

GENERAL MOTORS
THREE PHASE INDUCTION MOTORS



CE



WE ASSURE THE QUALITY OF OUR PRODUCTS

QUALITY ASSURANCE

We attaches great importance to product quality and always adheres to the production and management philosophy of "integrity, win-win, focus and innovation". At the same time, we have constantly increased staff training, established a complete quality assurance system, strictly controlled each link, and fully guaranteed the quality of products

PRODUCT OVERVIEW



FEATURES

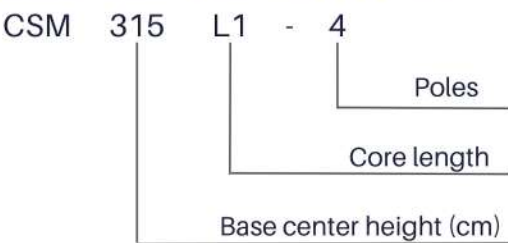
CSM electric motors are totally enclosed and fan cooled (TEFC), three-phase squirrel cage induction motors, developed with newer technique. The mounting dimension is conformed with the relevant requirements of IEC standards.

CSM electric motors have the merits of beautiful modeling, compact structure, low noise, high efficiency, lage starting torque, easy serving, etc. This models are widely used in many places, such as drilling machines, pumps, fans. mixer, transport machines, food machines, agriculture machines and equipment, etc.

OPERATING CONDITION

- Ambient temperature : $-15^{\circ}\text{C} \leq 0 \leq 40^{\circ}\text{C}$
- Altitude : Not exceeding 1000 m
- Rated voltage : 380 V
- Rated Frequency : 50 Hz
- Protection class : IP55
- Insulating class : F
- Cooling method : IC411
- Duty : S1 (continuous)
- Connection : Star-connection up to 3 KW
Delta-connection for 4 KW and above

