

THREE-PHASE INDUCTION MOTORS

CAST-IRON HOUSING¹

Y2



Y2 Series three-phase induction motor, adopting the national uniform design, has reached the international advanced level of 90's. It can replace Y series induction motor and possess sophisticated features such as new construction, good-looking appearance, low vibration, low noise, economization on power and materials consumption, etc.

OPERATING CONDITIONS

Ambient temperature: $-15^{\circ}\text{C} < \theta < 40^{\circ}\text{C}$
 Altitude: Not exceeding 1000meters
 Rated voltage: 380V or any voltage between 220~760V
 Rated frequency: 50Hz, 60Hz
 Duty/Rating: Continuous(S1)
 Protection class: IP44, IP54, IP55
 Insulation class: Class F, H, B
 Cooling method: IC0141
 Connection: Star-connection for up to 3kW,delta-connection for 4kW and above..

Y2 Three-Phase Induction Motors

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Technical data

Model	Rated Output		Full load Voltage V	Rated Current A	Rated Speed rpm	Eff η %	Power factor COS ϕ	Ts/Tn Times	Tmax/Tn Times	Ist/In Times
	kW	Hp								
3000rpm, 2-pole, 50Hz										
Y2-711-2	0.37	0.50	380	0.99	2740	70	0.81	2.2	2.2	6.1
Y2-712-2	0.55	0.75	380	1.40	2740	73	0.82	2.2	2.3	6.1
Y2-801-2	0.75	1	380	1.83	2830	75	0.83	2.2	2.3	6.1
Y2-802-2	1.1	1.5	380	2.58	2830	77	0.84	2.2	2.3	7.0
Y2-90S-2	1.5	2	380	3.43	2840	79	0.84	2.2	2.3	7.0
Y2-90L-2	2.2	3	380	4.85	2840	81	0.85	2.2	2.3	7.0
Y2-100L-2	3.0	4	380	6.31	2870	83	0.87	2.2	2.3	7.5
Y2-112M-2	4.0	5.5	380	8.10	2890	85	0.88	2.2	2.3	7.5
Y2-132S1-2	5.5	7.5	380	11.0	2900	86	0.88	2.2	2.3	7.5
Y2-132S2-2	7.5	10	380	14.9	2900	87	0.88	2.2	2.3	7.5
Y2-160M1-2	11	15	380	21.3	2930	88	0.89	2.2	2.3	7.5
Y2-160M2-2	15	20	380	28.8	2930	89	0.89	2.2	2.3	7.5
Y2-160L-2	18.5	25	380	34.7	2930	90	0.90	2.2	2.3	7.5
Y2-180M-2	22	30	380	41.0	2940	90	0.90	2.0	2.3	7.5
Y2-200L1-2	30	40	380	55.5	2950	91.2	0.90	2.0	2.3	7.5
Y2-200L2-2	37	50	380	67.9	2950	92	0.90	2.0	2.3	7.5
Y2-225M-2	45	60	380	82.3	2950	92.3	0.90	2.0	2.3	7.5
Y2-250M-2	55	75	380	101	2950	92.5	0.90	2.0	2.3	7.5
Y2-280S-2	75	100	380	134	2950	93	0.90	2.0	2.3	7.5
Y2-280M-2	90	125	380	160	2950	93.8	0.91	2.0	2.3	7.5
Y2-315S-2	110	150	380	195	2950	94	0.91	1.8	2.2	7.1
Y2-315M-2	132	180	380	233	2950	94.5	0.91	1.8	2.2	7.1
Y2-315L1-2	160	220	380	179	2950	94.6	0.92	1.8	2.2	7.1
Y2-315L2-2	200	270	380	348	2950	94.8	0.92	1.8	2.2	7.1
Y2-355M-2	250	340	380	433	2950	95.3	0.92	1.6	2.2	7.1
