

Y-IE2/IE3-160~355

GREY CAST IRON

400 / 690V 50HZ

FROM 11KW TO 315KW

INSULATION CLASS F

TEMPERATURE RISE 80K

PROTECTION DEGREE IP55

AMBIENT TEMPERATURE -20~+40°C

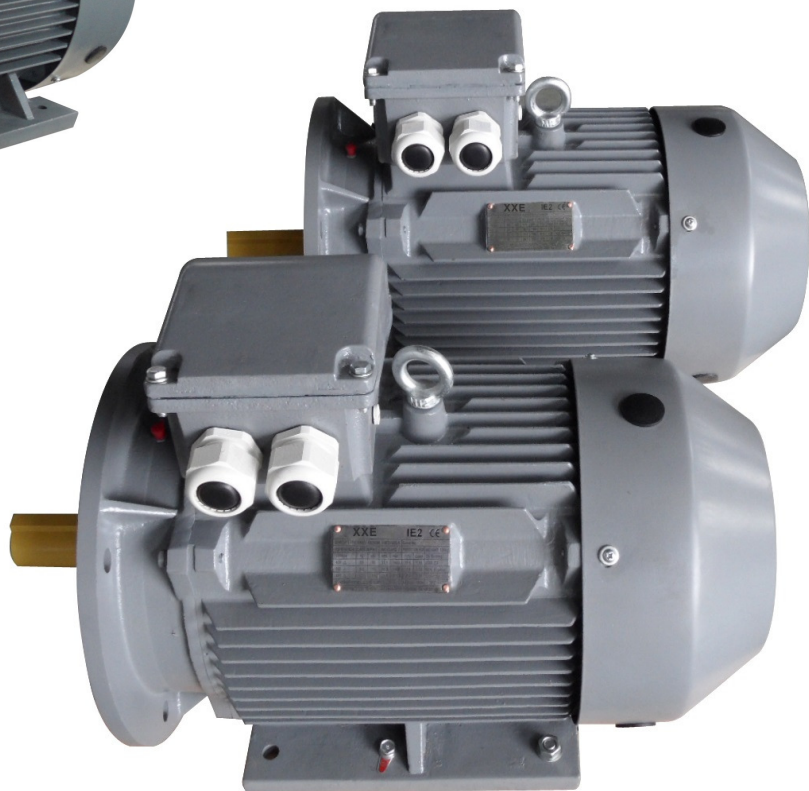
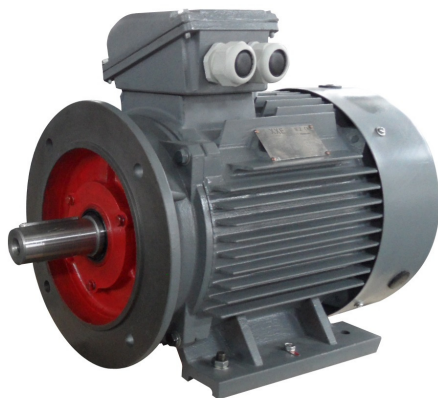
ELEVATION SITE LESS THAN 1000 M

TOTAL ENCLOSED FAN COOLED IC411

PTC150°C THERMISTORS CONTINUOUS S1

IE2 / IE3 HIGH EFFICIENCY ELECTRIC MOTOR

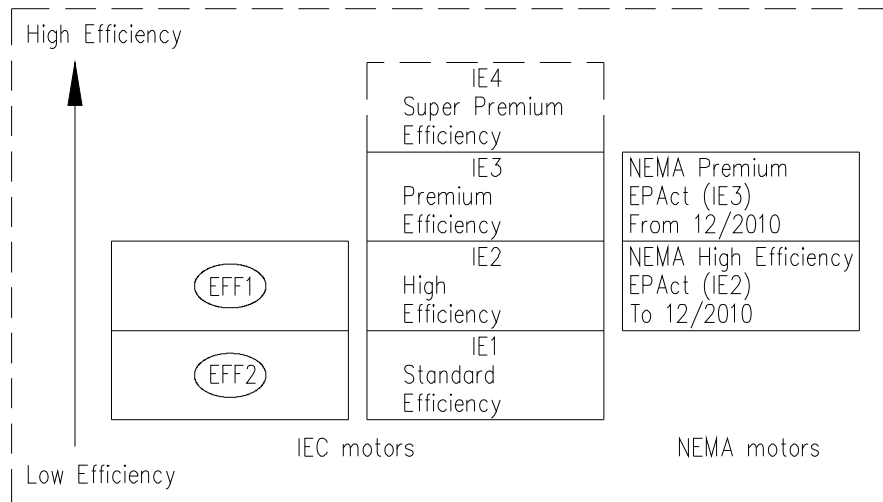
EQUIVALENT STANDARD IEC / DIN EN 60034 60072



ABBREVIATIONS

IE	International Efficiency
IE1	Standard Efficiency
IE2	High Efficiency
IE3	Premium Efficiency
IE4	Super Premium Efficiency
IEC	International Electrotechnical Commission
NEMA	National Electrical Manufacturers Association

EFFICIENCY CLASSIFICATION



EFFICIENCY VALUE

kW	IE1 EFFICIENCY VALUE			IE2 EFFICIENCY VALUE			IE3 EFFICIENCY VALUE		
	2 Poles	4 Poles	6 Poles	2 Poles	4 Poles	6 Poles	2 Poles	4 Poles	6 Poles
0.75	72.1	72.1	70.0	77.4	79.6	75.9	80.7	82.5	78.9
1.10	75.0	75.0	72.9	79.6	81.4	78.1	82.7	84.1	81.0
1.50	77.2	77.2	75.2	81.3	82.8	79.8	84.2	85.3	82.5
2.20	79.7	79.7	77.7	83.2	84.3	81.8	85.9	86.7	84.3
3.00	81.5	81.5	79.7	84.6	85.5	83.3	87.1	87.7	85.6
4.00	83.1	83.1	81.4	85.8	86.6	84.6	88.1	88.6	86.8
5.50	84.7	84.7	83.1	87.0	87.7	86.0	89.2	89.6	88.0
7.50	86.0	86.0	84.7	88.1	88.7	87.2	90.1	90.4	89.1
11.0	87.6	87.6	86.4	89.4	89.8	88.7	91.2	91.4	90.3
15.0	88.7	88.7	87.7	90.3	90.6	89.7	91.9	92.1	91.2
18.5	89.3	89.3	88.6	90.9	91.2	90.4	92.4	92.6	91.7
22.0	89.9	89.9	89.2	91.3	91.6	90.9	92.7	93.0	92.2
30.0	90.7	90.7	90.2	92.0	92.3	91.7	93.3	93.6	92.9
37.0	91.2	91.2	90.8	92.5	92.7	92.2	93.7	93.9	93.3
45.0	91.7	91.7	91.4	92.9	93.1	92.7	94.0	94.2	93.7
55.0	92.1	92.1	91.9	93.2	93.5	93.1	94.3	94.6	94.1
75.0	92.7	92.7	92.6	93.8	94.0	93.7	94.7	95.0	94.6
90.0	93.0	93.0	92.9	94.1	94.2	94.0	95.0	95.2	94.9
110.0	93.3	93.3	93.3	94.3	94.5	94.3	95.2	95.4	95.1
132.0	93.5	93.5	93.5	94.6	94.7	94.6	95.4	95.6	95.4
160.0	93.8	93.8	93.8	94.8	94.9	94.8	95.6	95.8	95.6
200...	94.0	94.0	94.0	95.0	95.1	95.0	95.8	96.0	95.8
...375	94.0	94.0	94.0	95.0	95.1	95.0	95.8	96.0	95.8

BEARING REGREASING REFERENCE

REGREASING REFERENCE GREASE BRAND ESSO UNIREX N2			DRIVING END		NON-DRIVING END	
Series	Frame	Poles	REGREASING TIME (hours)	REGREASING AMOUNT (grams)	REGREASING TIME (hours)	REGREASING AMOUNT (grams)
Y-IE2 Y-IE3	160	2	7000	20	7000	20
		4	10000	20	10000	20
		6	13000	20	13000	20
		8	18000	20	18000	20
Y-IE2 Y-IE3	180	2	4300	25	4300	25
		4	9500	25	9500	25
		6	12700	25	12700	25
		8	15300	25	15300	25
Y-IE2 Y-IE3	200	2	3800	25	3800	25
		4	9300	25	9300	25
		6	12400	25	12400	25
		8	15200	25	15200	25
Y-IE2 Y-IE3	225	2	2100	25	3800	25
		4	5100	30	9300	25
		6	6000	30	12400	25
		8	7000	30	15200	25
Y-IE2 Y-IE3	250	2	2900	30	3100	30
		4	3000	35	3300	35
		6	4000	35	4300	35
		8	5000	35	5200	35
Y-IE2 Y-IE3	280	2	3000	30	4000	30
		4	2600	40	4100	30
		6	4300	40	5900	30
		8	5300	40	6900	30
Y-IE2 Y-IE3	315	2	800	40	800	40
		4	2300	50	3700	50
		6	4100	50	5400	50
		8	5100	50	6500	50
Y-IE2 Y-IE3	355	2	500	50	500	50
		4	1900	70	3100	70
		6	3900	70	5000	70
		8	4800	70	6100	70