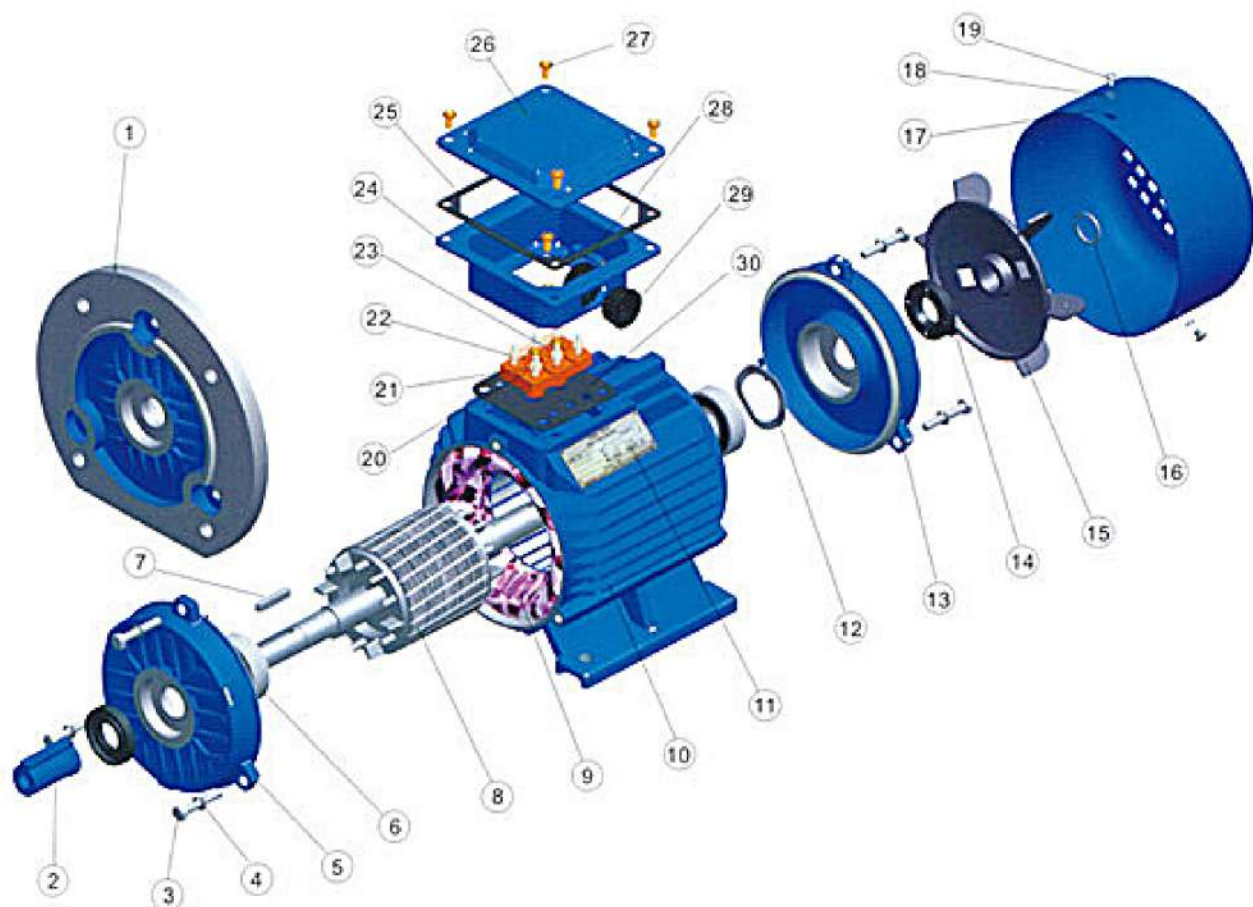
MODEL SPECIFICATION



BEARING SIZE

Frame Size	Poles	Drive-end	Non-drive end	Frame Size	Poles	Drive-end	Non-drive end
80	2,4,6,8	6204 2RSZV3	6204 2RSZV3	225	2,4,6,8	6313 2RS/C3ZV3	6313 2RS/C3ZV3
90	2,4,6,8	6205 2RSZV3	6205 2RSZV3	250	2,4,6,8	6314 2RS/C3ZV3	6314 2RS/C3ZV3
100	2,4,6,8	6206 2RSZV3	6206 2RSZV3	280	2	6314 2RS/C3ZV3	6314 2RS/C3ZV3
112	2,4,6,8	6306 2RSZV3	6306 2RSZV3	280	4,6,8	6317/Z2	6317/Z2
132	2,4,6,8	6208 2RSZV3	6208 2RSZV3	315	2	6316/Z2	6316/Z2
160	2,4,6,8	6209 2RSZV3	6209 2RSZV3	315	4,6,8	6319/Z2	6319/Z2
180	2,4,6,8	6311 2RS/C3ZV3	6311 2RS/C3ZV3	355	2	6319/Z2	6319/Z2
200	2,4,6,8	6212 2RS/C3ZV3	6212 2RS/C3ZV3	355	4,6,8	6322/Z2	6322/Z2

EXPLODED VIEW



1	Flange	11	Name plate	21	Brass net
2	Shaft Cover	12	Wave form	22	Brass lug
3	Bolt	13	Rear endshield	23	Terminal board
4	Spring washer	14	Vring oil seal	24	Terminal box base
5	Front endshield	15	Fan	25	Gasket
6	Bearing	16	Fan clamp	26	Terminal box lid
7	Key	17	Fan cowl	27	Screw
8	Rotor	18	Washer	28	Earth mark
9	Stator	19	Fan cowl screw	29	Jacket
10	Frame	20	Brass washer	30	Leather washer

