

EXCEL

A.C. Induction Motor

Y2 Series



Excel motors are designed, manufactured and tested to meet the demanding requirements for high efficiency, energy-saving, high performance, low noise and vibration, and high reliability.

STANDARD

Excel motors meet the requirements of output ratings and mounting dimensions of the respective IEC Standards.

Enclosure

Standard protection is IP55

Rating

The Excel motor is suitable for SI continuous rating duty.

Cooling

The form of cooling is Totally Enclosed Fan Ventilated IC 0141.

Mounting

Excel motors can be provided in the mounting positions of B3, B5, B3/B5 + V1.

Insulation

Standard motors are all Class F insulation (140°C)

Direction of Rotation

All standard motors are suitable for operation in either direction of rotation.

ELECTRICAL CONSTRUCTION

Electric Supply

The standard Excel motors are suitable for operation within the voltage range of 380 - 420 volts, 50 Hz 3 Phase supply. Any other spot voltages from 220V to 660V can be made on request.

Starting

Motors up to 2.2 kw are suitable for DOL starting. Larger motors are suitable for DOL and star-delta starting.

Ambient

Standard motors are designed to operate in an ambient temperature of - 10°C to 40°C

Altitude

Standard motors are designed for operation at an altitude not exceeding 1,000m above sea-level.

MECHANICAL CONSTRUCTION

Stator Bodies and End Shields

Stator Bodies and End Shields are cast out of high quality pig-iron for maximum rigidity and robustness.

Cores

Both stator and rotor cores consist of high quality magnetic steel stampings.

Bearings and Shaft

Ball and roller bearings are used, except on the smaller sizes which have ball bearings at both ends. Shafts are machined to extremely fine limits to ensure fit and interchangeability of bearings. The rotor is shrunk-fitted on to the shaft and dynamically balanced.

Terminal Box

The spacious terminal box are mounted on a moulded base and enclosed in a box having a detachable lid. There is a locking device at the threaded conduit entry for cable. The standard position of the terminal box is on the top when looking at the DE of the motor.

Ventilation

The steel fan cover and bi-directional fan provide positive cooling by blowing air along the ribbed stator bodies to ensure quick heat dissipation.

Coating

The motors are cleaned and coated with a rust-proof coating.

Test

All motors passed through a series of stringent testing procedures in the course of manufacture and before preparation for despatch.

Our Policy

Our policy is one of continuous improvement and we reserve the right to alter any details of our products at any time without giving notice.

Performance Data

Excel Cast Iron Frame Type: Cage Rotor, TEFC Enclosure: IP55
 Rating: S1 Supply: 380-420V, 50Hz 3 Phase Insulation Class: F

Synchronous Speed : 3000r/min 2 Poles

TYPE	Output		Speed (r/min)	Current		Power Factor			Efficiency (%)			Rated Torque Nm	D-O-L Starting Off Full Load			dB(A)	Net Weight Kg
	KW	HP		415V	380V	FL	3/4L	1/2L	FL	3/4L	1/2L		LRC	LRT	LRC		
Y2-711	0.37	0.5	2750	0.87	0.95	0.82	0.78	0.71	72.3	72.0	68.2	1.28	4.4	2.4	0.0005	14	
Y2-712	0.55	0.75	2790	1.22	1.33	0.82	0.78	0.73	76.4	75.9	73.0	1.88	5.8	3.0	0.0006	14	
Y2-801	0.75	1	2845	1.68	1.83	0.84	0.79	0.73	75.0	74.8	72.2	2.52	5.8	2.4	0.0008	15	
Y2-802	1.1	1.5	2840	2.38	2.60	0.86	0.79	0.76	77.0	76.5	74.2	3.70	6.2	2.5	0.001	16	
Y2-905	1.5	2	2840	3.20	3.50	0.85	0.80	0.77	78.3	77.9	75.1	5.00	6.0	2.7	0.0012	22	
Y2-90L	2.2	3	2840	4.49	4.90	0.86	0.80	0.76	81.3	80.8	78.3	7.40	6.0	2.5	0.0014	25	
Y2-100L	3	4	2830	5.86	6.40	0.87	0.81	0.76	83.0	82.6	80.1	10.1	7.5	2.2	0.0029	29	
Y2-112M	4	5.5	2890	7.40	8.10	0.87	0.82	0.78	85.5	84.6	82.1	13.2	7.1	2.3	0.005	40	
Y2-132S1	5.5	7.5	2910	10.1	11.0	0.88	0.82	0.78	86.0	85.5	83.1	18.0	7.5	2.3	0.0104	59	
Y2-132S2	7.5	10	2905	13.7	15.0	0.88	0.83	0.78	87.0	86.4	84.0	24.7	7.5	2.2	0.0121	62	
Y2-150M1	11	15	2935	20.2	22.0	0.89	0.86	0.80	87.6	87.3	84.3	35.8	7.7	2.3	0.037	87	
Y2-150M2	15	20	2935	26.6	29.0	0.90	0.86	0.81	88.8	88.2	86.0	48.8	7.6	2.4	0.0432	87	
Y2-160L	18.5	25	2935	32.1	35.0	0.91	0.85	0.80	90.0	89.6	86.0	60.2	7.7	2.7	0.0525	87	
Y2-180M	22	30	2940	37.6	41.0	0.90	0.85	0.81	90.5	90.1	87.0	71.5	7.7	2.0	0.071	92	
Y2-200L1	30	40	2945	51.3	56.0	0.90	0.86	0.81	91.2	90.8	88.8	97.3	6.9	2.1	0.119	95	
Y2-200L2	37	50	2945	62.3	68.0	0.90	0.86	0.80	92.0	91.4	89.2	120	7.0	2.2	0.133	95	
Y2-225M	45	60	2950	74.2	81.0	0.90	0.87	0.82	92.5	92.0	89.7	145.7	7.3	2.4	0.221	97	
Y2-250M	55	75	2965	91.6	100	0.90	0.87	0.83	92.5	92.0	89.5	177.21	7.6	2.6	0.305	97	
Y2-280S	75	100	2965	122.7	134	0.91	0.86	0.82	93.5	92.8	90.1	241.6	7.8	2.2	0.584	99	
Y2-280M	90	125	2965	146.6	160	0.91	0.86	0.82	93.8	92.9	91.3	289.9	7.8	2.2	0.665	99	
Y2-315S	110	150	2975	179.5	196	0.91	0.86	0.82	94.0	93.4	91.5	353.1	7.1	1.8	1.13	104	
Y2-315M	132	180	2975	214.3	234	0.91	0.87	0.83	94.5	93.8	91.9	423.7	7.1	1.8	1.75	104	
Y2-315L1	160	215	2975	256.5	280	0.92	0.87	0.84	94.6	93.8	91.3	513.6	7.1	1.8	2.01	1080	
Y2-315L2	200	270	2975	318.8	348	0.92	0.86	0.83	94.8	94.0	91.2	642	7.1	1.8	2.27	1170	
Y2-355M	250	340	2970	395.7	432	0.92	0.86	0.82	95.5	94.9	92.1	803.9	7.3	1.6	2.97	1690	
Y2-355L	315	420	2970	497.4	543	0.92	0.86	0.81	95.8	95.0	92.0	1012.9	7.3	1.6	4.17	1860	

