1.8	1104	4.0	1.5	920	6.6	3.8		76.3	77.4	75.3	0.75	5.5	2.0	2.1	0.0081	28
3D 112 M-6	2.64	1122	5.5	2.2	935	9.2	5.3		79.7	80.9	79.6	0.76	6.5	2.0	2.1	0.0150	38
3D 132 S-6	3.6	1152	7.3	3	960	12.2	7.0		83.4	83.5	81.4	0.76	6.5	2.1	2.1	0.0290	58
3D 132 M1-6	4.8	1152	9.7	4	960		9.3	5.4	84.7	84.9	82.9	0.76	6.5	2.1	2.1	0.0390	68
3D 132 M2-6	6.6	1152	12.8	5.5	960		12.3	7.1	86.3	86.6	85.2	0.77	6.5	2.1	2.1	0.0530	76
3D 160 M-6	9	1164	17.0	7.5	970		16.3	9.4	87.5	87.5	85.7	0.77	6.5	2.0	2.1	0.0897	106
3D 160 L-6	13.2	1164	24.3	11	970		23.3	13.5	88.8	88.9	87.6	0.78	6.5	2.0	2.1	0.1270	130
3D 180 L-6	18	1164	31.3	15	970		30.0	17.3	89.8	90.1	89.1	0.81	7.0	2.0	2.1	0.2140	176
3D 200 L1-6	22.2	1176	38.2	18.5	980		36.6	21.1	90.3	90.6	89.6	0.81	7.0	2.1	2.1	0.3190	216
3D 200 L2-6	26.4	1176	44.3	22	980		42.5	24.5	90.7	91.1	90.4	0.83	7.0	2.1	2.1	0.3690	226
3D 225 M-6	36	1176	58.7	30	980		56.3	32.5	92.6	92.7	91.8	0.84	7.0	2.0	2.1	0.5860	292
3D 250 M-6	44.4	1176	70.4	37	980		67.5	39.0	92.3	92.4	91.6	0.86	7.0	2.1	2.1	0.9400	364
3D 280 S-6	54	1176	85.1	45	980		81.6	47.1	92.7	92.8	91.8	0.86	7.0	2.0	2.0	1.7100	490
3D 280 M-6	66	1176	103.8	55	980		99.5	57.4	93.2	93.2	92.4	0.86	7.0	2.1	2.0	2.1500	523
3D 315 S-6	90	1176	140.5	75	980		134.6	77.7	94.1	93.9	92.6	0.86	7.0	2.0	2.0	3.4500	796
3D 315 M-6	108	1176	168.0	90	980		161.0	93.0	94.5	94.2	93.1	0.86	7.0	2.0	2.0	4.0800	958
3D 315 L1-6	132	1176	204.9	110	980		196.4	113.4	94.8	94.5	93.5	0.86	6.7	2.0	2.0	5.0600	970
3D 315 L2-6	158.4	1176	242.6	132	980		232.5	134.2	95.0	94.8	93.8	0.87	6.7	2.0	2.0	5.8400	1057
3D 355 M1-6	192	1188	289.0	160	990		277.0	159.9	94.8	94.5	93.4	0.88	6.7	1.8	2.0	9.5300	1485
3D 355 M2-6	240	1188	362.1	200	990		347.0	200.3	95.0	94.8	93.8	0.88	6.7	1.8	2.0	11.800	1668
3D 355 L-6	300	1188	451.8	250	990		433.0	250.0	95.3	95.1	94.2	0.88	6.7	1.8	2.0	14.800	1693
3D 355 2-6	378	1194	609.0	315	995		583.6	337.0	95.2	95.2	94.2	0.82	7.8	0.75	1.8	28.400	2148
3D 355 3-6	426	1194	686.4	355	995		657.8	379.8	95.3	95.2	94.3	0.82	7.8	0.75	1.8	30.210	2336
3D 400M1-6	378	1194	609.0	315	995		583.6	337.0	94.0	95.2	94.2	0.82	7.8	0.75	1.8	28.400	3003
3D 400M2-6	426	1194	686.4	355	995		657.8	379.8	94.0	95.2	94.3	0.82	7.8	0.75	1.8	30.210	3073
3D 400L1-6	480	1194	764.0	400	995		732.2	422.7	94.0	95.1	94.2	0.83	7.9	0.75	1.8	32.790	3258
3D 400L2-6	540	1194	859.5	450	995		823.7	475.6	94.0	95.0	94.4	0.83	7.9	0.6	1.8	36.150	3341
3D 400L3-6				500	995			530.6	94.0	95.1	94.3	0.83	7.9	0.6	1.8	38.720	3421

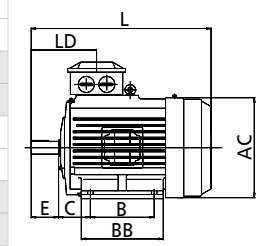
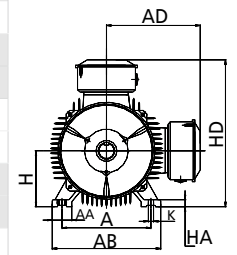
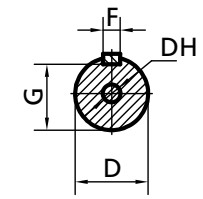
## Technical data IE1

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D 132 S-8	2.64	846	6.0	2.2	705						
3D 132 M-8	3.6	846	7.8	3	705	13.0	7.5		79.7	80.6	79.1	0.73	6.0	1.8	2.0	0.0392	68
3D 160 M1-8	4.8	864	10.2	4	720		9.76	5.6	82.8	83.0	81.0	0.73	6.0	1.9	2.0	0.0635	98
3D 160 M2-8	6.6	864	13.5	5.5	720		12.9	7.4	84.7	84.9	83.2	0.74	6.0	2.0	2.0	0.0897	110
3D 160 L-8	9	864	17.6	7.5	720		16.9	9.8	85.7	86.0	84.5	0.75	6.0	2.0	2.0	0.1270	132
3D 180 L-8	13.2	876	24.9	11	730		23.9	13.8	87.8	88.2	87.0	0.76	6.6	1.95	2.0	0.2140	176
3D 200 L-8	18	876	33.8	15	730		32.4	18.7	89.7	90.0	88.8	0.76	6.6	2.0	2.0	0.3490	232
3D 225 S-8	22.2	876	40.7	18.5	730		39.0	22.5	90.9	90.9	89.8	0.76	6.6	1.9	2.0	0.5200	268
3D 225 M-8	26.4	876	47.0	22	730		45.0	26.0	91.2	91.4	90.4	0.78	6.6	1.9	2.0	0.6200	288
3D 250 M-8	36	882	62.8	30	735		60.2	34.8	91.5	91.7	90.7	0.79	6.6	1.9	2.0	0.8900	372
3D 280 S-8	44.4	882	77.1	37	735		73.9	42.7	92.1	92.4	91.6	0.79	6.6	1.9	2.0	1.7100	462
3D 280 M-8	54	882	93.3	45	735		89.4	51.6	92.5	92.7	91.9	0.79	6.6	1.9	2.0	2.1500	516
3D 315 S-8	66	882	110.2	55	735		105.6	61.0	93.3	93.0	91.6	0.81	6.6	1.8	2.0	3.7900	804
3D 315 M-8	90	882	149.9	75	735		143.7	83.0	93.8	93.5	92.4	0.81	6.6	1.8	2.0	5.2000	920
3D 315 L1-8	108	882	176.2	90	735		168.9	97.5	94.0	93.8	92.6	0.82	6.6	1.8	2.0	6.1900	1018
3D 315 L2-8	132	882	215.0	110	735		206.0	118.9	94.2	94.0	92.9	0.82	6.4	1.8	2.0	7.2600	1057
3D 355 M1-8	158.4	888	258.8	132	740		248.0	143.2	94.3	94.0	92.7	0.82	6.4	1.8	2.0	11.850	1527
3D 355 M2-8	192	888	312.0	160	740		299.0	172.6	94.5	94.3	93.3	0.82	6.4	1.7	2.0	14.500	1690
3D 355 L-8	240	888	384.0	200	740		368.0	212.5	94.8	94.6	93.6	0.83	6.4	1.7	2.0	18.120	1850
3D 355 1-8	300	894	503.4	250	745		482.4	278.5	93.6	93.5	92.3	0.80	7.5	1.1	1.8	31.050	2234
3D 355 2-8	336	894	563.8	280	745		540.3	312.0	93.5	93.4	92.2	0.80	7.5	0.9	1.8	33.760	2470
3D 355 3-8	378	894	634.2	315	745		607.8	350.9	93.6	93.5	92.1	0.80	7.5	0.9	1.8	39.190	2792
3D 400M1-8	300	894	503.4	250	745		482.4	278.5	92.5	92.5	91.8	0.80	7.5	1.1	1.8	31.050	2914
3D 400M2-8	336	894	563.8	280	745		540.3	312.0	92.5	92.5	91.8	0.80	7.5	0.9	1.8	33.760	3070
3D 400M3-8	378	894	634.2	315	745		607.8	350.9	92.5	92.5	91.9	0.80	7.5	0.9	1.8	39.190	3392
3D 400L1-8	426	894	714.8	355	745		685.0	395.5	92.5	92.5	91.9	0.80	7.5	0.9	1.8	45.220	3478
3D 400L2-8				400	740			447.5	92.5	92.5	91.9	0.80	7.5	0.9	1.8	48.230	3550

Dimensions IE1

B3

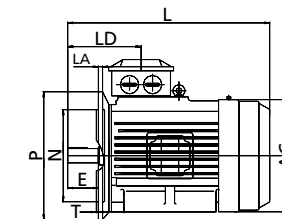
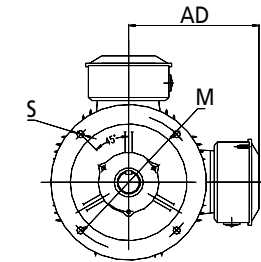
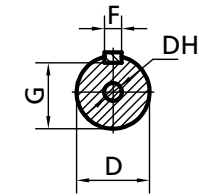
Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	AA	AB	AC	AD		BB	HA	HD		LD	L
															Rect. Box	Square Box			Rect. Box	Square Box		
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	33	160	155		145	130	9		225	112	285
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	36	180	175		155	140	12		245	125	313
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	36	180	175		155	166	12		245	125	338
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	40	200	195		169	176	14		269	143	375
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	45	226	219		182	180	15		294	147	392
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	55	262	258		202	186	18		334	177	464
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	55	262	258		202	224	18		334	177	502
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14,5	65	314	314	262	262	260	20	422	422	259	613
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14,5	65	314	314	262	262	304	20	422	422	259	653
180M	2,4,6,8	279	241	121	48	110	14	42,5	M16x36	180	14,5	70	349	355	281	278	308	22	461	458	271	688
180L	2,4,6,8	279	279	121	48	110	14	42,5	M16x36	180	14,5	70	349	355	281	278	349	22	461	458	271	722
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18,5	70	388	397	328	318	364	25	528	518	296	770
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18,5	75	431	445	351	341	368	28	576	566	329	807
225M	2	356	311	149	55	110	16	49	M20x42	225	18,5	75	431	445	351	341	393	28	576	566	299	802
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18,5	75	431	445	351	341	393	28	576	566	329	832
250M	2	406	349	168	60	140	18	53	M20x42	250	24	80	484	484	375	375	445	30	625	625	347	933
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	80	484	484	375	375	445	30	625	625	347	933
280S	2	457	368	190	65	140	18	58	M20x42	280	24	85	542	546	404	399	485	35	684	679	353	986
	4,6,8	457	368	190	75	140	20	67,5	M20x42	280	24	85	542	546	404	399	485	35	684	679	353	986
280M	2	457	419	190	65	140	18	58	M20x42	280	24	85	542	546	404	399	536	35	684	679	353	1035
	4,6,8	457	419	190	75	140	20	67,5	M20x42	280	24	85	542	546	404	399	536	35	684	679	353	1035
315S	2	508	406	216	65	140	18	58	M20x42	315	28	120	628	616	532	526	570	45	847	841	396	1185
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	120	628	616	532	526	570	45	847	841	426	1215
315M	2	508	457	216	65	140	18	58	M20x42	315	28	120	628	616	532	526	680	45	847	841	396	1298
	4,6,8	508	457	216	80	170	22	71	M20x42	315	28	120	628	616	532	526	680	45	847	841	426	1328
315L	2	508	508	216	65	140	18	58	M20x42	315	28	120	628	616	532	526	680	45	847	841	396	1298
	4,6,8	508	508	216	80	170	22	71	M20x42	315	28	120	628	616	532	526	680	45	847	841	426	1328
355M	2	610	560	254	75	140	20	67,5	M20x42	355	28	116	726	698	561	558	750	52	916	913	403	1497
	4,6,8	610	560	254	95	170	25	86	M24x47	355	28	116	726	698	561	558	750	52	916	913	433	1527
355L	2	610	630	254	75	140	20	67,5	M20x42	355	28	116	726	698	561	558	750	52	916	913	403	1497
	4,6,8	610	630	254	95	170	25	86	M24x47	355	28	116	726	698	561	558	750	52	916	913	433	1527
355 <sup>1</sup> 2 3	2	630	800	224	80	170	22	71	M24x47	355	35	135	760	750			1140	52		1012	472	1868
	4,6,8	630	800	224	110	210	28	100	M24x47	355	35	135	760	750			1140	52		1012	512	1928
400	2	686	710	280	85	170	22	76	M24x47	400	35	120	860	860			1180	45		1100	526	1895
	4,6,8	686	710	280	120	210	32	109	M24x47	400	35	120	860	860			1180	45		1100	566	1955



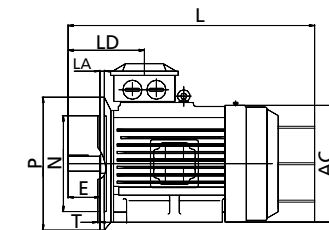
Dimensions IE1

B5 / V1

Frame size	Poles	D	E	F	G	DH	H	M	N	P	S	T	AC	AD		LA	LD	L	
														Rect. Box	Square Box			B5	V1
80	2,4,6,8	19	40	6	15,5	M6x16	80	165	130	200	12	3,5	155		145	12	112	285	325
90S	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3,5	175		155	12	125	313	353
90L	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3,5	175		155	12	125	338	378
100L	2,4,6,8	28	60	8	24	M10x22	100	215	180	250	14,5	4	195		169	13	143	375	415
112M	2,4,6,8	28	60	8	24	M10x22	112	215	180	250	14,5	4	219		182	14	147	392	432
132S	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14,5	4	258		202	14	177	464	504
132M	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14,5	4	258		202	14	177	502	542
160M	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18,5	5	314	262	262	15	259	613	655
160L	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18,5	5	314	262	262	15	259	653	700
180M	2,4,6,8	48	110	14	42,5	M16x36	180	300	250	350	18,5	5	355	281	278	15	271	688	746
180L	2,4,6,8	48	110	14	42,5	M16x36	180	300	250	350	18,5	5	355	281	278	15	271	722	780
200L	2,4,6,8	55	110	16	49	M20x42	200	350	300	400	18,5	5	397	328	318	17	296	770	835
225S	4,6,8	60	140	18	53	M20x42	225	400	350	450	18,5	5	445	351	341	20	329	807	895
225M	2	55	110	16	49	M20x42	225	400	350	450	18,5	5	445	351	341	20	299	802	890
	4,6,8	60	140	18	53	M20x42	225	400	350	450	18,5	5	445	351	341	20	329	832	920
250M	2	60	140	18	53	M20x42	250	500	450	550	18,5	5	484	375	375	22	347	933	1035
	4,6,8	65	140	18	58	M20x42	250	500	450	550	18,5	5	484	375	375	22	347	933	1035
280S	2	65	140	18	58	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	986	1109
	4,6,8	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	986	1109
280M	2	65	140	18	58	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	1035	1160
	4,6,8	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	1035	1160
315S	2	65	140	18	58	M20x42	315	600	550	660	24	6	616	532	526	22	396	1185	1302
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	616	532	526	22	426	1215	1332
315M	2	65	140	18	58	M20x42	315	600	550	660	24	6	616	532	526	22	396	1298	1415
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	616	532	526	22	426	1328	1445
315L	2	65	140	18	58	M20x42	315	600	550	660	24	6	616	532	526	22	396	1298	1415
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	616	532	526	22	426	1328	1445
355M	2	75	140	20	67,5	M20x42	355	740	680	800	24	6	698	561	558	25	403	1497	1635
	4,6,8	95	170	25	86	M24x47	355	740	680	800	24	6	698	561	558	25	433	1527	1695
355L	2	75	140	20	67,5	M20x42	355	740	680	800	24	6	698	561	558	25	403	1497	1635
	4,6,8	95	170	25	86	M24x47	355	740	680	800	24	6	698	561	558	25	433	1527	1695
355 <sup>1</sup> <sub>2</sub> <sub>3</sub>	2	80	170	22	71	M24x47	355	840	780	900	24	6	750			28	472	1868	2018
	4,6,8	110	210	28	100	M24x47	355	840	780	900	24	6	750			28	512	1928	2078
400	2	85	170	22	76	M24x47	400	940	880	1000	28	6	860			28	526	1895	2005
	4,6,8	120	210	32	109	M24x47	400	940	880	1000	28	6	860			28	566	1955	2065



B5

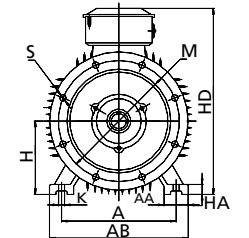
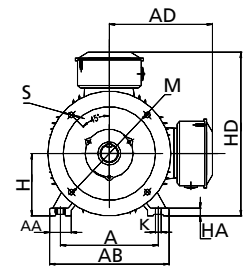
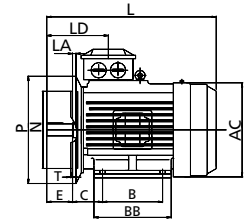
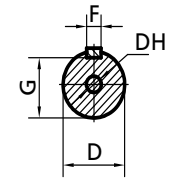


V1

Dimensions IE1

B35

Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	M	N	P	S	T	AA	AB	AC	AD		BB	HA	HD		LA	LD	L
																				Rect. Box	Square Box			Rect. Box	Square Box			
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	165	130	200	12	3,5	33	160	155		145	130	9		225	12	112	285
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	165	130	200	12	3,5	36	180	175		155	140	12		245	12	125	313
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	165	130	200	12	3,5	36	180	175		155	166	12		245	12	125	338
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	215	180	250	14,5	4	40	200	195		169	176	14		269	13	143	375
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	215	180	250	14,5	4	45	226	219		182	180	15		294	14	147	392
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	265	230	300	14,5	4	55	262	258		202	186	18		334	14	177	464
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	265	230	300	14,5	4	55	262	258		202	224	18		334	14	177	502
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14,5	300	250	350	18,5	5	65	314	314	262	262	260	20	422	422	15	259	613
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14,5	300	250	350	18,5	5	65	314	314	262	262	304	20	422	422	15	259	653
180M	2,4,6,8	279	241	121	48	110	14	42,5	M16x36	180	14,5	300	250	350	18,5	5	70	349	355	281	278	308	22	461	458	15	271	688
180L	2,4,6,8	279	279	121	48	110	14	42,5	M16x36	180	14,5	300	250	350	18,5	5	70	349	355	281	278	349	22	461	458	15	271	722
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18,5	350	300	400	18,5	5	70	388	397	328	318	364	25	528	518	17	296	770
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18,5	400	350	450	18,5	5	75	431	445	351	341	368	28	576	566	20	329	807
225M	2	356	311	149	55	110	16	49	M20x42	225	18,5	400	350	450	18,5	5	75	431	445	351	341	393	28	576	566	20	299	802
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18,5	400	350	450	18,5	5	75	431	445	351	341	393	28	576	566	20	329	832
250M	2	406	349	168	60	140	18	53	M20x42	250	24	500	450	550	18,5	5	80	484	484	375	375	445	30	625	625	22	347	933
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	500	450	550	18,5	5	80	484	484	375	375	445	30	625	625	22	347	933
280S	2	457	368	190	65	140	18	58	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	485	35	684	679	22	353	986
	4,6,8	457	368	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	485	35	684	679	22	353	986
280M	2	457	419	190	65	140	18	58	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	536	35	684	679	22	353	1035
	4,6,8	457	419	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	536	35	684	679	22	353	1035
315S	2	508	406	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	570	45	847	841	22	396	1185
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	570	45	847	841	22	426	1215
315M	2	508	457	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	396	1298
	4,6,8	508	457	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	426	1328
315L	2	508	508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	396	1298
	4,6,8	508	508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	426	1328
355M	2	610	560	254	75	140	20	67,5	M20x42	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	403	1497
	4,6,8	610	560	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	433	1527
355L	2	610	630	254	75	140	20	67,5	M20x42	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	403	1497
	4,6,8	610	630	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	433	1527
355 <sup>1</sup> 355 <sup>2</sup> 355 <sup>3</sup>	2	630	800	224	80	170	22	71	M24x47	355	35	840	780	900	24	6	135	760	750			1140	52		1012	28	472	1868
	4,6,8	630	800	224	110	210	28	100	M24x47	355	35	840	780	900	24	6	135	760	750			1140	52		1012	28	512	1928
400	2	686	710	280	85	170	22	76	M24x47	400	35	940	880	1000	28	6	120	860	860			1180	45		1100	28	526	1895
	4,6,8	686	710	280	120	210	32	109	M24x47	400	35	940	880	1000	28	6	120	860	860			1180	45		1100	28	566	1955



