INLINE MOTOR



- Premium Efficiency IE3 Motors
- High Efficiency IE2 Motors

18 Months Warranty

มอเตอร์ไฟฟ้าชนิด 3 สาย

Frame size 63 to 355

Power 0.12KW to 315KW

Certificated By

CE CSA US

ISO 9001:2008
ISO 14001:2004

IEC Standard IP55 Class F

Foot, Flange, Face available

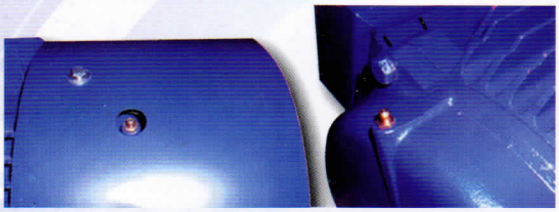
จุดเด่นของมอเตอร์ไฟฟ้า

INLINE MOTOR

ด้วยความใส่ใจต่อประโยชน์ใช้สอยและยืดอายุการใช้งานมอเตอร์ให้ยาวนาน รวมทั้งความสะดวกในการบำรุงรักษาและการติดตั้ง เราจึงเพิ่มเติมคุณลักษณะของมอเตอร์ไฟฟ้า INLINE ให้เหมาะสมยิ่งขึ้น

P55 กันน้ำกันฝุ่นได้ดีกว่า
Class F ทนความร้อนสูงสุด 155 Degree

เลือกใช้ตลับลูกปืน SKF เท่านั้น
เพราะเป็นยี่ห้อที่เชื่อถือได้ที่สุดในโลก





รูอัดจารบีและรูถ่ายจารบี

มอเตอร์ตั้งแต่ Frame 250 ขึ้นไป จะใช้ตลับลูกปืนชนิดเปิด มีรูอัดจารบี และรูถ่ายจารบี เพื่อให้สามารถเพิ่มเติมและเปลี่ยนถ่ายจารบีได้ ทำให้ตลับลูกปืน มีอายุการใช้งานยาวนานกว่าตลับลูกปืนแบบปิด อันเป็นการลดจำนวนครั้งในการถอดเปลี่ยนตลับลูกปืน

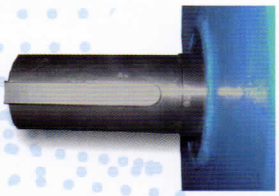
Cable Gland

1 Unit สำหรับมอเตอร์ขนาด 3KW ลงมา 2 Units สำหรับมอเตอร์ 4KW ขึ้นไป และพิเศษ Cable Gland สำหรับ Thermistor ในรุ่นที่มีการติดตั้ง Thermistor (ตั้งแต่ frame 160 ขึ้นไป)



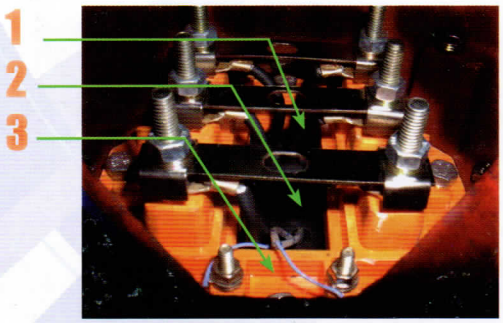
กล่องต่อไฟ Terminal Box

กล่องต่อไฟถูกออกแบบให้มีลักษณะตัดเฉียง เพื่อเพิ่มพื้นที่ในการสอดมือเข้าไปทำงาน รวมทั้งออกแบบให้มีลักษณะครอบทับกล่องต่อไฟเพื่อให้สามารถกันน้ำได้ดียิ่งขึ้น



เพลา

เพลาได้ถูกออกแบบให้สะดวกต่อการใช้งาน และแข็งแกร่ง ทนต่องานหนัก สามารถถอด-ใส่ได้ง่าย แม้ใช้งานไปหลาย ๆ ปี



ภายในกล่องต่อไฟ

1. ฉนวนหุ้มสาย ใช้วัสดุทนความร้อนชั้นหนึ่ง ไม่เกิดไฟรั่วแม้ใช้งานเป็นเวลานานปี
2. แผ่นยางรองกล่องต่อไฟป้องกันสิ่งแปลกปลอมเข้าไปทำความเสียหายต่อขดลวด
3. Thermistor อุปกรณ์พิเศษป้องกันมอเตอร์ไหม้ ตัดกระแสไฟฟ้าทันที ที่อุณหภูมิขดลวดสูงเกิน (ตั้งแต่ Frame 160 ขึ้นไป) ทั้งนี้ต้องทำงานคู่กับ Thermistor Relay



ประกาศการรับรองคุณภาพ

ผลิตจากโรงงานที่ได้รับการรับรองมาตราฐาน ISO 9001 Version 2008
ได้รับการรับรองมาตรฐาน CSA สำหรับการส่งออกไปยังแคนาดาและอเมริกา
ได้รับการรับรองมาตรฐาน CE สำหรับการส่งออกไปยังยุโรป
มาตรฐานการรักษาสิ่งแวดล้อม ISO 14001
รับประกันคุณภาพนาน 18 เดือน

18 Months Warranty

✦ *THREE – PHASE INDUCTION MOTOR*

Totally Enclosed, externally ventilated, protection IP55, insulation class F with temperature rise class B, - Continuous operation – S1, Cage – type rotor in cast iron frame.

✦ *MECHANICAL AND CONSTRUCTION CHARACTERISTICS*

A motor described in this catalogue are dimensioned according to IEC Standard.

Casing : Our motor casings from size 63 to 355 are in die cast iron. The aluminum frame is upon request. Painting is blue but IE3 Motors painting is green.

Rotor : Cage rotor are made of aluminum (pressure die – cast method). The rotors are dynamically balanced (with the key inserted on shaft), in accordance with vibration rating N (IEC 34-14 Standard).

Stator Windings : The stators, assembled from magnetic sheet metal, are wound with copper wire insulated with a double coating to class F standard. Windings are subjected to a special impregnation treatment with insulating paint, increase compactness and heat dispersion coefficients.

Ventilation : External and surface ventilation in provided by redial bi-directional fan blades installed on the opposite end of drive shaft, inside a fan cover made.

Bearings : Bearings for IE2 and IE3 Motors

Frame	Poles	Bearing#(DE/NDE)	Poles	Bearing#(DE/NDE)
63	2	6201C3 ZZ / 6201C3 ZZ	4, 6, 8	6201 ZZ / 6201 ZZ
71	2	6202C3 ZZ / 6202C3 ZZ	4, 6, 8	6202 ZZ / 6202 ZZ
80	2	6204C3 ZZ / 6204C3 ZZ	4, 6, 8	6204 ZZ / 6204 ZZ
90	2	6205C3 ZZ / 6205C3 ZZ	4, 6, 8	6205 ZZ / 6205 ZZ
100	2	6206C3 ZZ / 6206C3 ZZ	4, 6, 8	6206 ZZ / 6206 ZZ
112	2	6206C3 ZZ / 6206C3 ZZ	4, 6, 8	6206 ZZ / 6206 ZZ
132	2	6208C3 ZZ / 6208C3 ZZ	4, 6, 8	6208 ZZ / 6208 ZZ
160	2	6209C3 ZZ / 6209C3 ZZ	4, 6, 8	6309 ZZ / 6209 ZZ
180	2	6211C3 ZZ / 6211C3 ZZ	4, 6, 8	6311 ZZ / 6211 ZZ
200	2	6212C3 ZZ / 6212C3 ZZ	4, 6, 8	6312 ZZ / 6212 ZZ
225	2	6312C3 ZZ / 6312C3 ZZ	4, 6, 8	6313 ZZ / 6312 ZZ
250	2	6313C3 / 6313C3 Open	4, 6, 8	6314 / 6313 Open
280	2	6314C3 / 6314C3 Open	4, 6, 8	6317 / 6314 Open
315	2	6317C3 / 6317C3 Open	4, 6, 8	N319 / 6319 Open
355	2	6319C3 / 6319C3 Open	4, 6, 8	N322 / 6322 Open

note: "DE" means Drive End of the motor
"NDE" means Non-Drive End of motor

✦ *VOLTAGE AND FREQUENCIES:*

Motors are normally supplied with 50Hz frequency unless specified otherwise. 50Hz motor can be used at 60Hz. The following table indicates the coefficients required to obtain new performance levels with reference to difference voltages.

Motor wound for	Motor Feeding	Data Variation depending on voltage				
		KW (HP)	n1	A	Nom. Torque	Staring torque
220V 50Hz	220V 60Hz	100%	120%	100%	83%	83%
	260V 60Hz	115%	120%	100%	100%	100%
380V 50Hz	380V 60Hz	100%	120%	100%	83%	83%
	440V 60Hz	115%	120%	100%	100%	100%

✦ OPERATING CONDITIONS (IEC 34–1)

Service: This is the definition of the load to which the motor is subjected, inclusive of starting, electrical braking, rest and loadless times, as well as the sequence are duration of these.

✦ TYPES OF SERVICE:

S1 = continuous service
S2 = limited duration service
S3 = Periodic intermittent service
S4 = Periodic intermittent service with starting phase
S5 = Periodic intermittent service with electric braking
S6 = Periodic intermittent service with intermittent load
S7 = Periodic interrupted service with electric braking
S8 = Periodic interrupted service with correlated variations of load and speed
S9 = Service with non – periodic variations of load and speed

Motors built for general use, as described in this catalogue, are able to operate in **S1 service.**

✦ ALTITUDE AND TEMPERATURE

The power rating shown refer to motors which normally operating conditions, motors characteristics will vary according to the coefficients shown in the chart below.

