

MC MY ML SERIES

SINGLE PHASE TEFC ALUMINUM

INDUCTION MOTORS



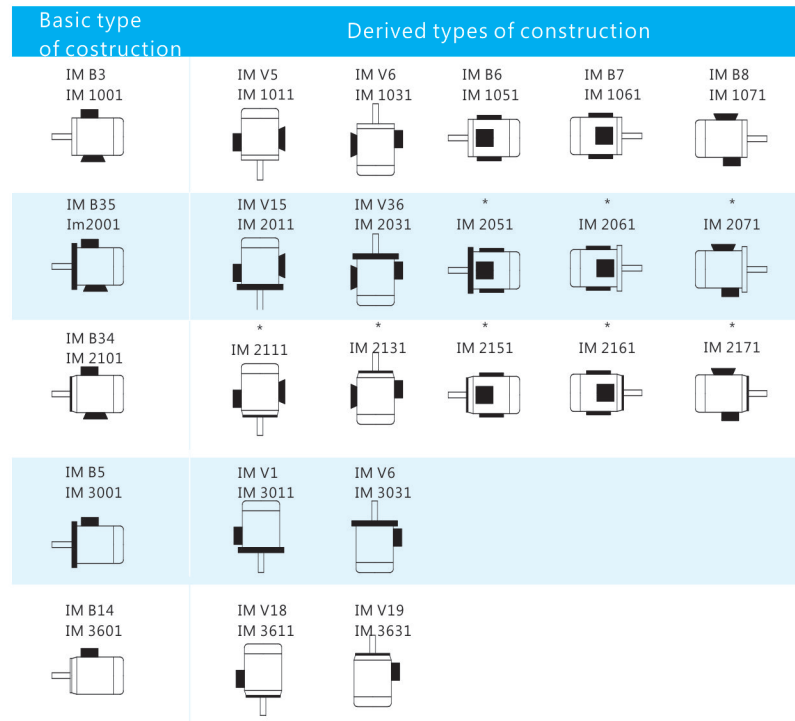
These motors are single phase aluminum motors.
ML is dual capacitors series.
MC is capacitor start series
MY is capacitor run series

ML and MC series are with centrifugal switch, which are suitable for high start torque application like air compressor. MY series is mainly for low start torque application such as fan and pumps.

Characteristics for all WONDER standard single phase asynchronous motors

- Widely applied in general machinery and industries such as pumps & water treatment, road machinery, petroleum, chemical, metallurgy, cement and paper-milling.
- IP55 protection, Class F insulation, B Temperature rise, S1 duty,
- Rated voltage 400V, Rated frequency 50Hz.
- Operation conditions: ambient temperature: -20°C ~ 40°C, altitude ≤ 1000m.
- Cooling method is Ic411.

MOUNTING ARRANGEMENTS



basic types of construction may be used in all derived types of construction

(*)not-defined mounting by IEC 60034-7

1) for the types of construction IM V6, IM B6, IM B8 inquiry is necessary.

MC TECHNICAL SPECIFICATIONS

Output kW	IEC Frame	Rated speed (rpm)	Full load current I _n (A) 220V	Efficiency η% %Of full load	Power Factor cosφ	Locked Rotor Current I _s /I _n	Locked Rotor Torque M _s /M _N	Break Down Torque M _k /M _N	Starting capacitor (250v) μF	Weight (kg)
2-POLES										
0.18	711	2750	1.89	60	0.72	6.3	3.0	1.8	75	6.2
0.25	712	2770	2.4	64	0.74	6.25	3.0	1.8	75	6.3
0.37	801	2800	3.36	65	0.77	6.25	2.8	1.8	100	8.3
0.55	802	2810	4.65	68	0.79	6.24	2.8	1.8	150	9.0
0.75	90S	2820	5.94	70	0.82	6.1	2.5	1.8	200	12.5
1.1	90L	2820	8.37	72	0.83	7.2	2.5	1.8	300	14.0
1.5	100LA	2830	11.1	73	0.84	7.2	2.5	1.8	400	22.5
2.2	100LB	2830	15.7	75	0.85	7.65	2.2	1.8	2×300	25.5
3.0	112M	2840	21.1	76	0.85	7.1	2.2	1.8	2×300	26.0
4-POLES										
0.12	711	1350	1.88	50	0.58	4.8	3.0	1.8	75	6.1
0.18	712	1370	2.49	53	0.62	4.8	2.8	1.8	75	6.7
0.25	801	1400	3.11	58	0.63	4.8	2.8	1.8	100	8.9
0.37	802	1410	4.24	62	0.64	5.0	2.5	1.8	100	9.6
0.55	90S	1420	5.49	66	0.69	5.2	2.5	1.8	150	12.5
0.75	90L	1420	6.87	68	0.73	5.5	2.5	1.8	200	15.0
1.1	100LA	1430	9.52	71	0.74	6.4	2.5	1.8	400	23.0
1.5	100LB	1430	12.5	73	0.75	6.4	2.5	1.8	400	27.0
2.2	112M	1440	17.8	74	0.76	6.8	2.2	1.8	2X300	35.0