### Dimensions IE1

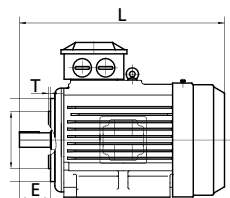
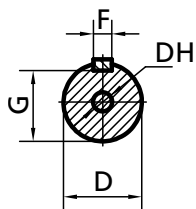
### B14A / B14B

Frame size	Poles	D	E	F	G	DH	H	B14A					B14B					AC	AD	L
								M	N	P	S	T	M	N	P	S	T			
80	2,4,6,8	19	40	6	15,5	M6x16	80	100	80	120	M6	3	130	110	160	M8	3,5	155	145	285
90S	2,4,6,8	24	50	8	20	M8x19	90	115	95	140	M8	3	130	110	160	M8	3,5	175	155	313
90L	2,4,6,8	24	50	8	20	M8x19	90	115	95	140	M8	3	130	110	160	M8	3,5	175	155	338
100L	2,4,6,8	28	60	8	24	M10x22	100	130	110	160	M8	3,5	165	130	200	M10	3,5	195	169	375
112M	2,4,6,8	28	60	8	24	M10x22	112	130	110	160	M8	3,5	165	130	200	M10	3,5	219	182	392
132S	2,4,6,8	38	80	10	33	M12x28	132	165	130	200	M10	3,5	215	180	250	M12	4	258	202	464
132M	2,4,6,8	38	80	10	33	M12x28	132	165	130	200	M10	3,5	215	180	250	M12	4	258	202	502

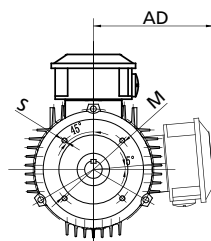
### Dimensions IE1

### B34A / B34B

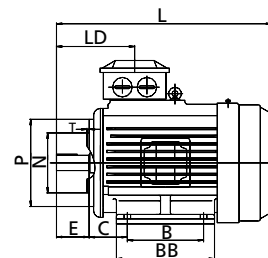
Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	B34A					B34B					AA	AB	AC	AD	BB	HA	HD	LD	L
												M	N	P	S	T	M	N	P	S	T									
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	100	80	120	M6	3	130	110	160	M8	3,5	33	160	155	145	130	9	225	112	285
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	115	95	140	M8	3	130	110	160	M8	3,5	36	180	175	155	140	12	245	125	313
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	115	95	140	M8	3	130	110	160	M8	3,5	36	180	175	155	166	12	245	125	338
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	130	110	160	M8	3,5	165	130	200	M10	3,5	40	200	195	169	176	14	269	143	375
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	130	110	160	M8	3,5	165	130	200	M10	3,5	45	226	219	182	180	15	294	147	392
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	165	130	200	M10	3,5	215	180	250	M12	4	55	262	258	202	186	18	334	177	464
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	165	130	200	M10	3,5	215	180	250	M12	4	55	262	258	202	224	18	334	177	502



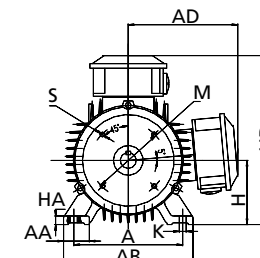
B14



B14




B34




B34


Technical data IE2

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D2 801-2	0.86	3462	1.7	0.75	2885						
3D2 802-2	1.3	3462	2.4	1.1	2885	4.16	2.4		81.3	82.1	80.9	0.83	7.3	2.3	2.3	0.0013	16.5
3D2 90 S-2	1.7	3462	3.2	1.5	2885	5.54	3.2		83.4	83.8	82.5	0.84	7.6	2.0	2.3	0.0020	22.5
3D2 90 L-2	2.5	3468	4.5	2.2	2890	7.79	4.5		85.2	85.9	85.1	0.85	7.8	2.3	2.3	0.0026	27
3D2 100 L-2	3.5	3474	5.9	3	2895	10.2	5.9		85.9	86.9	86.6	0.87	8.1	2.3	2.3	0.0042	36
3D2 112 M-2	4.6	3474	7.6	4	2895		7.6	4.4	87.2	87.9	87.4	0.88	8.3	2.3	2.3	0.0058	44
3D2 132 S1-2	6.3	3504	10.4	5.5	2920		10.4	6.0	89.0	89.1	88.0	0.88	8.0	2.2	2.3	0.0128	60
3D2 132 S2-2	8.6	3498	13.8	7.5	2915		13.8	8.0	89.6	90.0	89.4	0.89	7.8	2.2	2.3	0.0151	70
3D2 160 M1-2	12.7	3534	20.0	11	2945		20.0	11.5	90.3	90.3	89.1	0.89	7.9	2.2	2.3	0.0489	119
3D2 160 M2-2	17.3	3534	26.9	15	2945		26.9	15.5	91.6	91.6	90.7	0.89	8.0	2.2	2.3	0.0559	128
3D2 160 L-2	21.3	3528	33.0	18.5	2940		33.0	19.1	92.2	92.2	91.3	0.89	8.1	2.2	2.3	0.0648	134
3D2 180 M-2	25.3	3552	39.1	22	2960		39.1	22.6	92.1	91.9	90.5	0.89	8.2	2.2	2.3	0.0808	191
3D2 200 L1-2	34.5	3558	52.9	30	2965		52.9	30.5	92.7	92.6	91.5	0.89	7.5	2.2	2.3	0.1630	237
3D2 200 L2-2	42.6	3558	64.9	37	2965		64.9	37.5	93.3	93.2	92.2	0.89	7.5	2.1	2.3	0.1720	254
3D2 225 M-2	52	3558	78.6	45	2965		78.6	45.4	93.7	93.5	92.5	0.89	7.6	2.2	2.3	0.3020	307
3D2 250 M-2	63	3558	95.7	55	2965		95.7	55.3	93.8	93.6	92.6	0.89	7.6	2.2	2.3	0.4200	390
3D2 280 S-2	86	3576	129.7	75	2980		129.7	74.9	94.4	94.0	92.7	0.89	6.9	2.0	2.3	0.9860	521
3D2 280 M-2	104	3564	155.1	90	2970		155.1	89.5	94.8	94.5	93.4	0.89	7.0	2.0	2.3	1.0400	551
3D2 315 S-2	127	3576	187.1	110	2980		187.1	108.0	94.7	94.4	93.1	0.90	7.1	2.0	2.2	1.3300	840
3D2 315 M-2	152	3576	223.8	132	2980		223.8	129.2	95.3	94.9	93.6	0.90	7.1	2.0	2.2	1.5000	877
3D2 315 L1-2	184	3576	267.7	160	2980		267.7	154.6	95.6	95.3	94.2	0.91	7.1	2.0	2.2	1.6700	975
3D2 315 L2-2	230	3576	333.9	200	2980		333.9	192.8	95.5	95.1	93.9	0.91	7.1	2.0	2.2	1.8800	1178
3D2 355 M-2	288	3582	417.4	250	2985		417.4	241.0	95.4	94.7	93.3	0.91	7.1	1.7	2.2	4.0200	1611
3D2 355 L-2	362	3582	525.9	315	2985		525.9	303.6	95.6	95.5	93.6	0.91	7.1	1.7	2.2	4.8600	1801
3D2 355 1-2	408	3582	592.7	355	2985		592.7	342.2	95.3	95.2	94.5	0.91	7.2	1.6	2.2	7.5500	2247
3D2 355 2-2	460	3582	675.2	400	2985		675.2	389.8	95.3	95.4	94.6	0.90	8.6	0.9	1.8	11.898	2308
3D2 355 3-2	518	3582	759.7	450	2985		759.7	438.6	95.4	95.3	94.7	0.90	8.6	0.8	1.8	12.956	2403
3D2 400M1-2	408	3582	592.7	355	2985		592.7	342.2	95.0	95.1	94.2	0.91	7.2	1.6	2.2	10.047	2450
3D2 400M2-2	460	3582	675.2	400	2985		675.2	389.8	95.0	95.1	94.2	0.90	8.6	0.9	1.8	11.898	2716
3D2 400M3-2	518	3582	759.7	450	2985		759.7	438.6	95.0	95.1	94.3	0.90	8.6	0.8	1.8	12.956	2985
3D2 400L1-2	575	3582	844.1	500	2985		844.1	487.4	95.2	95.4	94.6	0.90	8.6	0.8	1.8	15.600	3137
3D2 400L2-2	644	3582	935.0	560	2985		935.0	539.8	95.3	95.3	94.5	0.91	8.7	0.8	1.8	17.000	3280
3D2 400L3-2				630	2985			609.8	95.3	95.3	94.6	0.91	8.7	0.8	1.8	18.400	3349


## Technical data IE2

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D2 80 1-4	0.63	1710	1.3	0.55	1425						
3D2 80 2-4	0.86	1722	1.8	0.75	1435	3.12	1.8		81.6	82.1	80.4	0.75	6.5	2.3	2.3	0.0020	17
3D2 90 S-4	1.3	1722	2.6	1.1	1435	4.50	2.6		83.2	83.8	82.4	0.75	6.6	2.0	2.3	0.0030	23
3D2 90 L-4	1.7	1728	3.5	1.5	1440	6.06	3.5		84.5	85.6	85.1	0.75	6.9	2.3	2.3	0.0038	25
3D2 100 L1-4	2.5	1746	4.7	2.2	1455	8.1	4.7		85.7	86.4	85.6	0.81	7.5	2.3	2.3	0.0077	37.5
3D2 100 L2-4	3.5	1746	6.2	3	1455	10.7	6.2		86.6	87.4	87.0	0.82	7.6	2.3	2.3	0.0093	42
3D2 112 M-4	4.6	1746	8.1	4	1455		8.1	4.7	87.9	88.5	87.9	0.82	7.7	2.1	2.3	0.0128	51
3D2 132 S-4	6.3	1752	11.0	5.5	1460		11.0	6.4	89.2	89.4	88.4	0.82	7.5	2.0	2.3	0.0285	69
3D2 132 M-4	8.6	1752	14.7	7.5	1460		14.7	8.5	90.0	90.4	89.7	0.83	7.4	2.0	2.3	0.0366	76
3D2 160 M-4	12.7	1764	20.8	11	1470		20.8	12.0	90.8	91.1	90.4	0.85	7.5	2.2	2.3	0.0771	118
3D2 160 L-4	17.3	1764	27.8	15	1470		27.8	16.1	91.4	91.6	90.9	0.86	7.5	2.2	2.3	0.1010	139
3D2 180 M-4	21.3	1770	34.0	18.5	1475		34.0	19.6	92.0	92.3	91.6	0.86	7.7	2.2	2.3	0.1520	186
3D2 180 L-4	25.3	1770	40.3	22	1475		40.3	23.3	92.5	92.7	91.9	0.86	7.8	2.2	2.3	0.1870	197
3D2 200 L-4	34.5	1776	54.6	30	1480		54.6	31.5	92.9	92.9	92.1	0.86	7.2	2.2	2.3	0.2850	261
3D2 225 S-4	42.6	1782	67.0	37	1485		67.0	38.7	93.3	93.3	92.4	0.86	7.3	2.2	2.3	0.4730	308
3D2 225 M-4	52	1782	81.1	45	1485		81.1	46.8	93.9	93.9	93.0	0.86	7.4	2.2	2.3	0.5540	318
3D2 250 M-4	63	1776	98.7	55	1480		98.7	57.0	94.0	93.8	92.8	0.86	7.4	2.2	2.3	0.7510	420
3D2 280 S-4	86	1788	130.9	75	1490		130.9	75.6	94.4	94.2	93.2	0.88	6.7	2.2	2.3	1.9200	530
3D2 280 M-4	104	1788	156.7	90	1490		156.7	90.5	94.8	94.6	93.7	0.88	6.9	2.2	2.3	2.3200	611
3D2 315 S-4	127	1788	190.9	110	1490		190.9	110.2	94.9	94.6	93.4	0.88	6.9	2.0	2.2	2.3400	870
3D2 315 M-4	152	1788	228.6	132	1490		228.6	132.0	95.3	95.0	94.0	0.88	6.9	2.0	2.2	2.5800	963
3D2 315 L1-4	184	1788	273.4	160	1490		273.4	157.9	95.5	95.3	94.4	0.89	6.9	2.2	2.2	2.9600	1046
3D2 315 L2-4	230	1788	341.1	200	1490		341.1	196.9	95.5	95.2	94.3	0.89	6.9	2.2	2.2	3.4600	1155
3D2 355 M-4	288	1788	421.6	250	1490		421.6	243.4	95.2	94.8	93.5	0.90	6.9	2.0	2.2	6.6000	1577
3D2 355 L-4	362	1788	531.2	315	1490		531.2	306.7	95.6	95.2	94.1	0.90	6.9	2.0	2.2	7.5500	1800
3D2 355 1-4	408	1788	605.4	355	1490		605.4	349.5	95.5	95.7	94.6	0.89	7.2	1.6	2.2	7.5500	2130
3D2 355 2-4	460	1788	689.9	400	1490		689.9	398.3	95.3	95.4	94.4	0.88	8.6	0.9	1.8	11.898	2384
3D2 355 3-4	518	1788	776.1	450	1490		776.1	448.1	95.2	95.2	94.4	0.88	8.6	0.8	1.8	12.956	2520
3D2 400M1-4	408	1788	605.4	355	1490		605.4	349.5	95.1	95.1	94.1	0.89	7.2	1.6	2.2	10.100	2370
3D2 400M2-4	460	1788	689.9	400	1490		689.9	398.3	95.1	95.1	94.2	0.88	8.6	0.9	1.8	10.900	2586
3D2 400M3-4	518	1788	776.1	450	1490		776.1	448.1	95.1	95.1	94.2	0.88	8.6	0.8	1.8	13.200	2733
3D2 400L1-4	575	1788	862.4	500	1490		862.4	497.9	95.3	95.1	94.5	0.88	8.6	0.8	1.8	15.600	2946
3D2 400L2-4	644	1788	955.0	560	1490		955.0	551.4	95.1	95.1	94.3	0.89	8.7	0.8	1.8	17.000	3414
3D2 400L3-4				630	1490			622.8	95.2	95.1	94.4	0.89	8.7	0.8	1.8	18.400	3507


## Technical data IE2

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D2 801-6	0.43	1080	1.1	0.37	900						
3D2 802-6	0.63	1080	1.5	0.55	900	2.60	1.5		73.3	73.4	71.7	0.72	4.7	1.9	2.0	0.0025	20
3D2 90 S-6	0.86	1140	2.0	0.75	950	3.46	2.0		77.7	78.1	75.7	0.72	5.8	2.1	2.1	0.0038	23
3D2 90 L-6	1.3	1140	2.8	1.1	950	4.85	2.8		79.4	80.3	79.0	0.73	5.9	2.1	2.1	0.0053	27
3D2 100 L-6	1.7	1146	3.7	1.5	955	6.4	3.7		82.7	83.5	82.4	0.74	6.0	2.1	2.1	0.0107	36
3D2 112 M-6	2.5	1146	5.2	2.2	955	9.0	5.2		83.2	83.4	81.6	0.74	6.0	2.1	2.1	0.0151	46
3D2 132 S-6	3.5	1170	7.0	3	975	12.1	7.0		85.3	85.5	83.9	0.74	6.2	2.0	2.1	0.0318	65
3D2 132 M1-6	4.6	1170	9.2	4	975		9.2	5.3	86.4	86.6	85.1	0.74	6.8	2.0	2.1	0.3940	73
3D2 132 M2-6	6.3	1170	12.3	5.5	975		12.3	7.1	87.6	87.9	86.8	0.75	7.1	2.0	2.1	0.0494	82
3D2 160 M-6	8.6	1176	15.9	7.5	980		15.9	9.2	89.1	89.4	88.5	0.78	6.7	2.1	2.1	0.0964	111
3D2 160 L-6	12.7	1176	22.7	11	980		22.7	13.1	89.7	90.0	89.2	0.79	6.9	2.1	2.1	0.1270	132
3D2 180 L-6	17.3	1176	29.8	15	980		29.8	17.2	91.0	91.2	90.6	0.81	7.2	2.0	2.1	0.2010	176
3D2 200 L1-6	21.3	1182	36.5	18.5	985		36.5	21.1	91.7	91.8	90.9	0.81	7.2	2.1	2.1	0.3250	222
3D2 200 L2-6	25.3	1176	42.6	22	980		42.6	24.6	91.8	92.0	91.2	0.82	7.3	2.1	2.1	0.3710	242
3D2 225 M-6	34.5	1176	58.3	30	980		58.3	33.7	93.0	93.0	92.1	0.81	7.1	2.0	2.1	0.5330	292
3D2 250 M-6	42.6	1188	69.0	37	990		69.0	39.8	92.6	92.7	91.9	0.84	7.1	2.1	2.1	0.8770	369
3D2 280 S-6	52	1188	81.5	45	990		81.5	47.1	93.5	93.4	92.6	0.86	7.2	2.1	2.0	1.8500	511
3D2 280 M-6	63	1188	99.2	55	990		99.2	57.3	93.8	93.8	93.0	0.86	7.2	2.1	2.0	2.1200	656
3D2 315 S-6	86	1194	135.9	75	995		135.9	78.5	94.4	94.2	93.2	0.85	6.7	2.0	2.0	2.6100	851
3D2 315 M-6	104	1194	164.5	90	995		164.5	95.0	94.7	94.5	93.6	0.84	6.7	2.0	2.0	3.0400	973
3D2 315 L1-6	127	1194	198.1	110	995		198.1	114.4	94.9	94.8	93.9	0.85	6.7	2.0	2.0	3.7100	1022
3D2 315 L2-6	152	1194	234.2	132	995		234.2	135.2	95.3	95.2	94.4	0.86	6.7	2.0	2.0	4.2400	1112
3D2 355 M1-6	184	1194	280.0	160	995		280.0	161.7	95.2	94.9	93.9	0.87	6.7	1.8	2.0	7.4400	1628
3D2 355 M2-6	230	1194	353.3	200	995		353.3	204.0	95.3	95.0	94.0	0.86	6.7	1.8	2.0	9.1000	1760
3D2 355 L-6	288	1194	436.6	250	995		436.6	252.1	95.8	95.6	94.8	0.87	6.7	1.8	2.0	10.800	1924
3D2 355 2-6	362	1194	583.6	315	995		583.6	337.0	95.2	95.2	94.2	0.82	7.8	0.75	1.8	28.400	2373
3D2 355 3-6	408	1194	657.8	355	995		657.8	379.8	95.3	95.2	94.3	0.82	7.8	0.75	1.8	30.210	2710
3D2 400M1-6	362	1194	583.6	315	995		583.6	337.0	95.0	95.0	94.2	0.82	7.8	0.75	1.8	28.400	3003
3D2 400M2-6	408	1194	657.8	355	995		657.8	379.8	95.0	95.0	94.3	0.82	7.8	0.75	1.8	30.210	3410
3D2 400L1-6	460	1194	732.2	400	995		732.2	422.7	95.1	95.1	94.2	0.83	7.9	0.75	1.8	32.790	3358
3D2 400L2-6	518	1194	823.7	450	995		823.7	475.6	95.2	95.0	94.4	0.83	7.9	0.6	1.8	36.150	3741
3D2 400L3-6				500	995			530.6	95.2	95.1	94.3	0.83	7.9	0.6	1.8	38.720	4061