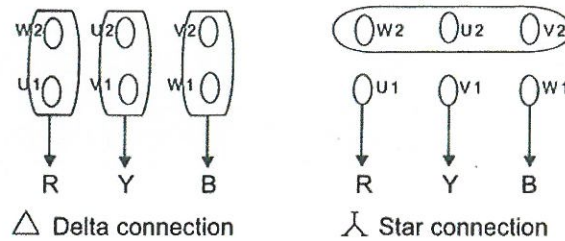
Synchronous Speed : 1500r/min 4 Poles

TYPE	KW	HP	Speed (r/min)	Current		Power Factor			Efficiency (%)			Rated Torque Nm	D-O-L Starting Off Full Load			dB(A)	Net Weight Kg
				415V	380V	FL	3/4L	1/2L	FL	3/4L	1/2L		LRC	LRT	LRC		
Y2-712	0.37	0.5	1340	1.01	1.1	0.75	0.67	0.53	71.0	70.29	68.4	2.64	4.1	2.5	0.0012	14	
Y2-801	0.55	0.75	1390	1.373	1.5	0.76	0.68	0.53	73.0	72.27	70.3	3.78	5.3	2.5	0.0013	15	
Y2-802	0.75	1	1380	1.831	2	0.76	0.68	0.562	74.5	73.76	71.8	5.19	5.3	2.7	0.0015	16	
Y2-905	1.1	1.5	1390	2.747	3	0.78	0.71	0.59	78.0	77.22	75.1	7.56	4.7	2.2	0.002	22	
Y2-90L	1.5	2	1390	3.571	3.9	0.79	0.72	0.62	79.0	78.21	76.1	10.31	5.2	2.3	0.003	27	
Y2-100L1	2.2	3	1410	4.761	5.2	0.82	0.74	0.62	81.0	80.4	78.2	14.90	6.8	2.3	0.0054	34	
Y2-100L2	3	4	1410	6.227	6.8	0.81	0.75	0.63	82.5	81.68	79.5	20.32	7.1	2.3	0.0067	35	
Y2-112M	4	5.5	1440	7.966	8.7	0.82	0.77	0.7	85.0	84.15	81.9	26.53	6.4	2.3	0.0091	44	
Y2-132S	5.5	7.5	1445	10.99	12	0.84	0.8	0.702	85.5	84.65	82.4	36.35	7.0	2.3	0.0205	61	
Y2-132M	7.5	10	1445	14.65	16	0.85	0.81	0.7	87.0	86.13	83.8	49.57	7.0	2.3	0.0296	78	
Y2-160M	11	15	1460	21.06	23	0.84	0.81	0.71	88.0	87.12	84.8	71.95	7.6	2.2	0.0724	82	
Y2-160L	15	20	1460	27.47	30	0.85	0.812	0.722	89.4	88.51	86.1	98.12	7.6	2.6	0.0929	82	
Y2-180M	18.5	25	1470	32.96	36	0.86	0.82	0.723	91.0	90.09	87.9	120.19	7.0	2.4	0.135	82	
Y2-180L	22	30	1470	38.46	42	0.86	0.822	0.732	91.5	90.59	89.7	142.93	7.0	2.2	0.136	82	
Y2-200L	30	40	1470	53.11	58	0.87	0.835	0.785	92.2	91.28	89.8	194.90	7.2	2.2	0.245	84	
Y2-225S	37	50	1475	64.1	70	0.87	0.842	0.791	91.8	90.88	90.4	239.56	6.9	2.2	0.39	84	
Y2-225M	45	60	1475	77.83	85	0.88	0.85	0.79	93.0	92.07	90.6	291.36	7.0	2.2	0.45	84	
Y2-250M	55	75	1475	94.31	103	0.88	0.843	0.774	93.2	92.27	90.8	356.10	7.4	2.2	0.64	86	
Y2-280S	75	100	1485	128.2	140	0.88	0.843	0.783	93.8	92.86	90.4	482.32	7.5	2.2	1.045	90	