TECHNICAL DATA

50 Hz Synchronous Speed 3000 rpm (2 poles)

Type	Rated Power		Current (A) 380 V	Speed (rpm)	Eff. (%)	Power Factor (cos)	Locked Current Rated Current	Locked Torque Rated Torque	Max. Torque Rated Torque	Noise dB (A)	Weight (Kg)
	Kw	Hp									
CSM-631-2	0.18	0.24	0.53	2730	65.0	0.80	2.2	5.5	2.2	61	14
CSM-632-2	0.25	0.33	0.69	2725	68.0	0.81	2.2	5.5	2.2	61	14.5
CSM-711-2	0.37	0.5	0.99	2755	70.0	0.81	2.2	6.1	2.2	64	15
CSM-712-2	0.55	0.75	1.40	2790	73.0	0.82	2.2	6.1	2.3	64	15.5
CSM-801-2	0.75	1	1.83	2845	75.0	0.83	2.2	6.1	2.3	67	16.5
CSM-802-2	1.1	1.5	2.55	2840	77.0	0.84	2.2	7.0	2.3	67	17.5
CSM-90S-2	1.5	2	3.39	2840	79.0	0.84	2.2	7.0	2.3	72	21
CSM-90L-2	2.2	3	4.80	2840	81.0	0.85	2.2	7.0	2.3	72	25
CSM-100L-2	3	4	6.31	2860	83.0	0.87	2.2	7.5	2.3	76	33
CSM-112M-2	4	5.5	8.22	2880	85.0	0.88	2.2	7.5	2.3	77	41
CSM-132S1-2	5.5	7.5	11.2	2910	86.0	0.88	2.2	7.5	2.3	80	63
CSM-132S2-2	7.5	10	15.1	2900	87.0	0.88	2.2	7.5	2.3	80	73
CSM-160M1-2	11	15	21.3	2920	88.0	0.89	2.2	7.5	2.3	86	110
CSM-160M2-2	15	20	28.8	2920	89.0	0.89	2.2	7.5	2.3	86	120
CSM-160L-2	18.5	25	34.7	2920	90.0	0.90	2.2	7.5	2.3	86	135
CSM-180M-2	22	30	41.0	2930	90.0	0.90	2.0	7.5	2.3	89	165
CSM-200L1-2	30	40	55.5	2940	91.2	0.90	2.0	7.5	2.3	92	218
CSM-200L2-2	37	50	67.9	2940	92.0	0.90	2.0	7.5	2.3	92	230
CSM-225M-2	45	60	82.1	2960	92.3	0.90	2.0	7.5	2.3	92	280
CSM-250M-2	55	75	100.1	2960	92.5	0.90	2.0	7.5	2.3	93	365
CSM-280S-2	75	100	133.9	2960	93.0	0.90	2.0	7.5	2.3	94	495
CSM-280M-2	90	125	160.2	2960	93.8	0.91	2.0	7.5	2.3	94	565
CSM-315S-2	110	150	195.4	2970	94.0	0.91	1.8	7.1	2.2	96	890
CSM-315M-2	132	180	233.2	2970	94.5	0.91	1.8	7.1	2.2	96	980
CSM-315L1-2	160	220	279.3	2970	94.6	0.92	1.8	7.1	2.2	99	1055
CSM-315L2-2	200	270	347.7	2970	94.8	0.92	1.8	7.1	2.2	99	1253
CSM-355M-2	250	340	432.3	2970	95.3	0.92	1.6	7.1	2.2	103	1650
CSM-355L-2	315	420	543.0	2970	95.6	0.92	1.6	7.1	2.2	103	1834