PAINTING SPECIFICATIONS

THERMAL CLASS F RAL7031 PAINTING SPECIFICATION	SERIES H-IE1/IE2/IE3 63~160 ALUMINIUM HOUSING MOTOR	SERIES Y-IE2/IE3 160~355 CAST IRON MOTOR
Primer (Anticorrosive, or alkyd, or epoxy paint)	Thickness $\geq$ 20~30 μ m	Thickness $\geq$ 30~40 μ m
Intermediate paint (RAL7031 blue grey)	Thickness $\geq$ 30~40 μ m	Thickness $\geq$ 40~50 μ m
Coating paint (RAL7031 blue grey)	Thickness $\geq$ 20~30 μ m	Thickness $\geq$ 30~40 μ m
Total thickness (approximate)	Thickness $\geq$ 70~100 μ m	Thickness $\geq$ 100~130 μ m

Y-IE2-160~355 400V 50HZ IE2 HIGH EFFICIENCY INS.CL F IP55 TEFC IC411 S1 C&U BEARING THREE PHASE CAST IRON ELECTRIC MOTOR TECHNICAL DATA

2 POLES

TYPE	KW	HP	I _n (230V/50Hz)	I _n (400V/50Hz)	I _n (690V/50Hz)	r/min	KW (480V/60Hz)	I _n (480V/60Hz)	rpm (480V/60Hz)	Eff (100%)	Eff (75%)	Eff (50%)	Cosp (100%)	N.m	I _{st} / I _n	T _{st} / T _n	T _{max} / T _n	dB(A)	KG	Bearing DE	Bearing NDE
Y-IE2-160MA2	11	15	34.7	20.0	11.6	2930	13.2	13.2	20.0	3516	89.4	89.8	87.6	35.95	7.9	2.2	2.3	87	122	6309-C3	6309-C3
Y-IE2-160MB2	15	20	46.9	26.9	15.6	2930	18.0	18.0	26.9	3516	90.3	90.7	88.5	48.89	8.0	2.2	2.3	87	135	6309-C3	6309-C3
Y-IE2-160L2	18.5	25	57.4	33.0	19.1	2935	22.2	22.2	33.0	3522	90.9	91.3	89.1	60.20	8.1	2.2	2.3	87	151	6309-C3	6309-C3
Y-IE2-180M2	22	30	68.7	39.5	22.9	2940	26.4	26.4	39.5	3528	91.3	91.7	89.5	71.46	8.2	2.2	2.3	88	185	6311-C3	6311-C3
Y-IE2-200LA2	30	40	93.0	53.5	31.0	2950	36.0	36.0	53.5	3540	92.0	92.4	90.2	97.12	7.5	2.2	2.3	90	240	6312-C3	6312-C3
Y-IE2-200LB2	37	50	113	64.9	37.6	2950	44.4	44.4	64.9	3540	92.5	92.9	90.7	119.8	7.5	2.2	2.3	90	260	6312-C3	6312-C3
Y-IE2-225M-2	45	60	137	78.6	45.5	2960	54.0	54.0	78.6	3552	92.9	93.3	91.0	145.2	7.6	2.2	2.3	92	345	6313-C3	6313-C3
Y-IE2-250M-2	55	75	165	94.6	54.9	2965	66.0	66.0	94.6	3558	93.2	93.6	91.3	177.2	7.6	2.2	2.3	92	400	6314-C3	6314-C3
Y-IE2-280S2	75	100	223	128	74.3	2970	90.0	90.0	128	3564	93.8	94.2	91.9	241.2	6.9	2.0	2.3	94	535	6314-C3	6314-C3
Y-IE2-280M2	90	125	264	152	87.9	2970	108	108	152	3564	94.1	94.5	92.2	289.4	7.0	2.0	2.3	94	580	6314-C3	6314-C3
Y-IE2-315S2	110	150	322	185	107	2975	132	132	185	3570	94.3	94.7	92.4	353.1	7.1	2.0	2.2	98	940	6317-C3	6317-C3
Y-IE2-315M2	132	180	385	221	128	2975	158	158	221	3570	94.6	95.0	92.7	423.7	7.1	2.0	2.2	98	1010	6317-C3	6317-C3
Y-IE2-315LA2	160	200	461	265	154	2975	192	192	265	3570	94.8	95.2	92.9	513.6	7.1	2.0	2.2	98	1110	6317-C3	6317-C3
Y-IE2-315LB2	200	270	574	330	191	2975	240	240	330	3570	95.0	95.4	93.1	642.0	7.1	2.0	2.2	98	1240	6317-C3	6317-C3
Y-IE2-355M2	250	340	718	413	239	2980	300	300	413	3576	95.0	95.4	93.1	801.2	7.1	2.0	2.2	100	1950	6319-C3	6319-C3
Y-IE2-355L2	315	430	905	520	302	2980	378	378	520	3576	95.0	95.4	93.1	1009.5	7.1	2.0	2.2	100	2100	6319-C3	6319-C3

4 POLES

Y-IE2-160M4	11	15	36.6	21.0	12.2	1460	13.2	13.2	21.0	1752	89.8	90.1	88.0	71.95	7.4	2.2	2.3	77	135	6309-C3	6309-C3
Y-IE2-160L4	15	20	48.9	28.1	16.3	1460	18.0	18.0	28.1	1752	90.6	90.9	88.8	98.12	7.5	2.2	2.3	77	150	6309-C3	6309-C3
Y-IE2-180M4	18.5	25	59.2	34.0	19.7	1470	22.2	22.2	34.0	1764	91.2	91.5	89.4	120.2	7.5	2.2	2.3	80	190	6311-C3	6311-C3
Y-IE2-180L4	22	30	70.1	40.3	23.4	1470	26.4	26.4	40.3	1764	91.6	91.9	89.8	142.9	7.7	2.2	2.3	80	210	6311-C3	6311-C3
Y-IE2-200L4	30	40	94.9	54.6	31.6	1470	36.0	36.0	54.6	1764	92.3	92.6	90.5	194.9	7.8	2.2	2.3	83	270	6312-C3	6312-C3
Y-IE2-225S4	37	50	115	66.2	38.4	1480	44.4	44.4	66.2	1776	92.7	93.0	90.8	238.8	7.2	2.2	2.3	84	310	6313-C3	6313-C3
Y-IE2-225M4	45	60	139	80.2	46.5	1480	54.0	54.0	80.2	1776	93.1	93.4	91.2	290.4	7.3	2.2	2.3	84	340	6313-C3	6313-C3
Y-IE2-250M4	55	75	170	97.6	56.6	1480	66.0	66.0	97.6	1776	93.5	93.8	91.6	354.9	7.4	2.2	2.3	85	450	6314-C3	6314-C3
Y-IE2-280S4	75	100	230	132	76.7	1480	90.0	90.0	132	1776	94.0	94.3	92.1	484.0	7.4	2.2	2.3	88	580	6317-C3	6317-C3
Y-IE2-280M4	90	125	276	159	91.9	1480	108	108	159	1776	94.2	94.5	92.3	580.7	6.7	2.2	2.3	88	670	6317-C3	6317-C3
Y-IE2-315S4	110	150	332	191	111	1485	132	132	191	1782	94.5	94.8	92.6	707.4	6.9	2.1	2.2	94	970	NU319-C3	6319-C3
Y-IE2-315M4	132	180	398	229	133	1485	158	158	229	1782	94.7	95.0	92.8	848.9	6.9	2.1	2.2	94	1040	NU319-C3	6319-C3
Y-IE2-315LA4	160	200	476	273	159	1485	192	192	273	1782	94.9	95.2	93.0	1029	6.9	2.1	2.2	94	1180	NU319-C3	6319-C3
Y-IE2-315LB4	200	270	593	341	198	1485	240	240	341	1782	95.1	95.4	93.2	1286	6.9	2.1	2.2	94	1250	NU319-C3	6319-C3
Y-IE2-355M4	250	340	733	422	244	1490	300	300	422	1788	95.1	95.4	93.2	1602	6.9	2.1	2.2	95	1800	NU322-C3	6322-C3
Y-IE2-355L4	315	430	924	531	308	1490	378	378	531	1788	95.1	95.4	93.2	2019	6.9	2.1	2.2	95	1930	NU322-C3	6322-C3

Y-IE2-160~355 400V 50HZ IE2 HIGH EFFICIENCY INS.CL F IP55 TEFC IC411 S1 C&U BEARING THREE PHASE CAST IRON ELECTRIC MOTOR TECHNICAL DATA

