

HYOSUNG SUPREME MOTOR

Reliability 1st Induction Motor

Hyosung Supreme Motor has the robust structure with high quality materials and durable bearings.

Hyosung Supreme Motor can enhance the reliability of rotating machines and also save the maintenance cost.



Korea's No.1 electric motor manufacturer

Hyosung is a professional manufacturer of electric motors, meeting IEC, NEMA, KS, and JIS standard. It has systemized manufacturing facilities to produce more than 40,000 units monthly such as low voltage to medium & high voltage, IE1 to IE4, explosion-proof, DC and synchronous motors, which are optimized for various purposes and customers.

Hyosung is also providing high-speed industrial generators, gears, geared motors and other industrial equipment. Hyosung's high-quality products are widely used in steel, oil & gas, cement, power, water treatment, agriculture, HVAC, and etc.

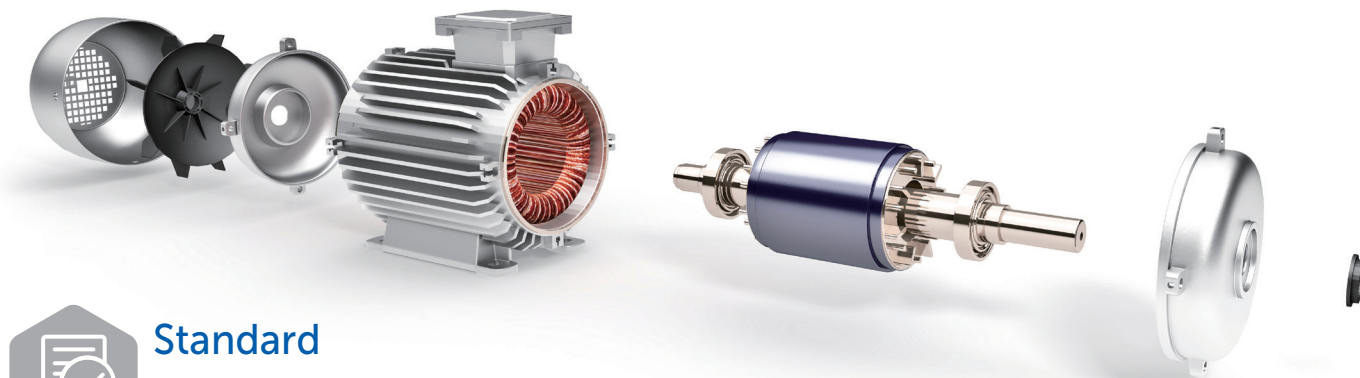
Always by your side

Hyosung works in a variety of industrial and technology areas that make your lifestyle more convenient and more comfortable such as spandex, tire codes, ATM, films, plastic, power transmission. You may not know us, but we are always working for you.