50 Hz Synchronous Speed 1500 rpm (4 poles)

Type	Rated Power		Current (A) 380 V	Speed (rpm)	Eff. (%)	Power Factor (cos)	Locked Current Rated Current	Locked Torque Rated Torque	Max. Torque Rated Torque	Noise dB (A)	Weight (Kg)
	Kw	Hp									
CSM-631-4	0.12	0.16	0.44	1315	57.0	0.72	2.1	4.4	2.2	52	13
CSM-632-4	0.18	0.24	0.62	1315	60.0	0.73	2.1	4.4	2.2	52	13.5
CSM-711-4	0.25	0.33	0.79	1345	65.0	0.74	2.1	5.2	2.2	55	14
CSM-712-4	0.37	0.5	1.12	1340	67.0	0.75	2.1	5.2	2.2	55	14.5
CSM-801-4	0.55	0.75	1.57	1390	71.0	0.75	2.4	5.2	2.3	58	15
CSM-802-4	0.75	1	2.03	1380	73.0	0.76	2.3	6.0	2.3	58	16
CSM-90S-4	1.1	1.5	2.86	1390	75.0	0.77	2.3	6.0	2.3	61	23
CSM-90L-4	1.5	2	3.70	1390	78.0	0.79	2.3	6.0	2.3	61	25
CSM-100L1-4	2.2	3	5.16	1410	80.0	0.81	2.3	7.0	2.3	64	33
CSM-100L2-4	3	4	6.78	1410	82.0	0.82	2.3	7.0	2.3	64	35
CSM-112M-4	4	5.5	8.82	1435	84.0	0.82	2.3	7.0	2.3	65	41
CSM-132S-4	5.5	7.5	11.7	1445	85.0	0.83	2.3	7.0	2.3	71	65
CSM-132M-4	7.5	10	15.6	1445	87.0	0.84	2.3	7.0	2.3	71	76
CSM-160M-4	11	15	22.3	1450	88.0	0.84	2.2	7.0	2.3	75	118
CSM-160L-4	15	20	30.1	1450	89.0	0.85	2.2	7.5	2.3	75	132
CSM-180M-4	18.5	25	36.5	1460	90.5	0.86	2.2	7.5	2.3	76	164
CSM-180L-4	22	30	43.1	1460	91.0	0.86	2.2	7.5	2.3	76	182
CSM-200L-4	30	40	57.6	1460	92.0	0.86	2.2	7.2	2.3	79	245
CSM-225S-4	37	50	69.9	1470	92.5	0.87	2.2	7.2	2.3	81	258
CSM-225M-4	45	60	84.5	1470	92.8	0.87	2.2	7.2	2.3	81	290
CSM-250M-4	55	75	103.1	1470	93.0	0.87	2.2	7.2	2.3	83	388
CSM-280S-4	75	100	139.6	1470	93.8	0.87	2.2	7.2	2.3	86	510
CSM-280M-4	90	125	166.9	1470	94.2	0.87	2.2	7.2	2.3	86	606
CSM-315S-4	110	150	201	1480	94.5	0.88	2.1	6.9	2.2	93	910
CSM-315M-4	132	180	240.4	1480	94.8	0.88	2.1	6.9	2.2	93	1000
CSM-315L1-4	160	220	287.8	1480	94.9	0.89	2.1	6.9	2.2	97	1055
CSM-315L2-4	200	270	358.6	1480	95.0	0.89	2.1	6.9	2.2	97	1128
CSM-355M-4	250	340	441.9	1480	95.3	0.90	2.1	6.9	2.2	101	1700
CSM-355L-4	315	420	555.1	1480	95.6	0.90	2.1	6.9	2.2	101	1900