6 POLES

TYPE	kW	HP	I _n (230V/50Hz)	I _n (400V/50Hz)	I _n (690V/50Hz)	r/min	kW (480V/60Hz)	I _n (480V/60Hz)	rpm (480V/60Hz)	Eff (100%)	Eff (75%)	Eff (50%)	Cosφ (100%)	N·m	I _{st} / I _n	T _{st} / T _n	T _{max} / T _n	Bearing DE	Bearing NDE
Y-IE2-160M6	7.5	10	27.7	15.9	9.2	970	9.0	15.9	1164	87.2	87.5	85.5	0.78	73.84	6.7	2.1	2.1	6309-C3	6309-C3
Y-IE2-160L6	11	15	39.9	22.9	13.3	970	13.2	22.9	1164	88.7	89.0	86.9	0.78	108.3	6.9	2.1	2.1	6309-C3	6309-C3
Y-IE2-180L6	15	20	51.8	29.8	17.3	975	18.0	29.8	1170	89.7	90.0	87.9	0.81	146.9	7.2	2.0	2.1	6311-C3	6311-C3
Y-IE2-200LA6	18.5	25	63.4	36.5	21.1	980	22.2	36.5	1176	90.4	90.7	88.6	0.81	180.3	7.2	2.1	2.1	6312-C3	6312-C3
Y-IE2-200LB6	22	30	73.2	42.1	24.4	980	26.4	42.1	1176	90.9	91.2	89.1	0.83	214.4	7.3	2.1	2.1	6312-C3	6312-C3
Y-IE2-225M6	30	40	97.8	56.2	32.6	980	36.0	56.2	1176	91.7	92.1	89.9	0.84	292.3	7.1	2.0	2.1	6313-C3	6313-C3
Y-IE2-250M6	37	50	117	67.4	39.0	980	44.4	67.4	1176	92.2	92.5	90.4	0.86	360.6	7.1	2.1	2.1	6314-C3	6314-C3
Y-IE2-280S6	45	60	142	81.5	47.2	980	54.0	81.5	1176	92.7	93.0	90.8	0.86	438.5	7.2	2.1	2.0	6317-C3	6317-C3
Y-IE2-280M6	55	75	172	99.2	57.5	980	66.0	99.2	1176	93.1	93.4	91.2	0.86	536.0	7.2	2.1	2.0	6317-C3	6317-C3
Y-IE2-315S6	75	100	234	134	77.9	985	90.0	134	1182	93.7	94.0	91.8	0.86	727.2	6.7	2.0	2.0	NU319-C3	6319-C3
Y-IE2-315M6	90	125	279	161	93.2	985	108	161	1182	94.0	94.3	92.1	0.86	872.6	6.7	2.0	2.0	NU319-C3	6319-C3
Y-IE2-315LA6	110	150	340	196	113	985	132	196	1182	94.3	94.6	92.5	0.86	1066	6.7	2.0	2.0	NU319-C3	6319-C3
Y-IE2-315LB6	132	180	403	232	134	985	158	232	1182	94.6	94.9	92.7	0.87	1280	6.7	2.0	2.0	NU319-C3	6319-C3
Y-IE2-355MA6	160	200	481	277	160	990	192	277	1188	94.8	95.1	92.9	0.88	1543	6.7	2.0	2.0	NU322-C3	6322-C3
Y-IE2-355MB6	200	270	601	345	200	990	240	345	1188	95.0	95.3	93.1	0.88	1929	6.7	2.0	2.0	NU322-C3	6322-C3
Y-IE2-355L6	250	340	751	432	250	990	300	432	1188	95.0	95.2	93.1	0.88	2412	6.7	2.0	2.0	NU322-C3	6322-C3

8 POLES

Y-IE2-160MA8	4	5.5	16.3	9.4	5.4	720	4.8	9.4	864	84.2	84.1	82.5	0.73	53.06	6.9	1.9	2.0	6309-C3	6309-C3
Y-IE2-160MB8	5.5	7.5	22	13	7	720	7	13	864	85.8	85.9	84.0	0.74	73	6.9	2.0	2.0	6309-C3	6309-C3
Y-IE2-160L8	7.5	10	28.8	16.6	9.6	720	9.0	16.6	864	87.2	87.2	85.3	0.75	99.5	6.9	2.0	2.0	6309-C3	6309-C3
Y-IE2-180L8	11	15	40.9	23.5	13.6	730	13.2	23.5	876	88.8	88.7	87.1	0.76	143.9	6.8	2.0	2.0	6311-C3	6311-C3
Y-IE2-200L8	15	20	55.1	31.7	18.4	730	18.0	31.7	876	90.0	90.2	88.1	0.76	196.2	6.8	2.0	2.0	6312-C3	6312-C3
Y-IE2-225S8	18.5	25	67.4	38.7	22.5	730	22.2	38.7	876	90.7	90.4	89.1	0.76	242.0	6.8	1.9	2.0	6313-C3	6313-C3
Y-IE2-225M8	22	30	77.6	44.6	25.9	730	26.4	44.6	876	91.2	91.1	89.5	0.78	287.8	6.8	1.9	2.0	6313-C3	6313-C3
Y-IE2-250M8	30	40	104	59.5	34.5	730	36.0	59.5	876	92.1	92.2	90.3	0.79	392.5	6.8	1.9	2.0	6314-C3	6314-C3
Y-IE2-280S8	37	50	127	72.9	42.3	730	44.4	72.9	876	92.7	92.5	91.1	0.79	484.0	6.8	1.9	2.0	6317-C3	6317-C3
Y-IE2-280M8	45	60	153	88.2	51.1	730	54.0	88.2	876	93.2	93.2	91.4	0.79	588.7	6.8	1.9	2.0	6317-C3	6317-C3
Y-IE2-315S8	55	75	182	105	60.6	740	66.0	105	888	93.7	93.6	91.8	0.81	709.8	6.8	1.8	2.0	NU319-C3	6319-C3
Y-IE2-315M8	75	100	246	142	82.1	740	90	142	888	94.4	94.3	92.8	0.81	967.9	6.8	1.8	2.0	NU319-C3	6319-C3
Y-IE2-315LA8	90	125	291	167	97	740	108	167	888	94.7	94.5	92.9	0.82	1161	6.8	1.8	2.0	NU319-C3	6319-C3
Y-IE2-315LB8	110	150	354	204	118	740	132	204	888	95.1	95.2	93.4	0.82	1420	6.6	1.8	2.0	NU319-C3	6319-C3
Y-IE2-355MA8	132	180	424	244	141	740	158	244	888	95.4	95.3	93.7	0.82	1704	6.6	1.8	2.0	NU322-C3	6322-C3
Y-IE2-355MB8	160	220	512	294	171	740	192	294	888	95.7	95.6	93.9	0.82	2065	6.6	1.8	2.0	NU322-C3	6322-C3
Y-IE2-355L8	200	270	632	363	211	740	240	363	888	95.7	95.6	93.9	0.83	2581	6.6	1.8	2.0	NU322-C3	6322-C3

Y-IE3-160-355 400V 50HZ IE3 PREMIUM EFFICIENCY INS.CL F IP55 TEFC IC411 S1 C&U BEARING THREE PHASE CAST IRON ELECTRIC MOTOR TECHNICAL DATA

2 POLES

TYPE	KW	HP	I _n (230V/50Hz)	I _n (400V/50Hz)	I _n (690V/50Hz)	r/min	KW (480V/60Hz)	I _n (480V/60Hz)	rpm (480V/60Hz)	Eff (100%)	Eff (75%)	Eff (50%)	Cosφ (100%)	N.m	I _{st} / I _n	T _{st} / T _n	T _{max} / T _n	dB(A)	KG	Bearing DE	Bearing NDE
Y-IE3-160MA2	11	15	33.6	19.3	11.2	2945	13.2	19.3	3534	91.2	91.2	89.2	0.90	35.7	7.3	2.3	2.6	87	128	6309-C3	6309-C3
Y-IE3-160MB2	15	20	45.0	25.9	15.0	2945	18.0	25.9	3534	91.9	92.0	89.9	0.91	48.6	7.0	1.9	2.3	87	140	6309-C3	6309-C3
Y-IE3-160L2	18.5	25	56.5	32.5	18.8	2940	22.2	32.5	3528	92.4	92.5	90.4	0.89	60.1	7.0	1.6	2.5	87	155	6309-C3	6309-C3
Y-IE3-180M2	22	30	66.2	38.1	22.1	2955	26.4	38.1	3546	92.7	92.7	90.7	0.90	71.1	7.0	1.6	2.5	88	192	6311-C3	6311-C3
Y-IE3-200LA2	30	40	90.7	52.1	30.2	2960	36.0	52.1	3552	93.3	93.4	91.3	0.89	96.8	7.0	1.5	2.5	90	246	6312-C3	6312-C3
Y-IE3-200LB2	37	50	109	62.6	36.3	2960	44.4	62.6	3552	93.7	93.8	91.7	0.91	119	7.3	1.5	2.5	90	267	6312-C3	6312-C3
Y-IE3-225M-2	45	60	137	78.5	45.5	2965	54.0	78.5	3558	94.0	94.2	92.0	0.88	145	6.8	1.6	2.5	92	353	6313-C3	6313-C3
Y-IE3-250M-2	55	75	165	94.6	54.8	2970	66.0	94.6	3564	94.3	94.3	92.3	0.89	177	7.2	1.6	2.6	92	408	6314-C3	6314-C3
Y-IE3-280S2	75	100	221	127	73.6	2975	90.0	127	3570	94.7	94.8	92.7	0.90	241	7.2	1.2	2.0	94	548	6314-C3	6314-C3
Y-IE3-280M2	90	125	267	154	89.1	2975	108.0	154	3570	95.0	95.1	93.0	0.89	289	7.4	1.2	2.0	94	596	6314-C3	6314-C3
Y-IE3-315S2	110	150	322	185	107	2975	132.0	185	3570	95.2	95.2	93.2	0.90	353	7.3	1.2	2.0	98	956	6317-C3	6317-C3
Y-IE3-315M2	132	180	386	222	129	2975	158.4	222	3570	95.4	95.5	93.4	0.90	424	7.3	1.3	2.1	98	1026	6317-C3	6317-C3
Y-IE3-315LA2	160	200	467	268	156	2980	192.0	268	3576	95.6	95.6	93.6	0.90	513	6.8	1.2	2.0	98	1119	6317-C3	6317-C3
Y-IE3-315LB2	200	270	576	331	192	2980	240.0	331	3576	95.8	95.8	93.8	0.91	641	7.8	1.1	2.0	98	1250	6317-C3	6317-C3
Y-IE3-355M2	250	340	712	409	237	2980	300.0	409	3576	95.8	95.9	93.8	0.92	801	7.9	1.1	2.0	100	1968	6319-C3	6319-C3
Y-IE3-355L2	315	430	897	516	299	2980	378.0	516	3576	95.8	95.8	93.8	0.92	1009	7.9	1.1	2.0	100	2111	6319-C3	6319-C3