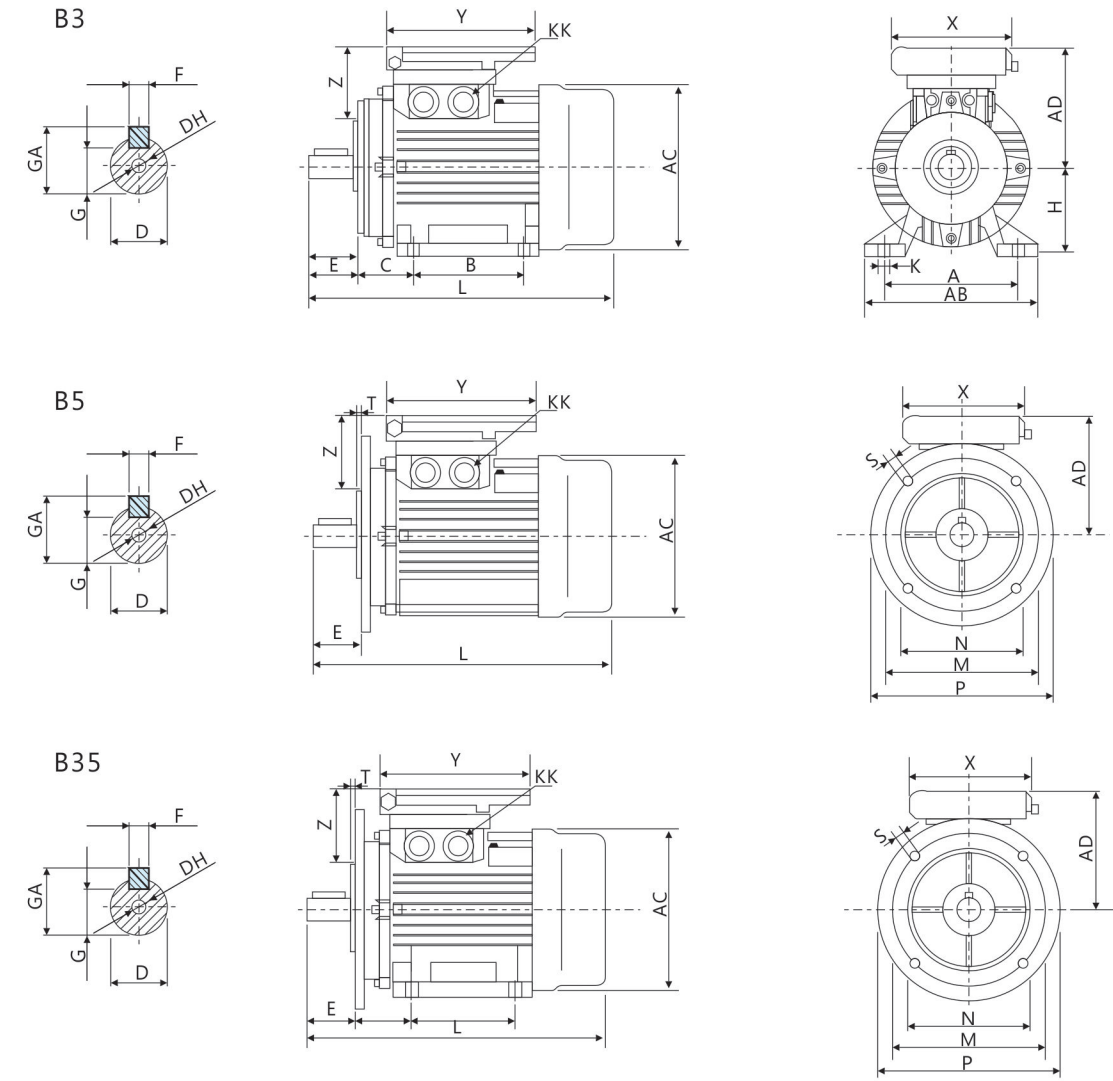
MY TECHNICAL SPECIFICATIONS

Output kW	IEC Frame	Rated speed (rpm)	Full load current I _n (A) 220V	Efficiency η% %Of full load	Power Factor cosφ	Locked Rotor Current I _s /I _n	Locked Rotor Torque M _s /M _N	Break Down Torque M _k /M _N	Starting capacitor (250v) μF	Weight (kg)
2-POLES										
0.09	561	2730	0.79	56	0.92	3.2	0.5	1.7	6	3.2
0.12	562	2730	0.99	60	0.92	3.5	0.5	1.7	6	3.4
0.18	631	2740	1.37	65	0.92	3.7	0.4	1.7	6	3.9
0.25	632	2740	1.87	66	0.92	3.7	0.4	1.7	8	4.4
0.37	711	2750	2.73	67	0.92	3.7	0.35	1.7	12	6.2
0.55	712	2760	3.88	70	0.92	3.9	0.35	1.7	16	6.3
0.75	801	2780	5.15	72	0.92	3.9	0.33	1.7	30	8.3
1.10	802	2790	7.02	75	0.95	4.3	0.33	1.7	35	9.0
1.50	90S	2800	9.44	76	0.95	4.8	0.30	1.7	40	13
2.20	90L	2800	13.7	77	0.95	4.8	0.30	1.7	40	15
4-POLES										
0.06	561	1330	0.61	50	0.90	3.3	0.45	1.7	6	3.2
0.09	562	1340	0.87	52	0.90	2.9	0.45	1.7	6	3.4
0.12	631	1350	1.06	57	0.90	3.2	0.40	1.7	6	4.0
0.18	632	1360	1.54	59	0.90	3.3	0.40	1.7	8	4.5
0.25	711	1370	2.02	61	0.92	3.4	0.35	1.7	12	6.1
0.37	712	1370	2.95	62	0.92	3.4	0.35	1.7	16	7.0
0.55	801	1380	4.25	64	0.92	3.5	0.35	1.7	25	9.5
0.75	802	1380	5.45	68	0.92	3.7	0.32	1.7	30	10
1.10	90S	1390	7.41	71	0.95	4	0.32	1.7	40	13
1.50	90L	1400	9.83	73	0.95	4.6	0.30	1.7	40	16