Y2-280M	90	125	1485	152.9	167	0.89	0.865	0.812	94.2	93.26	90.7	578.79	7.5	2.2	1.396	90	
Y2-315S	110	150	1485	184	201	0.89	0.874	0.822	94.5	93.56	91	707.41	6.9	2.2	2.98	98	
Y2-315M	132	180	1485	220.7	241	0.89	0.873	0.832	94.8	93.85	91.3	848.89	6.9	2.2	3.48	101	
Y2-315L1	160	215	1485	263.7	288	0.89	0.845	0.821	94.9	93.95	91.4	1028.96	6.9	2.2	3.96	101	
Y2-315L2	200	270	1485	329.6	360	0.89	0.871	0.823	95.0	94.05	91.5	1286.20	6.9	2.2	4.47	101	
Y2-355M	250	340	1490	402.9	440	0.91	0.893	0.83	95.5	94.55	92	1602.35	6.8	2.3	5.75	1720	
Y2-355L	315	420	1490	503.6	550	0.91	0.893	0.832	95.8	94.84	92.3	2018.96	6.8	2.3	6.79	1870	

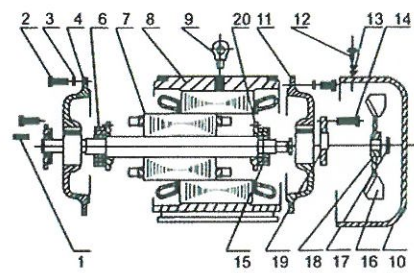
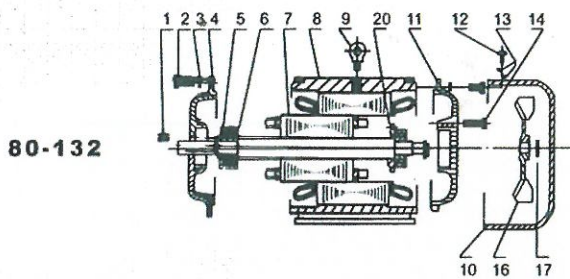
Electrical Features

Frame	Mounting	Number of Poles	Bearing	
			Drive End	Non-Drive End
71	ALL	ALL	6202ZZ	6202ZZ
80	ALL	ALL	6204ZZ	6204ZZ
90	ALL	ALL	6205ZZ	6205ZZ
100	ALL	ALL	6206ZZ	6206ZZ
112	ALL	ALL	6206ZZ	6206ZZ
132	ALL	ALL	6208ZZ	6208ZZ
160	ALL	2/4,6,8	6210 / 6309	6209
180	ALL	2/4,6,8	6211 / 6311	6211
200	ALL	2/4,6,8	6212 / 6312	6212
225	ALL	2/4,6,8	6312 / 6313	6312
250	ALL	2/4,6,8	6313 / 6314	6313
280	ALL	2/4,6,8	6314 / 6317	6314
315	ALL	2/4,6,8	6317 / 6319	6317 / 6319

Electrical Connection (Terminal Block)



Exploded View of Motors



- | | | | |
|------------------|---------------|----------------|-------------------------|
| 1. Key | 6. Bearing | 11. End-Shield | 16. Fan |
| 2. Bolt | 7. Rotor | 12. Screw | 17. Circlip |
| 3. Spring Washer | 8. Stator | 13. Washer | 18. Fan Key |
| 4. End-Shield | 9. Eye Bolt | 14. Bolt | 19. Outside Bearing Cap |
| 5. Wava Washer | 10. Fan Cover | 15. Circlip | 20. Inside Bearing Cap |

OEM & Distributed by,



JASA KITA ENGINEERING SDN BHD (24923-U)

No.8 (3rd Floor), Jalan Segambut,
51200 Kuala Lumpur, Malaysia.

Tel: +603-6195 1888 **Fax:** +603-4041 5270

E-Mail : emsales@jasakita.com.my