Ambient Temperature (°C)	% Nominal Power Rating
40	100%
45	96.5%
50	93%
55	90%
60	86.5%
70	79%

Altitude Above Sea Level in Metres	% Nominal Power Rating
1000 m	100%
1500 m	97%
2000 m	94.5%
2500 m	92%
3000 m	89%
4000 m	83.5%

✦ TERMINAL BOX AND CABLE GLAND:

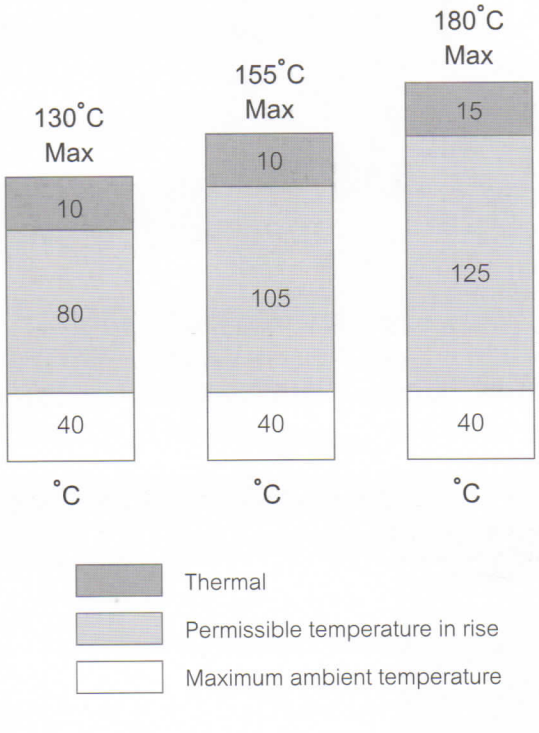
Type	Size of conduit hole	Size of terminal box frame
63-80	M25 x 1.5	92 x 92 x 56
90-100		100 x 100 x 63
112-132	2-M32 x 1.5	116 x 107 x 72
160-180	2-M40 x 1.5	158 x 149 x 85
200-225	2-M50 x 1.5	207 x 188 x 108
250-280	2-M63 x 1.5	245 x 215 x 133
315		317 x 280 x 175
355		340 x 290 x 165
400	3-M72X2	592 x500 x403

✦ OVER-TEMPERATURE AND INSULATION RATINGS:

Considering the full load operation of a motor at maximum ambient temperature of 40 °c,

The insulation rating is calculated according to the temperature increase of the motor itself. Normalized power of our motors are based on a temperature rise corresponding to class 'B' insulation, which our motors are constructed with class 'F' insulation

Class B	Class F (STANDARD)	Class H



✦ *PROTECTION LEVEL (IEC 34–5)*

Protection levels against accidental contact and/or against the entrance of foreign bodies and the entrance of water are expressed internationally by a code rating made up of a group of two letters and numbers;

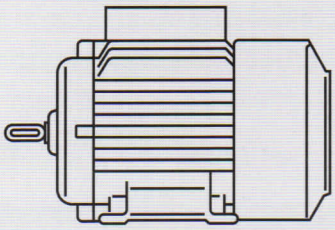
IP = Reference letters for type of protection;
1st number = Protection level against solid objects;
2nd number = Protection level against water

	1st number Protected against	2nd number Protected against
IP 21	Protected against solid objects of over 12 mm (e.g. finger)	water drop falling vertically must not cause damage
IP 22		water drop falling on the motor from a 15 degree angle direction must not cause damage
IP 23		water falling down from a 60 degree angle direction must not cause damage
IP 44	any contact tools, wire or similar objects of width or diameter exceeding 1mm. with the live or rotating parts inside the casing	water sprinkled on the machine from any direction must not cause damage
IP 45		water ejected by a nozzle on the machine from any direction must not cause damage
IP 54	Protected against dust (no deposits of harmful meterial)	water sprinkled on the machine from any direction must not cause damage
IP 55*		water ejected by a nozzle on the machine from any direction must not cause damage
IP 56		with troubled waters (sea), water inside the water must not reach damaging quantity
IP 57		damaging quantities of water can not penetrate into the motor, when the motor is under water. (The motor is under a specific pressure of depth, and the immersion lasts only for a limited lap on time)
IP 65	Totally protected against dust	water ejected by a nozzle on the machine from any direction must not cause damage
IP66		Protected against strong jets of water e.g. for use on shipdecks - limited ingress permitted
IP 67		Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes
IP 68		Protected against long periods of immersion under pressure

*The standard protecting of our motor is IP55, but models with different protection levels are often supplied.

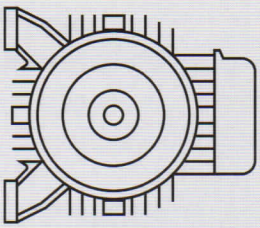
MOUNTING ARRANGEMENTS

M B3/ M 1001



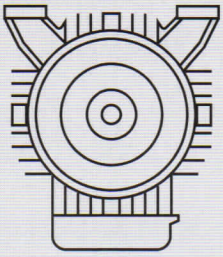
1) Foot mounted

M B6/ M 1051



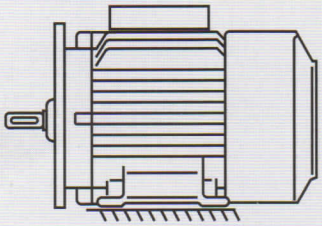
2) Foot wall mounted with feet on left side viewed from DE

M B8/ M 1071



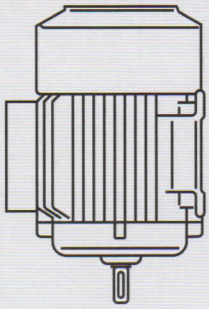
3) Ceiling mounted with feet above motor

M B35/ M 2001



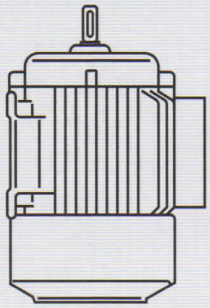
4) B5 type flange at DE, with feet

M V5/ M 1011



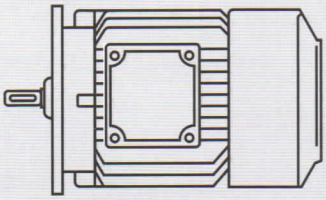
5) Vertical feet wall mounted shaft down

M V6/ M 1031



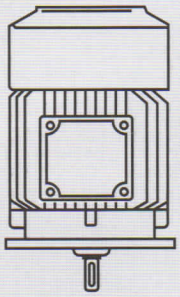
6. Vertical feet wall mounted shaft up

M B5/ M 3001



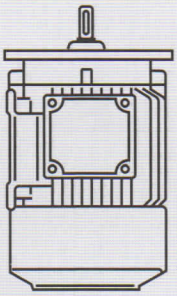
7) B5 type flange at DE, no feet

M V1/ M 3011



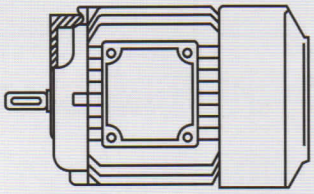
8) B5 type flange at DE, no feet shaft down

M V3/ M 3031



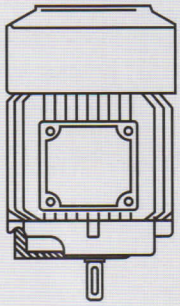
9) B5 type flange at DE, shaft up no feet

M B14/ M 3601



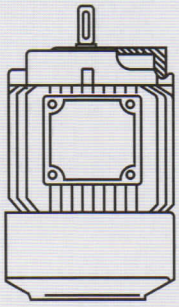
10) Face flange B14 at DE, no feet

M V18/ M 3611



11) Face flange B14 at DE, shaft down, no feet

M V19/ M 3631



12) Face flange B14 at DE, shaft up, no feet

SPECIFICATION

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 380V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
2 POLE 3000 RPM																	
IN63A-2	0.18	0.25	0.53	2720	65.0	65.7	63.1	0.80	0.614	2.2	2.2	5.5	61	1.8	0.00016	8	-
IN63B-2	0.25	0.33	0.69	2720	68.0	70.7	70.3	0.81	0.853	2.2	2.2	5.5	61	1.8	0.00019	9	-
IN71A-2	0.37	0.5	0.99	2740	70.1	69.6	66.9	0.81	1.262	2.2	2.2	6.1	64	1.8	0.00032	11	-
IN71B-2	0.55	0.75	1.4	2740	73.0	72.8	70.6	0.82	1.875	2.3	2.2	6.1	64	1.8	0.0004	12	-
IF2-80A-2	0.75	1	1.8	2835	77.4	76.7	74.4	0.83	2.53	2.3	2.3	6.8	64	1.8	0.001	15	IE2
IF2-80B-2	1.1	1.5	2.5	2835	79.6	79.7	77.7	0.84	3.71	2.3	2.3	7.1	64	1.8	0.001	17	IE2
IF2-90S-2	1.5	2	3.3	2835	81.3	80.0	76.9	0.85	5.01	2.3	2.3	7.3	69	1.8	0.001	20	IE2
IF2-90L-2	2.2	3	4.7	2835	83.2	82.9	81.2	0.86	7.41	2.3	2.3	7.6	69	1.8	0.001	31	IE2
IF2-100L-2	3	4	6.1	2855	84.6	83.7	81.2	0.88	10.04	2.2	2.3	7.8	76	1.8	0.003	33	IE2
IF2-112M-2	4	5.5	8.0	2875	85.8	85.3	83.1	0.89	13.29	2.2	2.3	8.1	79	1.8	0.006	37	IE2
IF2-132SA-2	5.5	7.5	10.8	2895	87	85.9	83.6	0.89	18.14	2.2	2.3	8.2	81	1.8	0.011	57	IE2
IF2-132SB-2	7.5	10	14.4	2895	88.1	87.5	85.8	0.90	24.74	2.2	2.3	7.8	81	1.8	0.013	66	IE2
IF2-160MA-2	11	15	20.8	2925	89.4	89.4	88.4	0.90	35.91	2.2	2.3	7.9	83	2.8	0.038	99	IE2
IF2-160MB-2	15	20	28.0	2925	90.3	90.6	89.8	0.90	48.97	2.2	2.3	7.9	83	2.8	0.045	110	IE2
IF2-160L-2	18.5	25	34.4	2925	90.9	91.0	90.3	0.90	60.4	2.2	2.3	8	83	2.8	0.055	140	IE2
IF2-180M-2	22	30	40.7	2935	91.3	91.1	89.7	0.90	71.6	2.2	2.3	8.1	85	2.8	0.075	160	IE2
IF2-200LA-2	30	40	55.1	2945	92	92.2	90.2	0.90	97.3	2.0	2.3	7.5	86	2.8	0.124	229	IE2
IF2-200LB-2	37	50	67.5	2945	92.5	92.7	90.1	0.90	120.0	2.0	2.3	7.5	86	2.8	0.139	237	IE2
IF2-225M-2	45	60	81.8	2955	92.9	92.4	90.5	0.90	145.4	2.2	2.3	7.5	88	2.8	0.233	283	IE2
IF2-250M-2	55	75	99.6	2965	93.2	92.7	90.8	0.90	177.1	2.2	2.3	7.6	91	3.5	0.312	367	IE2
IF2-280S-2	75	100	135	2965	93.8	93.6	92.5	0.90	241.6	1.8	2.3	6.9	93	3.5	0.597	520	IE2
IF2-280M-2	90	125	161.5	2965	94.1	93.9	92.8	0.90	289.9	1.8	2.3	6.9	93	3.5	0.675	541	IE2
IF2-315S-2	110	150	195	2975	94.3	94.0	92.8	0.91	353	1.8	2.2	7.0	94	3.5	1.18	925	IE2
IF2-315M-2	132	175	233	2975	94.6	94.0	92.8	0.91	424	1.8	2.2	7.0	94	3.5	1.82	938	IE2
IF2-315LA-2	160	220	279	2975	94.8	94.1	92.9	0.92	514	1.8	2.2	7.1	94	3.5	2.08	1061	IE2
IF2-315LB-2	200	270	348	2975	95	94.9	94.5	0.92	642	1.8	2.2	7.1	94	3.5	2.47	1215	IE2
IF2-355MA-2	220	300	382	2975	95	94.9	94.5	0.92	706	1.6	2.2	7.1	102	3.5	2.9	1489	IE2
IF2-355MB-2	250	350	435	2975	95	94.9	94.5	0.92	803	1.6	2.2	7.1	102	3.5	4	1632	IE2
IF2-355LX-2	280	375	487	2975	95	94.9	94.5	0.92	899	1.6	2.2	7.2	102	3.5	4.4	1693	IE2
IF2-355LB-2	315	425	548	2975	95	94.9	94.5	0.92	1011	1.6	2.2	7.2	102	3.5	4.8	1856	IE2
IF3-315S-2	110	150	192	2975	95.2	94.9	93.7	0.91	353.1	1.8	2.3	7.1	94	3.5	1.18	971	IE3
IF3-315M-2	132	175	231	2975	95.4	94.8	93.6	0.91	423.7	1.8	2.3	7.1	94	3.5	1.82	1092	IE3
IF3-315LA-2	160	220	276	2975	95.6	94.9	93.7	0.92	513.6	1.8	2.3	7.2	94	3.5	2.08	1187	IE3
IF3-315LB-2	200	270	344	2975	95.8	95.7	95.3	0.92	642	1.8	2.2	7.2	94	3.5	2.47	1276	IE3
IF3-355MA-2	220	300	379	2975	95.8	95.7	95.3	0.92	706.2	1.6	2.2	7.2	102	3.5	2.9	1790	IE3
IF3-355MB-2	250	350	430	2975	95.8	95.7	95.3	0.92	802.5	1.6	2.2	7.2	102	3.5	4	1790	IE3
IF3-355LX-2	280	375	482	2975	95.8	95.7	95.3	0.92	898.8	1.6	2.2	7.2	102	3.5	4.4	2083	IE3
IF3-355LB-2	315	425	543	2975	95.8	95.7	95.3	0.92	1011	1.6	2.2	7.2	102	3.5	4.8	2153	IE3