Performance Data

Rated Power (kW)	Speed (RPM)	Frame Size	Rated Current (A)			Efficiency at load (%)			Power Factor at Load (%)			Starting Current (%FLC)	Rated Torque (Nm)	Starting Torque (%FLT)	Break down Torque (%FLT)	Pullup Torque (%FLT)	Moment (kgm ²)	Weight B3 (kg)
			380V	400V	415V	100%	75%	50%	100%	75%	50%							
0.75	2845	80M	1.8	1.7	1.7	77.4	76.4	74.4	80	75	65	870	2.5	240	280	225	0.5	15
	1425	80M	1.9	1.9	1.8	79	78	76	74	69	59	700	5.0	180	240	165	2.3	15
	945	90L	2.5	2.4	2.3	72	71	69	63.5	58.5	48.5	550	7.6	170	210	155	6.4	24
1.1	2805	80M	2.6	2.5	2.4	77	76	74	82	77	67	800	3.7	250	300	235	0.5	15
	1400	90L	2.8	2.6	2.6	75	74	72	80	75	65	650	7.5	140	180	125	2.3	24
	940	90L	3.1	2.9	2.8	78.1	77.1	75.1	70	65	55	600	11	160	210	145	5.9	24
1.5	2885	90L	3.2	3.1	3.0	78	77	75	90	85	75	700	5.0	210	260	195	1.0	24
	1430	90L	4.0	3.8	3.7	77.2	76.2	74.2	74	69	59	750	10	180	230	165	4.0	24
	942	100L	4.3	4.1	4.0	80	79	77	66	61	51	650	15	200	260	185	10	30
2.2	2860	90L	4.9	4.7	4.5	83.2	82.2	80.2	82	77	67	900	7.3	210	250	195	2.2	24
	1390	100L	5.0	4.7	4.6	80	79	77	84	79	69	650	15	200	240	185	6.4	30
	940	112M	6.1	5.8	5.6	79	78	76	69	64	54	600	22	140	200	125	14.2	39
3	2860	100L	6.6	6.3	6.0	81.5	80.5	78.5	85	80	70	800	10	170	230	155	1.2	30
	1425	100L	6.9	6.6	6.3	85.5	84.5	82.5	77	72	62	880	20	270	320	255	6.4	30
	960	132S	6.9	6.5	6.3	83	82	80	80	75	65	600	30	150	200	135	14.2	56
4	2905	112M	8.3	7.9	7.6	85.8	84.8	82.8	85	80	70	790	13	220	280	205	2.2	39
	1430	112M	9.4	8.9	8.6	83.1	82.1	80.1	78	73	63	800	27	180	230	165	10.5	39
	965	112M	9.7	9.2	8.9	81.4	80.4	78.4	77	72	62	650	40	130	180	115	23.7	39
5.5	2920	132S	12	11	11	86.5	85.5	83.5	81.5	76.5	66.5	850	18	210	260	195	4.6	56
	1455	132S	13	12	11	85	84	82	78	73	63	700	36	200	250	185	16.8	56
	870	132M	13	13	12	87	86	84	72	67	57	750	60	210	260	195	39.7	70
7.5	2880	132S	17	16	15	86	85	83	80	75	65	800	25	160	240	145	5.8	56
	1440	132M	17	16	16	87	86	84	77	72	62	700	50	170	220	155	23.2	70
	965	160M	19	18	17	87.2	86.2	84.2	70	65	55	550	74	160	200	145	39.7	109
11	2915	160M	22	21	20	88	87	85	85	80	70	700	36	150	200	135	6.2	109
	1470	160M	24	23	22	88.5	87.5	85.5	78	73	63	800	71	190	240	175	27.6	109
	960	160L	25	24	23	86.4	85.4	83.4	76	71	61	750	109	180	230	165	61.7	136
15	2930	160M	31	29	28	89.5	88.5	86.5	83	78	68	900	49	200	250	185	9.9	109
	1470	160L	33	31	30	90	89	87	77	72	62	750	97	240	290	225	54.9	136
	980	180L	37	35	33	87.7	86.7	84.7	71	66	56	770	146	275	300	260	112.7	182
18.5	2920	160L	36	35	33	90.9	89.9	87.9	85	80	70	740	60	190	270	175	14.3	136
	1465	180M	39	37	36	90.2	89.2	87.2	79	74	64	650	120	170	220	155	58.8	161
	970	180L	42	40	38	89.5	88.5	86.5	75	70	60	700	182	150	200	135	170.2	182
22	2945	180M	42	40	39	91	90	88	87	82	72	900	71	180	230	165	17.1	161
	1470	180L	46	44	42	89.9	88.9	86.9	81	76	66	750	143	150	190	135	71.1	182
	980	200L	51	48	46	89.2	88.2	86.2	74	69	59	800	214	180	210	165	190.8	295
30	2945	200L	58	55	53	90.7	89.7	87.7	87	82	72	870	97	130	200	115	18.3	280
	1465	200L	60	57	55	90.7	89.7	87.7	83	78	68	700	195	130	180	115	75.9	295
	980	225S	65	61	59	90.2	89.2	87.2	78	73	63	800	292	170	220	155	267.7	365
37	2945	200L	71	67	65	91.2	90.2	88.2	87	82	72	900	120	150	220	135	22.5	280
	1470	225S	76	72	70	91.2	90.2	88.2	81	76	66	820	240	150	180	135	101.9	365
	985	250M	80	76	74	90.8	89.8	87.8	77	72	62	850	359	150	190	135	368.9	550
45	2945	225S	82	78	75	92.9	91.9	89.9	90	85	75	780	146	150	220	135	22.9	365
	1470	225S	90	85	82	91.7	90.7	88.7	83	78	68	800	292	150	200	135	105.7	365
	985	280S	97	92	89	91.4	90.4	88.4	77	72	62	900	436	160	230	145	468.7	690
55	2970	250M	107	101	98	92.1	91.1	89.1	85	80	70	950	177	150	200	135	26.3	550
	1480	250M	109	104	100	92.1	91.1	89.1	83	78	68	820	355	130	200	115	128.1	550
	980	280M	114	108	104	91.9	90.9	88.9	80	75	65	900	536	150	210	135	522.1	810
75	2970	280S	135	128	124	93.8	92.8	90.8	90	85	75	700	241	110	240	95	42.2	690
	1480	280S	145	137	132	92.7	91.7	89.7	85	80	70	800	484	150	200	135	265.3	690
	980	315S	154	146	141	92.6	91.6	89.6	80	75	65	700	730	120	200	105	588.3	1090
90	2970	280M	169	161	155	93	92	90	87	82	72	750	289	100	200	85	47.1	810
	1480	280M	177	168	162	93	92	90	83	78	68	820	580	130	180	115	295.1	810
	985	315M	184	175	168	92.9	91.9	89.9	80	75	65	850	872	170	200	155	724.2	1090
110	2970	315S	206	196	188	93.3	92.3	90.3	87	82	72	750	353	100	180	85	56.9	1090
	1480	315S	211	200	193	93.3	92.3	90.3	85	80	70	820	709	140	190	125	362.6	1090
	985	315L	213	203	195	93.3	92.3	90.3	84	79	69	650	1066	120	180	105	743	1580
132	2975	315M	244	232	223	93.5	92.5	90.5	88	83	73	800	423	120	180	105	56.9	1090
	1480	315M	252	240	231	93.5	92.5	90.5	85	80	70	820	851	130	180	115	362.6	1090
	992	315L	265	252	242	93.5	92.5	90.5	81	76	66	750	1270	140	200	125	743	1580
160	2980	315L	279	265	256	94.2	93.9	92.7	89	86	80	700	514	190	240	95	66.9	1580
	1480	315L	301	286	276	93.8	92.8	90.8	86	81	71	700	1032	110	170	95	518.8	1580
	990	315L	291	276	266	93.9	93.6	88.0	88	84	76	700	1543	150	180	105	1040.2	1580