4 POLES

Y-IE3-160M4	11	15	36.8	21.2	12.3	1465	13.2	21.2	1758	91.4	91.5	89.4	0.82	71.7	6.8	1.9	2.3	77	141	6309-C3	6309-C3
Y-IE3-160L4	15	20	49.9	28.7	16.6	1465	18.0	28.7	1758	92.1	92.3	90.1	0.82	97.8	6.8	1.8	2.4	77	153	6309-C3	6309-C3
Y-IE3-180M4	18.5	25	59.7	34.3	19.9	1470	22.2	34.3	1764	92.6	92.7	90.6	0.84	120	6.9	1.8	2.5	80	198	6311-C3	6311-C3
Y-IE3-180L4	22	30	69.9	40.2	23.3	1470	26.4	40.2	1764	93.0	93.0	91.0	0.85	143	7.0	1.8	2.5	80	220	6311-C3	6311-C3
Y-IE3-200L4	30	40	93.6	53.8	31.2	1475	36.0	53.8	1770	93.6	93.8	91.6	0.86	194	6.8	1.8	2.3	83	275	6312-C3	6312-C3
Y-IE3-225S4	37	50	115	66.1	38.3	1485	44.4	66.1	1782	93.9	94.0	91.9	0.86	238	7.1	1.7	2.3	84	315	6313-C3	6313-C3
Y-IE3-225M4	45	60	138	79.3	45.9	1485	54.0	79.3	1782	94.2	94.4	92.2	0.87	289	7.1	1.8	2.4	84	345	6313-C3	6313-C3
Y-IE3-250M4	55	75	168	96.5	55.9	1485	66.0	96.5	1782	94.6	94.9	92.6	0.87	354	7.0	1.8	2.4	85	461	6314-C3	6314-C3
Y-IE3-280S4	75	100	228	131	75.9	1485	90.0	131	1782	95.0	95.1	93.0	0.87	482	6.9	1.8	2.2	88	588	6317-C3	6317-C3
Y-IE3-280M4	90	125	273	157	90.9	1485	108.0	157	1782	95.2	95.4	93.2	0.87	579	7.2	1.6	2.1	88	678	6317-C3	6317-C3
Y-IE3-315S4	110	150	329	189	110	1490	132.0	189	1788	95.4	95.5	93.4	0.88	705	7.2	1.6	2.1	94	988	NU319-C3	6319-C3
Y-IE3-315M4	132	180	394	226	131	1490	158.4	226	1788	95.6	95.7	93.6	0.88	846	7.2	1.5	2.0	94	1055	NU319-C3	6319-C3
Y-IE3-315LA4	160	200	476	274	159	1490	192.0	274	1788	95.8	95.8	93.8	0.88	1026	6.8	1.5	2.0	94	1195	NU319-C3	6319-C3
Y-IE3-315LB4	200	270	594	342	198	1490	240.0	342	1788	96.0	96.0	94.0	0.88	1282	7.2	1.6	2.1	94	1263	NU319-C3	6319-C3
Y-IE3-355M4	250	340	743	427	248	1490	300.0	427	1788	96.0	96.1	94.0	0.88	1602	7.3	1.4	2.1	95	1814	NU322-C3	6322-C3
Y-IE3-355L4	315	430	936	538	312	1490	378.0	538	1788	96.0	96.0	94.0	0.88	2019	7.4	1.4	2.0	95	1942	NU322-C3	6322-C3

Y-IE3-160-355 400V 50HZ IE3 PREMIUM EFFICIENCY INS.CL F IP55 TEFC IC411 S1 C&U BEARING THREE PHASE CAST IRON ELECTRIC MOTOR TECHNICAL DATA

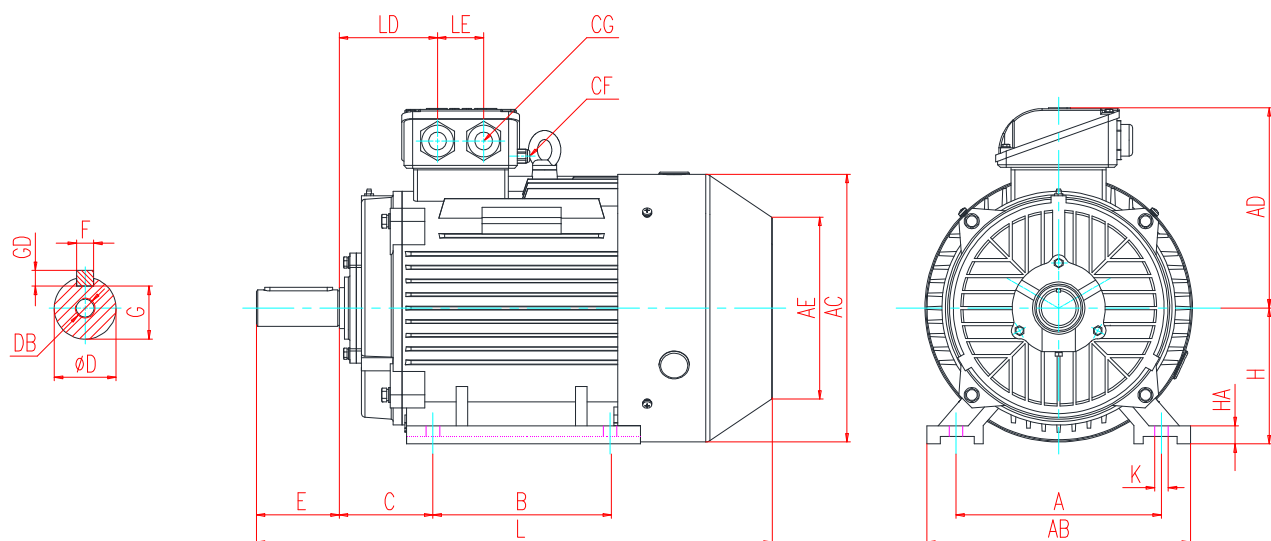
6 POLES

TYPE	KW	HP	I _n (230V/50Hz)	I _n (400V/50Hz)	I _n (690V/50Hz)	r/min	KW (480V/60Hz)	I _n (480V/60Hz)	rpm (480V/60Hz)	Eff (100%)	Eff (75%)	Eff (50%)	Cos ϕ (100%)	N.m	I _{st} / I _n	T _{st} / T _n	T _{max} / T _n	dB(A)	KG	Bearing DE	Bearing NDE
Y-IE3-160M6	7.5	10	27.4	15.8	9.1	970	9.0	15.8	1164	89.1	89.3	87.1	0.77	73.8	5.9	1.7	2.5	73	144	6309-C3	6309-C3
Y-IE3-160L6	11	15	38.7	22.3	12.9	970	13.2	22.3	1164	90.3	90.5	88.3	0.79	108	6.0	1.5	2.4	73	170	6309-C3	6309-C3
Y-IE3-180L6	15	20	51.0	29.3	17.0	975	18.0	29.3	1170	91.2	91.3	79.2	0.81	147	6.0	1.5	2.4	77	213	6311-C3	6311-C3
Y-IE3-200LA6	18.5	25	62.5	36.0	20.8	980	22.2	36.0	1176	91.7	91.9	89.7	0.81	180	6.5	1.6	2.4	80	245	6312-C3	6312-C3
Y-IE3-200LB6	22	30	72.2	41.5	24.1	980	26.4	41.5	1176	92.2	92.3	90.2	0.83	214	6.0	1.7	2.3	80	262	6312-C3	6312-C3
Y-IE3-225M6	30	40	96.5	55.5	32.2	980	36.0	55.5	1176	92.9	93.1	90.9	0.84	292	6.5	1.9	2.2	80	322	6313-C3	6313-C3
Y-IE3-250M6	37	50	119	68.1	39.5	985	44.4	68.1	1182	93.3	93.3	91.3	0.84	359	6.8	1.9	2.2	82	426	6314-C3	6314-C3
Y-IE3-280S6	45	60	142	81.6	47.3	985	54.0	81.6	1182	93.7	93.8	91.7	0.85	436	6.5	1.8	2.2	85	611	6317-C3	6317-C3
Y-IE3-280M6	55	75	173	99.3	57.5	985	66.0	99.3	1182	94.1	94.2	92.1	0.85	533	6.0	1.8	2.2	85	700	6317-C3	6317-C3
Y-IE3-315S6	75	100	234	135	78.0	985	90.0	135	1182	94.6	94.6	92.6	0.85	727	6.5	1.6	2.0	89	981	NU319-C3	6319-C3
Y-IE3-315M6	90	125	280	161	93.4	985	108.0	161	1182	94.9	95.0	92.9	0.85	873	6.8	1.6	2.0	89	1191	NU319-C3	6319-C3
Y-IE3-315LA6	110	150	338	194	113	985	132.0	194	1182	95.1	95.2	93.1	0.86	1066	6.8	1.5	2.0	89	1254	NU319-C3	6319-C3
Y-IE3-315LB6	132	180	404	232	135	990	158.4	232	1188	95.4	95.4	93.4	0.86	1273	6.8	1.4	2.1	89	1321	NU319-C3	6319-C3
Y-IE3-355MA6	160	200	489	281	163	990	192.0	281	1188	95.6	95.6	93.6	0.86	1543	7.1	1.4	2.0	94	1751	NU322-C3	6322-C3
Y-IE3-355MB6	200	270	596	342	199	990	240.0	342	1188	95.8	95.8	93.8	0.88	1929	7.2	1.3	2.0	94	1947	NU322-C3	6322-C3
Y-IE3-355L6	250	340	744	428	248	990	300.0	428	1188	95.8	95.8	93.8	0.88	2412	7.2	1.3	2.0	94	2100	NU322-C3	6322-C3