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

SPECIFICATION

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 380V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
4 POLE 1500 RPM																	
IN63A-4	0.12	0.17	0.44	1310	57.0	56.0	52.0	0.72	0.875	2.2	2.1	4.4	52	1.8	0.00029	8	-
IN63B-4	0.18	0.25	0.62	1310	60.0	59.6	55.0	0.73	1.312	2.2	2.1	4.4	52	1.8	0.00035	9	-
IN71A-4	0.25	0.33	0.79	1330	65.0	62.1	56.6	0.74	1.795	2.2	2.1	5.2	55	1.8	0.00057	11	-
IN71B-4	0.37	0.5	1.12	1330	67.0	66.0	62.7	0.75	2.657	2.2	2.1	5.2	55	1.8	0.00071	12	-
IF2-80A-4	0.55	0.75	1.55	1385	71.0	69.5	65.3	0.76	3.79	2.3	2.4	5.2	58	1.8	0.002	15	IE2
IF2-80B-4	0.75	1	1.86	1385	79.6	77.1	73.2	0.77	5.17	2.3	2.3	6.4	61	1.8	0.002	18	IE2
IF2-90S-4	1.1	1.5	2.63	1385	81.4	79.5	75.7	0.78	7.58	2.3	2.3	6.6	64	1.8	0.002	20	IE2
IF2-90L-4	1.5	2	3.48	1385	82.8	81.6	78.4	0.79	10.34	2.3	2.3	6.7	64	1.8	0.003	23	IE2
IF2-100LA-4	2.2	3	4.90	1405	84.3	83.4	81.2	0.81	14.95	2.3	2.3	7.3	69	1.8	0.005	35	IE2
IF2-100LB-4	3	4	6.5	1405	85.5	85.0	82.9	0.82	20.4	2.3	2.3	7.5	69	1.8	0.007	40	IE2
IF2-112M-4	4	5.5	8.56	1430	86.6	86.2	84.6	0.82	26.7	2.3	2.3	7.5	70	1.8	0.010	44	IE2
IF2-132S-4	5.5	7.5	11.5	1435	87.7	87.5	86.2	0.83	36.6	2.0	2.3	7.5	76	1.8	0.021	59	IE2
IF2-132M-4	7.5	10	15.3	1435	88.7	88.6	87.5	0.84	49.9	2.0	2.3	7.3	76	1.8	0.030	72	IE2
IF2-160M-4	11	15	22.5	1455	89.8	89.7	89.2	0.84	72.2	2.0	2.3	7.4	78	2.8	0.075	111	IE2
IF2-160L-4	15	20	29.6	1455	90.6	90.5	87.9	0.85	98.5	2.0	2.3	7.5	78	2.8	0.092	126	IE2
IF2-180M-4	18.5	25	35.8	1465	91.2	91.7	91.0	0.86	120.6	2.0	2.3	7.6	80	2.8	0.139	162	IE2
IF2-180L-4	22	30	42.4	1465	91.6	91.9	91.3	0.86	143.4	2.1	2.3	7.7	80	2.8	0.158	176	IE2
IF2-200L-4	30	40	57.4	1465	92.3	92.8	91.3	0.86	195.6	2.1	2.3	7.1	80	2.8	0.262	237	IE2
IF2-225S-4	37	50	69.7	1470	92.7	92.8	90.9	0.87	240.4	2.1	2.3	7.3	81	2.8	0.406	270	IE2
IF2-225M-4	45	60	84.4	1470	93.1	93.1	91.3	0.87	292.3	2.2	2.3	7.3	81	2.8	0.469	296	IE2
IF2-250M-4	55	75	102.7	1475	93.5	93.8	91.5	0.87	356.1	2.2	2.3	7.3	82	3.5	0.66	398	IE2
IF2-280S-4	75	100	137.7	1480	94	94.2	92.4	0.88	483.9	2.2	2.3	6.8	83	3.5	1.12	510	IE2
IF2-280M-4	90	125	163.1	1480	94.2	94.5	92.7	0.89	580.7	2.2	2.3	6.9	83	3.5	1.46	557	IE2
IF2-315S-4	110	150	196	1480	94.5	94.7	94.2	0.90	710	2.1	2.2	6.9	91	3.5	3.01	898	IE2
IF2-315M-4	132	175	235	1480	94.7	94.9	94.3	0.90	852	2.1	2.2	6.9	91	3.5	3.93	1101	IE2
IF2-315LA-4	160	220	281	1480	94.9	95.2	94.7	0.91	1032	2.1	2.2	6.9	91	3.5	4.33	1180	IE2
IF2-315LB-4	200	270	351	1480	95.1	95.3	94.8	0.91	1291	2.1	2.2	6.9	91	3.5	5.12	1335	IE2
IF2-355MA-4	220	300	386	1485	95.1	95.5	94.8	0.91	1415	2.0	2.2	6.9	97	3.5	6.30	1658	IE2
IF2-355MB-4	250	350	439	1485	95.1	95.5	94.8	0.91	1608	2.0	2.2	6.9	97	3.5	7.13	1720	IE2
IF2-355LX-4	280	375	491	1485	95.1	95.5	94.8	0.91	1801	2.0	2.2	6.9	97	3.5	7.26	1750	IE2
IF2-355LB-4	315	425	553	1485	95.1	95.5	94.8	0.91	2026	2.0	2.2	6.9	97	3.5	7.38	1920	IE2
IF3-315S-4	110	150	194	1480	95.4	95.6	95.1	0.90	709.8	2.0	2.2	7.0	91	3.5	3.01	982	IE3
IF3-315M-4	132	175	233	1480	95.6	95.8	95.2	0.90	851.7	2.0	2.2	7.0	91	3.5	3.93	1171	IE3
IF3-315LA-4	160	220	281	1480	95.8	96.1	95.6	0.90	1032	2.0	2.2	7.1	91	3.5	4.33	1223	IE3
IF3-315LB-4	200	270	347	1480	96.0	96.2	95.7	0.91	1290	2.0	2.2	7.1	91	3.5	5.12	1334	IE3
IF3-355MA-4	220	300	382	1485	96.0	96.4	95.7	0.91	1414	2.0	2.2	7.1	97	3.5	6.30	1763	IE3
IF3-355MB-4	250	350	434	1485	96.0	96.4	95.7	0.91	1607	2.0	2.2	7.1	97	3.5	7.13	1806	IE3
IF3-355LX-4	280	375	486	1485	96.0	96.4	95.7	0.91	1800	2.0	2.2	7.1	97	3.5	7.26	1952	IE3
IF3-355LB-4	315	425	547	1485	96.0	96.4	95.7	0.91	2025	2.0	2.2	7.1	97	3.5	7.38	2016	IE3

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm²	Weight (Kg)	IE Class
	KW	HP	FLC 380V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
6 POLE 1000 RPM																	
IN71A-6	0.18	0.25	0.74	850	56.0	53.5	48.0	0.66	1.91	2.0	1.9	4	52	1.8	0.000423	11	-
IN71B-6	0.25	0.33	0.95	850	59.0	57.4	52.7	0.68	2.65	2.0	1.9	4	52	1.8	0.000468	12	-
IF2-80Ma-6	0.37	0.50	1.28	880	62.0	59.9	54.7	0.71	4.02	2.0	1.9	4.7	54	1.8	0.002	15	IE2
IF2-80Mb-6	0.55	0.75	1.76	880	65.0	63.6	58.9	0.73	5.97	2.0	1.9	4.7	54	1.8	0.002	16	IE2
IF2-90S-6	0.75	1	2.06	905	75.9	73.0	67.7	0.73	7.91	2.0	2.1	5.8	64	1.8	0.003	20	IE2
IF2-90L-6	1.1	1.5	2.89	905	78.1	76.2	72.8	0.74	11.61	2.0	2.1	5.9	64	1.8	0.004	25	IE2
IF2-100LA-6	1.5	2	3.81	915	79.8	78.4	75.1	0.75	15.66	2.0	2.1	5.9	68	1.8	0.007	30	IE2
IF2-112M-6	2.2	3	5.45	930	81.8	80.4	77.4	0.75	22.6	2.0	2.1	6.2	72	1.8	0.014	40	IE2
IF2-132S-6	3	4	7.30	955	83.3	82.5	80.2	0.75	30	2.0	2.1	6.4	76	1.8	0.026	49	IE2
IF2-132MA-6	4	5.5	9.58	955	84.6	84.2	82.4	0.75	40	2.0	2.1	6.6	76	1.8	0.036	62	IE2
IF2-132MB-6	5.5	7.5	12.79	955	86	85.9	84.7	0.76	55	2.0	2.1	6.8	76	1.8	0.045	78	IE2
IF2-160M-6	7.5	10	16.54	965	87.2	87.1	84.3	0.79	74.22	2.0	2.1	6.8	80	2.8	0.083	99	IE2
IF2-160L-6	11	15	23.55	965	88.7	88.6	85.0	0.80	108.9	2.0	2.1	6.9	80	2.8	0.116	124	IE2
IF2-180L-6	15	20	31.0	965	89.7	89.3	86.7	0.82	148.4	2.0	2.1	7.3	79	2.8	0.207	169	IE2
IF2-200LA-6	18.5	25	37.9	975	90.4	90.5	88.2	0.82	181.2	2.0	2.1	7.2	79	2.8	0.315	213	IE2
IF2-200LB-6	22	30	44.3	975	90.9	90.9	88.5	0.83	215.5	2.0	2.1	7.3	79	2.8	0.36	219	IE2
IF2-225M-6	30	40	60.6	975	91.7	91.7	86.5	0.82	293.8	2.0	2.1	6.8	80	2.8	0.547	293	IE2
IF2-250M-6	37	50	71.7	975	92.2	92.2	88.1	0.85	362.4	2.0	2.1	7.0	82	3.5	0.834	367	IE2
IF2-280S-6	45	60	84.8	975	92.7	92.6	90.2	0.87	440.8	2.0	2.0	7.2	84	3.5	1.39	446	IE2
IF2-280M-6	55	75	103.2	975	93.1	93.1	92.4	0.87	538.7	2.0	2.0	7.2	84	3.5	1.65	506	IE2
IF2-315S-6	75	100	141	980	93.7	93.6	92.3	0.86	731	2.0	2.0	6.5	88	3.5	3.98	836	IE2
IF2-315M-6	90	125	171	980	94	94.0	92.6	0.85	877	2.0	2.0	6.6	88	3.5	4.65	918	IE2
IF2-315LA-6	110	150	206	980	94.3	94.3	92.9	0.86	1072	2.0	2.0	6.6	88	3.5	5.18	1020	IE2
IF2-315LB-6	132	175	244	980	94.6	94.6	93.1	0.87	1286	2.0	2.0	6.6	88	3.5	6.05	1250	IE2
IF2-355MA-6	160	220	291	985	94.8	94.8	93.5	0.88	1551	2.0	2.0	6.7	89	3.5	8.53	1550	IE2
IF2-355MC-6	200	270	363	985	95	95.0	93.8	0.88	1939	2.0	2.0	6.8	89	3.5	9.26	1749	IE2
IF2-355LA-6	220	300	400	985	95	95.0	93.8	0.88	2133	2.0	2.0	6.8	89	3.5	11.37	1795	IE2
IF2-355LB-6	250	350	454	985	95	95.0	93.8	0.88	2424	2.0	2.0	6.8	89	3.5	13.00	1918	IE2
IF3-315S-6	75	100	141	980	94.6	94.5	93.2	0.85	730	2.0	2.0	6.6	88	3.5	3.98	924	IE3
IF3-315M-6	90	125	167	980	94.9	94.9	93.5	0.86	877	2.0	2.0	6.7	88	3.5	4.65	1040	IE3
IF3-315LA-6	110	150	204	980	95.1	95.1	93.7	0.86	1072	2.0	2.0	6.7	88	3.5	5.18	1134	IE3
IF3-315LB-6	132	175	241	980	95.4	95.4	93.9	0.87	1286	2.0	2.0	6.8	88	3.5	6.05	1239	IE3
IF3-355MA-6	160	220	292	985	95.6	95.6	94.3	0.87	1551	1.8	2.0	6.8	89	3.5	8.53	1712	IE3
IF3-355MC-6	200	270	360	985	95.8	95.8	94.6	0.88	1939	1.8	2.0	6.8	89	3.5	9.26	1843	IE3
IF3-355LA-6	220	300	396	985	95.8	95.8	94.6	0.88	2133	1.8	2.0	6.8	89	3.5	11.37	1971	IE3
IF3-355LB-6	250	350	450	985	95.8	95.8	94.6	0.88	2424	1.8	2.0	6.8	89	3.5	13.00	2048	IE3