ML TECHNICAL SPECIFICATIONS

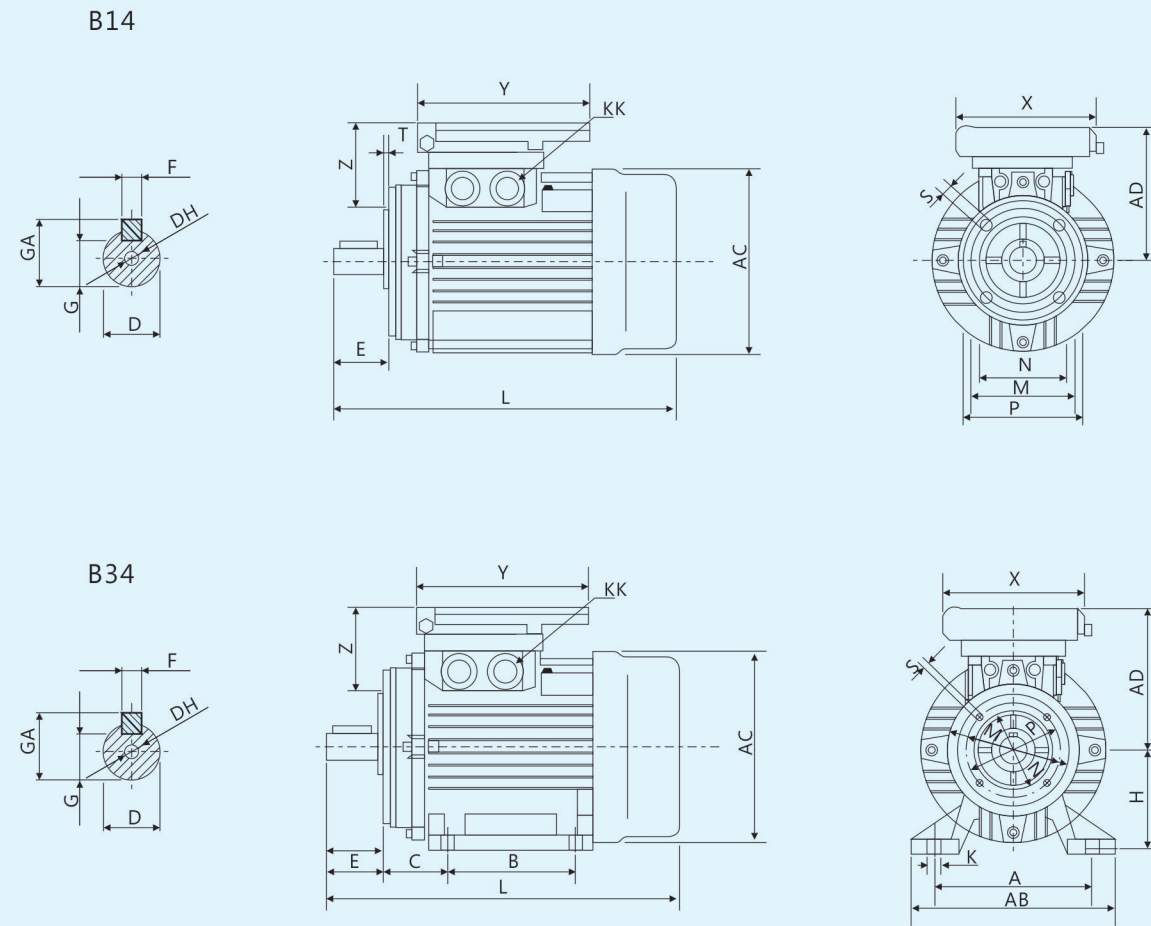
Output kW	IEC Frame	Rated speed (rpm)	Full load current I_n (A) 220V	Efficiency η %	Power Factor $\cos\phi$	Locked Rotor Current I_s/I_n	Locked Rotor Torque M_s/M_N	Break Down Torque M_k/M_N	Capacitor starting (250V) μF	Capacitor Running (450V) μF	Weight (kg)
2-POLES											
0.75	801	2800	4.94	75	0.92	5.7	1.8	1.7	100	25	8.3
1.10	802	2800	6.75	78	0.95	5.6	1.8	1.7	150	25	9.0
1.50	90S	2800	9.2	78	0.95	6.0	1.7	1.7	300	40	12.5
2.20	90L	2800	12.8	82	0.95	6.2	1.7	1.7	300	40	14.0
3.00	100L1	2820	17.3	83	0.95	6.4	1.7	1.7	400	55	20.5
3.7	112M	2820	21.1	83	0.96	6.5	1.7	1.7	400	50	26
4-POLES											
0.55	801	1400	3.88	70	0.92	5.4	1.8	1.7	100	25	8.9
0.75	802	1400	5.22	71	0.92	5.5	1.8	1.7	150	30	9.6
1.10	90S	1400	6.93	76	0.95	5.7	1.7	1.7	200	35	13
1.50	90L	1400	9.2	78	0.95	6.0	1.7	1.7	200	40	16
2.20	100LA	1410	13.2	80	0.95	6.1	1.7	1.7	400	50	23
3.00	100LB	1420	17.3	83	0.95	6.4	1.7	1.7	400	50	27
3.7	112M	1430	21.1	83	0.96	6.5	1.7	1.7	400	50	35