8 POLES

Y-IE3-160MA8	4	5.5	16.0	9.2	5.3	725	4.8	9.21	870	84.7	84.6	83.2	0.74	52.7	6.9	2.0	2.2	72	130	6309-C3	6309-C3
Y-IE3-160MB8	5.5	7.5	21.6	12.4	7.2	725	6.6	12.4	870	86.3	86.3	84.5	0.74	72.4	6.9	2.0	2.2	72	137	6309-C3	6309-C3
Y-IE3-160L8	7.5	10	28.7	16.5	9.6	725	9.0	16.5	870	87.6	87.7	85.9	0.75	98.8	6.9	2.0	2.2	72	160	6309-C3	6309-C3
Y-IE3-180L8	11	15	40.8	23.4	13.6	735	13.2	23.4	882	89.1	89.1	87.4	0.76	143	6.9	2.0	2.2	76	202	6311-C3	6311-C3
Y-IE3-200L8	15	20	54.8	31.5	18.3	735	18.0	31.5	882	90.4	90.3	88.5	0.76	195	6.9	2.0	2.2	79	250	6312-C3	6312-C3
Y-IE3-225S8	18.5	25	67.1	38.6	22.4	735	22.2	38.6	882	91.1	91.2	89.3	0.76	240	6.7	1.9	2.1	79	296	6313-C3	6313-C3
Y-IE3-225M8	22	30	76.4	43.9	25.5	735	26.4	43.9	882	91.5	91.5	89.6	0.79	286	6.7	1.9	2.1	79	346	6313-C3	6313-C3
Y-IE3-250M8	30	40	103	59.3	34.4	735	36.0	59.3	882	92.5	92.4	90.8	0.79	390	6.7	1.9	2.1	80	450	6314-C3	6314-C3
Y-IE3-280S8	37	50	125	71.8	41.6	735	44.4	71.8	882	93.0	93.1	91.2	0.80	481	6.7	1.9	2.1	82	572	6317-C3	6317-C3
Y-IE3-280M8	45	60	151	86.8	50.3	735	54.0	86.8	882	93.5	93.5	91.7	0.80	585	6.7	1.9	2.1	82	660	6317-C3	6317-C3
Y-IE3-315S8	55	75	179	103	59.8	742	66.0	103	890	93.9	93.8	92.4	0.82	708	6.5	1.8	2.0	88	1010	NU319-C3	6319-C3
Y-IE3-315M8	75	100	243	140	80.9	742	90.0	140	890	94.6	94.6	93.0	0.82	965	6.5	1.8	2.0	88	1250	NU319-C3	6319-C3
Y-IE3-315LA8	90	125	287	165	95.6	742	108	165	890	94.9	94.9	93.1	0.83	1158	6.5	1.8	2.0	88	1310	NU319-C3	6319-C3
Y-IE3-315LB8	110	150	341	196	114	742	132	196	890	95.2	95.2	93.4	0.85	1416	6.5	1.8	2.0	88	1350	NU319-C3	6319-C3
Y-IE3-355MA8	132	180	403	232	134	742	158	232	890	95.5	95.5	93.7	0.86	1699	6.5	1.8	2.0	92	1890	NU322-C3	6322-C3
Y-IE3-355MB8	160	220	482	277	161	742	192	277	890	95.8	95.5	94.0	0.87	2059	6.5	1.8	2.0	92	1970	NU322-C3	6322-C3
Y-IE3-355L8	200	270	602	346	201	742	240	346	890	95.8	95.5	94.0	0.87	2574	6.5	1.8	2.0	92	2150	NU322-C3	6322-C3

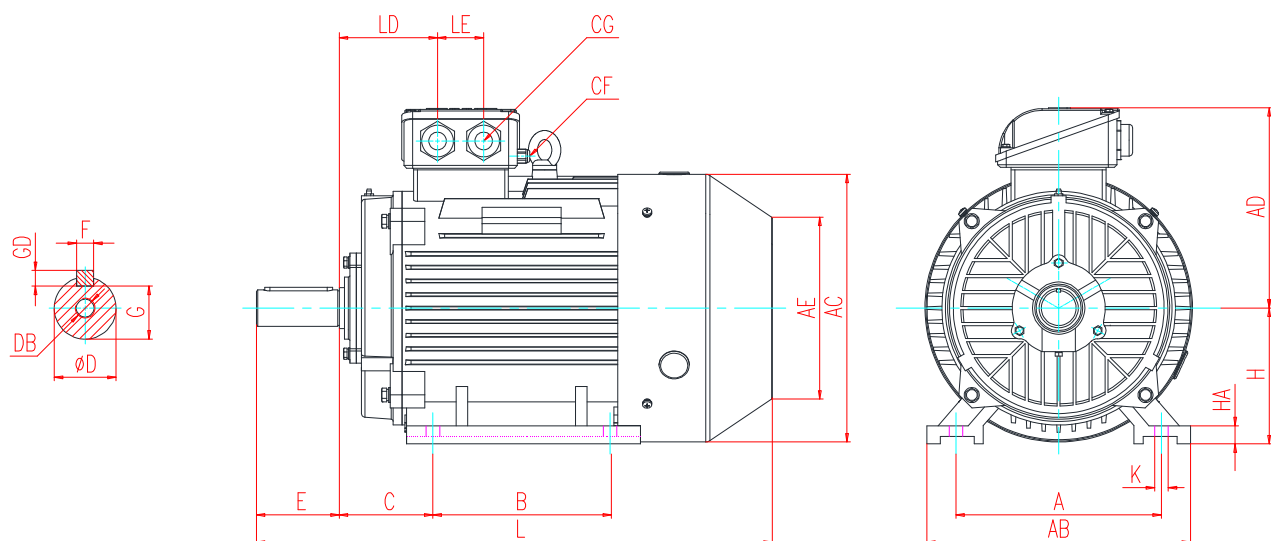
FRAME SIZE 160~355 – B3 MOUNTING DIMENSIONS (IE2 / IE3 EFFICIENCY) – CAST IRON



Frame size 160~355 (B3)

Frame	B3 Mounting Dimensions (mm)															
Size	Poles	A	B	C	D	E	F	G	H	K	M	N	P	S	T	GD
160M	2 4 6 8	254	210	108	Φ42	110	12	37	160	4-Φ14.5	/	/	/	/	/	8
160L	2 4 6 8	254	254	108	Φ42	110	12	37	160	4-Φ14.5	/	/	/	/	/	8
180M	2 4 8	279	241	121	Φ48	110	14	42.5	180	4-Φ14.5	/	/	/	/	/	9
180L	4 6 8	279	279	121	Φ48	110	14	42.5	180	4-Φ14.5	/	/	/	/	/	9
200L	2 4 6 8	318	305	133	Φ55	110	16	49	200	4-Φ16.5	/	/	/	/	/	10
225S	4 8	356	286	149	Φ60	140	18	53	225	4-Φ18.5	/	/	/	/	/	11
225M	2	356	311	149	Φ55	110	16	49	225	4-Φ18.5	/	/	/	/	/	10
	4 6 8	356	311	149	Φ60	140	18	53	225	4-Φ18.5	/	/	/	/	/	11
250M	2	406	349	168	Φ60	140	18	53	250	4-Φ24	/	/	/	/	/	11
	4 6 8	406	349	168	Φ65	140	18	58	250	4-Φ24	/	/	/	/	/	11
280S	2	457	368	190	Φ65	140	18	58	280	4-Φ24	/	/	/	/	/	11
	4 6 8	457	368	190	Φ75	140	20	67.5	280	4-Φ24	/	/	/	/	/	12
280M	2	457	419	190	Φ65	140	18	58	280	4-Φ24	/	/	/	/	/	11
	4 6 8	457	419	190	Φ75	140	20	67.5	280	4-Φ24	/	/	/	/	/	12
315S	2	508	406	216	Φ65	140	18	58	315	4-Φ28	/	/	/	/	/	11
	4 6 8	508	406	216	Φ80	170	22	71	315	4-Φ28	/	/	/	/	/	14
315M	2	508	457	216	Φ65	140	18	58	315	4-Φ28	/	/	/	/	/	11
	4 6 8	508	457	216	Φ80	170	22	71	315	4-Φ28	/	/	/	/	/	14
315L	2	508	508	216	Φ65	140	18	58	315	4-Φ28	/	/	/	/	/	11
	4 6 8	508	508	216	Φ80	170	22	71	315	4-Φ28	/	/	/	/	/	14
355M	2	610	560	254	Φ75	140	20	67.5	355	6-Φ28	/	/	/	/	/	12
	4 6 8	610	560	254	Φ95	170	25	86	355	6-Φ28	/	/	/	/	/	14
355L	2	610	630	254	Φ75	140	20	67.5	355	6-Φ28	/	/	/	/	/	12
	4 6 8	610	630	254	Φ95	170	25	86	355	6-Φ28	/	/	/	/	/	14