## Technical data IE2

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/I <sub>n</sub>	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D2 132 S-8	2.5	846	5.8	2.2	705						
3D2 132 M-8	3.5	846	7.4	3	705	12.8	7.4		80.2	80.1	79.0	0.73	6.9	1.8	2.0	0.0392	68
3D2 160 M1-8	4.6	864	9.7	4	720		9.7	5.6	81.7	82.0	79.4	0.73	6.9	1.9	2.0	0.0635	98
3D2 160 M2-8	6.3	864	12.8	5.5	720		12.8	7.4	83.9	83.7	81.6	0.74	6.9	1.9	2.0	0.0897	110
3D2 160 L-8	8.6	864	16.9	7.5	720		16.9	9.8	85.2	85.3	83.7	0.75	6.6	1.9	2.0	0.1270	132
3D2 180 L-8	12.7	876	24.4	11	730		24.4	14.1	87.0	87.0	85.1	0.75	6.6	1.9	2.0	0.2140	176
3D2 200 L-8	17.3	876	32.4	15	730		32.4	18.7	88.2	88.2	86.1	0.76	6.8	2.0	2.0	0.3490	232
3D2 225 S-8	21.3	876	39.7	18.5	730		39.7	22.9	88.6	88.4	87.2	0.76	6.8	1.9	2.0	0.5200	268
3D2 225 M-8	25.3	876	45.7	22	730		45.7	26.4	89.2	89.1	87.4	0.78	7.0	1.9	2.0	0.6200	288
3D2 250 M-8	34.5	882	61.0	30	735		61.0	35.2	89.7	89.6	88.0	0.79	6.7	1.9	2.0	0.8900	372
3D2 280 S-8	42.6	882	74.9	37	735		74.9	43.2	90.2	90.1	88.4	0.79	6.7	1.9	2.0	1.7100	472
3D2 280 M-8	52	882	90.6	45	735		90.6	52.3	90.7	90.8	89.2	0.79	6.7	1.9	2.0	2.1500	530
3D2 315 S-8	63	882	107.7	55	735		107.7	62.2	91.0	90.9	89.4	0.81	6.8	1.8	2.0	3.7900	804
3D2 315 M-8	86	882	145.9	75	735		145.9	84.2	91.6	91.5	90.8	0.81	6.3	1.8	2.0	5.2000	1000
3D2 315 L1-8	104	882	172.4	90	735		172.4	99.5	92.0	91.9	90.1	0.82	6.4	1.8	2.0	6.1900	1018
3D2 315 L2-8	127	882	209.8	110	735		209.8	121.1	92.3	92.3	91.0	0.82	6.4	1.8	2.0	7.2600	1118
3D2 355 M1-8	152	888	250.9	132	740		250.9	144.9	92.6	92.6	91.6	0.82	6.4	1.8	2.0	11.850	1584
3D2 355 M2-8	184	888	302.8	160	740		302.8	174.8	93.1	92.7	91.6	0.82	6.4	1.8	2.0	14.500	1734
3D2 355 L-8	230	888	372.0	200	740		372.0	214.8	93.6	93.6	92.1	0.83	6.4	1.7	2.0	18.120	1850
3D2 355 1-8	288	894	482.4	250	745		482.4	278.5	93.7	93.5	92.1	0.80	7.5	1.1	1.8	31.050	2234
3D2 355 2-8	322	894	540.3	280	745		540.3	312.0	93.6	93.4	92.5	0.80	7.5	0.9	1.8	33.760	2470
3D2 355 3-8	362	894	607.8	315	745		607.8	350.9	93.4	93.4	92.4	0.80	7.5	0.9	1.8	39.190	2692
3D2 400M1-8	288	894	482.4	250	745		482.4	278.5	93.5	93.5	92.4	0.80	7.5	1.1	1.8	31.050	2914
3D2 400M2-8	322	894	540.3	280	745		540.3	312.0	93.5	93.4	92.5	0.80	7.5	0.9	1.8	33.760	3070
3D2 400M3-8	362	894	607.8	315	745		607.8	350.9	93.5	93.4	92.4	0.80	7.5	0.9	1.8	39.190	3392
3D2 400L1-8	408	894	685.0	355	745		685.0	395.5	93.4	93.4	92.2	0.80	7.5	0.9	1.8	45.220	3592
3D2 400L2-8				400	740			447.5	93.5	93.5	92.3	0.80	7.5	0.9	1.8	48.230	3949


## Technical data IE3

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D3 801-2	0.86	3462	1.6	0.75	2885	2.77	1.6		81.6	81.9	80.1	0.82	7.0	2.3	2.3	0.0010	15
3D3 802-2	1.3	3462	2.3	1.1	2885	3.98	2.3		83.5	84.3	83.4	0.83	7.3	2.2	2.3	0.0013	17.5
3D3 90 S-2	1.7	3474	3.0	1.5	2895	5.20	3.0		84.8	85.2	84.1	0.84	7.6	2.2	2.3	0.0021	22.5
3D3 90 L-2	2.5	3480	4.4	2.2	2900	7.62	4.4		86.5	87.1	86.4	0.85	7.6	2.2	2.3	0.0028	24.5
3D3 100 L-2	3.5	3468	5.7	3	2890	9.9	5.7		87.6	88.4	88.2	0.87	7.8	2.2	2.3	0.0046	35.5
3D3 112 M-2	4.6	3480	7.4	4	2900		7.4	4.3	88.7	89.3	88.7	0.88	8.3	2.2	2.3	0.0074	43
3D3 132 S1-2	6.3	3510	10.1	5.5	2925		10.1	5.8	89.8	89.9	89.0	0.88	8.3	2.0	2.3	0.0145	61
3D3 132 S2-2	8.6	3510	13.7	7.5	2925		13.7	7.9	90.7	91.0	90.5	0.88	7.9	2.0	2.3	0.0176	65
3D3 160 M1-2	12.7	3534	19.6	11	2945		19.6	11.3	91.7	91.8	90.9	0.89	8.1	2.0	2.3	0.0513	111
3D3 160 M2-2	17.3	3540	26.5	15	2950		26.5	15.3	92.8	92.9	92.1	0.89	8.1	2.0	2.3	0.0654	120
3D3 160 L-2	21.3	3534	32.5	18.5	2945		32.5	18.8	92.9	93.1	92.5	0.89	8.2	2.0	2.3	0.0760	135
3D3 180 M-2	25.3	3546	38.5	22	2955		38.5	22.2	92.8	92.6	91.5	0.89	8.2	2.0	2.3	0.1183	177
3D3 200 L1-2	34.5	3558	52.2	30	2965		52.2	30.1	93.6	93.6	92.8	0.89	7.6	2.0	2.3	0.1649	220
3D3 200 L2-2	42.6	3558	64.0	37	2965		64.0	37.0	93.8	93.8	93.1	0.89	7.6	2.0	2.3	0.1945	231
3D3 225 M-2	52	3558	76.8	45	2965		76.8	44.3	94.2	94.1	93.4	0.90	7.7	2.0	2.3	0.3097	295
3D3 250 M-2	63	3564	93.6	55	2970		93.6	54.0	94.4	94.1	93.1	0.90	7.7	2.0	2.3	0.4168	410
3D3 280 S-2	86	3570	127.0	75	2975		127.0	73.3	94.8	94.5	93.5	0.90	7.1	1.8	2.3	0.6849	521
3D3 280 M-2	104	3570	151.9	90	2975		151.9	87.7	95.1	94.9	94.1	0.90	7.1	1.8	2.3	0.8015	578
3D3 315 S-2	127	3576	185.3	110	2980		185.3	107.0	95.5	95.2	94.2	0.90	7.1	1.8	2.3	1.5305	907
3D3 315 M-2	152	3570	221.9	132	2975		221.9	128.1	95.6	95.3	94.3	0.90	7.1	1.8	2.3	1.7253	909
3D3 315 L1-2	184	3570	265.4	160	2975		265.4	153.2	95.9	95.7	94.9	0.91	7.2	1.8	2.3	2.0592	1153
3D3 315 L2-2	230	3570	331.2	200	2975		331.2	191.2	95.9	95.6	94.6	0.91	7.2	1.8	2.2	2.5045	1175
3D3 355 M-2	288	3576	413.9	250	2980		413.9	239.0	95.9	95.5	94.3	0.91	7.2	1.6	2.2	3.1254	1615
3D3 355 L-2	362	3576	515.9	315	2980		515.9	297.9	96.1	95.6	94.5	0.91	7.2	1.5	2.2	3.7504	1764
3D3 355 1-2	408	3582	587.8	355	2985		587.8	339.4	96.1	95.9	95.2	0.91	7.2	1.5	2.2	7.5500	2107
3D3 355 2-2	460	3582	669.6	400	2985		669.6	386.6	96.3	95.8	94.6	0.90	8.6	0.9	1.8	11.898	2308
3D3 355 3-2	518	3582	753.3	450	2985		753.3	434.9	96.2	96.2	95.9	0.90	8.6	0.8	1.8	12.956	2403
3D3 400M1-2	408	3582	587.8	355	2985		587.8	339.4	96.1	95.9	95.2	0.91	7.2	1.6	2.2	10.047	2450
3D3 400M2-2	460	3582	669.6	400	2985		669.6	386.6	96.3	95.8	94.6	0.90	8.6	0.9	1.8	11.898	2816
3D3 400M3-2	518	3582	753.3	450	2985		753.3	434.9	96.2	96.2	95.9	0.90	8.6	0.8	1.8	12.956	2985
3D3 400L1-2	575	3582	837.0	500	2985		837.0	483.3	96.1	96.2	95.3	0.90	8.6	0.8	1.8	15.600	3002
3D3 400L2-2	644	3582	927.2	560	2985		927.2	535.3	95.9	96.1	94.9	0.91	8.7	0.8	1.8	17.000	3126
3D3 400L3-2				630	2985			604.7	95.9	96.1	95.3	0.91	8.7	0.8	1.8	18.400	3426


## Technical data IE3

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D3 80 1-4	0.63	1722	1.3	0.55	1435						
3D3 80 2-4	0.86	1722	1.7	0.75	1435	2.94	1.7		83.3	83.5	81.7	0.75	6.6	2.3	2.3	0.0023	16.5
3D3 90 S-4	1.3	1722	2.5	1.1	1435	4.33	2.5		84.8	85.6	84.7	0.76	6.8	2.3	2.3	0.0037	21
3D3 90 L-4	1.7	1722	3.3	1.5	1435	5.72	3.3		85.9	86.7	86.0	0.77	7.0	2.3	2.3	0.0048	24.5
3D3 100 L1-4	2.5	1740	4.6	2.2	1450	8.0	4.6		87.2	87.6	86.8	0.81	7.6	2.3	2.3	0.0090	34
3D3 100 L2-4	3.5	1740	6.0	3	1450	10.4	6.0		88.2	88.8	88.2	0.82	7.6	2.3	2.3	0.0120	39
3D3 112 M-4	4.6	1746	8.0	4	1455		8.0	4.6	89.3	89.6	88.6	0.82	7.8	2.2	2.3	0.0175	48
3D3 132 S-4	6.3	1752	10.6	5.5	1460		10.6	6.1	90.4	90.8	90.2	0.83	7.9	2.0	2.3	0.0350	61
3D3 132 M-4	8.6	1752	14.3	7.5	1460		14.3	8.3	90.9	91.4	91.0	0.84	7.5	2.0	2.3	0.0447	78
3D3 160 M-4	12.7	1764	20.4	11	1470		20.4	11.8	91.8	92.0	91.4	0.85	7.7	2.2	2.3	0.0974	107
3D3 160 L-4	17.3	1764	27.4	15	1470		27.4	15.8	92.7	92.9	92.5	0.86	7.8	2.2	2.3	0.1239	131
3D3 180 M-4	21.3	1770	33.5	18.5	1475		33.5	19.3	93.0	93.2	92.6	0.86	7.8	2.0	2.3	0.1811	180
3D3 180 L-4	25.3	1770	39.7	22	1475		39.7	22.9	93.3	93.5	93.0	0.86	7.8	2.0	2.3	0.2242	197
3D3 200 L-4	34.5	1770	53.8	30	1475		53.8	31.1	93.9	93.9	93.3	0.86	7.3	2.0	2.3	0.3631	243
3D3 225 S-4	42.6	1776	66.1	37	1480		66.1	38.2	94.1	94.2	93.6	0.86	7.4	2.0	2.3	0.5589	279
3D3 225 M-4	52	1776	80.2	45	1480		80.2	46.3	94.6	94.7	94.3	0.86	7.4	2.0	2.3	0.6351	315
3D3 250 M-4	63	1782	97.6	55	1485		97.6	56.4	95.1	95.0	94.4	0.86	7.4	2.2	2.3	0.8994	414
3D3 280 S-4	86	1782	129.5	75	1485		129.5	74.8	95.3	95.3	94.5	0.88	6.9	2.0	2.3	1.6251	538
3D3 280 M-4	104	1782	155.0	90	1485		155.0	89.5	95.2	95.2	94.6	0.88	6.9	2.0	2.3	1.9672	594
3D3 315 S-4	127	1782	187.0	110	1485		187.0	108.0	95.5	95.4	94.6	0.89	7.0	2.0	2.2	3.2735	860
3D3 315 M-4	152	1782	223.9	132	1485		223.9	129.3	95.7	95.6	95.0	0.89	7.0	2.0	2.2	3.6959	978
3D3 315 L1-4	184	1782	270.8	160	1485		270.8	156.4	95.9	95.8	95.3	0.89	7.1	2.0	2.2	4.2239	1082
3D3 315 L2-4	230	1782	334.1	200	1485		334.1	192.9	96.0	95.9	95.3	0.90	7.1	2.0	2.2	5.9135	1158
3D3 355 M-4	288	1788	417.6	250	1490		417.6	241.1	96.0	95.6	94.7	0.90	7.1	2.0	2.2	9.6762	1624
3D3 355 L-4	362	1788	526.2	315	1490		526.2	303.8	96.1	95.9	95.2	0.90	7.1	2.0	2.2	10.5721	1764
3D3 355 1-4	408	1788	606.5	355	1490		606.5	350.2	96.5	96.2	95.3	0.88	7.0	1.7	2.2	15.1082	2044
3D3 355 2-4	460	1788	683.4	400	1490		683.4	394.6	96.4	95.9	94.8	0.88	8.4	0.9	1.8	10.109	2783
3D3 355 3-4	518	1788	768.8	450	1490		768.8	443.9	96.5	96.0	95.0	0.88	8.4	0.8	1.8	12.220	2817
3D3 400M1-4	408	1788	606.5	355	1490		606.5	350.2	96.5	96.2	95.3	0.88	7.0	1.7	2.2	10.100	2370
3D3 400M2-4	460	1788	683.4	400	1490		683.4	394.6	96.4	95.9	94.8	0.88	8.4	0.9	1.8	10.900	2786
3D3 400M3-4	518	1788	768.8	450	1490		768.8	443.9	96.5	96.0	95.0	0.88	8.4	0.8	1.8	13.200	3006
3D3 400L1-4	575	1788	854.3	500	1490		854.3	493.2	96.5	96.0	94.9	0.88	8.4	0.8	1.8	14.440	3211
3D3 400L2-4	644	1788	946.0	560	1490		946.0	546.2	96.6	96.3	95.3	0.89	8.5	0.8	1.8	14.890	3379
3D3 400L3-4				630	1490			617.0	96.6	96.2	95.1	0.89	8.5	0.8	1.0	17.110	3468

## Technical data IE3

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/I <sub>n</sub>	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D3 801-6	0.43	1080	1.0	0.37	900						
3D3 802-6	0.63	1080	1.4	0.55	900	2.42	1.4		77.3	77.3	75.2	0.72	6.0	1.9	2.0	0.0027	20
3D3 90 S-6	0.86	1146	1.9	0.75	955	3.29	1.9		81.1	81.4	79.6	0.71	6.0	1.9	2.1	0.0048	21.5
3D3 90 L-6	1.3	1146	2.7	1.1	955	4.68	2.7		82.9	83.6	82.2	0.73	6.0	1.9	2.1	0.0071	24.5
3D3 100 L-6	1.7	1146	3.6	1.5	955	6.2	3.6		83.8	84.5	83.4	0.73	6.5	2.0	2.1	0.0126	38
3D3 112 M-6	2.5	1140	5.1	2.2	950	8.8	5.1		84.5	85.3	84.3	0.74	6.6	2.0	2.1	0.0191	43
3D3 132 S-6	3.5	1164	6.8	3	970	11.8	6.8		86.6	87.0	85.9	0.74	6.8	1.9	2.1	0.0357	55
3D3 132 M1-6	4.6	1164	9.0	4	970		9.0	5.2	87.7	88.0	87.0	0.74	6.8	1.8	2.1	0.0477	66
3D3 132 M2-6	6.3	1164	12.1	5.5	970		12.1	7.0	88.6	89.0	88.3	0.75	7.0	2.0	2.1	0.0630	75
3D3 160 M-6	8.6	1170	15.4	7.5	975		15.4	8.9	90.1	90.4	89.7	0.79	7.0	2.0	2.1	0.1119	104
3D3 160 L-6	12.7	1170	21.9	11	975		21.9	12.6	90.8	91.4	91.0	0.80	7.2	2.0	2.1	0.1492	132
3D3 180 L-6	17.3	1176	29.4	15	980		29.4	17.0	91.9	92.5	92.3	0.81	7.3	2.0	2.1	0.2574	183
3D3 200 L1-6	21.3	1176	35.9	18.5	980		35.9	20.7	92.5	92.9	92.4	0.81	7.3	1.8	2.1	0.3881	211
3D3 200 L2-6	25.3	1176	42.6	22	980		42.6	24.6	92.8	93.1	92.8	0.81	7.4	2.0	2.1	0.4478	223
3D3 225 M-6	34.5	1182	56.1	30	985		56.1	32.4	93.3	93.6	93.2	0.83	6.9	1.9	2.1	0.6342	290
3D3 250 M-6	42.6	1182	68.1	37	985		68.1	39.3	93.7	93.8	93.2	0.84	7.1	2.0	2.1	1.0787	378
3D3 280 S-6	52	1182	81.5	45	985		81.5	47.1	94.0	94.2	93.7	0.85	7.3	2.0	2.0	1.7050	498
3D3 280 M-6	63	1182	98.1	55	985		98.1	56.6	94.3	94.5	94.2	0.86	7.3	2.0	2.0	2.0619	564
3D3 315 S-6	86	1188	136.2	75	990		136.2	78.6	95.0	95.0	94.3	0.84	6.6	2.0	2.0	3.9210	814
3D3 315 M-6	104	1188	161.0	90	990		161.0	93.0	95.2	95.2	94.6	0.85	6.7	2.0	2.0	4.2711	894
3D3 315 L1-6	127	1188	196.5	110	990		196.5	113.5	95.4	95.4	94.9	0.85	6.7	2.0	2.0	5.4614	936
3D3 315 L2-6	152	1188	232.2	132	990		232.2	134.1	95.6	95.7	95.2	0.86	6.8	2.0	2.0	6.5817	1030
3D3 355 M1-6	184	1188	280.9	160	990		280.9	162.2	95.6	95.4	94.5	0.86	6.8	1.8	2.0	10.3039	1512
3D3 355 M2-6	230	1188	346.4	200	990		346.4	200.0	95.8	95.7	95.0	0.87	6.8	1.8	2.0	11.7758	1612
3D3 355 L-6	288	1188	432.9	250	990		432.9	249.9	96.1	95.9	95.3	0.87	6.8	1.8	2.0	15.286	2057
3D3 355 2-6	362	1188	578.8	315	990		578.8	334.2	96.1	95.6	94.4	0.82	7.8	0.75	1.8	28.400	2254
3D3 355 3-6	408	1188	652.3	355	990		652.3	376.6	96.1	95.7	94.5	0.82	7.8	0.75	1.8	30.210	2674
3D3 400M1-6	362	1188	578.8	315	990		578.8	334.2	95.8	95.6	95.1	0.82	7.8	0.75	1.8	28.400	2966
3D3 400M2-6	408	1188	652.3	355	990		652.3	376.6	95.8	95.7	95.1	0.82	7.8	0.75	1.8	30.210	3148
3D3 400L1-6	460	1188	726.1	400	990		726.1	419.2	96.1	95.7	94.5	0.83	7.9	0.75	1.8	32.790	3296
3D3 400L2-6	518	1188	816.9	450	990		816.9	471.7	96.2	95.8	94.6	0.83	7.9	0.6	1.8	36.150	3382
3D3 400L3-6				500	990			526.2	96.2	95.9	94.9	0.83	7.9	0.6	1.8	38.720	3472