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

SPECIFICATION

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 380V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
8 POLE 750 RPM																	
IF2-80A-8	0.18	0.25	0.86	640	51.0	50.4	44.8	0.62	2.69	1.9	1.8	3.3	52	1.8	0.002	15	IE2
IF2-80B-8	0.25	0.33	1.13	640	54.0	54.8	5.03	0.62	3.73	1.9	1.8	3.3	52	1.8	0.003	17	IE2
IF2-90S-8	0.37	0.5	1.46	665	62.0	60.2	54.3	0.62	5.31	1.9	1.8	4.0	56	1.8	0.005	21	IE2
IF2-90L-8	0.55	0.75	2.14	665	63.0	63.3	60.0	0.62	7.90	2.0	1.8	4.0	56	1.8	0.008	24	IE2
IF2-100La-8	0.75	1	2.36	675	71.0	70.8	67.2	0.68	10.61	2.0	1.8	4.0	59	1.8	0.010	33	IE2
IF2-100Lb-8	1.1	1.5	3.27	675	73.0	73.6	71.0	0.70	15.56	2.0	1.8	5.0	59	1.8	0.012	35	IE2
IF2-112M-8	1.5	2	4.34	685	75.0	74.9	71.9	0.70	20.91	2.0	1.8	5.0	61	1.8	0.016	50	IE2
IF2-132S-8	2.2	3	5.95	700	78.0	77.9	75.5	0.72	30.01	2.0	1.8	6.0	64	1.8	0.029	58	IE2
IF2-132M-8	3	4	7.8	700	79.0	79.7	78.4	0.74	40.93	2.0	1.8	6.0	64	1.8	0.037	65	IE2
IF2-160MA-8	4	5.5	10.14	715	81.0	81.5	80.4	0.74	53.43	2.0	1.9	6.0	68	2.8	0.070	89	IE2
IF2-160MB-8	5.5	7.5	13.42	715	83.0	83.6	82.8	0.75	73.46	2.0	2.0	6.0	68	2.8	0.088	109	IE2
IF2-160L-8	7.5	10	17.54	715	85.5	85.8	84.7	0.76	100.2	2.0	2.0	6.0	68	2.8	0.121	129	IE2
IF2-180L-8	11	15	24.8	725	87.5	87.6	86.5	0.77	144.9	2.0	2.0	6.6	70	2.8	0.203	173	IE2
IF2-200L-8	15	20	33.6	725	88.0	88.4	87.8	0.77	197.6	2.0	2.0	6.6	73	2.8	0.339	224	IE2
IF2-225S-8	18.5	25	40.6	725	90.0	90.1	89.3	0.77	243.7	2.0	1.9	6.6	73	2.8	0.491	260	IE2
IF2-225M-8	22	30	46.7	725	90.5	90.6	90.0	0.79	289.8	2.0	1.9	6.6	73	2.8	0.547	293	IE2
IF2-250M-8	30	40	62.6	730	91.0	91.3	90.8	0.80	392.5	2.0	1.9	6.6	75	3.5	0.834	381	IE2
IF2-280S-8	37	50	76.8	730	91.5	91.7	91.2	0.80	484.0	2.0	1.9	6.6	76	3.5	1.39	467	IE2
IF2-280M-8	45	60	92.9	730	92.0	92.2	91.8	0.80	588.7	2.0	1.8	6.6	76	3.5	1.65	504	IE2
IF2-315S-8	55	75	110	730	92.8	92.7	92.8	0.82	719	2.0	1.8	6.6	82	3.5	4.63	796	IE2
IF2-315M-8	75	100	149	730	93.0	93.0	93.1	0.82	981	2.0	1.8	6.6	82	3.5	6.05	979	IE2
IF2-315LA-8	90	125	175	730	93.8	93.8	93.1	0.83	1177	2.0	1.8	6.6	82	3.5	6.69	1040	IE2
IF2-315LB-8	110	150	214	730	94.0	93.8	92.8	0.83	1439	2.0	1.8	6.4	82	3.5	7.62	1230	IE2
IF2-355MA-8	132	175	257	735	93.7	93.5	93.5	0.83	1715	2.0	1.8	6.4	90	3.5	8.53	1530	IE2
IF2-355MB-8	160	220	310	735	94.2	94.1	93.2	0.83	2079	2.0	1.8	6.4	90	3.5	9.26	1632	IE2
IF2-355LB-8	200	270	382	735	94.5	94.4	93.7	0.84	2598	2.0	1.8	6.4	90	3.5	10.81	1918	IE2

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 400V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
2 POLE 3000 RPM																	
IF2-80A-2	0.75	1	1.71	2840	77.4	76.7	74.4	0.82	2.52	2.3	2.3	6.8	64	1.8	0.001	15	IE2
IF2-80B-2	1.1	1.5	2.4	2840	79.6	79.7	77.7	0.83	3.7	2.3	2.3	7.1	64	1.8	0.001	17	IE2
IF2-90S-2	1.5	2	3.17	2840	81.3	80.0	76.9	0.84	5.04	2.3	2.3	7.3	69	1.8	0.001	20	IE2
IF2-90L-2	2.2	3	4.49	2840	83.2	82.9	81.2	0.85	7.4	2.3	2.3	7.6	69	1.8	0.001	31	IE2
IF2-100L-2	3	4	5.88	2860	84.6	83.7	81.2	0.87	10.02	2.2	2.3	7.8	76	1.8	0.003	33	IE2
IF2-112M-2	4	5.5	7.65	2880	85.8	85.3	83.1	0.88	13.26	2.2	2.3	8.1	79	1.8	0.006	37	IE2
IF2-132SA-2	5.5	7.5	10.4	2900	87	85.9	83.6	0.88	18.11	2.2	2.3	8.2	81	1.8	0.011	57	IE2
IF2-132SB-2	7.5	10	13.8	2900	88.1	87.5	85.8	0.89	24.7	2.2	2.3	7.8	81	1.8	0.013	66	IE2
IF2-160MA-2	11	15	20.0	2930	89.4	89.3	87.5	0.89	35.85	2.2	2.3	7.9	83	2.8	0.038	99	IE2
IF2-160MB-2	15	20	26.9	2930	90.3	90.3	89.2	0.89	48.9	2.2	2.3	7.9	83	2.8	0.045	110	IE2
IF2-160L-2	18.5	25	33.0	2930	90.9	91.3	90.4	0.89	60.3	2.2	2.3	8.0	83	2.8	0.055	140	IE2
IF2-180M-2	22	30	39.1	2940	91.3	91.1	89.7	0.89	71.5	2.2	2.3	8.1	85	2.8	0.075	160	IE2
IF2-200LA-2	30	40	52.9	2950	92	92.2	90.2	0.89	97	2.0	2.3	7.5	86	2.8	0.124	229	IE2
IF2-200LB-2	37	50	64.9	2950	92.5	92.7	90.1	0.89	119.8	2.0	2.3	7.5	86	2.8	0.139	237	IE2
IF2-225M-2	45	60	78.6	2960	92.9	92.4	90.5	0.89	145.2	2.2	2.3	7.5	88	2.8	0.233	283	IE2
IF2-250M-2	55	75	95.7	2970	93.2	92.7	90.8	0.89	176.8	2.2	2.3	7.6	91	3.5	0.312	367	IE2
IF2-280S-2	75	100	130	2970	93.8	93.6	92.5	0.89	241.2	1.8	2.3	6.9	93	3.5	0.597	520	IE2
IF2-280M-2	90	125	155	2970	94.1	93.9	92.8	0.89	289.4	1.8	2.3	6.9	93	3.5	0.675	541	IE2
IF2-315S-2	110	150	187	2980	94.3	94.0	92.8	0.90	352.5	1.8	2.2	7.0	94	3.5	1.18	925	IE2
IF2-315M-2	132	175	224	2980	94.6	94.0	92.8	0.90	423	1.8	2.2	7.0	94	3.5	1.82	938	IE2
IF2-315LA-2	160	220	268	2980	94.8	94.1	92.9	0.91	512.8	1.8	2.2	7.1	94	3.5	2.08	1061	IE2
IF2-315LB-2	200	270	334	2980	95	94.9	94.5	0.91	640.9	1.8	2.2	7.1	94	3.5	2.47	1215	IE2
IF2-355MA-2	220	300	367	2980	95	94.9	94.5	0.91	705	1.6	2.2	7.1	102	3.5	2.9	1489	IE2
IF2-355MB-2	250	350	417	2980	95	94.9	94.5	0.91	801	1.6	2.2	7.1	102	3.5	4	1632	IE2
IF2-355LX-2	280	375	468	2980	95	94.9	94.5	0.91	897	1.6	2.2	7.2	102	3.5	4.4	1693	IE2
IF2-355LB-2	315	425	526	2980	95	94.9	94.5	0.91	1009	1.6	2.2	7.2	102	3.5	4.8	1856	IE2
IF3-315S-2	110	150	185	2980	95.2	94.9	93.7	0.90	352.5	1.8	2.3	7.1	94	3.5	1.18	971	IE3
IF3-315M-2	132	175	222	2980	95.4	94.8	93.6	0.90	423	1.8	2.3	7.1	94	3.5	1.82	1092	IE3
IF3-315LA-2	160	220	265	2980	95.6	94.9	93.7	0.91	512.8	1.8	2.3	7.2	94	3.5	2.08	1187	IE3
IF3-315LB-2	200	270	331	2980	95.8	95.7	95.3	0.91	640.9	1.8	2.2	7.2	94	3.5	2.47	1276	IE3
IF3-355MA-2	220	300	364	2980	95.8	95.7	95.3	0.91	705	1.6	2.2	7.2	102	3.5	2.9	1790	IE3
IF3-355MB-2	250	350	414	2980	95.8	95.7	95.3	0.91	801	1.6	2.2	7.2	102	3.5	4	1790	IE3
IF3-355LX-2	280	375	464	2980	95.8	95.7	95.3	0.91	897	1.6	2.2	7.2	102	3.5	4.4	2083	IE3
IF3-355LB-2	315	425	522	2980	95.8	95.7	95.3	0.91	1009	1.6	2.2	7.2	102	3.5	4.8	2153	IE3