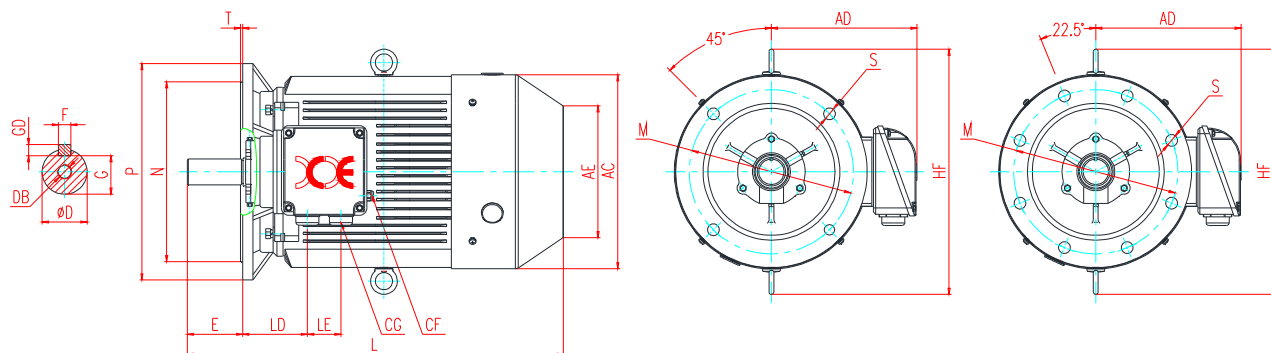
FRAME SIZE 160~355 – B3 MOUNTING DIMENSIONS (IE2 / IE3 EFFICIENCY) – CAST IRON



Frame size 160~355 (B3)

Frame Size	Poles	Cable Gland		B3 Outline Dimensions (mm)								
		CG	CF	AB	AE	AC	LD	LE	HA	AD	DB	L
160M	2 4 6 8	2-M40x1.5	1-M16x1.5	314	Φ200	Φ314	224	64	20	251	M16x36	608
160L	2 4 6 8	2-M40x1.5	1-M16x1.5	314	Φ200	Φ314	224	64	20	251	M16x36	652
180M	2 4 8	2-M40x1.5	1-M16x1.5	349	Φ240	Φ355	239	64	22	267	M16x36	688
180L	4 6 8	2-M40x1.5	1-M16x1.5	349	Φ240	Φ355	239	64	22	267	M16x36	726
200L	2 4 6 8	2-M50x1.5	1-M16x1.5	388	Φ245	Φ397	256	80	25	299	M20x42	779
225S	4 8	2-M50x1.5	1-M16x1.5	431	Φ260	Φ446	289	80	28	322	M20x42	824
225M	2	2-M50x1.5	1-M16x1.5	431	Φ260	Φ446	259	80	28	322	M20x42	819
	4 6 8	2-M50x1.5	1-M16x1.5	431	Φ260	Φ446	289	80	28	322	M20x42	849
250M	2	2-M63x1.5	1-M16x1.5	484	Φ275	Φ485	305	84	30	358	M20x42	910
	4 6 8	2-M63x1.5	1-M16x1.5	484	Φ275	Φ485	305	84	30	358	M20x42	910
280S	2	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	982
	4 6 8	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	982
280M	2	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	1033
	4 6 8	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	1033
315S	2	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	355	84	45	527	M20x42	1194
	4 6 8	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	385	84	45	527	M20x42	1224
315M	2	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	355	84	45	527	M20x42	1304
	4 6 8	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	385	84	45	527	M20x42	1334
315L	2	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	355	84	45	527	M20x42	1304
	4 6 8	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	385	84	45	527	M20x42	1334
355M	2	2-M63x1.5	1-M16x1.5	726	/	Φ698	372	84	52	642	M20x50	1486
	4 6 8	2-M63x1.5	1-M16x1.5	726	/	Φ698	402	84	52	642	M24x50	1516
355L	2	2-M63x1.5	1-M16x1.5	726	/	Φ698	372	84	52	642	M20x50	1486
	4 6 8	2-M63x1.5	1-M16x1.5	726	/	Φ698	402	84	52	642	M24x50	1516

FRAME SIZE 160~355 – B5 MOUNTING DIMENSIONS (IE2 / IE3 EFFICIENCY) – CAST IRON



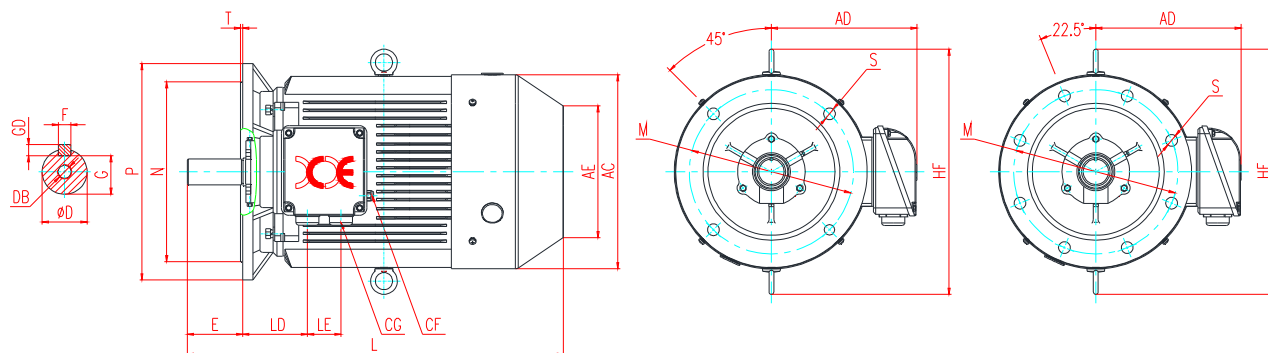
Size 160~200 (B5 Flange)

Size 225~355 (B5 Flange)

Frame size 160~355 (B5)

Frame Size	B5 Mounting Dimensions (mm)															
	Poles	A	B	C	D	E	F	G	H	K	M	N	P	S	T	GD
160M	2 4 6 8	/	/	/	Φ42	110	12	37	/	/	Φ300	Φ250	Φ350	4-Φ19	5	8
160L	2 4 6 8	/	/	/	Φ42	110	12	37	/	/	Φ300	Φ250	Φ350	4-Φ19	5	8
180M	2 4 8	/	/	/	Φ48	110	14	42.5	/	/	Φ300	Φ250	Φ350	4-Φ19	5	9
180L	4 6 8	/	/	/	Φ48	110	14	42.5	/	/	Φ300	Φ250	Φ350	4-Φ19	5	9
200L	2 4 6 8	/	/	/	Φ55	110	16	49	/	/	Φ350	Φ300	Φ400	4-Φ19	5	10
225S	4 8	/	/	/	Φ60	140	18	53	/	/	Φ400	Φ350	Φ450	4-Φ19	5	11
225M	2	/	/	/	Φ55	110	16	49	/	/	Φ400	Φ350	Φ450	4-Φ19	5	10
	4 6 8	/	/	/	Φ60	140	18	53	/	/	Φ400	Φ350	Φ450	4-Φ19	5	11
250M	2	/	/	/	Φ60	140	18	53	/	/	Φ500	Φ450	Φ550	4-Φ19	5	11
	4 6 8	/	/	/	Φ65	140	18	58	/	/	Φ500	Φ450	Φ550	4-Φ19	5	11
280S	2	/	/	/	Φ65	140	18	58	/	/	Φ500	Φ450	Φ550	4-Φ19	5	11
	4 6 8	/	/	/	Φ75	140	20	67.5	/	/	Φ500	Φ450	Φ550	4-Φ19	5	12
280M	2	/	/	/	Φ65	140	18	58	/	/	Φ500	Φ450	Φ550	4-Φ19	5	11
	4 6 8	/	/	/	Φ75	140	20	67.5	/	/	Φ500	Φ450	Φ550	4-Φ19	5	12
315S	2	/	/	/	Φ65	140	18	58	/	/	Φ600	Φ550	Φ660	4-Φ24	6	11
	4 6 8	/	/	/	Φ80	170	22	71	/	/	Φ600	Φ550	Φ660	4-Φ24	6	14
315M	2	/	/	/	Φ65	140	18	58	/	/	Φ600	Φ550	Φ660	4-Φ24	6	11
	4 6 8	/	/	/	Φ80	170	22	71	/	/	Φ600	Φ550	Φ660	4-Φ24	6	14
315L	2	/	/	/	Φ65	140	18	58	/	/	Φ600	Φ550	Φ660	4-Φ24	6	11
	4 6 8	/	/	/	Φ80	170	22	71	/	/	Φ600	Φ550	Φ660	4-Φ24	6	14
355M	2	/	/	/	Φ75	140	20	67.5	/	/	Φ740	Φ680	Φ800	4-Φ24	6	12
	4 6 8	/	/	/	Φ95	170	25	86	/	/	Φ740	Φ680	Φ800	4-Φ24	6	14
355L	2	/	/	/	Φ75	140	20	67.5	/	/	Φ740	Φ680	Φ800	4-Φ24	6	12
	4 6 8	/	/	/	Φ95	170	25	86	/	/	Φ740	Φ680	Φ800	4-Φ24	6	14

FRAME SIZE 160~355 – B5 MOUNTING DIMENSIONS (IE2 / IE3 EFFICIENCY) – CAST IRON



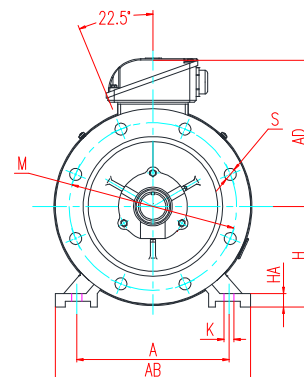
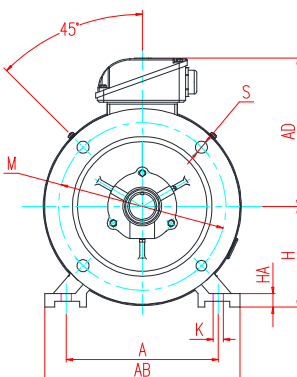
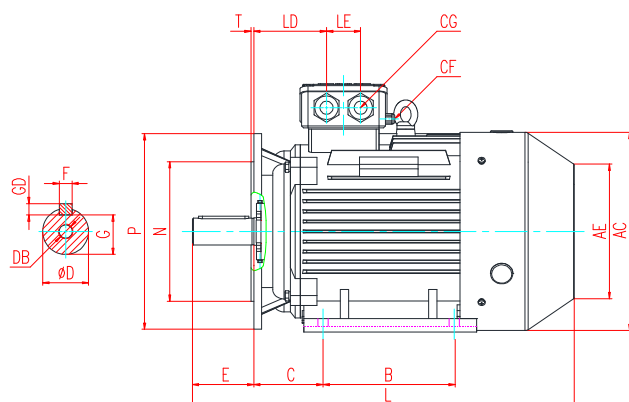
Size 160~200 (B5 Flange)