TECHNICAL DATA

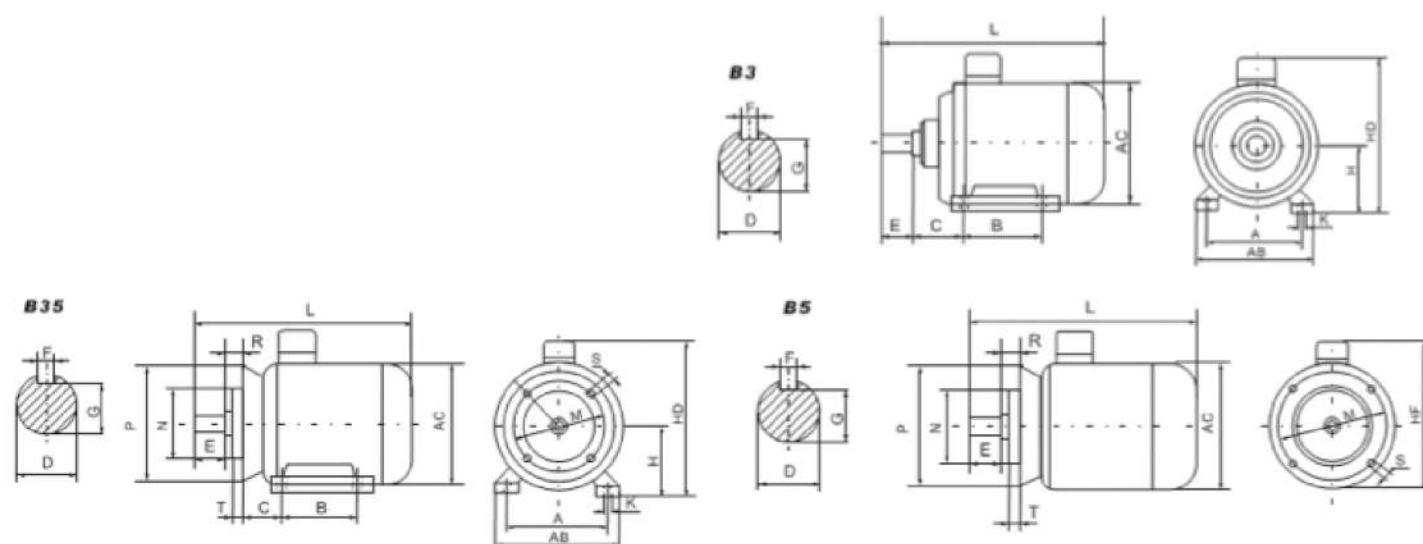
50 Hz Synchronous Speed 1000 rpm (6 poles)

Type	Rated Power		Current (A) 380 V	Speed (rpm)	Eff. (%)	Power Factor (cos)	Locked Current Rated Current	Locked Torque Rated Torque	Max. Torque Rated Torque	Noise dB (A)	Weight (Kg)
	Kw	Hp									
CSM-711-6	0.18	0.24	0.74	860	56.0	0.66	1.9	4.0	2.0	52	14
CSM-712-6	0.25	0.33	0.95	860	59.0	0.68	1.9	4.0	2.0	52	14.5
CSM-801-6	0.37	0.5	1.30	885	62.0	0.70	1.9	4.7	2.0	54	15
CSM-802-6	0.55	0.75	1.79	885	65.0	0.72	1.9	4.7	2.1	54	16
CSM-90S-6	0.75	1	2.26	910	69.0	0.72	2.0	5.5	2.1	57	19
CSM-90L-6	1.1	1.5	3.14	910	72.0	0.73	2.0	5.5	2.1	57	22
CSM-100L-6	1.5	2	3.95	920	76.0	0.75	2.0	5.5	2.1	61	32
CSM-112M-6	2.2	3	5.57	935	79.0	0.76	2.0	6.5	2.1	65	41
CSM-132S-6	3	4	7.40	965	81.0	0.76	2.1	6.5	2.1	69	63
CSM-132M1-6	4	5.5	9.63	965	82.0	0.76	2.1	6.5	2.1	69	72
CSM-132M2-6	5.5	7.5	12.9	965	94.0	0.77	2.1	6.5	2.1	69	81
CSM-160M-6	7.5	10	17.0	970	86.0	0.77	2.0	6.5	2.1	73	118
CSM-160L-6	11	15	24.3	970	87.5	0.78	2.0	6.5	2.1	73	145
CSM-180L-6	15	20	31.6	970	89.0	0.81	2.0	7.0	2.1	73	178
CSM-200L1-6	18.5	25	38.1	970	90.0	0.81	2.1	7.0	2.1	76	200
CSM-200L2-6	22	30	44.5	970	90.0	0.83	2.1	7.0	2.1	76	228
CSM-225M-6	30	40	58.6	970	91.5	0.84	2.0	7.0	2.1	76	265
CSM-250M-6	37	50	71.1	970	92.0	0.86	2.1	7.0	2.1	78	370
CSM-280S-6	45	60	85.9	970	92.5	0.86	2.1	7.0	2.0	80	490
CSM-280M-6	55	75	104.7	970	92.8	0.86	2.1	7.0	2.0	80	540
CSM-315S-6	75	100	141.7	980	93.5	0.86	2.0	7.0	2.0	85	900
CSM-315M-6	90	125	169.5	980	93.8	0.86	2.0	7.0	2.0	85	980
CSM-315L1-6	110	150	206.7	980	94.0	0.86	2.0	6.7	2.0	85	1045
CSM-315L2-6	132	180	244.7	980	94.2	0.87	2.0	6.7	2.0	85	1100
CSM-355M1-6	160	220	291.4	980	94.5	0.88	1.9	6.7	2.0	92	1440
CSM-355M2-6	200	270	363.5	980	94.5	0.88	1.9	6.7	2.0	92	1620
CSM-355L-6	250	340	453.4	980	94.9	0.88	1.9	6.7	2.0	92	1740