Special Features



Standard

Hyosung Reliability 1st motors comply with the relevant parts of EN60034, IEC60072.



High-quality Insulation

The Hyosung motors windings are rated to class F (155 °C) with a class B (130 °C) temperature rise. Hyosung Ultra Insulation® technology protects windings and extends the life of motors.



Robust Bearing

Hyosung only uses the world's leading bearing brand (Japanese, German) that can sustain some axial & radial loads to have lower friction, noise and vibration.



Low Vibration

The combination of precision manufacturing, high-end components and quality control makes the low vibration.



Mounting

Foot Mounted(B3), Flange mounted(B5), Foot Mounted with Flange(B35) and other mounting can be supplied by optional requests.



Genuine IP55

Hyosung genuine IP55 enclosures that demonstrate almost complete protection from particles and a good level of protection against water.



Coating

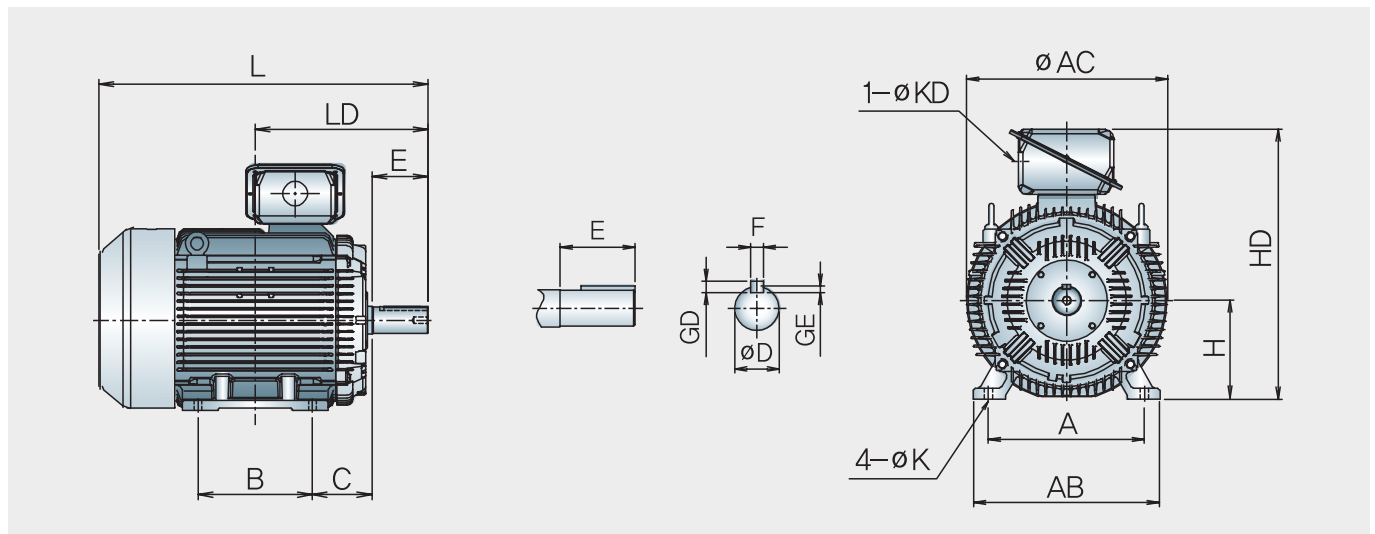
Hyosung paint color for motors is Munsell No. 0.5PB 3.2/4.4. Castings are coated with quality primer and urethane top coat. The dry film thickness of top coat is approximately 100 µm.