Size 225~355 (B5 Flange)

Frame size 160~355 (B5)

Frame Size	Poles	Cable Gland		B5 Outline Dimensions (mm)								
		CG	CF	AB	AE	AC	LD	LE	HF	AD	DB	L
160M	2 4 6 8	2-M40x1.5	1-M16x1.5	/	Φ200	Φ314	224	64	430	251	M16x36	608
160L	2 4 6 8	2-M40x1.5	1-M16x1.5	/	Φ200	Φ314	224	64	430	251	M16x36	652
180M	2 4 8	2-M40x1.5	1-M16x1.5	/	Φ240	Φ355	239	64	500	267	M16x36	688
180L	4 6 8	2-M40x1.5	1-M16x1.5	/	Φ240	Φ355	239	64	500	267	M16x36	726
200L	2 4 6 8	2-M50x1.5	1-M16x1.5	/	Φ245	Φ397	256	80	550	299	M20x42	779
225S	4 8	2-M50x1.5	1-M16x1.5	/	Φ260	Φ446	289	80	610	322	M20x42	824
225M	2	2-M50x1.5	1-M16x1.5	/	Φ260	Φ446	259	80	610	322	M20x42	819
	4 6 8	2-M50x1.5	1-M16x1.5	/	Φ260	Φ446	289	80	610	322	M20x42	849
250M	2	2-M63x1.5	1-M16x1.5	/	Φ275	Φ485	305	84	650	358	M20x42	910
	4 6 8	2-M63x1.5	1-M16x1.5	/	Φ275	Φ485	305	84	650	358	M20x42	910
280S	2	2-M63x1.5	1-M16x1.5	/	Φ306	Φ547	314	84	720	387	M20x42	982
	4 6 8	2-M63x1.5	1-M16x1.5	/	Φ306	Φ547	314	84	720	387	M20x42	982
280M	2	2-M63x1.5	1-M16x1.5	/	Φ306	Φ547	314	84	720	387	M20x42	1033
	4 6 8	2-M63x1.5	1-M16x1.5	/	Φ306	Φ547	314	84	720	387	M20x42	1033
315S	2	2-M63x1.5	1-M16x1.5	/	Φ400	Φ620	355	84	860	527	M20x42	1194
	4 6 8	2-M63x1.5	1-M16x1.5	/	Φ400	Φ620	385	84	860	527	M20x42	1224
315M	2	2-M63x1.5	1-M16x1.5	/	Φ400	Φ620	355	84	860	527	M20x42	1304
	4 6 8	2-M63x1.5	1-M16x1.5	/	Φ400	Φ620	385	84	860	527	M20x42	1334
315L	2	2-M63x1.5	1-M16x1.5	/	Φ400	Φ620	355	84	860	527	M20x42	1304
	4 6 8	2-M63x1.5	1-M16x1.5	/	Φ400	Φ620	385	84	860	527	M20x42	1334
355M	2	2-M63x1.5	1-M16x1.5	/	/	Φ698	372	84	980	642	M20x50	1486
	4 6 8	2-M63x1.5	1-M16x1.5	/	/	Φ698	402	84	980	642	M24x50	1516
355L	2	2-M63x1.5	1-M16x1.5	/	/	Φ698	372	84	980	642	M20x50	1486
	4 6 8	2-M63x1.5	1-M16x1.5	/	/	Φ698	402	84	980	642	M24x50	1516

FRAME SIZE 160~355 – B35 MOUNTING DIMENSIONS (IE2 / IE3 EFFICIENCY) – CAST IRON



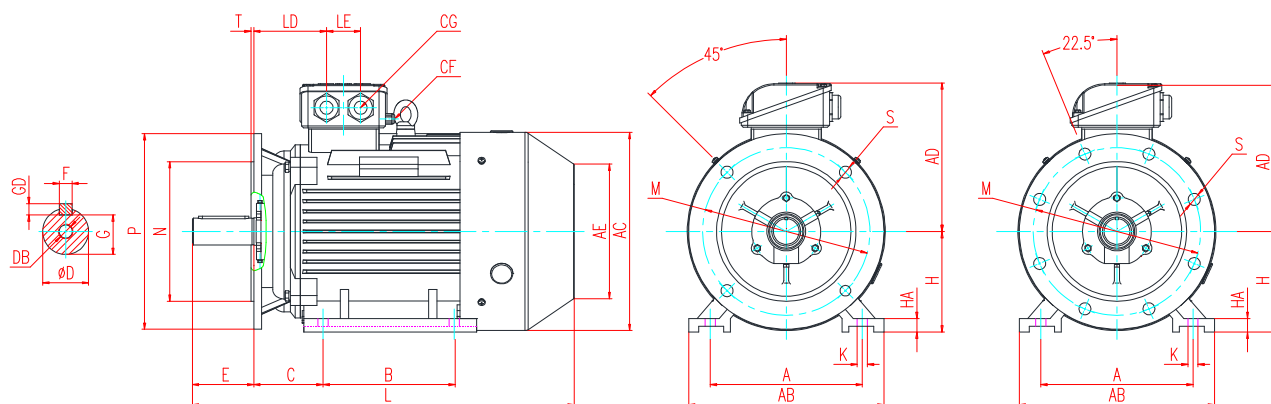
Size 160~200 (B35 Flange)

Size 225~355 (B35 Flange)

Frame size 160~355 (B35)

Frame Size	B35 Mounting Dimensions (mm)															
	Poles	A	B	C	D	E	F	G	H	K	M	N	P	S	T	GD
160M	2 4 6 8	254	210	108	Φ42	110	12	37	160	4-Φ14.5	Φ300	Φ250	Φ350	4-Φ19	5	8
160L	2 4 6 8	254	254	108	Φ42	110	12	37	160	4-Φ14.5	Φ300	Φ250	Φ350	4-Φ19	5	8
180M	2 4 8	279	241	121	Φ48	110	14	42.5	180	4-Φ14.5	Φ300	Φ250	Φ350	4-Φ19	5	9
180L	4 6 8	279	279	121	Φ48	110	14	42.5	180	4-Φ14.5	Φ300	Φ250	Φ350	4-Φ19	5	9
200L	2 4 6 8	318	305	133	Φ55	110	16	49	200	4-Φ16.5	Φ350	Φ300	Φ400	4-Φ19	5	10
225S	4 8	356	286	149	Φ60	140	18	53	225	4-Φ18.5	Φ400	Φ350	Φ450	4-Φ19	5	11
225M	2	356	311	149	Φ55	110	16	49	225	4-Φ18.5	Φ400	Φ350	Φ450	4-Φ19	5	10
	4 6 8	356	311	149	Φ60	140	18	53	225	4-Φ18.5	Φ400	Φ350	Φ450	4-Φ19	5	11
250M	2	406	349	168	Φ60	140	18	53	250	4-Φ24	Φ500	Φ450	Φ550	4-Φ19	5	11
	4 6 8	406	349	168	Φ65	140	18	58	250	4-Φ24	Φ500	Φ450	Φ550	4-Φ19	5	11
280S	2	457	368	190	Φ65	140	18	58	280	4-Φ24	Φ500	Φ450	Φ550	4-Φ19	5	11
	4 6 8	457	368	190	Φ75	140	20	67.5	280	4-Φ24	Φ500	Φ450	Φ550	4-Φ19	5	12
280M	2	457	419	190	Φ65	140	18	58	280	4-Φ24	Φ500	Φ450	Φ550	4-Φ19	5	11
	4 6 8	457	419	190	Φ75	140	20	67.5	280	4-Φ24	Φ500	Φ450	Φ550	4-Φ19	5	12
315S	2	508	406	216	Φ65	140	18	58	315	4-Φ28	Φ600	Φ550	Φ660	4-Φ24	6	11
	4 6 8	508	406	216	Φ80	170	22	71	315	4-Φ28	Φ600	Φ550	Φ660	4-Φ24	6	14
315M	2	508	457	216	Φ65	140	18	58	315	4-Φ28	Φ600	Φ550	Φ660	4-Φ24	6	11
	4 6 8	508	457	216	Φ80	170	22	71	315	4-Φ28	Φ600	Φ550	Φ660	4-Φ24	6	14
315L	2	508	508	216	Φ65	140	18	58	315	4-Φ28	Φ600	Φ550	Φ660	4-Φ24	6	11
	4 6 8	508	508	216	Φ80	170	22	71	315	4-Φ28	Φ600	Φ550	Φ660	4-Φ24	6	14
355M	2	610	560	254	Φ75	140	20	67.5	355	6-Φ28	Φ740	Φ680	Φ800	4-Φ24	6	12
	4 6 8	610	560	254	Φ95	170	25	86	355	6-Φ28	Φ740	Φ680	Φ800	4-Φ24	6	14
355L	2	610	630	254	Φ75	140	20	67.5	355	6-Φ28	Φ740	Φ680	Φ800	4-Φ24	6	12
	4 6 8	610	630	254	Φ95	170	25	86	355	6-Φ28	Φ740	Φ680	Φ800	4-Φ24	6	14