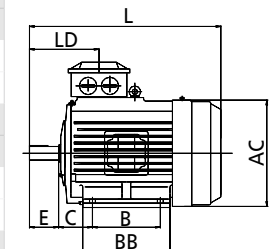
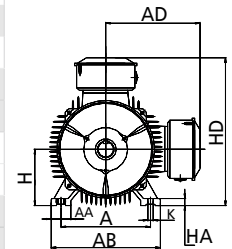
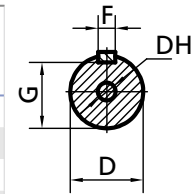
## Technical data IE3

Number of poles 极数 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D3 100L1-8	0.86	816	2.2	0.75	680						
3D3 100L2-8	1.3	816	3.0	1.1	680	5.3	3.0		77.7	77.8	77.3	0.69	5.0	1.8	2.0	0.0081	
3D3 112M-8	1.7	828	3.8	1.5	690	6.6	3.8		79.7	79.8	79.3	0.70	6.0	1.8	2.0	0.0140	
3D3 132 S-8	2.5	846	5.5	2.2	705	9.5	5.5		81.9	81.7	80.4	0.71	6.7	1.8	2.0	0.0320	58
3D3 132 M-8	3.5	846	7.1	3	705	12.3	7.1		83.6	83.6	82.7	0.73	6.9	1.8	2.0	0.0392	68
3D3 160 M1-8	4.6	864	9.3	4	720		9.3	5.4	84.8	84.9	83.7	0.73	6.9	1.9	2.0	0.0635	90
3D3 160 M2-8	6.3	864	12.4	5.5	720		12.4	7.2	86.3	86.3	85.6	0.74	6.9	1.9	2.0	0.0897	107
3D3 160 L-8	8.6	864	16.5	7.5	720		16.5	9.5	87.3	87.2	86.4	0.75	6.6	1.9	2.0	0.1270	128
3D3 180 L-8	12.7	876	23.9	11	730		23.9	13.8	88.7	88.6	87.3	0.75	6.6	1.9	2.0	0.2140	176
3D3 200 L-8	17.3	876	31.8	15	730		31.8	18.4	89.6	89.6	88.5	0.76	6.8	2.0	2.0	0.3490	222
3D3 225 S-8	21.3	876	39.0	18.5	730		39.0	22.5	90.1	90.1	89.4	0.76	6.8	1.9	2.0	0.5200	259
3D3 225 M-8	25.3	876	44.9	22	730		44.9	25.9	90.6	90.6	89.5	0.78	7.0	1.9	2.0	0.6200	294
3D3 250 M-8	34.5	882	60.0	30	735		60.0	34.6	91.4	91.3	89.5	0.79	6.7	1.9	2.0	0.8900	380
3D3 280 S-8	42.6	882	73.6	37	735		73.6	42.5	91.8	91.9	90.2	0.79	6.7	1.9	2.0	1.7100	482
3D3 280 M-8	52	882	89.2	45	735		89.2	51.5	92.3	92.2	90.9	0.79	6.7	1.9	2.0	2.1500	534
3D3 315 S-8	63	882	106.0	55	735		106.0	61.2	92.6	92.4	91.4	0.81	6.8	1.8	2.0	3.7900	818
3D3 315 M-8	86	882	143.6	75	735		143.6	82.9	93.2	93.1	91.9	0.81	6.3	1.8	2.0	5.2000	928
3D3 315 L1-8	104	882	169.6	90	735		169.6	97.9	93.5	93.3	92.4	0.82	6.4	1.8	2.0	6.1900	1018
3D3 315 L2-8	127	882	206.6	110	735		206.6	119.3	93.8	93.6	92.6	0.82	6.4	1.8	2.0	7.2600	1086
3D3 355 M1-8	152	888	247.2	132	740		247.2	142.7	94.1	94.0	92.9	0.82	6.4	1.8	2.0	11.850	1584
3D3 355 M2-8	184	888	298.7	160	740		298.7	172.5	94.3	94.2	93.1	0.82	6.4	1.8	2.0	14.500	1701
3D3 355 L-8	230	888	367.7	200	740		367.7	212.3	94.6	94.6	93.3	0.83	6.4	1.7	2.0	18.120	1787
3D3 355 1-8	288	894	476.8	250	745		476.8	275.3	94.7	94.7	93.1	0.80	7.5	1.1	1.8	31.050	2260
3D3 355 2-8	322	894	534.0	280	745		534.0	308.3	94.6	94.1	92.7	0.80	7.5	0.9	1.8	33.760	2470
3D3 355 3-8	362	894	600.8	315	745		600.8	346.9	94.9	94.5	92.3	0.80	7.5	0.9	1.8	39.190	3066
3D3 400M1-8	288	894	476.8	250	745		476.8	275.3	94.6	94.7	93.9	0.80	7.5	1.1	1.8	31.050	2914
3D3 400M2-8	322	894	534.0	280	745		534.0	308.3	94.6	94.5	94.0	0.80	7.5	0.9	1.8	33.760	3070
3D3 400M3-8	362	894	600.8	315	745		600.8	346.9	94.6	94.5	94.0	0.80	7.5	0.9	1.8	39.190	3132
3D3 400L1-8	408	894	677.1	355	745		677.1	390.9	94.9	94.6	92.6	0.80	7.5	0.9	1.8	45.220	3258
3D3 400L2-8				400	740			442.3	94.8	94.4	92.3	0.80	7.5	0.9	1.8	48.230	3349

Dimensions IE2 and IE3

B3

Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	AA	AB	AC	AD		BB	HA	HD		LD	L
															Rect. Box	Square Box			Rect. Box	Square Box		
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	34	160	161		150	142	10		230	112	297
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	36	176	180		158	180	12		248	125	353
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	36	176	180		158	210	12		248	125	383
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	40	200	205		174	233	14		274	143	430
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	45	226	219		180	249	15		292	150	463
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	55	262	258		202	224	18		334	179	502
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	55	262	258		202	262	18		334	179	541
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14,5	65	314	314	262	262	304	20	422	422	259	653
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14,5	65	314	314	262	262	334	20	422	422	259	683
180M	2,4,6,8	279	241	121	48	110	14	42,5	M16x36	180	14,5	70	349	355	278	278	349	22	458	458	271	722
180L	2,4,6,8	279	279	121	48	110	14	42,5	M16x36	180	14,5	70	349	355	278	278	403	22	458	458	271	772
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18,5	70	388	397	328	318	364	25	528	518	296	770
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18,5	75	431	445	351	341	368	28	576	566	329	807
225M	2	356	311	149	55	110	16	49	M20x42	225	18,5	75	431	445	351	341	393	28	576	566	299	802
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18,5	75	431	445	351	341	393	28	576	566	329	832
250M	2	406	349	168	60	140	18	53	M20x42	250	24	80	484	484	375	375	445	30	625	625	347	933
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	80	484	484	375	375	445	30	625	625	347	933
280S	2	457	368	190	65	140	18	58	M20x42	280	24	85	542	546	404	399	485	35	684	679	353	986
	4,6,8	457	368	190	75	140	20	67,5	M20x42	280	24	85	542	546	404	399	485	35	684	679	353	986
280M	2	457	419	190	65	140	18	58	M20x42	280	24	85	542	546	404	399	536	35	684	679	353	1035
	4,6,8	457	419	190	75	140	20	67,5	M20x42	280	24	85	542	546	404	399	536	35	684	679	353	1035
315S	2	508	406	216	65	140	18	58	M20x42	315	28	120	628	616	532	526	570	45	847	841	396	1185
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	120	628	616	532	526	570	45	847	841	426	1215
315M	2	508	457	216	65	140	18	58	M20x42	315	28	120	628	616	532	526	680	45	847	841	396	1298
	4,6,8	508	457	216	80	170	22	71	M20x42	315	28	120	628	616	532	526	680	45	847	841	426	1328
315L	2	508	508	216	65	140	18	58	M20x42	315	28	120	628	616	532	526	680	45	847	841	396	1298*
	4,6,8	508	508	216	80	170	22	71	M20x42	315	28	120	628	616	532	526	680	45	847	841	426	1328*
355M	2	610	560	254	75	140	20	67,5	M20x42	355	28	116	726	698	561	558	750	52	916	913	403	1497
	4,6,8	610	560	254	95	170	25	86	M24x47	355	28	116	726	698	561	558	750	52	916	913	433	1527
355L	2	610	630	254	75	140	20	67,5	M20x42	355	28	116	726	698	561	558	750	52	916	913	403	1497
	4,6,8	610	630	254	95	170	25	86	M24x47	355	28	116	726	698	561	558	750	52	916	913	433	1527*
355	1	630	800	224	80	170	22	71	M24x47	355	35	135	760	750			1140	52	1	1012	472	1868
	2	630	800	224	110	210	28	100	M24x47	355	35	135	760	750			1140	52	/	1012	512	1928
400	2	686	710	280	85	170	22	76	M24x47	400	35	120	860	860			1180	45	/	1100	526	1895
	4,6,8	686	710	280	120	210	32	109	M24x47	400	35	120	860	860			1180	45	/	1100	566	1955

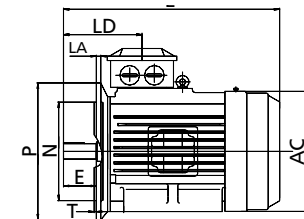
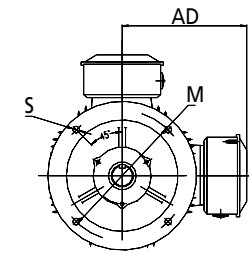
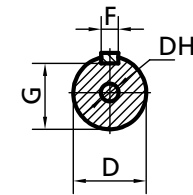


\* L= 1445 (3D3 315L2-2 200kW) L=1475 (3D3 315L2-4 200kW) L= 1727 (3D3 355L-6 250kW)

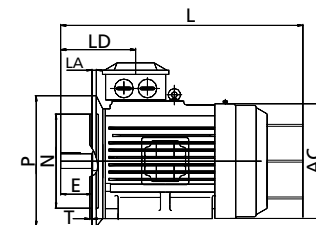
Dimensions IE2 and IE3

B5 / V1

Frame size	Poles	D	E	F	G	DH	H	M	N	P	S	T	AC	AD		LA	LD	L	
														Rect. Box	Square Box			B5	V1
80	2,4,6,8	19	40	6	15,5	M6x16	80	165	130	200	12	3,5	161		150	12	112	297	338
90S	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3,5	180		158	12	125	353	393
90L	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3,5	180		158	12	125	383	423
100L	2,4,6,8	28	60	8	24	M10x22	100	215	180	250	14,5	4	205		174	13	143	430	470
112M	2,4,6,8	28	60	8	24	M10x22	112	215	180	250	14,5	4	219		180	14	150	463	503
132S	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14,5	4	258		202	14	179	502	542
132M	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14,5	4	258		202	14	179	541	581
160M	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18,5	5	314	262	262	15	259	653	700
160L	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18,5	5	314	262	262	15	259	683	730
180M	2,4,6,8	48	110	14	42,5	M16x36	180	300	250	350	18,5	5	355	278	278	15	271	722	780
180L	2,4,6,8	48	110	14	42,5	M16x36	180	300	250	350	18,5	5	355	278	278	15	271	772	830
200L	2,4,6,8	55	110	16	49	M20x42	200	350	300	400	18,5	5	397	328	318	17	296	770	835
225S	4,6,8	60	140	18	53	M20x42	225	400	350	450	18,5	5	445	351	341	20	329	807	895
225M	2	55	110	16	49	M20x42	225	400	350	450	18,5	5	445	351	341	20	299	802	890
	4,6,8	60	140	18	53	M20x42	225	400	350	450	18,5	5	445	351	341	20	329	832	920
250M	2	60	140	18	53	M20x42	250	500	450	550	18,5	5	484	375	375	22	347	933	1035
	4,6,8	65	140	18	58	M20x42	250	500	450	550	18,5	5	484	375	375	22	347	933	1035
280S	2	65	140	18	58	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	986	1109
	4,6,8	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	986	1109
280M	2	65	140	18	58	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	1035	1160
	4,6,8	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	546	404	399	22	353	1035	1160
315S	2	65	140	18	58	M20x42	315	600	550	660	24	6	616	532	526	22	396	1185	1302
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	616	532	526	22	426	1215	1332
315M	2	65	140	18	58	M20x42	315	600	550	660	24	6	616	532	526	22	396	1298	1415
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	616	532	526	22	426	1328	1445
315L	2	65	140	18	58	M20x42	315	600	550	660	24	6	616	532	526	22	396	1298*	1415**
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	616	532	526	22	426	1328*	1445**
355M	2	75	140	20	67,5	M20x42	355	740	680	800	24	6	698	561	558	25	403	1497	1635
	4,6,8	95	170	25	86	M24x47	355	740	680	800	24	6	698	561	558	25	433	1527	1665**
355L	2	75	140	20	67,5	M20x42	355	740	680	800	24	6	698	561	558	25	403	1497	1635
	4,6,8	95	170	25	86	M24x47	355	740	680	800	24	6	698	561	558	25	433	1527*	1665**
355 <sup>1</sup> / <sub>2</sub> / <sub>3</sub>	2	80	170	22	71	M24x47	355	840	780	900	24	6	750			28	472	1868	2018
	4,6,8	110	210	28	100	M24x47	355	840	780	900	24	6	750			28	512	1928	2078
400	2	85	170	22	76	M24x47	400	940	880	1000	28	6	860			28	526	1865	2005
	4,6,8	120	210	32	109	M24x47	400	940	880	1000	28	6	860			28	566	1925	2065



B5



V1

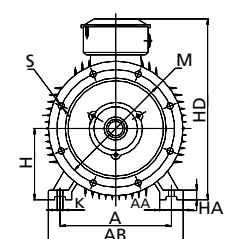
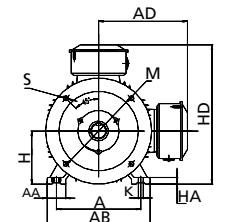
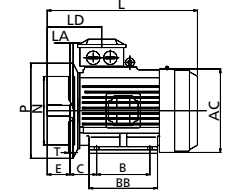
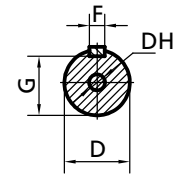
\* L= 1445 (3D3 315L2-2 200kW) L=1475 (3D3 315L2-4 200kW) L= 1727 (3D3 355L-6 250kW)

\*\* L= 1562 (3D3 315L2-2 200kW) L=1592 (3D3 315L2-4 200kW) L= 1865 (3D3 355L-6 250kW)

Dimensions IE2 and IE3

B35

Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	M	N	P	S	T	AA	AB	AC	AD		BB	HA	HD		LA	LD	L
																				Rect. Box	Square Box			Rect. Box	Square Box			
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	165	130	200	12	3,5	34	160	161		150	142	10		230	12	112	297
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	165	130	200	12	3,5	36	176	180		158	180	12		248	12	125	353
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	165	130	200	12	3,5	36	176	180		158	210	12		248	12	125	383
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	215	180	250	14,5	4	40	200	205		174	233	14		274	13	143	430
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	215	180	250	14,5	4	45	226	219		180	249	15		292	14	150	463
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	265	230	300	14,5	4	55	262	258		202	224	18		334	14	179	502
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	265	230	300	14,5	4	55	262	258		202	262	18		334	14	179	541
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14,5	300	250	350	18,5	5	65	314	314	262	262	304	20	422	422	15	259	653
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14,5	300	250	350	18,5	5	65	314	314	262	262	334	20	422	422	15	259	683
180M	2,4,6,8	279	241	121	48	110	14	42,5	M16x36	180	14,5	300	250	350	18,5	5	70	349	355	278	278	349	22	458	458	15	271	722
180L	2,4,6,8	279	279	121	48	110	14	42,5	M16x36	180	14,5	300	250	350	18,5	5	70	349	355	278	278	403	22	458	458	15	271	772
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18,5	350	300	400	18,5	5	70	388	397	328	318	364	25	528	518	17	296	770
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18,5	400	350	450	18,5	5	75	431	445	351	341	368	28	576	566	20	329	807
225M	2	356	311	149	55	110	16	49	M20x42	225	18,5	400	350	450	18,5	5	75	431	445	351	341	393	28	576	566	20	299	802
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18,5	400	350	450	18,5	5	75	431	445	351	341	393	28	576	566	20	329	832
250M	2	406	349	168	60	140	18	53	M20x42	250	24	500	450	550	18,5	5	80	484	484	375	375	445	30	625	625	22	347	933
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	500	450	550	18,5	5	80	484	484	375	375	445	30	625	625	22	347	933
280S	2	457	368	190	65	140	18	58	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	485	35	684	679	22	353	986
	4,6,8	457	368	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	485	35	684	679	22	353	986
280M	2	457	419	190	65	140	18	58	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	536	35	684	679	22	353	1035
	4,6,8	457	419	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	542	546	404	399	536	35	684	679	22	353	1035
315S	2	508	406	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	570	45	847	841	22	396	1185
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	570	45	847	841	22	426	1215
315M	2	508	457	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	396	1298
	4,6,8	508	457	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	426	1328
315L	2	508	508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	396	1298*
	4,6,8	508	508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	628	616	532	526	680	45	847	841	22	426	1328*
355M	2	610	560	254	75	140	20	67,5	M20x42	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	403	1497
	4,6,8	610	560	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	433	1527
355L	2	610	630	254	75	140	20	67,5	M20x42	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	403	1497
	4,6,8	610	630	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	726	698	561	558	750	52	916	913	25	433	1527*
355	1	630	800	224	80	170	22	71	M24x47	355	35	840	780	900	24	6	135	760	750						1012	28	472	1868
	2	630	800	224	110	210	28	100	M24x47	355	35	840	780	900	24	6	135	760	750						1012	28	512	1928
400	2	686	630/710	280	85	170	22	76	M24x47	400	35	940	880	1000	28	6	120	860	860						1100	28	526	1895
	4,6,8	686	630/710	280	120	210	32	109	M24x47	400	35	940	880	1000	28	6	120	860	860						1100	28	566	1955



\* L= 1445 (3D3 315L2-2 200kW) L=1475 (3D3 315L2-4 200kW) L= 1727 (3D3 355L-6 250kW)

Dimensions IE2 and IE3

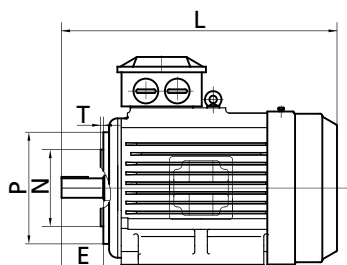
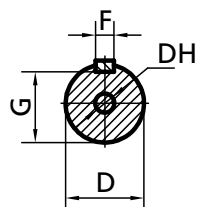
B14A / B14B