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

SPECIFICATION

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 400V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
4 POLE 1500 RPM																	
IF2-80A-4	0.55	0.75	1.49	1390	71.0	69.5	65.3	0.75	3.778	2.3	2.4	5.2	58	1.8	0.002	15	IE2
IF2-80B-4	0.75	1	1.79	1390	79.6	77.1	73.2	0.76	5.15	2.3	2.3	6.4	61	1.8	0.002	18	IE2
IF2-90S-4	1.1	1.5	2.53	1390	81.4	79.5	75.7	0.77	7.56	2.3	2.3	6.6	64	1.8	0.002	20	IE2
IF2-90L-4	1.5	2	3.35	1390	82.8	81.6	78.4	0.78	10.31	2.3	2.3	6.7	64	1.8	0.003	23	IE2
IF2-100LA-4	2.2	3	4.71	1410	84.3	83.4	81.2	0.80	14.90	2.3	2.3	7.3	69	1.8	0.005	35	IE2
IF2-100LB-4	3	4	6.25	1410	85.5	85.0	82.9	0.81	20.32	2.3	2.3	7.5	69	1.8	0.007	40	IE2
IF2-112M-4	4	5.5	8.23	1435	86.6	86.2	84.6	0.81	26.62	2.3	2.3	7.5	70	1.8	0.010	44	IE2
IF2-132S-4	5.5	7.5	11.0	1440	87.7	87.5	86.2	0.82	36.48	2.0	2.3	7.5	76	1.8	0.021	59	IE2
IF2-132M-4	7.5	10	14.7	1440	88.7	88.6	87.5	0.83	49.74	2.0	2.3	7.3	76	1.8	0.030	72	IE2
IF2-160M-4	11	15	21.3	1460	89.8	89.7	89.2	0.83	71.95	2.0	2.3	7.4	78	2.8	0.075	111	IE2
IF2-160L-4	15	20	28.4	1460	90.6	90.5	87.9	0.84	98.12	2.0	2.3	7.5	78	2.8	0.092	126	IE2
IF2-180M-4	18.5	25	34.4	1470	91.2	91.7	91.0	0.85	120.2	2.0	2.3	7.6	80	2.8	0.139	162	IE2
IF2-180L-4	22	30	40.8	1470	91.6	91.9	91.3	0.85	142.9	2.1	2.3	7.7	80	2.8	0.158	176	IE2
IF2-200L-4	30	40	55.2	1470	92.3	92.8	91.3	0.85	194.9	2.1	2.3	7.1	80	2.8	0.262	237	IE2
IF2-225S-4	37	50	67	1475	92.7	92.8	90.9	0.86	239.5	2.1	2.3	7.3	81	2.8	0.406	270	IE2
IF2-225M-4	45	60	81.1	1475	93.1	93.1	91.3	0.86	291.3	2.2	2.3	7.3	81	2.8	0.469	296	IE2
IF2-250M-4	55	75	98.7	1480	93.5	93.8	91.5	0.86	354.8	2.2	2.3	7.3	82	3.5	0.66	398	IE2
IF2-280S-4	75	100	132	1485	94	94.2	92.4	0.87	482.3	2.2	2.3	6.8	83	3.5	1.12	510	IE2
IF2-280M-4	90	125	157	1485	94.2	94.5	92.7	0.88	578.8	2.2	2.3	6.9	83	3.5	1.46	557	IE2
IF2-315S-4	110	150	189	1485	94.5	94.7	94.2	0.89	707.4	2.1	2.2	6.9	91	3.5	3.01	898	IE2
IF2-315M-4	132	175	226	1485	94.7	94.9	94.3	0.89	848.9	2.1	2.2	6.9	91	3.5	3.93	1101	IE2
IF2-315LA-4	160	220	270	1485	94.9	95.2	94.7	0.90	1029	2.1	2.2	6.9	91	3.5	4.33	1180	IE2
IF2-315LB-4	200	270	337	1485	95.1	95.3	94.8	0.90	1286	2.1	2.2	6.9	91	3.5	5.12	1335	IE2
IF2-355MA-4	220	300	371	1490	95.1	95.5	94.8	0.90	1410	2.0	2.2	6.9	97	3.5	6.30	1658	IE2
IF2-355MB-4	250	350	422	1490	95.1	95.5	94.8	0.90	1602	2.0	2.2	6.9	97	3.5	7.13	1720	IE2
IF2-355LX-4	280	375	472	1490	95.1	95.5	94.8	0.90	1795	2.0	2.2	6.9	97	3.5	7.26	1750	IE2
IF2-355LB-4	315	425	531	1490	95.1	95.5	94.8	0.90	2019	2.0	2.2	6.9	97	3.5	7.38	1920	IE2
IF3-315S-4	110	150	187	1485	95.4	95.6	95.1	0.89	707.4	2.0	2.2	7.0	91	3.5	3.01	982	IE3
IF3-315M-4	132	175	224	1485	95.6	95.8	95.2	0.89	848.9	2.0	2.2	7.0	91	3.5	3.93	1171	IE3
IF3-315LA-4	160	220	271	1485	95.8	96.1	95.6	0.89	1029	2.0	2.2	7.1	91	3.5	4.33	1223	IE3
IF3-315LB-4	200	270	334	1485	96.0	96.2	95.7	0.90	1286	2.0	2.2	7.1	91	3.5	5.12	1334	IE3
IF3-355MA-4	220	300	368	1490	96.0	96.4	95.7	0.90	1410	2.0	2.2	7.1	97	3.5	6.30	1763	IE3
IF3-355MB-4	250	350	418	1490	96.0	96.4	95.7	0.90	1602	2.0	2.2	7.1	97	3.5	7.13	1806	IE3
IF3-355LX-4	280	375	468	1490	96.0	96.4	95.7	0.90	1795	2.0	2.2	7.1	97	3.5	7.26	1952	IE3
IF3-355LB-4	315	425	526	1490	96.0	96.4	95.7	0.90	2019	2.0	2.2	7.1	97	3.5	7.38	2016	IE3

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 400V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
6 POLE 1000 RPM																	
IF2-80Ma-6	0.37	0.50	1.23	885	62.0	59.9	54.7	0.70	3.99	2.0	1.9	4.7	54	1.8	0.002	15	IE2
IF2-80Mb-6	0.55	0.75	1.70	885	65.0	63.6	58.9	0.72	5.94	2.0	1.9	4.7	54	1.8	0.002	16	IE2
IF2-90S-6	0.75	1	1.98	910	75.9	73.0	67.7	0.72	7.87	2.0	2.1	5.8	64	1.8	0.003	20	IE2
IF2-90L-6	1.1	1.5	2.78	910	78.1	76.2	72.8	0.73	11.54	2.0	2.1	5.9	64	1.8	0.004	25	IE2
IF2-100LA-6	1.5	2	3.67	920	79.8	78.4	75.1	0.74	15.57	2.0	2.1	5.9	68	1.8	0.007	30	IE2
IF2-112M-6	2.2	3	5.25	935	81.8	80.4	77.4	0.74	22.47	2.0	2.1	6.2	72	1.8	0.014	40	IE2
IF2-132S-6	3	4	7.02	960	83.3	82.5	80.2	0.74	29.84	2.0	2.1	6.4	76	1.8	0.026	49	IE2
IF2-132MA-6	4	5.5	9.22	960	84.6	84.2	82.4	0.74	39.79	2.0	2.1	6.6	76	1.8	0.036	62	IE2
IF2-132MB-6	5.5	7.5	12.3	960	86	85.9	84.7	0.75	54.71	2.0	2.1	6.8	76	1.8	0.045	78	IE2
IF2-160M-6	7.5	10	15.9	970	87.2	87.1	84.3	0.78	73.84	2.0	2.1	6.8	80	2.8	0.083	99	IE2
IF2-160L-6	11	15	22.7	970	88.7	88.6	85.0	0.79	108.3	2.0	2.1	6.9	80	2.8	0.116	124	IE2
IF2-180L-6	15	20	29.8	970	89.7	89.3	86.7	0.81	147.7	2.0	2.1	7.3	79	2.8	0.207	169	IE2
IF2-200LA-6	18.5	25	36.5	980	90.4	90.5	88.2	0.81	180.3	2.0	2.1	7.2	79	2.8	0.315	213	IE2
IF2-200LB-6	22	30	42.6	980	90.9	90.9	88.5	0.82	214.4	2.0	2.1	7.3	79	2.8	0.36	219	IE2
IF2-225M-6	30	40	58.3	980	91.7	91.7	86.5	0.81	292.3	2.0	2.1	6.8	80	2.8	0.547	293	IE2
IF2-250M-6	37	50	69.0	980	92.2	92.2	88.1	0.84	360.5	2.0	2.1	7.0	82	3.5	0.834	367	IE2
IF2-280S-6	45	60	81.5	980	92.7	92.6	90.2	0.86	438.5	2.0	2.0	7.2	84	3.5	1.39	446	IE2
IF2-280M-6	55	75	99.2	980	93.1	93.1	92.4	0.86	535.9	2.0	2.0	7.2	84	3.5	1.65	506	IE2
IF2-315S-6	75	100	136	985	93.7	93.6	92.3	0.85	727	2.0	2.0	6.5	88	3.5	3.98	836	IE2
IF2-315M-6	90	125	165	985	94.0	94.0	92.6	0.84	872.6	2.0	2.0	6.6	88	3.5	4.65	918	IE2
IF2-315LA-6	110	150	198	985	94.3	94.3	92.9	0.85	1066	2.0	2.0	6.6	88	3.5	5.18	1020	IE2
IF2-315LB-6	132	175	234	985	94.6	94.6	93.1	0.86	1280	2.0	2.0	6.6	88	3.5	6.05	1250	IE2
IF2-355MA-6	160	220	280	990	94.8	94.8	93.5	0.87	1543	2.0	2.0	6.7	89	3.5	8.53	1550	IE2
IF2-355MC-6	200	270	349	990	95.0	95.0	93.8	0.87	1929	2.0	2.0	6.8	89	3.5	9.26	1749	IE2
IF2-355LA-6	220	300	384	990	95.0	95.0	93.8	0.87	2122	2.0	2.0	6.8	89	3.5	11.37	1795	IE2
IF2-355LB-6	250	350	437	990	95.0	95.0	93.8	0.87	2412	2.0	2.0	6.8	89	3.5	13.00	1918	IE2
IF3-315S-6	75	100	136	985	94.6	94.5	93.2	0.84	727	2.0	2.0	6.6	88	3.5	3.98	924	IE3
IF3-315M-6	90	125	161	985	94.9	94.9	93.5	0.85	872.6	2.0	2.0	6.7	88	3.5	4.65	1040	IE3
IF3-315LA-6	110	150	196	985	95.1	95.1	93.7	0.85	1066	2.0	2.0	6.7	88	3.5	5.18	1134	IE3
IF3-315LB-6	132	175	232	985	95.4	95.4	93.9	0.86	1280	2.0	2.0	6.8	88	3.5	6.05	1239	IE3
IF3-355MA-6	160	220	281	990	95.6	95.6	94.3	0.86	1543	1.8	2.0	6.8	89	3.5	8.53	1712	IE3
IF3-355MC-6	200	270	346	990	95.8	95.8	94.6	0.87	1929	1.8	2.0	6.8	89	3.5	9.26	1843	IE3
IF3-355LA-6	220	300	381	990	95.8	95.8	94.6	0.87	2122	1.8	2.0	6.8	89	3.5	11.37	1971	IE3
IF3-355LB-6	250	350	433	990	95.8	95.8	94.6	0.87	2412	1.8	2.0	6.8	89	3.5	13	2048	IE3