General Specifications

Item	Specification
Frame material	Cast Iron (Fan hood : Steel)
Enclosure	TEFC
IP	55
Voltage	Up to 2.2kW : 220/240V(Δ), 380/415V(Y) From 3.0kW : 380/415V(Δ), 660/690(Y)
Frequency	50Hz
Insulation	Class F
Temperature rising	Class B
Bearing brand	NSK (Japan), FAG (Germany)
Re-greasing	From 200 Fr
Thermistors	80 to 355 Fr. with 3 X Thermistors (Optional)
Paint	Munsell 0.5PB 3.2/4.4



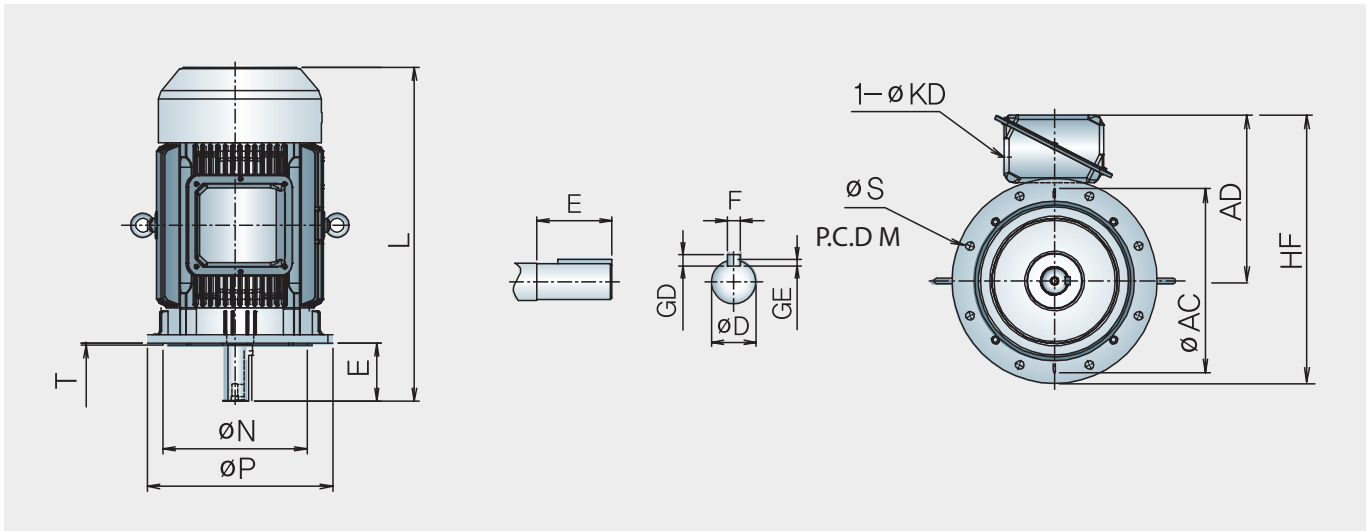
Outline Drawing & Dimension



Foot mounted type (B3)