Frame size	Poles	D	E	F	G	DH	H	B14A					B14B					AC	AD	L
								M	N	P	S	T	M	N	P	S	T			
80	2,4	19	40	6	15,5	M6x16	80	100	80	120	M6	3	130	110	160	M8	3,5	161	150	297
90S	2,4,6	24	50	8	20	M8x19	90	115	95	140	M8	3	130	110	160	M8	3,5	180	158	353
90L	2,4,6	24	50	8	20	M8x19	90	115	95	140	M8	3	130	110	160	M8	3,5	180	158	383
100L	2,4,6	28	60	8	24	M10x22	100	130	110	160	M8	3,5	165	130	200	M10	3,5	205	174	430
112M	2,4,6	28	60	8	24	M10x22	112	130	110	160	M8	3,5	165	130	200	M10	3,5	219	180	463
132S	2,4,6	38	80	10	33	M12x28	132	165	130	200	M10	3,5	215	180	250	M12	4	258	202	502
132M	2,4,6	38	80	10	33	M12x28	132	165	130	200	M10	3,5	215	180	250	M12	4	258	202	541

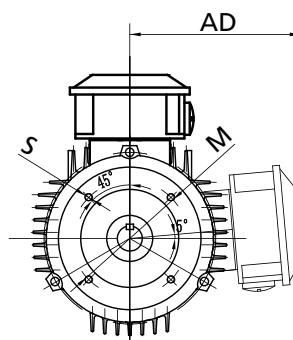
Dimensions IE2 and IE3

B34A / B34B

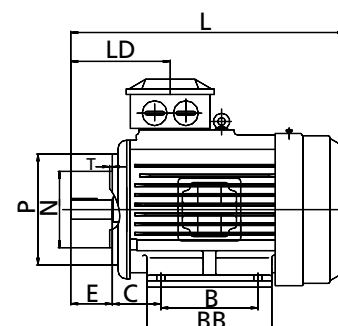
Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	B34A					B34B					AA	AB	AC	AD	BB	HA	HD	LD	L
												M	N	P	S	T	M	N	P	S	T									
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	100	80	120	M6	3	130	110	160	M8	3,5	34	160	161	145	142	10	230	112	297
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	115	95	140	M8	3	130	110	160	M8	3,5	36	176	180	155	180	12	248	125	353
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	115	95	140	M8	3	130	110	160	M8	3,5	36	176	180	155	210	12	248	125	383
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	130	110	160	M8	3,5	165	130	200	M10	3,5	40	200	205	169	233	14	274	143	430
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	130	110	160	M8	3,5	165	130	200	M10	3,5	45	226	219	182	249	15	292	150	463
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	165	130	200	M10	3,5	215	180	250	M12	4	55	262	258	202	224	18	334	179	502
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	165	130	200	M10	3,5	215	180	250	M12	4	55	262	258	202	262	18	334	179	541



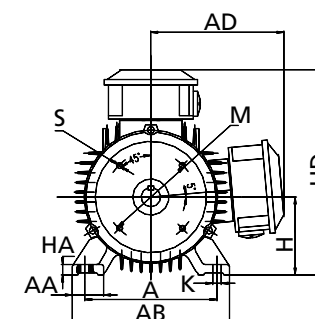
B14



B14




B34



B34


## Technical data IE4

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D4 801-2	0.86	3468	1.5	0.75	2890	2.60	1.5		83.5	83.2	81.4	0.83	8.5	2.2	2.3	0.0013	18
3D4 802-2	1.3	3468	2.2	1.1	2890	3.81	2.2		85.2	84.9	82.8	0.83	8.5	2.2	2.3	0.0017	19
3D4 90 S-2	1.7	3480	2.9	1.5	2900	5.02	2.9		86.5	86.0	84.9	0.85	9.0	2.2	2.3	0.0024	27
3D4 90 L-2	2.5	3480	4.1	2.2	2900	7.10	4.1		88.0	87.4	83.6	0.86	9.0	2.2	2.3	0.0033	28
3D4 100 L-2	3.5	3480	5.5	3	2900	9.5	5.5		89.1	88.4	87.7	0.87	9.5	2.2	2.3	0.0052	37
3D4 112 M-2	4.6	3492	7.3	4	2910		7.3	4.2	90.0	89.6	88.5	0.88	9.5	2.2	2.3	0.0090	50
3D4 132 S1-2	6.3	3534	9.9	5.5	2945		9.9	5.7	90.9	90.8	90.1	0.88	9.5	2.0	2.3	0.0260	76
3D4 132 S2-2	8.6	3534	13.2	7.5	2945		13.2	7.6	91.7	91.6	90.7	0.89	9.5	2.0	2.3	0.0322	87
3D4 160 M1-2	12.7	3546	19.2	11	2955		19.2	11.1	92.6	92.5	91.8	0.89	9.5	2.0	2.3	0.0649	136
3D4 160 M2-2	17.3	3546	26.0	15	2955		26.0	15.0	93.3	92.5	92.0	0.89	9.5	2.0	2.3	0.0795	145
3D4 160 L-2	21.3	3546	32.0	18.5	2955		32.0	18.5	93.7	93.5	92.6	0.89	9.5	2.0	2.3	0.0962	168
3D4 180 M-2	25.3	3558	37.8	22	2965		37.8	21.8	94.0	93.9	92.9	0.89	9.5	2.0	2.3	0.1494	200
3D4 200 L1-2	34.5	3564	51.5	30	2970		51.5	29.7	94.5	94.1	93.7	0.89	9.0	2.0	2.3	0.2436	286
3D4 200 L2-2	42.6	3564	63.3	37	2970		63.3	36.5	94.8	94.6	93.7	0.89	9.0	2.0	2.3	0.2784	300
3D4 225 M-2	52	3570	76.7	45	2975		76.7	44.3	95.0	94.9	93.8	0.89	9.0	2.0	2.3	0.3640	365
3D4 250 M-2	63	3582	93.5	55	2985		93.5	54.0	95.3	95.0	95.0	0.89	9.0	2.0	2.3	0.9654	522
3D4 280 S-2	86	3576	127.2	75	2980		127.2	73.4	95.6	95.5	94.9	0.89	8.5	1.8	2.3	1.1480	620
3D4 280 M-2	104	3576	152.4	90	2980		152.4	88.0	95.8	95.7	95.0	0.89	8.5	1.8	2.3	1.3632	709
3D4 315 S-2	127	3582	185.8	110	2985		185.8	107.3	96.0	95.8	94.8	0.89	8.5	1.8	2.3	1.8792	979
3D4 315 M-2	152	3582	223.0	132	2985		223.0	128.8	96.2	96.2	95.3	0.89	8.5	1.8	2.3	2.1728	1048
3D4 315 L1-2	184	3582	269.7	160	2985		269.7	155.7	96.3	96.1	95.1	0.89	8.5	1.8	2.2	2.5252	1136
3D4 315 L-2	213	3582	311.2	185	2985		311.2	179.7	96.4	96.5	95.5	0.89	8.5	1.8	2.2	2.7828	1350
3D4 315 L2-2	230	3582	336.8	200	2985		336.8	194.5	96.5	96.3	95.2	0.89	8.5	1.8	2.2	3.0537	1328
3D4 355 M1-2	253	3582	361.6	220	2985		361.6	208.8	96.5	96.2	95.2	0.91	8.5	1.6	2.2	3.9067	1750
3D4 355 M-2	288	3582	411.3	250	2985		411.3	237.5	96.5	96.2	95.2	0.91	8.5	1.6	2.2	4.1448	1767
3D4 355 L1-2	322	3582	460.2	280	2985		460.2	265.7	96.5	96.2	95.2	0.91	8.5	1.6	2.2	4.2974	1838
3D4 355 L-2	362	3582	517.8	315	2985		517.8	299.0	96.5	96.2	95.2	0.91	8.5	1.6	2.2	5.2220	2214
3D4 355 1-2	408	3582	583.5	355	2985		583.5	336.9	96.5	96.3	95.7	0.90	8.6	0.9	1.8	7.5500	2203
3D4 355 2-2	460	3582	664.8	400	2985		664.8	383.8	96.5	96.1	95.8	0.90	8.6	0.9	1.8	8.760	2907
3D4 355 3-2	518	3582	747.9	450	2985		747.9	431.8	96.5	96.2	95.8	0.90	8.6	0.8	1.8	9.520	3124
3D4 400 1-2	575	3582	831.0	500	2985		831.0	479.8	96.5	96.0	95.6	0.90	8.6	0.8	1.8	15.600	3389
3D4 400 2-2	644	3582	920.4	560	2985		920.4	531.4	96.5	96.3	96.0	0.91	8.7	0.8	1.8	17.000	3607
3D4 400 3-2				630	2985			600.3	96.5	96.3	95.9	0.91	8.7	0.8	1.8	18.400	3826


## Technical data IE4

Number of poles <b>4</b>	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D4 80 1-4	0.63	1722	1.3	0.55	1435						
3D4 80 2-4	0.86	1722	1.7	0.75	1435	2.94	1.7		85.7	85.5	85.1	0.74	8.5	2.3	2.3	0.0024	20
3D4 90 S-4	1.3	1734	2.4	1.1	1445	4.16	2.4		87.2	87.3	86.3	0.75	8.5	2.3	2.3	0.0045	28
3D4 90 L-4	1.7	1734	3.2	1.5	1445	5.54	3.2		88.2	87.9	86.6	0.76	9.0	2.3	2.3	0.0061	29
3D4 100 L1-4	2.5	1752	4.5	2.2	1460	7.8	4.5		89.5	89.3	87.7	0.79	9.0	2.3	2.3	0.0123	43
3D4 100 L2-4	3.5	1752	6.0	3	1460	10.4	6.0		90.4	90.3	89.4	0.80	9.5	2.3	2.3	0.0172	44
3D4 112 M-4	4.6	1752	7.9	4	1460		7.9	4.6	91.1	91.2	90.6	0.80	9.5	2.2	2.3	0.0222	59
3D4 132 S-4	6.3	1770	10.8	5.5	1475		10.8	6.2	91.9	91.8	91.2	0.80	9.5	2.0	2.3	0.0586	86
3D4 132 M-4	8.6	1770	14.4	7.5	1475		14.4	8.3	92.6	92.5	91.7	0.81	9.5	2.0	2.3	0.0690	95
3D4 160 M-4	12.7	1770	20.4	11	1475		20.4	11.8	93.3	93.2	92.4	0.83	9.5	2.2	2.3	0.1360	144
3D4 160 L-4	17.3	1770	27.4	15	1475		27.4	15.8	93.9	94.0	92.9	0.84	9.5	2.2	2.3	0.1730	160
3D4 180 M-4	21.3	1776	33.3	18.5	1480		33.3	19.2	94.2	94.1	93.2	0.85	9.5	2.0	2.3	0.2465	205
3D4 180 L-4	25.3	1776	39.4	22	1480		39.4	22.7	94.5	94.5	93.9	0.85	9.5	2.0	2.3	0.2817	222
3D4 200 L-4	34.5	1782	53.6	30	1485		53.6	30.9	94.9	94.7	94.0	0.85	9.0	2.0	2.3	0.5275	289
3D4 225 S-4	42.6	1782	65.9	37	1485		65.9	38.0	95.2	95.1	94.3	0.85	9.0	2.0	2.3	0.7363	375
3D4 225 M-4	52	1782	79.9	45	1485		79.9	46.1	95.4	95.5	95.0	0.85	9.0	2.0	2.3	0.8071	405
3D4 250 M-4	63	1782	96.4	55	1485		96.4	55.7	95.7	95.6	94.9	0.86	9.0	2.0	2.3	1.3369	494
3D4 280 S-4	86	1788	129.6	75	1490		129.6	74.8	96.0	95.9	95.2	0.87	8.5	2.0	2.3	1.9630	587
3D4 280 M-4	104	1788	153.4	90	1490		153.4	88.6	96.1	96.1	95.5	0.88	8.5	2.0	2.3	2.1771	706
3D4 315 S-4	127	1788	185.1	110	1490		185.1	106.9	96.3	96.2	95.9	0.89	8.5	1.8	2.2	3.6446	880
3D4 315 M-4	152	1788	221.8	132	1490		221.8	128.1	96.4	96.3	95.9	0.89	8.5	1.8	2.2	4.1342	1012
3D4 315 L1-4	184	1788	265.9	160	1490		265.9	153.5	96.6	96.5	96.2	0.90	8.5	1.8	2.2	4.8958	1098
3D4 315 L-4	213	1788	307.1	185	1490		307.1	177.3	96.6	96.5	96.1	0.90	8.5	1.8	2.2	5.2860	1306
3D4 315 L2-4	230	1788	332	200	1490		332	191.7	96.7	96.6	96.1	0.90	8.5	1.8	2.2	5.8749	1378
3D4 355 M1-4	253	1788	364.9	220	1490		364.9	210.7	96.7	96.6	95.9	0.90	8.5	1.8	2.2	8.0879	1594
3D4 355 M-4	288	1788	414.6	250	1490		414.6	239.4	96.7	96.6	95.9	0.90	8.5	1.8	2.2	10.5792	1735
3D4 355 L1-4	322	1788	564.4	280	1490		564.4	325.9	96.7	96.7	96.3	0.90	8.5	1.8	2.2	12.0640	1776
3D4 355 L-4	362	1788	521.9	315	1490		521.9	301.3	96.7	96.7	96.3	0.90	8.5	1.8	2.2	12.0640	2060
3D4 355 1-4	408	1788	602.1	355	1490		602.1	347.6	96.7	96.6	96.2	0.88	8.5	0.9	1.8	15.1082	2714
3D4 355 2-4	460	1788	678.5	400	1490		678.5	391.7	96.7	96.6	96.1	0.88	8.5	0.9	1.8	15.700	2757
3D4 355 3-4	518	1788	763.3	450	1490		763.3	440.7	96.7	96.6	95.8	0.88	8.5	0.8	1.8	17.100	2904
3D4 400 1-4	575	1788	848.1	500	1490		848.1	489.7	96.7	96.5	96.1	0.88	8.5	0.8	1.8	18.200	3140
3D4 400 2-4	644	1788	939.2	560	1490		939.2	542.3	96.7	96.5	95.98	0.89	8.6	0.8	1.8	23.000	3347
3D4 400 3-4				630	1490			612.5	96.7	96.4	96.0	0.89	8.6	0.8	1.8	25.000	3572

## Technical data IE4

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D4 801-6	0.43	1080	1.0	0.37	900						
3D4 802-6	0.63	1080	1.4	0.55	900	2.42	1.4		80.9	81.3	79.5	0.71	6.0	1.9	2.0	0.0029	20.5
3D4 90 S-6	0.86	1146	1.9	0.75	955	3.24	1.9		82.7	83.0	81.7	0.70	7.5	2.1	2.1	0.0057	23
3D4 90 L-6	1.3	1146	2.7	1.1	955	4.64	2.7		84.5	84.7	83.4	0.70	7.5	2.1	2.1	0.0083	28
3D4 100 L-6	1.7	1152	3.5	1.5	960	6.1	3.5		85.9	86.0	85.7	0.71	7.5	2.1	2.1	0.0159	40
3D4 112 M-6	2.5	1164	5.1	2.2	970	8.9	5.1		87.4	87.5	85.8	0.71	7.5	2.1	2.1	0.0286	51
3D4 132 S-6	3.5	1170	6.9	3	975	12.0	6.9		88.6	88.8	86.8	0.71	7.5	2.0	2.1	0.0457	70
3D4 132 M1-6	4.6	1170	8.9	4	975		8.9	5.1	89.5	89.6	88.4	0.72	8.0	2.0	2.1	0.0564	76
3D4 132 M2-6	6.3	1170	12.3	5.5	975		12.3	7.1	90.5	90.6	89.3	0.72	8.0	2.0	2.1	0.0806	89
3D4 160 M-6	8.6	1176	15.8	7.5	980		15.8	9.1	91.3	91.2	90.9	0.76	8.0	2.0	2.1	0.1401	162
3D4 160 L-6	12.7	1176	22.5	11	980		22.5	13.0	92.3	92.3	91.8	0.77	8.5	2.0	2.1	0.2081	163
3D4 180 L-6	17.3	1182	29.3	15	985		29.3	16.9	92.9	93.0	91.3	0.80	8.5	2.0	2.1	0.3384	206
3D4 200 L1-6	21.3	1182	35.9	18.5	985		35.9	20.7	93.4	93.5	92.6	0.80	8.5	1.9	2.1	0.4330	255
3D4 200 L2-6	25.3	1182	41.7	22	985		41.7	24.1	93.7	93.7	92.7	0.81	8.5	1.9	2.1	0.5292	275
3D4 225 M-6	34.5	1182	56.1	30	985		56.1	32.4	94.2	94.3	93.8	0.82	8.3	2.0	2.1	0.8085	335
3D4 250 M-6	42.6	1188	68.1	37	990		68.1	39.3	94.5	94.7	93.7	0.83	8.3	2.0	2.1	1.5204	432
3D4 280 S-6	52	1188	82.5	45	990		82.5	47.6	94.8	94.7	93.9	0.83	8.5	2.0	2.0	2.1302	524
3D4 280 M-6	63	1188	99.4	55	990		99.4	57.4	95.1	95.1	94.3	0.84	8.0	2.0	2.0	2.4757	584
3D4 315 S-6	86	1188	135.1	75	990		135.1	78.0	95.4	95.4	94.7	0.84	8.0	1.6	2.0	4.0861	863
3D4 315 M-6	104	1188	159.9	90	990		159.9	92.3	95.6	95.7	95.0	0.85	8.0	1.6	2.0	4.8746	909
3D4 315 L1-6	127	1188	195.4	110	990		195.4	112.8	95.8	95.7	95.6	0.85	8.0	1.6	2.0	5.8782	982
3D4 315 L2-6	152	1188	231.3	132	990		231.3	133.5	96.0	96.3	95.6	0.86	8.0	1.6	2.0	7.0252	1093
3D4 355 M1-6	184	1188	279.7	160	990		279.7	161.5	96.2	96.0	95.2	0.86	8.0	1.6	2.0	11.1414	1588
3D4 355 M-6	213	1188	322.8	185	990		322.8	186.4	96.2	96.0	95.2	0.86	8.0	1.6	2.0	12.2288	1686
3D4 355 M2-6	230	1188	349.3	200	990		349.3	201.7	96.3	96.3	95.6	0.86	8.0	1.6	2.0	13.9627	1699
3D4 355 L1-6	253	1188	383.0	220	990		383.0	221.1	96.4	96.6	96.5	0.86	8.0	1.6	2.0	14.3801	2001
3D4 355 L-6	288	1188	436.6	250	990		436.6	252.1	96.5	96.6	96.0	0.86	8.0	1.6	2.0	15.7840	2193
3D4 355 2-6	362	1188	574	315	990		574	331.4	96.6	96.6	95.9	0.82	7.9	0.9	1.8	21.100	2741
3D4 355 3-6	408	1188	646.9	355	990		646.9	373.5	96.6	96.5	95.9	0.82	7.9	0.9	1.8	23.100	2864
3D4 400 1-6	460	1188	720.1	400	990		720.1	415.8	96.6	96.4	95.7	0.83	8.0	0.9	1.8	33.600	3162
3D4 400 2-6	518	1188	810.1	450	990		810.1	467.7	96.6	96.5	95.7	0.83	8.0	0.8	1.8	37.100	3288
3D4 400 3-6				500	990			521.8	96.6	96.4	95.8	0.83	8.0	0.8	1.8	39.700	3368

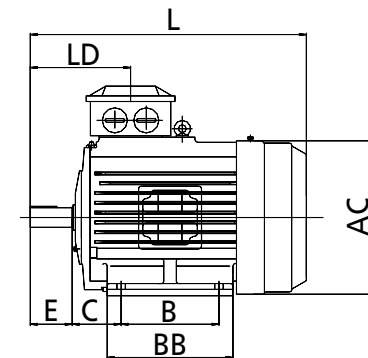
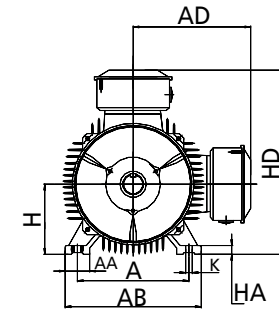
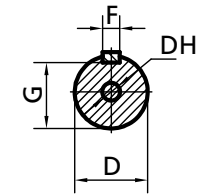
## Technical data IE4