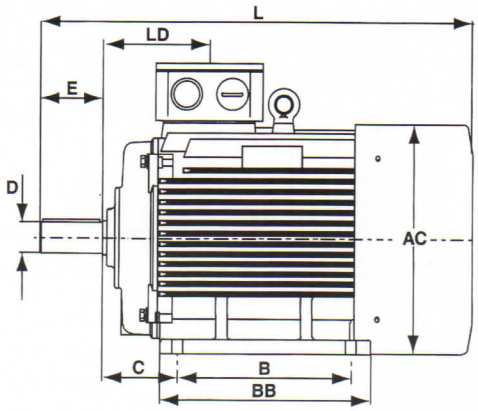
- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

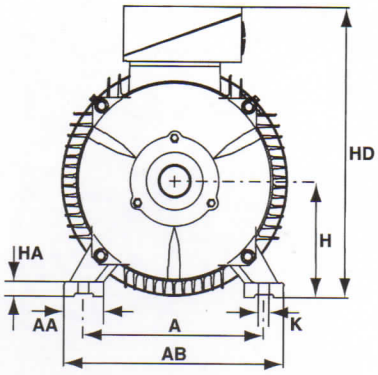
SPECIFICATION

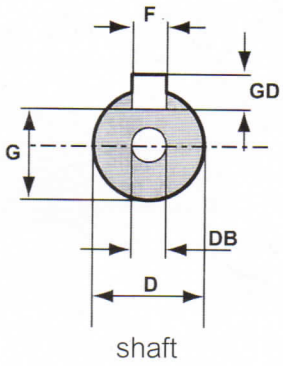
Frame Size	Rated Output		Rated Current	Full Load Speed	Efficiency (%)			Power Factor (cosø)	Full load Torque (Nm)	DOL Starting Torque Ratio	Pull Out Torque Ratio	DOL Starting Current Ratio	Noise Level dB (A)	Vibration Limit	Moment of Inertia (J) WK in Kgm^2	Weight (Kg)	IE Class
	KW	HP	FLC 400V (A)	RPM	100% Load	75% Load	50% Load	FL	MN	MA/MN	MK/ MN	IA/IN		(mm/s)			
8 POLE 750 RPM																	
IF2-80A-8	0.18	0.25	0.84	645	51.0	50.4	44.8	0.61	2.67	1.9	1.8	3.3	52	1.8	0.002	15	IE2
IF2-80B-8	0.25	0.33	1.10	645	54.0	54.8	50.3	0.61	3.7	1.9	1.8	3.3	52	1.8	0.003	17	IE2
IF2-90S-8	0.37	0.5	1.41	670	62.0	60.2	54.3	0.61	5.27	1.9	1.8	4.0	56	1.8	0.005	21	IE2
IF2-90L-8	0.55	0.75	2.07	670	63.0	63.3	60.0	0.61	7.84	2.0	1.8	4.0	56	1.8	0.008	24	IE2
IF2-100La-8	0.75	1	2.28	680	71.0	70.8	67.2	0.67	10.53	2.0	1.8	4.0	59	1.8	0.010	33	IE2
IF2-100Lb-8	1.1	1.5	3.15	680	73.0	73.6	71.0	0.69	15.45	2.0	1.8	5.0	59	1.8	0.012	35	IE2
IF2-112M-8	1.5	2	4.18	690	75.0	74.9	71.9	0.69	20.76	2.0	1.8	5.0	61	1.8	0.016	50	IE2
IF2-132S-8	2.2	3	5.73	705	78.0	77.9	75.5	0.71	29.80	2.0	1.8	6.0	64	1.8	0.029	58	IE2
IF2-132M-8	3	4	7.51	705	79.0	79.7	78.4	0.73	40.64	2.0	1.8	6.0	64	1.8	0.037	65	IE2
IF2-160MA-8	4	5.5	9.76	720	81.0	81.5	80.4	0.73	53.06	2.0	1.9	6.0	68	2.8	0.070	89	IE2
IF2-160MB-8	5.5	7.5	12.93	720	83.0	83.6	82.8	0.74	72.95	2.0	2.0	6.0	68	2.8	0.088	109	IE2
IF2-160L-8	7.5	10	16.88	720	85.5	85.8	84.7	0.75	99.48	2.0	2.0	6.0	68	2.8	0.121	129	IE2
IF2-180L-8	11	15	23.9	730	87.5	87.6	86.5	0.76	143.9	2.0	2.0	6.6	70	2.8	0.203	173	IE2
IF2-200L-8	15	20	32.4	730	88.0	88.4	87.8	0.76	196.2	2.0	2.0	6.6	73	2.8	0.339	224	IE2
IF2-225S-8	18.5	25	39.0	730	90.0	90.1	89.3	0.76	242	2.0	1.9	6.6	73	2.8	0.491	260	IE2
IF2-225M-8	22	30	45.0	730	90.5	90.6	90.0	0.78	287.8	2.0	1.9	6.6	73	2.8	0.547	293	IE2
IF2-250M-8	30	40	60.2	735	91.0	91.3	90.8	0.79	389.8	2.0	1.9	6.6	75	3.5	0.834	381	IE2
IF2-280S-8	37	50	73.9	735	91.5	91.7	91.2	0.79	480.7	2.0	1.9	6.6	76	3.5	1.39	467	IE2
IF2-280M-8	45	60	89.4	735	92.0	92.2	91.8	0.79	584.7	2.0	1.8	6.6	76	3.5	1.65	504	IE2
IF2-315S-8	55	75	105	735	92.8	92.7	92.8	0.81	715	2.0	1.8	6.6	82	3.5	4.63	796	IE2
IF2-315M-8	75	100	143	735	93.0	93.0	93.1	0.81	974	2.0	1.8	6.6	82	3.5	6.05	979	IE2
IF2-315LA-8	90	125	169	735	93.8	93.8	93.1	0.82	1169	2.0	1.8	6.6	82	3.5	6.69	1040	IE2
IF2-315LB-8	110	150	206	735	94.0	93.8	92.8	0.82	1429	2.0	1.8	6.4	82	3.5	7.62	1230	IE2
IF2-355MA-8	132	175	248	740	93.7	93.5	93.5	0.82	1703	2.0	1.8	6.4	90	3.5	8.53	1530	IE2
IF2-355MB-8	160	220	298	740	94.2	94.1	93.2	0.82	2064	2.0	1.8	6.4	90	3.5	9.26	1632	IE2
IF2-355LB-8	200	270	368	740	94.5	94.4	93.7	0.83	2581	2.0	1.8	6.4	90	3.5	10.81	1918	IE2

- IE2 & IE3 efficiency class according to IEC 60034-30; 2008 , Grade 3 according to GB 18613-2012.
- Efficiency values are given according to IEC 60034-2-1; 2007.
- Please note these values are not comparable without knowing the testing method.
- The efficiency values are calculated according to indirect method, stray load losses (additional losses) determined from measuring.