MOUNTING AND OVERALL DIMENSIONS

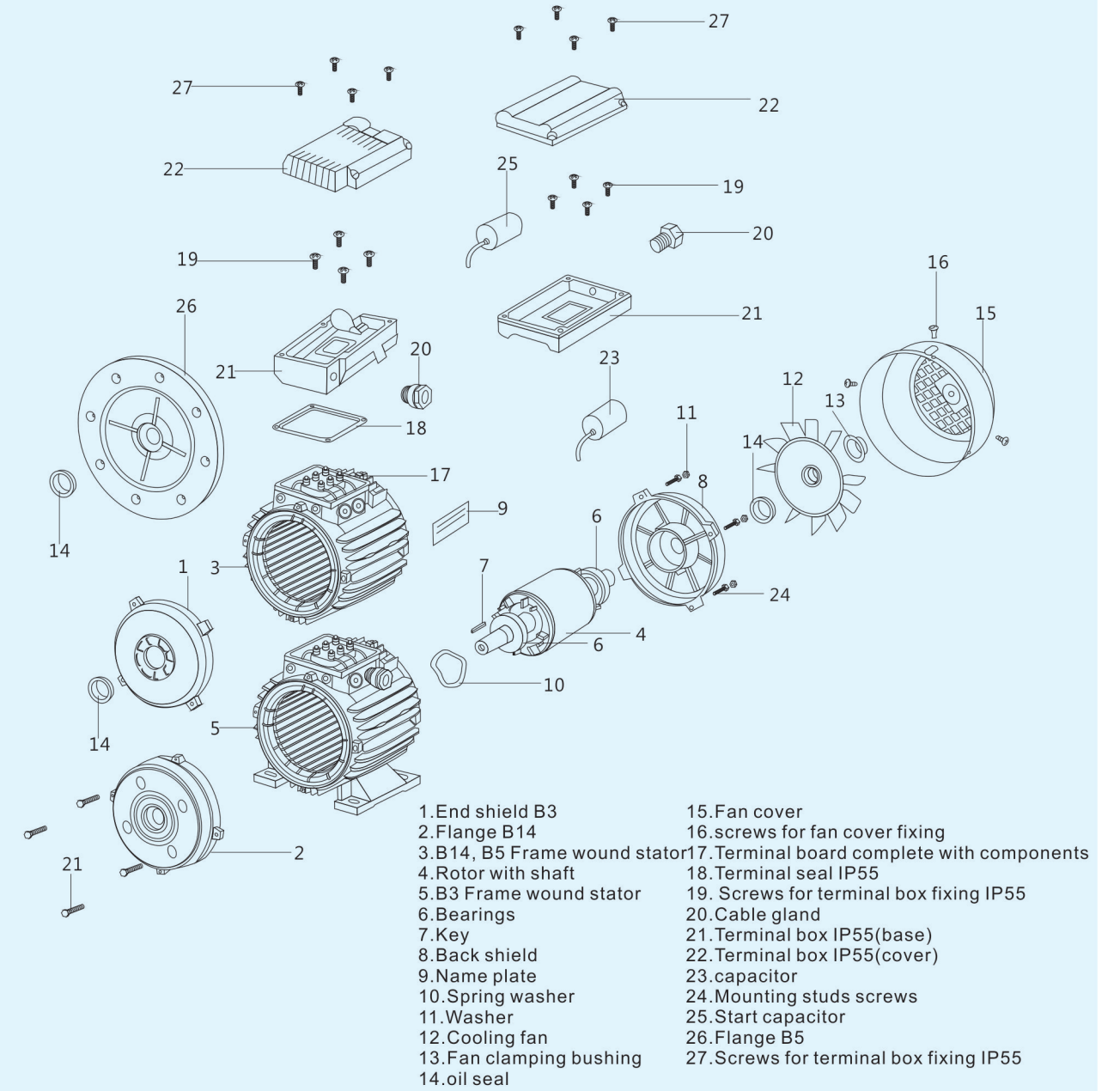


Frame size	Flange size	Mounting dimensions(mm)													Overall dimensions(mm)						XxYxZ(mm)		
		A	AB	AC	AD	B	C	D	DH	E	F	G	H	K	KK	L	M	N	P	S		T	GA
56	FF100	90	110	110	96	71	36	9	M4×12	20	3	7.2	56	7	M18×1.5	193	100	80	120	7	3	10.2	97X124x46
63	FF115	100	122	122	99	80	40	11	M4×12	23	4	8.5	63	7	M18×1.5	218	115	95	140	9	3	12.5	97X124x46
71	FF130	112	136	138	110	90	45	14	M5×12	30	5	11	71	7	M18×1.5	251	130	110	160	9	3.5	16	111X128x50
80	FF165	125	154	157	100	50	19	M6×16	40	6	15.5	80	10	M20×1.5	286	165	130	200	12	3.5	21.5	176X126x68	
90S	FF165	140	174	175	158	100	56	24	M8×19	50	8	20	90	10	M20×1.5	335	165	130	200	12	3.5	27	176X126x68
90L	FF165	140	174	175	158	125	56	24	M8×19	50	8	20	90	10	M20×1.5	350	165	130	200	12	3.5	27	176X126x68
100L	FF215	160	194	196	177	140	63	28	M10×22	60	8	24	100	12	M20×1.5	422	215	180	250	15	4	31	176X126x68
112M	FF215	190	224	220	184	140	70	28	M10×22	60	8	24	112	12	M20×1.5	434	215	180	250	15	4	31	176X126x68

MOUNTING AND OVERALL DIMENSIONS



MOTOR SPARE PART LIST/DRAWING



Frame size	Flange size	Mounting dimensions(mm)											Overall dimensions(mm) X×Y×Z(mm)											