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D4 100L1-8	0.86	846	2.1	0.75	705						
3D4 100L2-8	1.3	846	2.9	1.1	705	5.1	2.9		80.8	80.9	78.4	0.67	7.0	2.0	2.0	0.0141	52
3D4 112M-8	1.7	852	3.8	1.5	710	6.6	3.8		82.6	82.7	80.1	0.69	7.0	1.8	2.0	0.0205	59
3D4 132 S-8	2.5	864	5.4	2.2	720	9.4	5.4		84.5	84.6	84.3	0.70	7.5	1.8	2.0	0.0457	100
3D4 132 M-8	3.5	864	7.2	3	720	12.5	7.2		85.9	85.8	85.5	0.70	7.8	1.8	2.0	0.0591	104
3D4 160 M1-8	4.6	870	9.3	4	725		9.3	5.4	87.1	86.9	86.6	0.71	7.9	1.7	2.0	0.0849	110
3D4 160 M2-8	6.3	870	12.5	5.5	725		12.5	7.2	88.3	89.1	87.9	0.72	8.1	1.8	2.0	0.1104	121
3D4 160 L-8	8.6	870	16.4	7.5	725		16.4	9.5	89.3	89.2	88.5	0.74	7.8	1.8	2.0	0.1614	126
3D4 180 L-8	12.7	882	23.7	11	735		23.7	13.7	90.4	90.2	89.5	0.74	7.9	1.8	2.0	0.2679	238
3D4 200 L-8	17.3	882	31.7	15	735		31.7	18.3	91.2	91.1	90.7	0.75	8.0	1.8	2.0	0.3849	293
3D4 225 S-8	21.3	882	38.8	18.5	735		38.8	22.4	91.7	91.8	91.2	0.75	8.1	1.8	2.0	0.6427	318
3D4 225 M-8	25.3	882	45.4	22	735		45.4	26.2	92.1	92.0	91.6	0.76	8.3	1.8	2.0	0.7671	338
3D4 250 M-8	34.5	888	60.7	30	740		60.7	35.0	92.7	92.7	92.1	0.77	7.9	1.8	2.0	1.2924	409
3D4 280 S-8	42.6	888	73.5	37	740		73.5	42.4	93.1	93.0	92.5	0.78	7.9	1.8	2.0	1.9575	506
3D4 280 M-8	52	888	89.2	45	740		89.2	51.5	93.4	93.3	93.1	0.78	7.9	1.8	2.0	2.4181	592
3D4 315 S-8	63	888	105.9	55	740		105.9	61.1	93.7	93.6	93.4	0.80	8.2	1.6	2.0	3.8577	798
3D4 315 M-8	86	888	143.6	75	740		143.6	82.9	94.2	94.1	94.1	0.80	7.6	1.6	2.0	5.1995	989
3D4 315 L1-8	104	888	169.9	90	740		169.9	98.1	94.4	94.5	93.9	0.81	7.7	1.6	2.0	6.2058	1012
3D4 315 L2-8	127	888	207.0	110	740		207.0	119.5	94.7	94.7	94.0	0.81	7.7	1.6	2.0	7.7992	1091
3D4 355 M1-8	152	888	247.9	132	740		247.9	143.1	94.9	94.8	93.9	0.81	7.7	1.6	2.0	12.7935	1549
3D4 355 M2-8	184	888	296.1	160	740		296.1	171.0	95.1	95.1	94.3	0.82	7.7	1.6	2.0	15.6365	1855
3D4 355 L1-8	213	888	342.1	185	740		342.1	197.5	95.2	95.2	94.4	0.82	7.7	1.6	2.0	15.6083	1737
3D4 355 L-8	230	888	369.0	200	740		369.0	213.0	95.4	95.3	94.6	0.82	7.8	1.6	2.0	18.4796	2210
3D4 355 1-8	288	888	472.8	250	740		472.8	273.0	95.4	95.3	94.5	0.80	7.6	1.1	1.8	20.800	2275
3D4 355 2-8	322	894	529.5	280	745		529.5	305.7	95.4	95.3	94.6	0.80	7.6	0.9	1.8	23.400	2364
3D4 355 3-8	362	894	595.7	315	745		595.7	343.9	95.4	95.4	94.7	0.80	7.6	0.9	1.8	26.300	2605
3D4 400 1-8	408	894	671.4	355	745		671.4	387.6	95.4	95.3	94.8	0.80	7.6	0.9	1.8	46.200	3073
3D4 400 2-8				400	745			435.8	95.4	95.5	94.7	0.80	7.6	0.9	1.8	49.300	3470

Dimensions IE4

B3

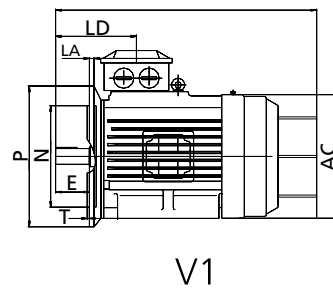
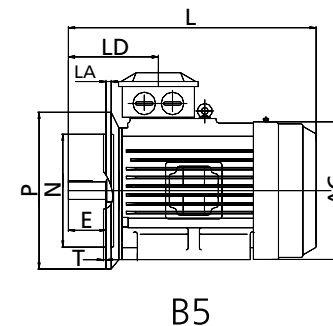
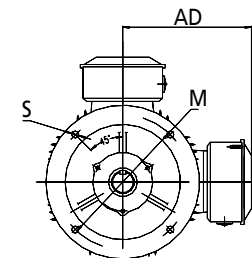
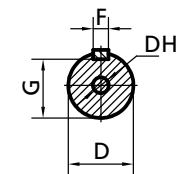
Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	AA	AB	AC	AD	BB	HA	HD	LD	L	
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	34	160	167	170	142	10	250	115	300	
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	36	176	181	175	180	12	265	126	355	
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	36	176	181	175	220	12	265	126	385	
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	40	205	206	195	233	14	295	143	435	
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	45	230	240	218	236	15	325	147	455	
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	55	265	296	240	260	18	375	182	530	
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	55	265	296	240	290	18	375	182	560	
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14,5	65	320	328	285	315	20	450	261	665	
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14,5	65	320	328	285	355	20	450	261	705	
180M	2,4,6,8	279	241	121	48	110	14	42,5	M16x36	180	14,5	70	355	364	305	359	22	485	271	735	
180L	2,4,6,8	279	279	121	48	110	14	42,5	M16x36	180	14,5	70	355	364	305	394	22	485	271	770	
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18,5	70	390	419	350	454	25	550	296	870	
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18,5	75	435	467	370	431	25	595	331	885	
225M	2	356	311	149	55	110	16	49	M20x42	225	18,5	75	435	467	370	466	25	595	301	890	
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18,5	75	435	467	370	466	25	595	331	920	
250M	2	406	349	168	60	140	18	53	M20x42	250	24	80	490	523	410	515	30	660	349	985	
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	80	490	523	410	515	30	660	349	985	
280S	2	457	368	190	65	140	18	58	M20x42	280	24	85	545	588	440	510	35	720	357	995	
	4	457	368	190	75	140	20	67,5	M20x42	280	24	85	545	588	440	490	35	720	357	985	
	6,8	457	368	190	75	140	20	67,5	M20x42	280	24	85	545	588	440	510	35	720	357	995	
315S	2	508	406	216	65	140	18	58	M20x42	315	28	120	630	620	550	570	45	885	397	1205	
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	120	630	620	550	570	45	885	427	1235	
315M	2	508	457/508	216	65	140	18	58	M20x42	315	28	120	630	620	550	680	45	885	397	1315	
	4,6,8	508	457/508	216	80	170	22	71	M20x42	315	28	120	630	620	550	680	45	885	427	1345	
315L1	2	508	457/508	216	65	140	18	58	M20x42	315	28	120	630	620	550	680	45	885	397	1315	
	4,6,8	508	457/508	216	80	170	22	71	M20x42	315	28	120	630	620	550	680	45	885	427	1345	
315L2	2	508	457/508	216	65	140	18	58	M20x42	315	28	120	630	620	550	830	45	885	397	1465	
	4	508	457/508	216	80	170	22	71	M20x42	315	28	120	630	620	550	830	45	885	427	1495	
	6,8	508	457/508	216	80	170	22	71	M20x42	315	28	120	630	620	550	680	45	885	427	1345	
355M	2	610	560/630	254	75	140	20	67,5	M20x42	355	28	116	730	698	580	760	52	980	400	1500	
	4,6,8	610	560/630	254	95	170	25	86	M24x47	355	28	116	730	698	580	760	52	980	430	1530	
355L	2	610	630/800	254	75	140	20	67,5	M20x42	355	28	116	730	698	580	960	52	980	400	1710	
	4,6	610	630/800	254	95	170	25	86	M24x47	355	28	116	730	698	580	960	52	980	430	1740	
	8	610	560/630	254	95	170	25	86	M24x47	355	28	116	730	698	580	760	52	980	430	1530	
355	1	2	630	800	224	80	170	22	71	M24x47	355	35	135	760	750		1140	52	1012	472	1868
	2	3	630	800	224	110	210	28	100	M24x47	355	35	135	760	750		1140	52	1012	512	1928
400	2	686	630/710	280	85	170	22	76	M24x47	400	35	125	860	860		1160	45	1100	526	1895	
	4,6,8	686	630/710	280	120	210	32	109	M24x47	400	35	125	860	860		1160	45	1100	566	1955	



Dimensions IE4

B5 / V1

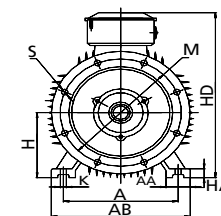
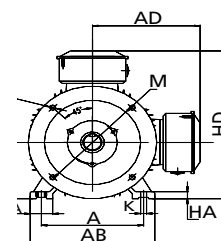
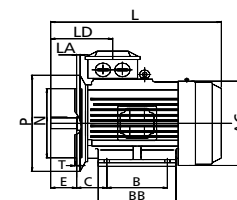
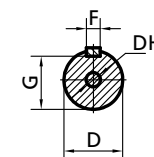
Frame size	Poles	D	E	F	G	DH	H	M	N	P	S	T	AC	AD	LA	LD	L	
																	B5	V1
80	2,4,6,8	19	40	6	15,5	M6x16	80	165	130	200	12	3,5	167	170	12	115	300	340
90S	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3,5	181	175	12	126	355	395
90L	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3,5	181	175	12	126	385	425
100L	2,4,6,8	28	60	8	24	M10x22	100	215	180	250	14,5	4	206	195	13	143	435	475
112M	2,4,6,8	28	60	8	24	M10x22	112	215	180	250	14,5	4	240	218	14	228	455	495
132S	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14,5	4	296	240	14	274	530	570
132M	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14,5	4	296	240	14	289	560	600
160M	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18,5	5	328	285	15	261	665	715
160L	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18,5	5	328	285	15	261	705	755
180M	2,4,6,8	48	110	14	42,5	M16x36	180	300	250	350	18,5	5	364	305	15	271	735	795
180L	2,4,6,8	48	110	14	42,5	M16x36	180	300	250	350	18,5	5	364	305	15	271	770	830
200L	2,4,6,8	55	110	16	49	M20x42	200	350	300	400	18,5	5	419	350	17	296	870	940
225S	4,6,8	60	140	18	53	M20x42	225	400	350	450	18,5	5	467	370	20	331	885	975
225M	2	55	110	16	49	M20x42	225	400	350	450	18,5	5	467	370	20	301	890	980
	4,6,8	60	140	18	53	M20x42	225	400	350	450	18,5	5	467	370	20	331	920	1010
250M	2	60	140	18	53	M20x42	250	500	450	550	18,5	5	523	410	22	349	985	1090
	4,6,8	65	140	18	58	M20x42	250	500	450	550	18,5	5	523	410	22	349	985	1090
280S	2	65	140	18	58	M20x42	280	500	450	550	18,5	5	588	440	22	357	995	1100
	4	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	588	440	22	357	985	1090
280M	6,8	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	588	440	22	357	995	1100
	2	65	140	18	58	M20x42	280	500	450	550	18,5	5	588	440	22	357	1035	1150
315S	4	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	588	440	22	357	1035	1150
	6,8	75	140	20	67,5	M20x42	280	500	450	550	18,5	5	588	440	22	357	1035	1150
315M	2	65	140	18	58	M20x42	315	600	550	660	24	6	620	550	22	397	1205	1325
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	620	550	22	427	1235	1355
315L1	2	65	140	18	58	M20x42	315	600	550	660	24	6	620	550	22	397	1315	1435
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	620	550	22	427	1345	1465
315L2	2	65	140	18	58	M20x42	315	600	550	660	24	6	620	550	22	397	1465	1585
	4	80	170	22	71	M20x42	315	600	550	660	24	6	620	550	22	427	1495	1615
355M	6,8	80	170	22	71	M20x42	315	600	550	660	24	6	620	550	22	427	1345	1465
	2	75	140	20	67,5	M20x42	355	740	680	800	24	6	698	580	25	400	1500	1640
355L	4,6,8	95	170	25	86	M24x47	355	740	680	800	24	6	698	580	25	430	1530	1670
	2	75	140	20	67,5	M20x42	355	740	680	800	24	6	698	580	25	400	1710	1850
355	4,6	95	170	25	86	M24x47	355	740	680	800	24	6	698	580	25	430	1740	1880
	8	95	170	25	86	M24x47	355	740	680	800	24	6	698	580	25	430	1530	1670
400	2	80	170	22	71	M24x47	355	840	780	900	24	6	750	/	28	472	1868	2018
	4,6,8	110	210	28	100	M24x47	355	840	780	900	24	6	750	/	28	512	1928	2078
400	2	85	170	22	76	M24x47	400	940	880	1000	28	6	860	/	28	526	1865	2005
	4,6,8	120	210	32	109	M24x47	400	940	880	1000	28	6	860	/	28	566	1925	2065



Dimensions IE4 /

B35

Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	M	N	P	S	T	AA	AB	AC	AD	BB	HA	HD	LA	LD	L	
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	165	130	200	12	3,5	34	160	167	170	142	10	250	12	115	300	
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	165	130	200	12	3,5	36	176	181	175	180	12	265	12	126	355	
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	165	130	200	12	3,5	36	176	181	175	220	12	265	12	126	385	
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	215	180	250	14,5	4	40	205	206	195	233	14	295	13	143	435	
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	215	180	250	14,5	4	45	230	240	218	236	15	325	14	147	455	
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	265	230	300	14,5	4	55	265	296	240	260	18	375	14	182	530	
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	265	230	300	14,5	4	55	265	296	240	290	18	375	14	182	560	
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14,5	300	250	350	18,5	5	65	320	328	285	315	20	450	15	261	665	
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14,5	300	250	350	18,5	5	65	320	328	285	355	20	450	15	261	705	
180M	2,4,6,8	279	241	121	48	110	14	42,5	M16x36	180	14,5	300	250	350	18,5	5	70	355	364	305	359	22	485	15	271	735	
180L	2,4,6,8	279	279	121	48	110	14	42,5	M16x36	180	14,5	300	250	350	18,5	5	70	355	364	305	394	22	485	15	271	770	
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18,5	350	300	400	18,5	5	70	390	419	350	454	25	550	17	296	870	
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18,5	400	350	450	18,5	5	75	435	467	370	431	25	595	20	331	885	
225M	2	356	311	149	55	110	16	49	M20x42	225	18,5	400	350	450	18,5	5	75	435	467	370	466	25	595	20	301	890	
250M	4,6,8	356	311	149	60	140	18	53	M20x42	225	18,5	400	350	450	18,5	5	75	435	467	370	466	25	595	20	331	920	
	2	406	349	168	60	140	18	53	M20x42	250	24	500	450	550	18,5	5	80	490	523	410	515	30	660	22	349	985	
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	500	450	550	18,5	5	80	490	523	410	515	30	660	22	349	985	
280S	2	457	368	190	65	140	18	58	M20x42	280	24	500	450	550	18,5	5	85	545	588	440	510	35	720	22	357	995	
	4	457	368	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	545	588	440	490	35	720	22	357	985	
	6,8	457	368	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	545	588	440	510	35	720	22	357	995	
280M	2	457	419	190	65	140	18	58	M20x42	280	24	500	450	550	18,5	5	85	545	588	440	550	35	720	22	357	1035	
	4	457	419	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	545	588	440	540	35	720	22	357	1035	
	6,8	457	419	190	75	140	20	67,5	M20x42	280	24	500	450	550	18,5	5	85	545	588	440	550	35	720	22	357	1035	
315S	2	508	406	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	620	550	570	45	885	22	397	1205	
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	620	550	570	45	885	22	427	1235	
315M	2	508	457/508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	620	550	680	45	885	22	397	1315	
	4,6,8	508	457/508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	620	550	680	45	885	22	427	1345	
315L1	2	508	457/508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	620	550	680	45	885	22	397	1315	
	4,6,8	508	457/508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	620	550	680	45	885	22	427	1345	
315L2	2	508	457/508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	620	550	830	45	885	22	397	1465	
	4	508	457/508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	620	550	830	45	885	22	427	1495	
	6,8	508	457/508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	620	550	680	45	885	22	427	1345	
355M	2	610	560/630	254	75	140	20	67,5	M20x42	355	28	740	680	800	24	6	116	730	698	580	760	52	980	25	400	1500	
	4,6,8	610	560/630	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	730	698	580	760	52	980	25	430	1530	
355L	2	610	630/800	254	75	140	20	67,5	M20x42	355	28	740	680	800	24	6	116	730	698	580	960	52	980	25	400	1710	
	4,6	610	630/800	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	730	698	580	960	52	980	25	430	1740	
	8	610	560/630	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	116	730	698	580	760	52	980	25	430	1530	
355	1	2	630	800	224	80	170	22	71	M24x47	355	35	840	780	900	24	6	135	760	750		1140	52	1012	28	472	1868
	2	3	4,6,8	630	800	224	110	210	28	100	M24x47	355	35	840	780	900	24	6	135	760	750		1140	52	1012	28	512
400	2	686	630/710	280	85	170	22	76	M24x47	400	35	940	880	1000	28	6	125	860	860		1160	45	1100	28	526	1895	
	4,6,8	686	630/710	280	120	210	32	109	M24x47	400	35	940	880	1000	28	6	125	860	860		1160	45	1100	28	566	1955	



Dimensions IE4

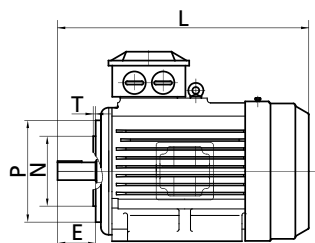
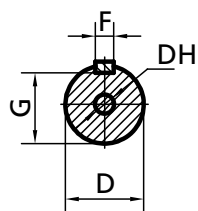
B14A / B14B

Frame size	Poles	D	E	F	G	DH	H	B14A					B14B					AC	AD	L
								M	N	P	S	T	M	N	P	S	T			
80	2,4,6,8	19	40	6	15,5	M6x16	80	100	80	120	M6	3	130	110	160	M8	3,5	167	170	300
90S	2,4,6,8	24	50	8	20	M8x19	90	115	95	140	M8	3	130	110	160	M8	3,5	181	175	355
90L	2,4,6,8	24	50	8	20	M8x19	90	115	95	140	M8	3	130	110	160	M8	3,5	181	175	385
100L	2,4,6,8	28	60	8	24	M10x22	100	130	110	160	M8	3,5	165	130	200	M10	3,5	206	195	435
112M	2,4,6,8	28	60	8	24	M10x22	112	130	110	160	M8	3,5	165	130	200	M10	3,5	240	218	455