B3 B6, B7, B8, V5, V6





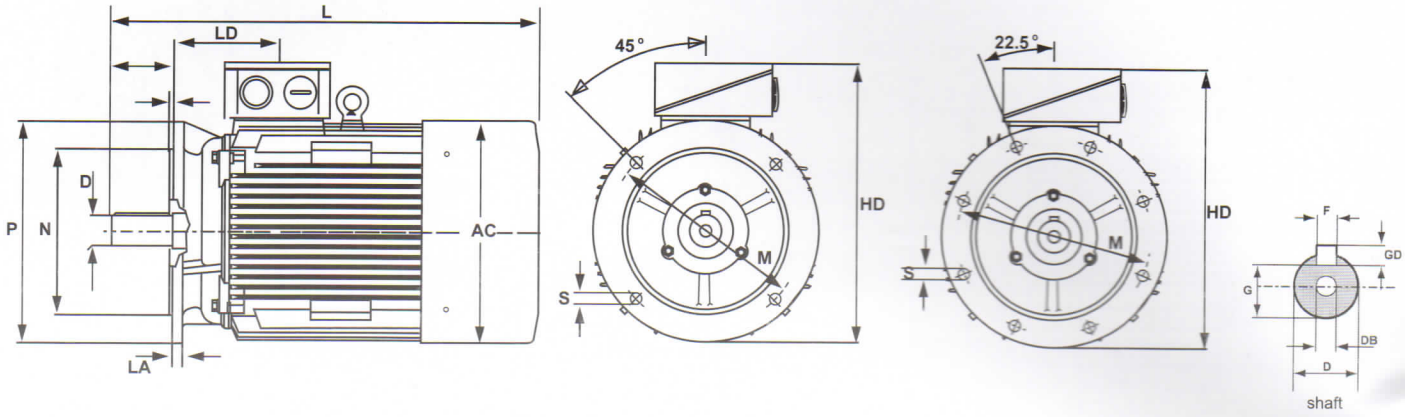


Frame Size	Poles	Mounting dimension (mm)					Shaft Dimension (mm)						Contour dimension (mm)							
		H	A	B	C	K	D	E	F	G	GD	GA	AA	AB	AC	BB	HA	HD	LD	L
63	2, 4	63	100	80	40	7	11 j6	23	4	8.5	4	12.5	30	135	130	130	8	160	57	225
71	2, 4, 6	71	112	90	45	7	14 j6	30	5	11	5	16	30	150	145	140	8	195	61	250
80	2,4,6,8	80	125	100	50	10	19 j6	40	6	15.5	6	21.5	34	165	175	130	10	214	72	295
90S		90	140	100	56	10	24 j6	50	8	20	7	27	36	180	195	140	12	250	75	315
90L		90	140	125	56	10	24 j6	50	8	20	7	27	36	180	195	165	12	250	75	340
100L		100	160	140	63	12	28 j6	60	8	24	7	31	40	205	215	180	14	270	85	385
112M		112	190	140	70	12	28 j6	60	8	24	7	31	45	230	240	180	15	300	90	400
132S		132	216	140	89	12	38 k6	80	10	33	8	41	55	265	275	190	18	345	100	470
132M		132	216	178	89	12	38 k6	80	10	33	8	41	55	265	275	230	18	345	100	510
160M		160	254	210	108	14.5	42 k6	110	12	37	8	45	65	320	330	260	20	420	146	615
160L		160	254	254	108	14.5	42 k6	110	12	37	8	45	65	320	330	305	20	420	146	670
180M		180	279	241	121	14.5	48 k6	110	14	42.5	9	51.5	70	355	380	315	22	455	171	700
180L		180	279	279	121	14.5	48 k6	110	14	42.5	9	51.5	70	355	380	355	22	455	171	740
200L		200	318	305	133	18.5	55 m6	110	16	49	10	59	70	395	410	375	25	505	203	770
225S	4, 8	225	356	286	149	18.5	60 m6	140	18	53	11	64	75	435	460	375	28	555	211	815
225M	2	225	356	311	149	18.5	55 m6	110	16	49	10	59	75	435	460	400	28	555	211	820
	4, 6, 8						60 m6	140	18	53	11	64								845
250M	2	250	406	349	168	24	60 m6	140	18	53	11	64	80	490	510	445	30	615	227	915
	4,6,8						65 m6	140	18	58	11	69								
280S	2	280	457	368	190	24	65 m6	140	18	58	11	69	85	550	580	490	35	680	216	975
	4, 6, 8						75 m6	140	20	67.5	12	79.5								
280M	2	280	457	419	190	24	65 m6	140	18	58	11	69	85	550	580	540	35	680	216	1025
	4, 6, 8						75 m6	140	20	67.5	12	79.5								
315S	2	315	508	406	216	28	65 m6	140	18	58	11	69	120	630	645	570	45	845	257	1143
	4,6,8						80 m6	170	22	71	14	85								1208
315M	2	315	508	457	216	28	65 m6	140	18	58	11	69	120	630	645	680	45	845	257	1253
	4, 6, 8						80 m6	170	22	71	14	85								1318
315L	2	315	508	508	216	28	65 m6	140	18	58	11	69	120	630	645	680	45	845	257	1253
	4, 6, 8						80 m6	170	22	71	14	85								1318
355M	2	355	610	560	254	28	75 m6	140	20	67.5	12	79.5	116	730	710	760	52	1010	284	1486
	4, 6, 8						100 m6	210	28	90	16	106								1556
355L	2	355	610	630	254	28	75 m6	140	20	67.5	12	79.5	116	730	710	760	52	1010	284	1486
	4, 6, 8						100 m6	210	28	90	16	106								1556

IF2 & IF3 Motors also use this table as referenced dimension.

DIMENSION

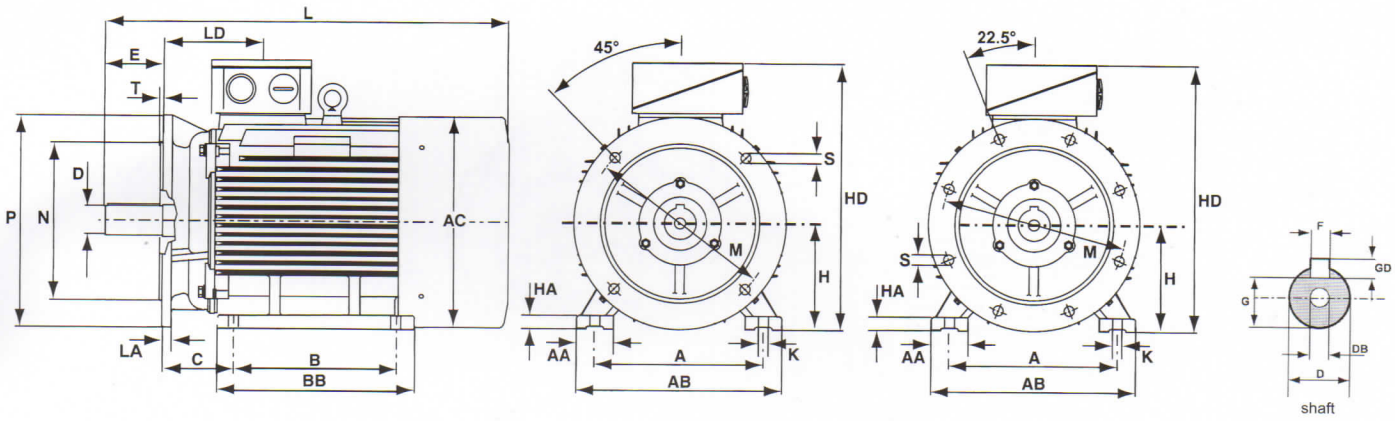
B5 V1, V3, FLANGE



Frame Size	Poles	Mounting dimension (mm)						Shaft Dimension (mm)						Contour dimension (mm)			
		M	N	P	S	LA	T	D	E	F	G	GD	GA	AC	HD	LD	L
63	2, 4	115	95	140	10	10	3	11 j6	23	4	8.5	4	12.5	130	167	57	225
71	2, 4, 6	130	110	160	10	10	3.5	14 j6	30	5	11	5	16	145	204	61	250
80	2, 4, 6, 8	165	130	200	12	12	3.5	19 j6	40	6	15.5	6	21.5	175	234	72	295
90S		165	130	200	12	12	3.5	24 j6	50	8	20	7	27	195	260	75	315
90L		165	130	200	12	12	3.5	24 j6	50	8	20	7	27	195	260	75	340
100L		215	180	250	14.5	14	4	28 j6	60	8	24	7	31	215	295	85	385
112M		215	180	250	14.5	14	4	28 j6	60	8	24	7	31	240	313	90	400
132S		265	230	300	14.5	14	4	38 k6	80	10	33	8	41	275	363	100	470
132M		265	230	300	14.5	14	4	38 k6	80	10	33	8	41	275	363	100	510
160M		300	250	350	18.5	15	5	42 k6	110	12	37	8	45	330	435	146	615
160L		300	250	350	18.5	15	5	42 k6	110	12	37	8	45	330	435	146	670
180M		300	250	350	18.5	17	5	48 k6	110	14	42.5	9	51.5	380	450	171	700
180L		300	250	350	18.5	17	5	48 k6	110	14	42.5	9	51.5	380	450	171	740
200L		350	300	400	18.5	20	5	55 m6	110	16	49	10	59	410	505	203	770
225S	4, 8	400	350	450	18.5	20	5	60 m6	140	18	53	11	64	460	555	211	815
225M	2	400	350	450	18.5	20	5	55 m6	110	16	49	10	59	460	555	211	820
	4, 6, 8							60 m6	140	18	53	11	64				845
250M	2	500	450	550	18.5	22	5	60 m6	140	18	53	11	64	510	640	227	915
	4, 6, 8							65 m6	140	18	58	11	69				
280S	2	500	450	550	18.5	22	5	65 m6	140	18	58	11	69	580	675	216	975
	4, 6, 8							75 m6	140	20	67.5	12	79.5				
280M	2	500	450	550	18.5	22	5	65 m6	140	18	58	11	69	580	675	216	1025
	4, 6, 8							75 m6	140	20	67.5	12	79.5				
315S	2	600	550	660	24	22	6	65 m6	140	18	58	11	69	645	860	257	1143
	4, 6, 8							80 m6	170	22	71	14	85				1208
315M	2	600	550	660	24	22	6	65 m6	140	18	58	11	69	645	860	257	1253
	4, 6, 8							80 m6	170	22	71	14	85				1318
315L	2	600	550	660	24	22	6	65 m6	140	18	58	11	69	645	860	257	1253
	4, 6, 8							80 m6	170	22	71	14	85				1318
355M	2	740	680	800	24	25	6	75 M6	140	20	67.5	12	79.5	710	1055	284	1486
	4, 6, 8							100 m6	210	28	90	16	106				1556
355L	2	740	680	800	24	25	6	75 M6	140	20	67.5	12	79.5	710	1055	284	1486
	4, 6, 8							100 m6	210	28	90	16	106				1556

IF2 & IF3 Motors also use this table as referenced dimension.