Unit: mm

Output Power (kW)			Frame No.	General Dimension								Hole		Shaft Dimension						Bearing	
2P	4P	6P		A	AB	øAC	B	C	H	HD	L	øK	øKD	øD	E	F	GD	GE	DE	NDE	
0.75 / 1.1	0.75	-	80M	125	150	174	100	50	80	254	273	10	1-M25	19	40	6	6	3.5	6204ZZ	6203ZZ	
1.5	1.1	0.75	90S	140	167	199	100	56	90	274	315	10	1-M25	24	50	8	7	4	6205ZZ	6204ZZ	
2.2	1.5	1.1	90L	140	167	199	125	56	90	274	335	10	1-M25	24	50	8	7	4	6205ZZ	6204ZZ	
3	2.2 / 3	1.5	100L	160	196	220	140	63	100	295	372	12	1-M32	28	60	8	7	4	6206ZZ	6205ZZ	
4	4	2.2	112M	190	226	244	140	70	112	315	377	12	1-M32	28	60	8	7	4	6206ZZ	6205ZZ	
5.5 / 7.5	5.5	3	132S	216	264	284	140	89	132	355	480	12	1-M32	38	80	10	8	5	6208ZZ	6206ZZ	
-	7.5	4 / 5.5	132M	216	264	284	178	89	132	355	480	12	1-M32	38	80	10	8	5	6208ZZ	6206ZZ	
11 / 15	11	7.5	160M	254	311	326	210	108	160	465	585	15	1-M40	42	110	12	8	5	6309ZZ	6307ZZ	
18.5	15	11	160L	254	311	326	254	108	160	455	630	15	1-M40	42	110	12	8	5	6309ZZ	6307ZZ	
22	18.5		180M	279	353	374	241	121	180	505	655	15	1-M40	48	110	14	9	5.5	6311ZZ	6209ZZ	
-	22	15	180L	279	353	374	279	121	180	520	685	15	1-M40	48	110	14	10	6	6212ZZ	6212ZZ	
30 / 37	-	-	200L	318	382	404	305	133	200	550	780	19	1-M50	55	110	16	10	6	6212ZC3	6212ZC3	
-	30	18.5 / 22	200L	318	382	404	305	133	200	550	780	19	1-M50	55	110	16	10	6	6313ZC3	6212ZC3	
-	37	-	225S	356	426	457	286	149	225	685	825	19	1-M50	60	140	18	11	7	6312C3	6312C3	
45	-	-	225M	356	435	457	311	149	225	685	820	19	1-M50	55	110	16	10	6	6312C3	6312C3	
-	45	30	225M	356	435	457	311	149	225	685	845	19	1-M50	60	140	18	11	7	6314C3	6312C3	
55	-	-	250M	406	500	512	349	168	250	730	910	24	1-M63	60	140	18	10	6	6313C3	6313C3	
-	55	37	250M	406	500	512	349	168	250	730	940	24	1-M63	65	140	18	12	7.5	6313C3	6313C3	
75	-	-	280S	457	550	578	368	190	280	810	1000	24	1-M63	65	140	18	10	6	6316C3	6316C3	
-	75	45	280S	457	550	578	368	190	280	810	1060	24	1-M63	75	140	20	14	9	6319C3	6316C3	
90	-	-	280M	457	550	578	419	190	280	810	1055	24	1-M63	65	140	18	10	6	6316C3	6316C3	
-	90	55	280M	457	550	578	419	190	280	810	1115	24	1-M63	75	140	20	14	9	6319C3	6316C3	
110	-	-	315S	508	628	578	406	216	315	845	1235	28	1-M63	65	140	18	12	7.5	6316C3	6316C3	
-	110	75	315S	508	628	578	406	216	315	845	1265	28	1-M63	80	170	22	14	9	6222C3	6316C3	
132	-	-	315M	508	628	578	457	216	315	845	1235	28	1-M63	65	140	18	12	7.5	6316C3	6316C3	
-	132	90	315M	508	628	578	457	216	315	845	1265	28	1-M63	80	170	22	14	9	6222C3	6316C3	
160 / 200	-	-	315L	508	628	578	508	216	315	1110	1695	28	1-M63	65	140	18	12	7.5	6316C3	6316C3	
-	160 / 200	110 / 132	315L	508	628	578	508	216	315	1106	1515	28	1-M63	80	170	22	14	9	6222C3	6316C3	
-	-	160 / 200	315L	508	628	578	508	216	315	1106	1515	28	1-M63	80	170	22	14	9	6222C3	6316C3	



Flange mounted type (B5)