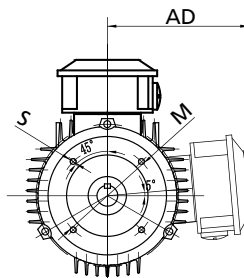
Dimensions IE4

B34A / B34B

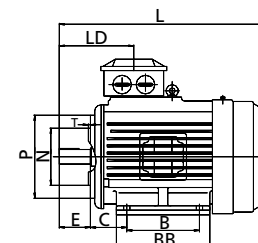
Frame size	Poles	A	B	C	D	E	F	G	DH	H	K	B34A					B34B					AA	AB	AC	AD	BB	HA	HD	LD	L
												M	N	P	S	T	M	N	P	S	T									
80	2,4,6,8	125	100	50	19	40	6	15,5	M6x16	80	10	100	80	120	M6	3	130	110	160	M8	3,5	34	160	167	170	142	10	250	115	300
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	115	95	140	M8	3	130	110	160	M8	3,5	36	176	181	175	180	12	265	126	355
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	115	95	140	M8	3	130	110	160	M8	3,5	36	176	181	175	220	12	265	126	385
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	130	110	160	M8	3,5	165	130	200	M10	3,5	40	205	206	195	233	14	295	143	435
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	130	110	160	M8	3,5	165	130	200	M10	3,5	45	230	240	218	236	15	325	147	455



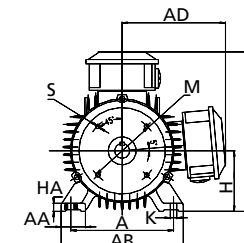
B14



B14




B34




B34


## TECHNICAL DATA IE5

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/I <sub>n</sub>	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
						3D5 801-2	0.86	3498	1.5	0.75	2915						
3D5 802-2	1.3	3492	2.2	1.1	2910	3.8	2.2		87.8	87.8	86.1	0.82	8.5	2.2	2.3	0.0018	19
3D5 90 S-2	1.7	3504	2.9	1.5	2920	5.0	2.9		88.9	88.9	87.5	0.84	9.0	2.2	2.3	0.0026	27
3D5 90 L-2	2.5	3498	4.1	2.2	2915	7.1	4.1		90.2	90.2	89.5	0.86	9.0	2.2	2.3	0.0033	28
3D5 100 L-2	3.5	3504	5.5	3	2920	9.5	5.5		91.1	91.1	90.1	0.87	9.5	2.2	2.3	0.0055	40
3D5 112 M-2	4.6	3504	7.2	4	2920		7.2	4.2	91.8	91.8	90.6	0.87	9.5	2.2	2.3	0.0098	54
3D5 132 S1-2	6.3	3546	9.9	5.5	2955		9.9	5.7	92.6	92.6	91.5	0.87	9.5	2.0	2.3	0.0262	80
3D5 132 S2-2	8.6	3540	13.2	7.5	2950		13.2	7.6	93.3	93.3	92.1	0.88	9.5	2.0	2.3	0.0333	90
3D5 160 M1-2	12.7	3552	19.2	11	2960		19.2	11.1	94.0	94.0	92.7	0.88	9.5	2.0	2.3	0.0622	130
3D5 160 M2-2	17.3	3552	26.0	15	2960		26.0	15.0	94.5	94.5	93.6	0.88	9.5	2.0	2.3	0.0763	146
3D5 160 L-2	21.3	3552	32.0	18.5	2960		32.0	18.5	94.9	94.9	94.1	0.88	9.5	2.0	2.3	0.0963	172
3D5 180 M-2	25.3	3564	37.9	22	2970		37.9	21.9	95.1	95.1	93.9	0.88	9.5	2.0	2.3	0.1339	221
3D5 200 L1-2	35	3570	51.5	30	2975		51.5	29.7	95.5	95.5	94.5	0.88	9.0	2.0	2.3	0.2340	288
3D5 200 L2-2	43	3570	63.3	37	2975		63.3	36.6	95.8	95.8	94.9	0.88	9.0	2.0	2.3	0.2674	306
3D5 225 M-2	52	3576	76.9	45	2980		76.9	44.4	96.0	96.0	95.1	0.88	9.0	2.0	2.3	0.3694	392
3D5 250 M-2	63	3582	92.7	55	2985		92.7	53.5	96.2	96.2	95.2	0.89	9.0	2.0	2.3	0.9224	514
3D5 280 S-2	86	3582	126.0	75	2985		126.0	72.8	96.5	96.5	95.4	0.89	8.5	1.8	2.3	1.1201	640
3D5 280 M-2	104	3582	151.1	90	2985		151.1	87.2	96.6	96.6	95.7	0.89	8.5	1.8	2.3	1.3030	715
3D5 315 S-2	127	3582	184.3	110	2985		184.3	106.4	96.8	96.8	96.0	0.89	8.5	1.8	2.3	1.7810	936
3D5 315 M-2	152	3582	220.9	132	2985		220.9	127.6	96.9	96.9	96.1	0.89	8.5	1.8	2.3	2.0592	1188
3D5 315 L1-2	184	3582	267.5	160	2985		267.5	154.5	97.0	97.0	96.3	0.89	8.5	1.8	2.2	2.5252	1268
3D5 315 L2-2	213	3582	309.0	185	2985		309.0	178.4	97.1	97.1	96.3	0.89	8.5	1.8	2.2	2.8914	1340
3D5 315 L2-2	230	3582	333.7	200	2985		333.7	192.7	97.2	97.2	96.5	0.89	8.5	1.8	2.2	2.8914	1346
3D5 355 M1-2	253	3582	363.0	220	2985		363.0	209.6	97.2	97.2	96.5	0.90	8.5	1.6	2.2	4.1448	1863
3D5 355 M-2	288	3582	412.5	250	2985		412.5	238.2	97.2	97.2	96.5	0.90	8.5	1.6	2.2	4.1448	1837
3D5 355 L1-2	322	3582	462.0	280	2985		462.0	266.7	97.2	97.2	96.5	0.90	8.5	1.6	2.2	5.2220	1885
3D5 355 L-2	362	3582	519.7	315	2985		519.7	300.1	97.2	97.2	96.5	0.90	8.5	1.6	2.2	5.2220	1930


## TECHNICAL DATA IE5

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D5 80 1-4	0.63	1734	1.3	0.55	1445	2.2	1.3		86.7	86.7	84.3	0.72	8.5	2.3	2.3	0.0025	20
3D5 80 2-4	0.86	1734	1.7	0.75	1445	2.9	1.7		88.2	88.2	85.3	0.73	8.5	2.3	2.3	0.0030	22
3D5 90 S-4	1.3	1746	2.4	1.1	1455	4.2	2.4		89.5	89.5	87.4	0.74	8.5	2.3	2.3	0.0048	28
3D5 90 L-4	1.7	1746	3.2	1.5	1455	5.5	3.2		90.4	90.4	87.5	0.75	9.0	2.3	2.3	0.0062	32
3D5 100 L1-4	2.5	1752	4.5	2.2	1460	7.7	4.5		91.4	91.4	88.5	0.78	9.0	2.3	2.3	0.0129	42
3D5 100 L2-4	3.5	1752	6.0	3	1460	10.3	6.0		92.1	92.1	88.9	0.79	9.5	2.3	2.3	0.0159	50
3D5 112 M-4	4.6	1758	7.9	4	1465		7.9	4.5	92.8	92.8	91.9	0.79	9.5	2.3	2.3	0.0228	64
3D5 132 S-4	6.3	1770	10.8	5.5	1475		10.8	6.2	93.4	93.4	92.1	0.79	9.5	2.0	2.3	0.0571	88
3D5 132 M-4	8.6	1770	14.4	7.5	1475		14.4	8.3	94.0	94.0	92.5	0.80	9.5	2.0	2.3	0.0754	100
3D5 160 M-4	12.7	1770	20.5	11	1475		20.5	11.8	94.6	94.6	93.6	0.82	9.5	2.0	2.3	0.1350	146
3D5 160 L-4	17.3	1770	27.4	15	1475		27.4	15.8	95.1	95.1	94.5	0.83	9.5	2.0	2.3	0.1745	174
3D5 180 M-4	21.3	1776	33.4	18.5	1480		33.4	19.3	95.3	95.3	94.4	0.84	9.5	2.0	2.3	0.2399	210
3D5 180 L-4	25.3	1776	39.6	22	1480		39.6	22.9	95.5	95.5	94.7	0.84	9.5	2.0	2.3	0.2817	225
3D5 200 L-4	35	1782	53.8	30	1485		53.8	31.0	95.9	95.9	95.0	0.84	9.0	2.0	2.3	0.5275	314
3D5 225 S-4	43	1782	66.2	37	1485		66.2	38.2	96.1	96.1	95.3	0.84	9.0	2.0	2.3	0.7153	394
3D5 225 M-4	52	1782	80.3	45	1485		80.3	46.4	96.3	96.3	95.7	0.84	9.0	2.0	2.3	0.8116	419
3D5 250 M-4	63	1788	96.8	55	1490		96.8	55.9	96.5	96.5	95.9	0.85	9.0	2.0	2.3	1.3424	540
3D5 280 S-4	86	1788	130.2	75	1490		130.2	75.2	96.7	96.7	95.9	0.86	8.5	2.0	2.3	1.9038	646
3D5 280 M-4	104	1788	154.1	90	1490		154.1	89.0	96.9	96.9	95.9	0.87	8.5	2.0	2.3	2.2154	714
3D5 315 S-4	127	1788	186.0	110	1490		186.0	107.4	97.0	97.0	96.0	0.88	8.5	1.8	2.2	3.5416	934
3D5 315 M-4	152	1788	223.0	132	1490		223.0	128.7	97.1	97.1	96.0	0.88	8.5	1.8	2.2	4.3345	1086
3D5 315 L1-4	184	1788	267.0	160	1490		267.0	154.1	97.2	97.2	96.2	0.89	8.5	1.8	2.2	5.4974	1314
3D5 315 L-4	213	1788	308.4	185	1490		308.4	178.0	97.3	97.3	96.3	0.89	8.5	1.8	2.2	5.8749	1475
3D5 315 L2-4	230	1788	333.0	200	1490		333.0	192.3	97.4	97.4	96.3	0.89	8.5	1.8	2.2	5.8749	1508
3D5 355 M1-4	253	1788	366.3	220	1490		366.3	211.5	97.4	97.4	96.3	0.89	8.5	1.8	2.2	10.5792	1800
3D5 355 M-4	288	1788	416.3	250	1490		416.3	240.3	97.4	97.4	96.3	0.89	8.5	1.8	2.2	10.7405	1844
3D5 355 L1-4	322	1788	466.2	280	1490		466.2	269.2	97.4	97.4	96.4	0.89	8.5	1.8	2.2	12.0640	2042
3D5 355 L-4	362	1788	524.5	315	1490		524.5	302.8	97.4	97.4	96.5	0.89	8.5	1.8	2.2	12.0640	2110

## TECHNICAL DATA IE5

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D5 90 S-6	0.86	1158	1.8	0.75	965	3.2	1.8		85.7	85.7	80.6	0.69	7.5	2.1	2.1	0.0066	28
3D5 90 L-6	1.3	1158	2.6	1.1	965	4.6	2.6		87.2	87.2	81.8	0.69	7.5	2.1	2.1	0.0091	30
3D5 100 L-6	1.7	1164	3.5	1.5	970	6.1	3.5		88.4	88.4	85.1	0.70	7.5	2.1	2.1	0.0174	42
3D5 112 M-6	2.5	1170	5.1	2.2	975	8.8	5.1		89.7	89.7	86.5	0.70	7.5	2.1	2.1	0.0281	53.5
3D5 132 S-6	3.5	1170	6.8	3	975	11.8	6.8		90.6	90.6	88.1	0.70	7.5	2.0	2.1	0.0501	73.5
3D5 132 M1-6	4.6	1170	8.9	4	975		8.9	5.1	91.4	91.4	89.8	0.71	8.0	2.0	2.1	0.0564	88
3D5 132 M2-6	6.3	1170	12.1	5.5	975		12.1	7.0	92.2	92.2	90.3	0.71	8.0	2.0	2.1	0.0949	98
3D5 160 M-6	8.6	1176	15.5	7.5	980		15.5	9.0	92.9	92.9	91.3	0.75	8.0	2.0	2.1	0.1454	138
3D5 160 L-6	12.7	1176	22.3	11	980		22.3	12.9	93.7	93.7	91.9	0.76	8.5	2.0	2.1	0.2081	164
3D5 180 L-6	17.3	1182	29.1	15	985		29.1	16.8	94.3	94.3	93.1	0.79	8.5	2.0	2.1	0.3782	223
3D5 200 L1-6	21.3	1182	35.7	18.5	985		35.7	20.6	94.6	94.6	93.6	0.79	8.5	2.0	2.1	0.5677	286
3D5 200 L2-6	25.3	1182	41.8	22	985		41.8	24.1	94.9	94.9	93.7	0.80	8.5	2.0	2.1	0.6624	308
3D5 225 M-6	35	1188	56.1	30	990		56.1	32.4	95.3	95.3	94.2	0.81	8.3	2.0	2.1	1.0186	350
3D5 250 M-6	43	1188	67.3	37	990		67.3	38.9	95.6	95.6	94.3	0.83	8.3	2.0	2.1	2.0440	492
3D5 280 S-6	52	1188	81.7	45	990		81.7	47.2	95.8	95.8	94.8	0.83	8.5	2.0	2.0	2.6010	596
3D5 280 M-6	63	1188	98.4	55	990		98.4	56.8	96.0	96.0	95.0	0.84	8.5	2.0	2.0	3.1098	638
3D5 315 S-6	86	1188	135.4	75	990		135.4	78.2	96.3	96.3	95.6	0.83	8.0	1.6	2.0	4.3411	886
3D5 315 M-6	104	1188	160.3	90	990		160.3	92.5	96.5	96.5	95.9	0.84	8.0	1.6	2.0	5.7415	1046
3D5 315 L1-6	127	1188	195.7	110	990		195.7	113.0	96.6	96.6	96.0	0.84	8.0	1.6	2.0	7.1419	1292
3D5 315 L2-6	152	1188	231.6	132	990		231.6	133.7	96.8	96.8	96.1	0.85	8.0	1.6	2.0	7.0252	1314
3D5 355 M1-6	184	1188	277.1	160	990		277.1	160.0	96.9	96.9	96.3	0.86	8.0	1.6	2.0	11.1414	1735
3D5 355 M-6	213	1188	320.1	185	990		320.1	184.8	97.0	97.0	96.3	0.86	8.0	1.6	2.0	13.9627	1753
3D5 355 M2-6	230	1188	346.1	200	990		346.1	199.8	97.0	97.0	96.3	0.86	8.0	1.6	2.0	13.9627	1970
3D5 355 L1-6	253	1188	380.7	220	990		380.7	219.8	97.0	97.0	96.4	0.86	8.0	1.6	2.0	15.7837	2007
3D5 355 L-6	288	1188	432.6	250	990		432.6	249.7	97.0	97.0	96.4	0.86	8.0	1.6	2.0	15.7837	2101

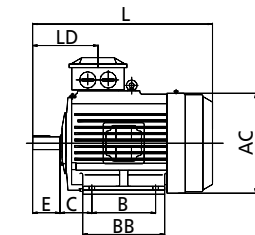
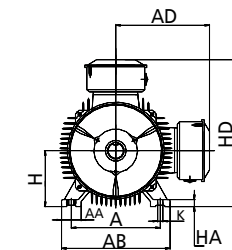
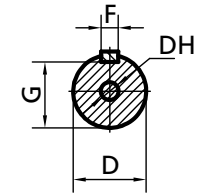
## TECHNICAL DATA IE5

Number of poles 	Power kW 60Hz	Full load speed rpm 60Hz	Full load current (A) 440-480V 460V 60Hz	Power kW 50Hz	Full load speed rpm 50Hz	Full load current (A) 50Hz			Efficiency 50 Hz			Power factor cos φ	Starting current ratio Ia/In	Starting torque ratio Ma/Mn	Pull out torque ratio Mmax/Mn	Moment of inertia kgm <sup>2</sup>	Mass (B3) kg
						220-240V 230V	380-420V 400V	690V	100%	75%	50%						
3D5 100L1-8	0.86	846	2.0	0.75	705	3.5	2.0		82.0	82.0	78.4	0.65	7.0	2.0	2.0	0.0092	40
3D5 100L2-8	1.3	846	2.9	1.1	705	5.0	2.9		84.0	84.0	80.9	0.66	7.0	2.0	2.0	0.0141	42
3D5 112M-8	1.7	858	3.7	1.5	715	6.4	3.7		85.5	85.5	84.6	0.68	7.0	1.8	2.0	0.0227	52.5
3D5 132 S-8	2.5	870	5.3	2.2	725	9.1	5.3		87.2	87.2	85.1	0.69	7.5	1.8	2.0	0.0474	105
3D5 132 M-8	3.5	870	7.1	3	725	12.3	7.1		88.4	88.4	86.1	0.69	7.8	1.8	2.0	0.0580	109
3D5 160 M1-8	4.6	870	9.2	4	725		9.2	5.3	89.4	89.4	87.2	0.70	7.9	1.8	2.0	0.0999	162
3D5 160 M2-8	6.3	870	12.4	5.5	725		12.4	7.1	90.4	90.4	88.6	0.71	8.1	1.8	2.0	0.1104	170
3D5 160 L-8	8.6	870	16.2	7.5	725		16.2	9.4	91.3	91.3	90.2	0.73	7.8	1.8	2.0	0.1614	176
3D5 180 L-8	12.7	876	23.6	11	730		23.6	13.6	92.2	92.2	91.2	0.73	7.9	1.8	2.0	0.2679	190
3D5 200 L-8	17.3	882	31.1	15	735		31.1	17.9	92.9	92.9	91.9	0.75	8.0	1.8	2.0	0.3849	258
3D5 225 S-8	21.3	888	38.2	18.5	740		38.2	22.0	93.3	93.3	92.2	0.75	8.1	1.8	2.0	0.7538	306
3D5 225 M-8	25.3	888	45.2	22	740		45.2	26.1	93.6	93.6	92.6	0.75	8.3	1.8	2.0	0.9168	346
3D5 250 M-8	35	888	60.5	30	740		60.5	35.0	94.1	94.1	93.1	0.76	7.9	1.8	2.0	1.2924	434
3D5 280 S-8	43	888	73.5	37	740		73.5	42.4	94.4	94.4	93.3	0.77	7.9	1.8	2.0	1.9575	554
3D5 280 M-8	52	888	89.1	45	740		89.1	51.4	94.7	94.7	93.6	0.77	7.9	1.8	2.0	2.4181	590
3D5 315 S-8	63	888	105.9	55	740		105.9	61.1	94.9	94.9	94.1	0.79	8.2	1.6	2.0	3.8577	858
3D5 315 M-8	86	888	143.8	75	740		143.8	83.0	95.3	95.3	94.7	0.79	7.6	1.6	2.0	5.1995	908
3D5 315 L1-8	104	888	170.0	90	740		170.0	98.2	95.5	95.5	94.7	0.80	7.7	1.6	2.0	6.2058	1088
3D5 315 L2-8	127	888	204.8	110	740		204.8	118.3	95.7	95.7	95.0	0.81	7.7	1.6	2.0	9.2299	1216
3D5 355 M1-8	152	888	245.3	132	740		245.3	141.6	95.9	95.9	95.0	0.81	7.7	1.6	2.0	12.7935	1816
3D5 355 M2-8	184	888	296.7	160	740		296.7	171.3	96.1	96.1	95.1	0.81	7.7	1.6	2.0	15.6365	1948
3D5 355 L1-8	213	888	342.7	185	740		342.7	197.9	96.2	96.2	95.1	0.81	7.8	1.6	2.0	18.4796	2114
3D5 355 L-8	230	888	370.1	200	740		370.1	213.7	96.3	96.3	95.2	0.81	7.8	1.6	2.0	18.4796	2220