50 Hz Synchronous Speed 750 rpm (8 poles)

Type	Rated Power		Current (A) 380 V	Speed (rpm)	Eff. (%)	Power Factor (cos)	Locked Current Rated Current	Locked Torque Rated Torque	Max. Torque Rated Torque	Noise dB (A)	Weight (Kg)
	Kw	Hp									
CSM-801-8	0.18	0.24	0.88	645	51.0	0.61	1.8	3.3	1.9	52	22
CSM-802-8	0.25	0.33	1.15	645	54.0	0.61	1.8	3.3	1.9	52	24
CSM-90S-8	0.37	0.5	1.49	670	62.0	0.61	1.8	4.0	1.9	56	26
CSM-90L-8	0.55	0.75	2.17	670	63.0	0.61	1.8	4.0	2.0	56	28
CSM-100L1-8	0.75	1	2.43	680	71.0	0.67	1.8	4.0	2.0	59	30
CSM-100L2-8	1.1	1.5	2.41	680	73.0	0.69	1.8	5.0	2.0	59	32
CSM-112M-8	1.5	2	4.47	690	75.0	0.69	1.8	5.0	2.0	61	40
CSM-132S-8	2.2	3	6.04	705	78.0	0.71	1.8	6.0	2.0	64	64
CSM-132M-8	3	4	7.90	705	79.0	0.73	1.8	6.0	2.0	64	78
CSM-160M1-8	4	5.5	10.3	710	81.0	0.73	1.9	6.0	2.0	68	105
CSM-160M2-8	5.5	7.5	13.6	710	83.0	0.74	2.0	6.0	2.0	68	115
CSM-160L-8	7.5	10	17.9	710	85.5	0.75	2.0	6.0	2.0	68	145
CSM-180L-8	11	15	25.3	720	87.5	0.76	2.0	6.6	2.0	70	160
CSM-200L-8	15	20	34.1	720	88.0	0.76	2.0	6.6	2.0	73	228
CSM-225S-8	18.5	25	40.6	720	90.0	0.76	1.9	6.6	2.0	73	242
CSM-225M-8	22	30	47.4	720	90.5	0.78	1.9	6.6	2.0	73	265
CSM-250M-8	30	40	63.4	720	91.0	0.79	1.9	6.6	2.0	75	368
CSM-280S-8	37	50	77.2	730	91.5	0.79	1.9	6.6	2.0	75	472
CSM-280M-8	45	60	92.9	730	92.0	0.79	1.9	6.6	2.0	75	538
CSM-315S-8	55	75	111.2	740	92.8	0.81	1.8	6.6	2.0	82	900
CSM-315M-8	75	100	151.3	740	93.0	0.81	1.8	6.6	2.0	82	1000
CSM-315L1-8	90	125	177.8	740	93.8	0.82	1.8	6.6	2.0	82	1005
CSM-315L2-8	110	150	216.8	740	94.0	0.82	1.8	6.4	2.0	82	1118
CSM-355M1-8	132	180	260.2	740	93.7	0.82	1.8	6.4	2.0	90	2000
CSM-355M2-8	160	220	309.9	740	94.2	0.82	1.8	6.4	2.0	90	2150
CSM-355L-8	200	270	386.2	740	94.5	0.84	1.8	6.4	2.0	90	2250