Unit: mm

Output Power (kW)			Frame No.	Flange Dimension							Hole		Shaft Dimension					Bearing	
2P	4P	6P		M	ØN	ØP	T	ØAC	AD	L	ØS	ØKD	ØD	E	F	GD	GE	DE	NDE
0.75 / 1.1	0.75	-	80M	165	130	200	3.5	174	165	299	12	1-M25	19	40	6	6	3.5	6204ZZ	6203ZZ
1.5	1.1	0.75	90S	165	130	200	3.5	199	175	335	12	1-M25	24	50	8	7	4	6205ZZ	6204ZZ
2.2	1.5	1.1	90L	165	130	200	3.5	199	175	367	12	1-M25	24	50	8	7	4	6205ZZ	6204ZZ
3	2.2 / 3	1.5	100L	215	180	250	4	220	199	406	15	1-M32	28	60	8	7	4	6206ZZ	6205ZZ
4	4	2.2	112M	215	180	250	4	244	216	394	15	1-M32	28	60	8	7	4	6206ZZ	6205ZZ
5.5 / 7.5	5.5	3	132S	265	230	300	4	284	235	459	15	1-M32	38	80	10	8	5	6208ZZ	6206ZZ
-	7.5	4 / 5.5	132M	265	230	300	4	284	235	497	15	1-M32	38	80	10	8	5	6208ZZ	6206ZZ
11 / 15	11	7.5	160M	300	250	350	5	334	300	584	19	1-M40	42	110	12	8	5	6309ZZ	6307ZZ
18.5	15	11	160L	300	250	350	5	334	300	628	19	1-M40	42	110	12	8	5	6309ZZ	6307ZZ
22	18.5	-	180M	300	250	350	5	364	325	654	19	1-M40	48	110	14	9	5.5	6311ZZ	6209ZZ
-	22	15	180L	300	250	350	5	374	316	706	19	1-M40	48	110	16	10	6	6212ZZ	6212ZZ
30 / 37	-	-	200L	350	300	400	5	404	370	780	19	1-M50	55	110	16	10	6	6212ZC3	6212ZC3
-	30	18.5 / 22	200L	350	300	400	5	404	370	780	19	1-M50	55	110	16	10	6	6313ZC3	6212ZC3
-	37	-	225S	400	350	450	5	457	395	795	19	1-M50	60	140	18	12	7.5	6312C3	6312C3
45	-	-	225M	400	350	450	5	457	395	815	19	1-M50	55	110	16	10	6	6312C3	6312C3
-	45	30	225M	400	350	450	5	457	395	815	19	1-M50	60	140	18	12	7.5	6314C3	6312C3
55	-	-	250M	500	450	550	5	512	450	910	19	1-M63	60	140	18	12	7.5	6313C3	6313C3
-	55	37	250M	500	450	550	5	512	450	940	19	1-M63	65	140	18	12	7.5	6313C3	6313C3
75	-	-	280S	500	450	550	5	578	520	1000	19	1-M63	65	140	18	12	7.5	6316C3	6316C3
-	75	45	280S	500	450	550	5	578	520	1060	19	1-M63	75	140	20	12	7.5	6319C3	6316C3
90	-	-	280M	500	450	550	5	578	520	1055	19	1-M63	65	140	18	12	7.5	6316C3	6316C3
-	90	55	280M	500	450	550	5	578	520	1115	19	1-M63	75	140	20	12	7.5	6319C3	6316C3
110	-	-	315S	600	550	660	6	578	520	1235	24	1-M63	65	140	18	12	7.5	6316C3	6316C3
-	110	75	315S	600	550	660	6	578	520	1265	24	1-M63	80	170	22	14	9	6222C3	6316C3
132	-	-	315M	600	550	660	6	578	520	1235	24	1-M63	65	140	18	12	7.5	6316C3	6316C3
-	132	90	315M	600	550	660	6	578	520	1265	24	1-M63	90	170	25	14	9	6222C3	6316C3
160 / 200	-	-	315L	600	550	660	6	660	795	1695	24	1-M63	65	140	18	12	7.5	6316C3	6316C3
-	160 / 200	110 / 132	315L	600	550	660	6	660	795	1515	24	1-M63	90	170	25	14	9	6222C3	6316C3
-	-	160 / 200	315L	600	550	660	6	660	795	1515	24	1-M63	90	170	25	14	9	6222C3	6316C3

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