FRAME SIZE 160~355 – B35 MOUNTING DIMENSIONS (IE2 / IE3 EFFICIENCY) – CAST IRON



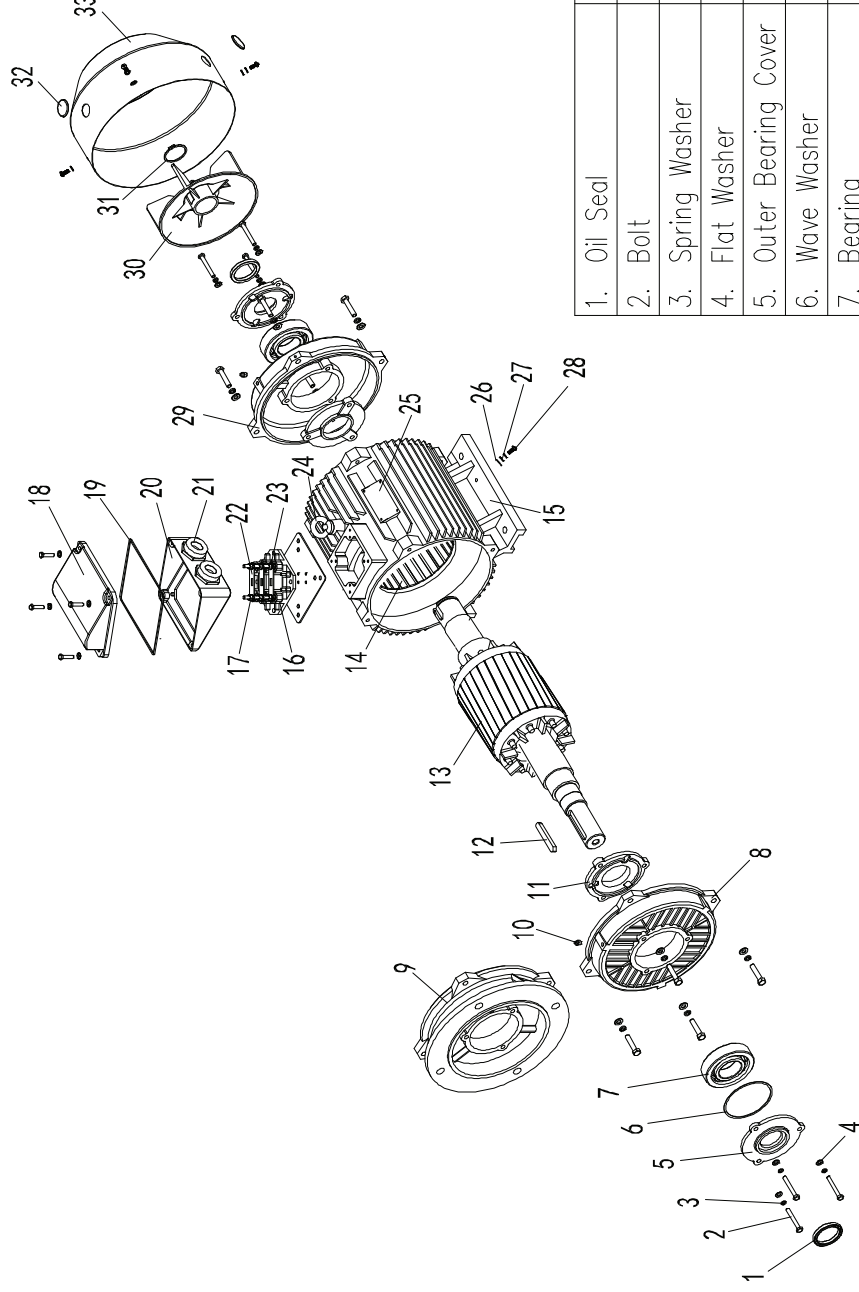
Size 160~200 (B35 Flange)

Size 225~355 (B35 Flange)

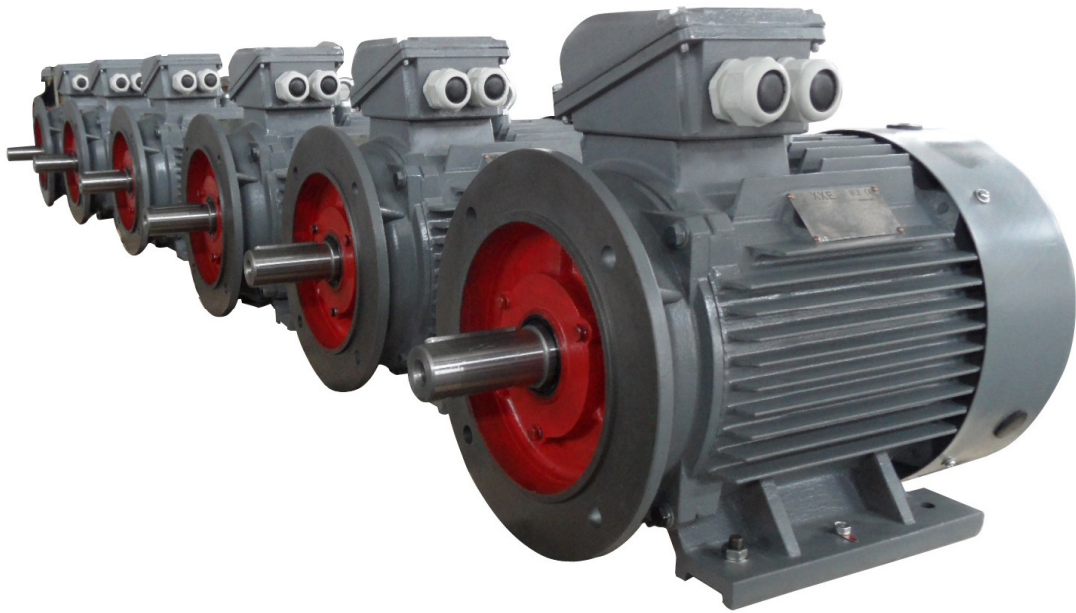
Frame size 160~355 (B35)

Frame Size	Poles	Cable Gland		B35 Outline Dimensions (mm)								
		CG	CF	AB	AE	AC	LD	LE	HA	AD	DB	L
160M	2 4 6 8	2-M40x1.5	1-M16x1.5	314	Φ200	Φ314	224	64	20	251	M16x36	608
160L	2 4 6 8	2-M40x1.5	1-M16x1.5	314	Φ200	Φ314	224	64	20	251	M16x36	652
180M	2 4 8	2-M40x1.5	1-M16x1.5	349	Φ240	Φ355	239	64	22	267	M16x36	688
180L	4 6 8	2-M40x1.5	1-M16x1.5	349	Φ240	Φ355	239	64	22	267	M16x36	726
200L	2 4 6 8	2-M50x1.5	1-M16x1.5	388	Φ245	Φ397	256	80	25	299	M20x42	779
225S	4 8	2-M50x1.5	1-M16x1.5	431	Φ260	Φ446	289	80	28	322	M20x42	824
225M	2	2-M50x1.5	1-M16x1.5	431	Φ260	Φ446	259	80	28	322	M20x42	819
	4 6 8	2-M50x1.5	1-M16x1.5	431	Φ260	Φ446	289	80	28	322	M20x42	849
250M	2	2-M63x1.5	1-M16x1.5	484	Φ275	Φ485	305	84	30	358	M20x42	910
	4 6 8	2-M63x1.5	1-M16x1.5	484	Φ275	Φ485	305	84	30	358	M20x42	910
280S	2	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	982
	4 6 8	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	982
280M	2	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	1033
	4 6 8	2-M63x1.5	1-M16x1.5	542	Φ306	Φ547	314	84	35	387	M20x42	1033
315S	2	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	355	84	45	527	M20x42	1194
	4 6 8	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	385	84	45	527	M20x42	1224
315M	2	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	355	84	45	527	M20x42	1304
	4 6 8	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	385	84	45	527	M20x42	1334
315L	2	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	355	84	45	527	M20x42	1304
	4 6 8	2-M63x1.5	1-M16x1.5	628	Φ400	Φ620	385	84	45	527	M20x42	1334
355M	2	2-M63x1.5	1-M16x1.5	726	/	Φ698	372	84	52	642	M20x50	1486
	4 6 8	2-M63x1.5	1-M16x1.5	726	/	Φ698	402	84	52	642	M24x50	1516
355L	2	2-M63x1.5	1-M16x1.5	726	/	Φ698	372	84	52	642	M20x50	1486
	4 6 8	2-M63x1.5	1-M16x1.5	726	/	Φ698	402	84	52	642	M24x50	1516

EXPLODED CAST IRON MOTOR (Y-IE2-160~355 / Y-IE3-160~355)



1. Oil Seal	12. Key	23. Brass Washer
2. Bolt	13. Rotor	24. Eyebolt
3. Spring Washer	14. Stator	25. Nameplate
4. Flat Washer	15. Cast Iron Frame	26. Earthing Mark
5. Outer Bearing Cover	16. Terminal Board	27. Serrated Washer
6. Wave Washer	17. Brass Lug	28. Earthing Screw
7. Bearing	18. Terminal Box Lid	29. Rear Endshield
8. Front Endshield	19. Gasket	30. Fan
9. Flange	20. Terminal Box Base	31. Fan Clamp
10. Grease Nipple	21. Cable Gland	32. Grease Nipple Plug
11. Inner Bearing Cover	22. Brass Lug	33. Fan Cowl



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