Dimensions IE5

B3

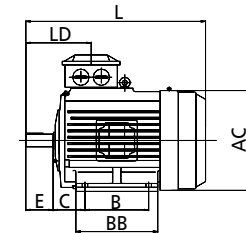
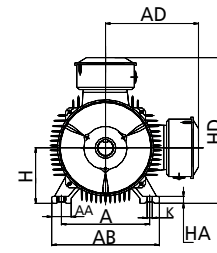
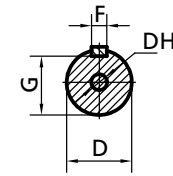
Frame Size	Poles	A	B	C	D	E	F	G	DH	H	K	AA	AB	AC	AD	BB	HA	HD	LD	L
80	2,4,6,8	125	100	50	19	40	6	15.5	M6x16	80	10	34	165	167	165	142	10	245	74	300
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	36	180	190	175	180	12	265	76	355
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	36	180	190	175	220	12	265	76	385
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	40	205	215	200	233	14	280	83	435
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	45	230	255	223	235	15	335	87	455
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	55	270	320	253	260	18	385	102	540
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	55	270	320	253	290	18	385	102	570
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14.5	65	320	350	285	320	20	445	146	670
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14.5	65	320	350	285	360	20	445	146	710
180M	2,4,6,8	279	241	121	48	110	14	42.5	M16x36	180	14.5	70	355	390	295	365	22	475	161	735
180L	2,4,6,8	279	279	121	48	110	14	42.5	M16x36	180	14.5	70	355	390	295	400	22	475	161	770
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18.5	70	395	450	340	460	25	540	186	870
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18.5	75	435	510	370	435	28	595	189	890
225M	2	356	311	149	55	110	16	49	M20x42	225	18.5	75	435	510	370	470	28	595	189	895
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18.5	75	435	510	370	470	28	595	189	925
250M	2	406	349	168	60	140	18	53	M20x42	250	24	80	490	565	405	520	30	655	207	985
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	80	490	565	405	520	30	655	207	985
280S	2	457	368	190	65	140	18	58	M20x42	280	24	85	550	635	445	515	35	725	215	995
	4	457	368	190	75	140	20	67.5	M20x42	280	24	85	550	635	445	490	35	725	215	985
	6,8	457	368	190	75	140	20	67.5	M20x42	280	24	85	550	635	445	515	35	725	215	995
280M	2	457	419	190	65	140	18	58	M20x42	280	24	85	550	635	445	555	35	725	215	1035
	4	457	419	190	75	140	20	67.5	M20x42	280	24	85	550	635	445	540	35	725	215	1035
	6,8	457	419	190	75	140	20	67.5	M20x42	280	24	85	550	635	445	555	35	725	215	1035
315S	2	508	406	216	65	140	18	58	M20x42	315	28	120	630	645	535	570	45	850	257	1200
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	120	630	645	535	570	45	850	257	1230
315M	2	508	457	216	65	140	18	58	M20x42	315	28	120	630	645	535	680	45	850	257	1310
	4,6,8	508	457	216	80	170	22	71	M20x42	315	28	120	630	645	535	680	45	850	257	1340
315L1	2	508	508	216	65	140	18	58	M20x42	315	28	120	630	645	535	680	45	850	257	1310
315L1	4,6,8	508	508	216	80	170	22	71	M20x42	315	28	120	630	645	535	680	45	850	257	1340
315L2	2	508	508	216	65	140	18	58	M20x42	315	28	120	630	645	535	830	45	850	257	1460
315L2	6	508	508	216	80	170	22	71	M20x42	315	28	120	630	645	535	680	45	850	257	1340
315L2	4.8	508	508	216	80	170	22	71	M20x42	315	28	120	630	645	535	830	45	850	257	1490
355M	2	610	560	254	75	140	20	67.5	M20x42	355	28	120	730	720	645	760	52	930	284	1505
	4,6,8	610	560	254	95	170	25	86	M24x47	355	28	120	730	720	645	760	52	930	284	1535
355L	2	610	630	254	75	140	20	67.5	M20x42	355	28	120	730	720	645	960	52	930	284	1715
	4,6,8	610	630	254	95	170	25	86	M24x47	355	28	120	730	720	645	960	52	930	284	1745



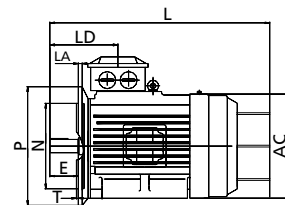
Dimensions IE5

B5 / V1

Frame Size	Poles	D	E	F	G	DH	H	M	N	P	S	T	AC	AD	LA	LD	L	
																	B5	V1
80	2,4,6,8	19	40	6	15.5	M6x16	80	165	130	200	12	3.5	167	165	12	74	300	340
90S	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3.5	190	175	12	76	355	395
90L	2,4,6,8	24	50	8	20	M8x19	90	165	130	200	12	3.5	190	175	12	76	385	425
100L	2,4,6,8	28	60	8	24	M10x22	100	215	180	250	14.5	4	215	200	13	83	435	475
112M	2,4,6,8	28	60	8	24	M10x22	112	215	180	250	14.5	4	234	223	14	87	455	495
132S	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14.5	4	296	253	14	102	540	580
132M	2,4,6,8	38	80	10	33	M12x28	132	265	230	300	14.5	4	296	253	14	102	570	610
160M	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18.5	5	330	285	15	146	670	717
160L	2,4,6,8	42	110	12	37	M16x36	160	300	250	350	18.5	5	330	285	15	146	710	757
180M	2,4,6,8	48	110	14	42.5	M16x36	180	300	250	350	18.5	5	365	295	15	161	735	795
180L	2,4,6,8	48	110	14	42.5	M16x36	180	300	250	350	18.5	5	365	295	15	161	770	830
200L	2,4,6,8	55	110	16	49	M20x42	200	350	300	400	18.5	5	418	340	17	186	870	940
225S	4,6,8	60	140	18	53	M20x42	225	400	350	450	18.5	5	464	370	20	189	890	980
225M	2	55	110	16	49	M20x42	225	400	350	450	18.5	5	464	370	20	189	895	985
	4,6,8	60	140	18	53	M20x42	225	400	350	450	18.5	5	464	370	20	189	925	1015
250M	2	60	140	18	53	M20x42	250	500	450	550	18.5	5	520	405	22	207	985	1090
	4,6,8	65	140	18	58	M20x42	250	500	450	550	18.5	5	520	405	22	207	985	1090
280S	2	65	140	18	58	M20x42	280	500	450	550	18.5	5	583	445	22	215	995	1110
	4	75	140	20	67.5	M20x42	280	500	450	550	18.5	5	583	445	22	215	985	1100
	6,8	75	140	20	67.5	M20x42	280	500	450	550	18.5	5	583	445	22	215	995	1110
280M	2	65	140	18	58	M20x42	280	500	450	550	18.5	5	583	445	22	215	1035	1150
	4	75	140	20	67.5	M20x42	280	500	450	550	18.5	5	583	445	22	215	1035	1150
	6,8	75	140	20	67.5	M20x42	280	500	450	550	18.5	5	583	445	22	215	1035	1150
315S	2	65	140	18	58	M20x42	315	600	550	660	24	6	645	535	22	257	1200	1320
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	645	535	22	257	1230	1350
315M	2	65	140	18	58	M20x42	315	600	550	660	24	6	645	535	22	257	1310	1430
	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	645	535	22	257	1340	1460
315L1	2	65	140	18	58	M20x42	315	600	550	660	24	6	645	535	22	257	1310	1430
315L1	4,6,8	80	170	22	71	M20x42	315	600	550	660	24	6	645	535	22	257	1340	1460
315L2	2	65	140	18	58	M20x42	315	600	550	660	24	6	645	535	22	257	1460	1580
315L2	6	80	170	22	71	M20x42	315	600	550	660	24	6	645	535	22	257	1340	1460
315L2	4.8	80	170	22	71	M20x42	315	600	550	660	24	6	645	535	22	257	1490	1610
355M	2	75	140	20	67.5	M20x42	355	740	680	800	24	6	720	645	25	284	1505	1645
	4,6,8	95	170	25	86	M24x47	355	740	680	800	24	6	720	645	25	284	1535	1675
355L	2	75	140	20	67.5	M20x42	355	740	680	800	24	6	720	645	25	284	1715	1855
	4,6,8	95	170	25	86	M24x47	400	740	680	800	24	6	720	645	28	284	1745	1885



B5

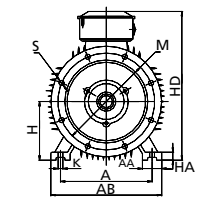
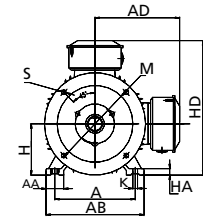
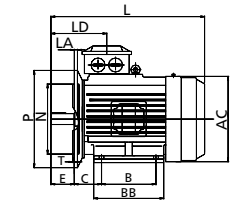
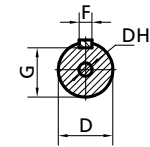


V1

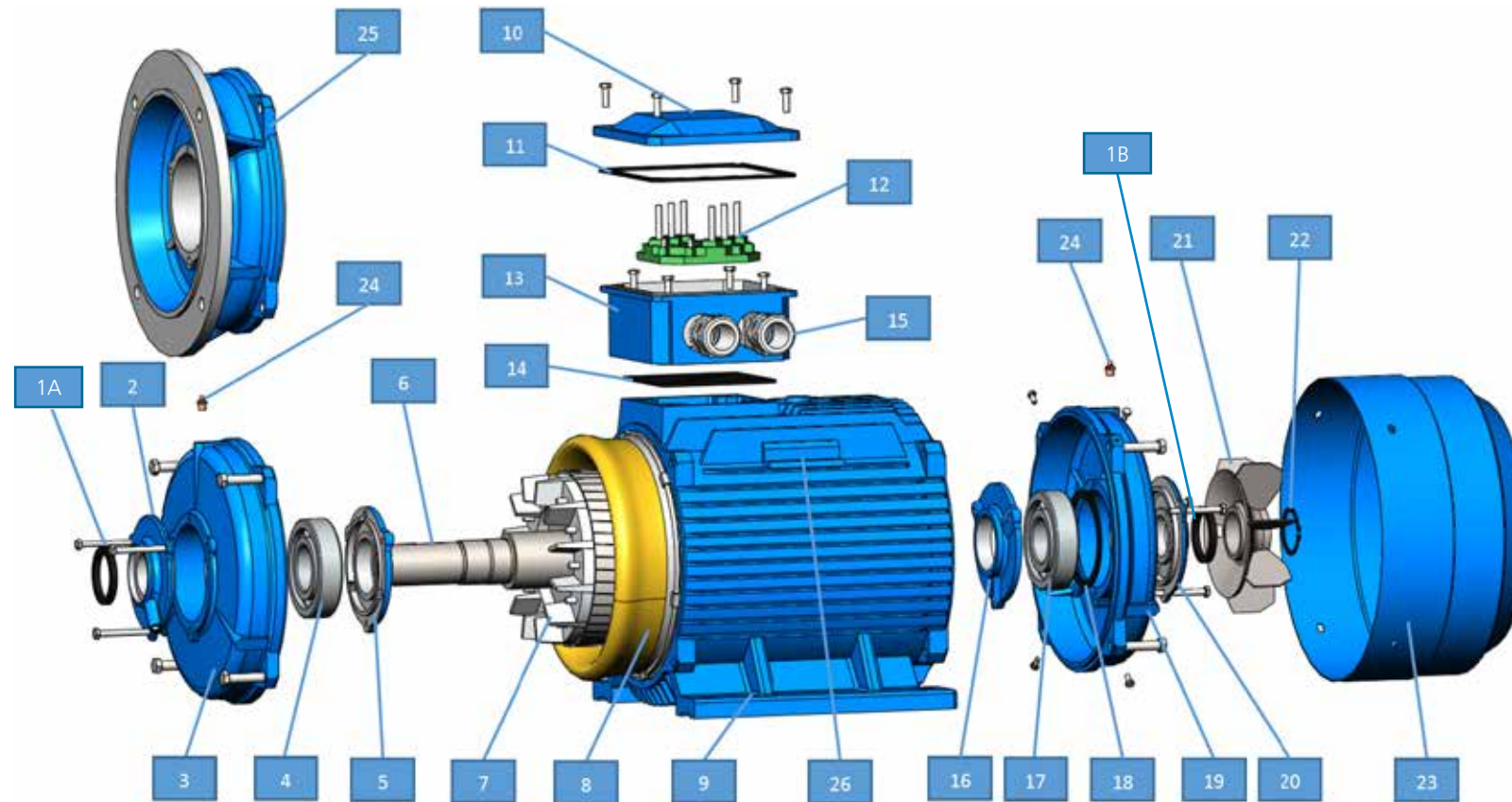
Dimensions IE5

B35

Frame Size	Poles	A	B	C	D	E	F	G	DH	H	K	M	N	P	S	T	AA	AB	AC	AD	BB	HA	HD	LA	LD	L
80	2,4,6,8	125	100	50	19	40	6	15.5	M6x16	80	10	165	130	200	12	3.5	34	165	167	165	142	10	245	12	74	300
90S	2,4,6,8	140	100	56	24	50	8	20	M8x19	90	10	165	130	200	12	3.5	36	180	190	175	180	12	265	12	76	355
90L	2,4,6,8	140	125	56	24	50	8	20	M8x19	90	10	165	130	200	12	3.5	36	180	190	175	220	12	265	12	76	385
100L	2,4,6,8	160	140	63	28	60	8	24	M10x22	100	12	215	180	250	14.5	4	40	205	215	200	233	14	280	13	83	435
112M	2,4,6,8	190	140	70	28	60	8	24	M10x22	112	12	215	180	250	14.5	4	45	230	255	223	235	15	335	14	87	455
132S	2,4,6,8	216	140	89	38	80	10	33	M12x28	132	12	265	230	300	14.5	4	55	270	320	253	260	18	385	14	102	540
132M	2,4,6,8	216	178	89	38	80	10	33	M12x28	132	12	265	230	300	14.5	4	55	270	320	253	290	18	385	14	102	570
160M	2,4,6,8	254	210	108	42	110	12	37	M16x36	160	14.5	300	250	350	18.5	5	65	320	350	285	320	20	445	15	146	670
160L	2,4,6,8	254	254	108	42	110	12	37	M16x36	160	14.5	300	250	350	18.5	5	65	320	350	285	360	20	445	15	146	710
180M	2,4,6,8	279	241	121	48	110	14	42.5	M16x36	180	14.5	300	250	350	18.5	5	70	355	390	295	365	22	475	15	161	735
180L	2,4,6,8	279	279	121	48	110	14	42.5	M16x36	180	14.5	300	250	350	18.5	5	70	355	390	295	400	22	475	15	161	770
200L	2,4,6,8	318	305	133	55	110	16	49	M20x42	200	18.5	350	300	400	18.5	5	70	395	450	340	460	25	540	17	186	870
225S	4,6,8	356	286	149	60	140	18	53	M20x42	225	18.5	400	350	450	18.5	5	75	435	510	370	435	28	595	20	189	890
225M	2	356	311	149	55	110	16	49	M20x42	225	18.5	400	350	450	18.5	5	75	435	510	370	470	28	595	20	189	895
	4,6,8	356	311	149	60	140	18	53	M20x42	225	18.5	400	350	450	18.5	5	75	435	510	370	470	28	595	20	189	925
250M	2	406	349	168	60	140	18	53	M20x42	250	24	500	450	550	18.5	5	80	490	565	405	520	30	655	22	207	985
	4,6,8	406	349	168	65	140	18	58	M20x42	250	24	500	450	550	18.5	5	80	490	565	405	520	30	655	22	207	985
280S	2	457	368	190	65	140	18	58	M20x42	280	24	500	450	550	18.5	5	85	550	635	445	515	35	725	22	215	995
	4	457	368	190	75	140	20	67.5	M20x42	280	24	500	450	550	18.5	5	85	550	635	445	490	35	725	22	215	985
	6,8	457	368	190	75	140	20	67.5	M20x42	280	24	500	450	550	18.5	5	85	550	635	445	515	35	725	22	215	995
280M	2	457	419	190	65	140	18	58	M20x42	280	24	500	450	550	18.5	5	85	550	635	445	555	35	725	22	215	1035
	4	457	419	190	75	140	20	67.5	M20x42	280	24	500	450	550	18.5	5	85	550	635	445	540	35	725	22	215	1035
	6,8	457	419	190	75	140	20	67.5	M20x42	280	24	500	450	550	18.5	5	85	550	635	445	555	35	725	22	215	1035
315S	2	508	406	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	645	535	570	45	850	22	257	1200
	4,6,8	508	406	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	645	535	570	45	850	22	257	1230
315M	2	508	457	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	645	535	680	45	850	22	257	1310
	4,6,8	508	457	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	645	535	680	45	850	22	257	1340
315L1	2	508	508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	645	535	680	45	850	22	257	1310
315L1	4,6,8	508	508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	645	535	680	45	850	22	257	1340
315L2	2	508	508	216	65	140	18	58	M20x42	315	28	600	550	660	24	6	120	630	645	535	830	45	850	22	257	1460
315L2	6	508	508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	645	535	680	45	850	22	257	1340
315L2	4,8	508	508	216	80	170	22	71	M20x42	315	28	600	550	660	24	6	120	630	645	535	830	45	850	22	257	1490
355M	2	610	560	254	75	140	20	67.5	M20x42	355	28	740	680	800	24	6	120	730	720	645	760	52	930	25	284	1505
	4,6,8	610	560	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	120	730	720	645	760	52	930	25	284	1535
355L	2	610	630	254	75	140	20	67.5	M20x42	355	28	740	680	800	24	6	120	730	720	645	960	52	930	25	284	1715
	4,6,8	610	630	254	95	170	25	86	M24x47	355	28	740	680	800	24	6	120	730	720	645	960	52	930	28	284	1745



## Components



Name of parts			
1A/1B. Skeleton Seal	8. Stator	15. Cable Gland	22. Circlip
2. Outer Bearing Cap at DE	9. Enclosure	16. Inner Bearing Cap at NDE	23. Fan Cowl
3. Endshield at DE	10. Terminal Lid	17. Bearing	24. Grease Nipple
4. Bearing	11. Gasket btw Terminal Lid and Box	18. Spring Washer	25. Flange Endshield
5. Inner Bearing Cap at DE	12. Terminal Board	19. Endshield at NDE	26. Nameplate Base
6. Shaft	13. Terminal Bracket	20. Outer Bearing Cap at NDE	
7. Rotor	14. Gasket btw Terminal Bracket and Frame	21. Fan	



We have the deep engineering expertise to manufacture customized drive solutions to fit the needs of most customers and applications.

# OUR ENERGY – YOUR SUCCESS



Contact information for BEVI and our distributors is continuously updated on our website [www.bevi.com](http://www.bevi.com).

## Sweden

**BEVI AB (Headquarters)**  
Blomstermåla  
Tel. +46 499 271 00  
[info@bevi.se](mailto:info@bevi.se)  
[www.bevi.se](http://www.bevi.se)

## BEVI AB (Regional office)

Umeå  
Tel. +46 90 70 44 30  
[bevinord@bevi.se](mailto:bevinord@bevi.se)  
[www.bevi.se](http://www.bevi.se)

## Denmark

**BEVI A/S**  
Albertslund  
Tel. +45 39 67 36 05  
[bevi@bevi.dk](mailto:bevi@bevi.dk)  
[www.bevi.dk](http://www.bevi.dk)

## Norway

**BEVI Norge AS**  
Oslo  
Tel. +47 23 19 16 50  
[info@bevi.no](mailto:info@bevi.no)  
[www.bevi.no](http://www.bevi.no)

## Finland

**BEVI Finland OY AB**  
Espoo  
Tel. +358 9 2709 1210  
[info@bevi.fi](mailto:info@bevi.fi)  
[www.bevi.fi](http://www.bevi.fi)

## China

**BEVI Electric Shanghai Co., Ltd.**  
Shanghai  
Tel. +86 21 5032 5200  
[sales@bevi.cn](mailto:sales@bevi.cn)  
[www.bevi.cn](http://www.bevi.cn)

## India

**BEVI Electric Private Limited.**  
Chennai  
Tel. +91 9444 168976  
[alexander.daniel@bevi.com](mailto:alexander.daniel@bevi.com)  
[www.bevi.com](http://www.bevi.com)