		A	AB	AC	AD	B	C	D	DH	E	F	G	H	R	K	KK	L	M	N	P	S	T	GA	
56	FT65	90	110	110	96	71	36	9	M4×12	20	3	7.2	56	0±1.0	7	M18×1.5	193	65	50	80	M5	3	10.2	97×124×46
63	FT75	100	122	122	99	80	40	11	M4×12	23	4	8.5	63	0±1.0	7	M18×1.5	218	75	60	90	M5	3	12.5	97×124×46
71	FT85	112	136	138	110	90	45	14	M5×12	30	5	11	71	0±1.0	7	M18×1.5	251	85	70	105	M6	3.5	16	111×128×50
80	FT100	125	154	157	152	100	50	19	M6×16	40	6	15.5	80	0±1.5	10	M20×1.5	286	100	80	120	M6	3.5	21.5	176×126×68
90S	FT115	140	174	175	158	100	56	24	M8×19	50	8	20	90	0±1.5	10	M20×1.5	335	115	95	140	M8	3.5	27	176×126×68
90L	FT115	140	174	175	158	125	56	24	M8×19	50	8	20	90	0±1.5	10	M20×1.5	350	115	95	140	M8	3.5	27	176×126×68
100L	FT130	160	194	196	177	140	63	28	M10×22	60	8	24	100	0±1.5	12	M20×1.5	422	130	110	160	M8	4	31	176×126×68
112M	FT130	190	224	220	184	140	70	28	M10×22	60	8	24	112	0±1.5	12	M20×1.5	434	130	110	160	M8	4	31	176×126×68

Frame size	Driving End Bearings	Non driving End Bearings	Oil Seal
56	6201 2RS/C3	6201 2RS/C3	φ 12× φ 22×5
63	6201 2RS/C3	6201 2RS/C3	φ 12× φ 22×7
71	6202 2RS/C3	6202 2RS/C3	φ 15× φ 25×7
80	6204 2RS/C3	6204 2RS/C3	φ 20× φ 30×7
90	6205 2RS/C3	6205 2RS/C3	φ 25× φ 37×7
100	6206 2RS/C3	6206 2RS/C3	φ 30× φ 42×7
112	6206 2RS/C3	6206 2RS/C3	φ 30× φ 42×7