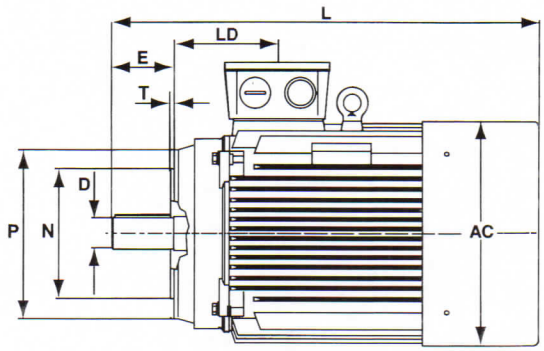
B3/B5 V15, V36 FOOT/FLANGE

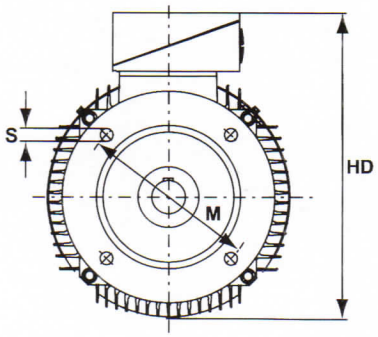


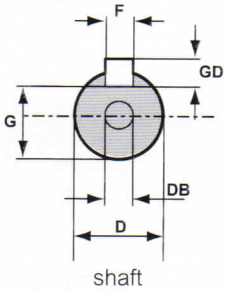
Frame Size	Poles	Mounting dimension (mm)											Shaft dimension (mm)						Contour dimension (mm)							
		H	A	B	C	K	M	N	P	S	LA	T	D	E	F	G	GD	GA	AA	AB	AC	BB	HA	HD	LD	L
63	2, 4	63	100	80	40	7	115	95	140	10	10	3	11 j6	23	4	8.5	4	12.5	30	135	130	130	8	160	57	225
71	2, 4, 6	71	112	90	45	7	130	110	160	10	10	3.5	14 j6	30	5	11	5	16	30	150	145	140	8	195	61	250
80	2, 4, 6, 8	80	125	100	50	10	165	130	200	12	12	3.5	19 j6	40	6	15.5	6	21.5	34	165	175	130	10	214	72	295
90S		90	140	100	56	10	165	130	200	12	12	3.5	24 j6	50	8	20	7	27	36	180	195	140	12	250	75	315
90L		90	140	125	56	10	165	130	200	12	12	3.5	24 j6	50	8	20	7	27	36	180	195	165	12	250	75	340
100L		100	160	140	63	12	215	180	250	14.5	14	4	28 j6	60	8	24	7	31	40	205	215	180	14	270	85	385
112M		112	190	140	70	12	215	180	250	14.5	14	4	28 j6	60	8	24	7	31	45	230	240	180	15	300	90	400
132S		132	216	140	89	12	265	230	300	14.5	14	4	38 k6	80	10	33	8	41	55	265	275	190	18	345	100	470
132M		132	216	178	89	12	265	230	300	14.5	14	4	38 k6	80	10	33	8	41	55	265	275	230	18	345	100	510
160M		160	254	210	108	14.5	300	250	350	18.5	15	5	42 k6	110	12	37	8	45	65	320	330	260	20	420	146	615
160L		160	254	254	108	14.5	300	250	350	18.5	15	5	42 k6	110	12	37	8	45	65	320	330	305	20	420	146	670
180M		180	279	241	121	14.5	300	250	350	18.5	17	5	48 k6	110	14	42.5	9	51.5	70	355	380	315	22	455	171	700
180L		180	279	279	121	14.5	300	250	350	18.5	17	5	48 k6	110	14	42.5	9	51.5	70	355	380	355	22	455	171	740
200L		200	318	305	133	18.5	350	300	400	18.5	20	5	55 m6	110	16	49	10	59	70	395	410	375	25	505	203	770
225S	4, 8	225	356	286	149	18.5	400	350	450	18.5	20	5	60 m6	140	18	53	11	64	75	435	460	375	28	555	211	815
225M	2	225	356	311	149	18.5	400	350	450	18.5	20	5	55 m6	110	16	49	10	59	75	435	460	400	28	555	211	820
	4, 6, 8												60 m6	140	18	53	11	64								845
250M	2	250	406	349	168	24	500	450	550	18.5	22	5	60 m6	140	18	53	11	64	80	490	510	445	30	615	227	915
	4, 6, 8												65 m6	140	18	58	11	69								
280S	2	280	457	368	190	24	500	450	550	18.5	22	5	65 m6	140	18	58	11	69	85	550	580	490	35	680	216	975
	4, 6, 8												75 m6	140	20	67.5	12	79.5								
280M	2	280	457	419	190	24	500	450	550	18.5	22	5	65 m6	140	18	58	11	69	85	550	580	540	35	680	216	1025
	4, 6, 8												75 m6	140	20	67.5	12	79.5								
315S	2	315	508	406	216	28	600	550	660	24	22	6	65 m6	140	18	58	11	69	120	630	645	570	45	845	257	1143
	4, 6, 8												80 m6	170	22	71	14	85								1208
315M	2	315	508	457	216	28	600	550	660	24	22	6	65 m6	140	18	58	11	69	120	630	645	680	45	845	257	1253
	4, 6, 8												80 m6	170	22	71	14	85								1318
315L	2	315	508	508	216	28	600	550	660	24	22	6	65 m6	140	18	58	11	69	120	630	645	680	45	845	257	1253
	4, 6, 8												80 m6	170	22	71	14	85								1318
355M	2	355	610	560	254	28	740	680	800	24	25	6	75 m6	140	20	67.5	12	79.5	116	730	710	760	52	1010	284	1486
	4, 6, 8												100 m6	210	28	90	16	106								1556
355L	2	355	610	630	254	28	740	680	800	24	25	6	75 m6	140	20	67.5	12	79.5	116	730	710	760	52	1010	284	1486
	4, 6, 8												100 m6	210	28	90	16	106								1556

IF2 & IF3 Motors also use this table as referenced dimension.

M B14 V18, V19, SMALL FLANGE



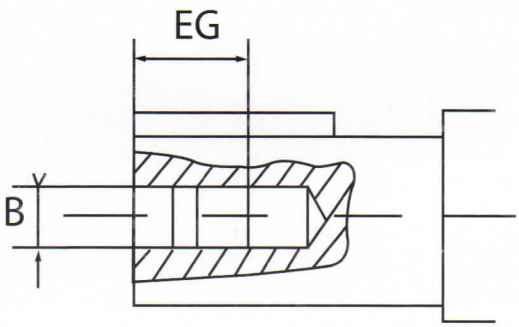




Frame Size	Poles	Mounting dimension (mm)					Shaft dimension (mm)						Contour dimension (mm)			
		M	N	P	S	T	D	E	F	G	GD	GA	AC	HD	LD	L
63	2, 4	75	60	90	M5	2.5	11 j6	23	4	8.5	4	12.5	130	160	57	225
71	2, 4, 6	85	70	105	M6	2.5	14 j6	30	5	11	5	16	145	195	61	250
80		100	80	120	M6	3	19 j6	40	6	15.5	6	21.5	175	214	72	295
90S		115	95	140	M8	3	24 j6	50	8	20	7	27	195	250	75	315
90L		115	95	140	M8	3	24 j6	50	8	20	7	27	195	250	75	340
100L	2, 4, 6, 8	130	110	160	M8	3.5	28 j6	60	8	24	7	31	215	270	85	385
112M		130	110	160	M8	3.5	28 j6	60	8	24	7	31	240	300	90	400
132S		165	130	200	M10	3.5	38 k6	80	10	33	8	41	275	345	100	470
132M		165	130	200	M10	3.5	38 k6	80	10	33	8	41	275	345	100	510

✦ *TAPPED HOLES SIZE FOR DRIVE-END SHAFT*

Frame size	B x EG
63	M3 x 9
71	M4 x 12.5
80	M6 x 16
90	M8 x 19
100	M10 x 22
112	
132	M12 x 28
160	M16 x 36
180	
200	M20 x 39
225	M20 x 42
250	
280	
315	
355	M24 x 50



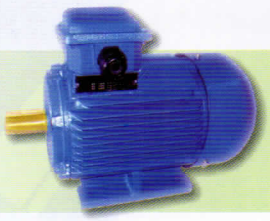
SPECIAL MOTOR

INLINE MOTOR



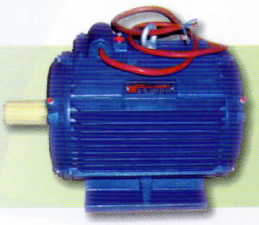
มอเตอร์ไฟฟ้าติด Forced Fan

สำหรับใช้งานกับอินเวอร์ทเตอร์
Forced Fan ระดับการป้องกัน IP54 380V สำหรับมอเตอร์ขนาด 0.5 ถึง 420 แรงม้า
มี Terminal Box แยกต่างหาก



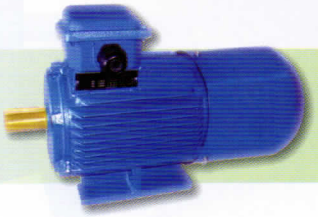
มอเตอร์ไฟฟ้า 2 สปีด หรือ 3 สปีด

แรงดันไฟมาตรฐาน 380-420 VAC 3Phase 50Hz
ชนิดหุ้มมิด IP55 Class F
2/8 โพล, 4/8 โพล, 6/8 โพล, 4/6 โพล, 2/4 โพล, 2/4/8 โพล (3 สปีด)
มีทั้งชนิดขาตั้ง หน้าแปลน B5 และ B14



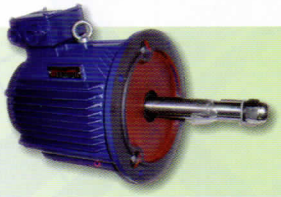
มอเตอร์ไฟฟ้าสำหรับงานอุณหภูมิสูง

Class H Motor
เหมาะสำหรับใช้งานกับเตาอุตสาหกรรม
ที่มีอุณหภูมิสูง เช่น เตาอบไม้ยางพารา เตาอบพืชผลการเกษตร เป็นต้น
มีให้เลือกทั้งแบบสปีดเดียวและสองสปีด



เบรคมอเตอร์

มีให้เลือกทั้งชนิด A.C. Brake และ D.C. Brake
มีให้เลือกทั้งชนิดจ่ายไฟแล้วเบรค หรือ จ่ายไฟแล้วหยุด
แรงดันไฟ 220-240/380-420 VAC 3Phase 50Hz



คูลลิ่งเทาเวอร์มอเตอร์

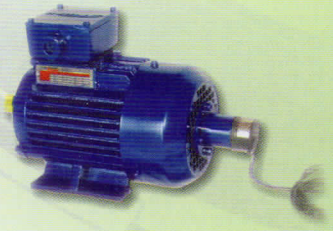
ใช้งานกลางแจ้งได้เป็นอย่างดี
เสื้อเป็นเหล็กหล่อ ทนทานต่องานหนัก และใช้งานได้นาน
มี Dimension หลากหลาย ตามความต้องการของผู้ใช้งาน
เคลือบสีอีพ็อกซี่ ทนต่อการกัดกร่อนของสารเคมี ชีลสองชั้น



มอเตอร์เขย่า Vibrating Motor

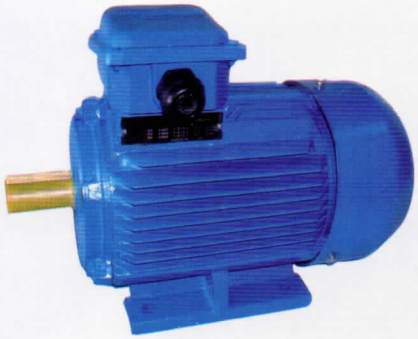
เป็นมอเตอร์กันระเบิดในตัว

อื่นๆ อีกมากมาย อาทิเช่น



มอเตอร์ติด Encoder สำหรับวัดความเร็วรอบ
มอเตอร์ IP65 กันฝุ่นได้ดีเป็นพิเศษ
มอเตอร์ IP56 กันน้ำได้ดีเป็นพิเศษ
High Output Design แรงม้ามากขึ้น ในขนาดมอเตอร์เท่าเดิม
Special Voltage 200V 500V 3300V
มอเตอร์ที่ใช้ในอุณหภูมิเย็นจัด ลบ 40 องศา

General Specification



FOOT MOUNTED



FLANGE MOUNTED



FACE MOUNTED

Special offer
Thermistor attached (frame 160 up)

- Motor made to IEC standards
- Induction Motor, Totally Enclosed Fan cool (TEFC), Squirrel Cage
- High Efficiency Motors (IE2) & Premium Efficiency Motors (IE3)
- Voltage Specification at frequency 50Hz
  3 KW And below, 220-240/380-420V
  4 KW And above, 380-420/660-690V
- Voltage Specification at frequency 60Hz
  3 KW And below 240-280/440-480V
  4 KW And above 440-480V (delta connecting only)
- S1-Continuous duty
- Degree of protection IP55 (better protected from dust and water)
- Class F insulation with temp. rise class B
- Supply with Cable Gland
- Bearing "SKF" Brand or equal standard
- 18 Months Warranty
- ISO9001, ISO14001 Certified

INLINE MOTOR

1/8 HP to 420 HP

For General Purpose Application

Version 2559