MOUNTING INSTALLATION SIZE AND OVERALL DIMENSION



Frame Size	Installation Size (mm)																Overall Dimension (mm)					
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	HF	L	
63	100	80	40	11	23	4	8.5	63	7	115	95	140	0	10	3	135	130	70	180	130	225	
71	112	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	150	145	80	195	145	250	
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	165	175	145	214	185	295	
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	155	250	195	315	
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	155	250	195	340	
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4	205	215	180	270	245	385	
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4	230	240	190	300	265	400	
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4	270	275	210	345	315	470	
132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4	270	275	210	345	315	510	
160M	254	210	108	42	110	12	3.7	160	15	300	250	350	0	19	5	320	330	255	420	385	615	
160L	254	254	108	42	110	12	37	160	15	300	250	350	0	19	5	320	330	255	420	385	670	
180M	279	241	121	48	110	14	42.5	180	15	300	250	350	0	19	5	355	380	280	455	430	700	
180L	279	279	121	48	110	14	42.5	180	15	300	250	350	0	19	5	355	380	280	455	430	740	
200L	318	305	133	55	110	16	49	200	19	350	300	400	0	19	5	375	420	305	545	480	770	
225S	356	286	149	60	110	18	53	225	19	450	350	450	0	19	5	435	470	335	555	535	815	
225M-2	356	311	149	55	110	16	49	225	19	450	350	450	0	19	5	435	470	335	555	535	820	
225M-4,6,8	356	311	149	60	140	18	53	225	19	450	350	450	0	19	5	435	470	335	555	535	845	
250M-2	406	349	168	60	140	18	53	250	24	500	450	550	0	19	5	490	510	370	615		910	
250M-4,6,8	406	349	168	65	140	18	58	250	24	500	450	550	0	19	5	490	510	370	615		910	
280S-2	457	368	190	65	140	18	58	280	24	500	450	550	0	19	5	550	580	410	680		985	
280S-4,6,8	457	368	190	75	140	20	67.5	280	24	500	450	550	0	19	5	550	580	410	680		985	
280M-2	457	419	190	65	140	18	58	280	24	500	450	550	0	19	5	550	580	410	680		1035	
280M-4,6,8	457	419	190	75	140	20	67.5	280	24	500	450	550	0	19	5	550	580	410	680		1035	
315S-2	508	406	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	530	845		1160	
315S-4,6,8,10	508	406	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	530	845		1270	
315M-2	508	457	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	530	845		1190	
315M-4,6,8,10	508	457	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	530	845		1300	
315L-2	508	508	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	530	845		1190	
315L-4,6,8,10	508	508	216	80	17	22	71	315	28	600	550	660	0	24	6	635	645	530	845		1300	
355M-2	610	560	254	75	140	20	67.5	355	28	740	680	800	0	24	6	730	710	655	1010		1500	
355M-4,6,8,10	610	560	254	95	170	25	86	355	28	740	680	800	0	24	6	730	710	655	1010		1530	
355L-2	610	630	254	75	140	20	67.5	355	28	740	680	800	0	24	6	730	710	655	1010		1500	
355L-4,6,8,10	610	630	254	95	170	25	86	355	28	740	680	800	0	24	6	730	710	655	1010		1530	



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