Y2-355L-2	315	430	380	544	2950	95.6	0.92	1.6	2.2	7.1
1500rpm, 4-pole, 50Hz										
Y2-711-4	0.25	0.34	380	0.79	1400	65.0	0.74	2.1	2.2	5.2
Y2-712-4	0.37	0.50	380	1.12	1400	67.0	0.75	2.1	2.2	5.2
Y2-801-4	0.55	0.75	380	1.57	1400	71.0	0.75	2.4	2.3	5.2
Y2-802-4	0.75	1	380	2.03	1400	73.0	0.76	2.3	2.3	6.0
Y2-90S-4	1.1	1.5	380	2.89	1400	75.0	0.77	2.3	2.3	6.0
Y2-90L-4	1.5	2	380	3.70	1400	78.0	0.79	2.3	2.3	6.0
Y2-100L1-4	2.2	3	380	5.16	1430	80.0	0.81	2.3	2.3	7.0
Y2-100L2-4	3.0	4	380	6.78	1430	82.0	0.82	2.3	2.3	7.0
Y2-112M-4	4.0	5.5	380	8.80	1440	84.0	0.82	2.3	2.3	7.0
Y2-132S-4	5.5	7.5	380	11.7	1440	85.0	0.83	2.3	2.3	7.0
Y2-132M-4	7.5	10	380	15.6	1440	87.0	0.84	2.2	2.3	7.0
Y2-160M-4	11	15	380	22.3	1460	88.0	0.84	2.2	2.3	7.0
Y2-160L-4	15	20	380	30.1	1460	89.0	0.85	2.2	2.3	7.5
Y2-180M-4	18.5	25	380	36.5	1470	90.5	0.86	2.2	2.3	7.5
Y2-180L-4	22	30	380	43.2	1470	91.0	0.86	2.2	2.3	7.5
Y2-200L-4	30	40	380	57.6	1480	92.0	0.86	2.2	2.3	7.2
Y2-225S-4	37	50	380	69.9	1480	92.5	0.87	2.2	2.3	7.2
Y2-225M-4	45	60	380	84.7	1480	92.8	0.87	2.2	2.3	7.2
Y2-250M-4	55	75	380	103	1480	93.0	0.87	2.2	2.3	7.2
Y2-280S-4	75	100	380	140	1480	93.8	0.87	2.2	2.3	7.2
Y2-280M-4	90	125	380	167	1480	94.2	0.87	2.2	2.3	7.2
Y2-315S-4	110	150	380	201	1480	94.5	0.88	2.1	2.2	6.9
Y2-315M-4	132	180	380	240	1480	94.8	0.88	2.1	2.2	6.9
Y2-315L1-4	160	220	380	287	1480	94.9	0.89	2.1	2.2	6.9
Y2-315L2-4	200	270	380	359	1480	95	0.89	2.1	2.2	6.9
Y2-355M-4	250	340	380	443	1480	95.3	0.90	2.1	2.2	6.9
Y2-355L-4	315	430	380	556	1480	95.6	0.90	2.1	2.2	6.9
1000rpm, 6-pole, 50Hz										
Y2-711-6	0.18	0.25	380	0.74	850	56	0.66	1.9	2.0	4.0
Y2-712-6	0.25	0.34	380	0.95	850	59	0.68	1.9	2.0	4.0
Y2-801-6	0.37	0.50	380	1.30	890	62	0.70	1.9	2.0	4.7
Y2-802-6	0.55	0.75	380	1.79	890	65	0.72	1.9	2.1	4.7
Y2-90S-6	0.75	1	380	2.29	910	69	0.72	2.0	2.1	5.5
Y2-90L-6	1.1	1.5	380	3.18	910	72	0.73	2.0	2.1	5.5
Y2-100L-6	1.5	2	380	3.94	940	76	0.75	2.0	2.1	5.5
Y2-112M-6	2.2	3	380	5.60	940	79	0.76	2.0	2.1	6.5

Technical data

Model	Rated Output		Full load Voltage V	Rated Current A	Rated Speed rpm	Eff η %	Power factor COS ϕ	Ts/Tn Times	Tmax/Tn Times	Is/In Times
	kW	Hp								
1000rpm,6-pole,50Hz										
Y2-132S-6	3.0	4	380	7.40	960	81	0.76	2.1	2.1	6.5
Y2-132M1-6	4.0	5.5	380	9.80	960	82	0.76	2.1	2.1	6.5
Y2-132M2-6	5.5	7.5	380	12.9	960	84	0.77	2.1	2.1	6.5
Y2-160M-6	7.5	10	380	17.0	970	86	0.77	2.0	2.1	6.5
Y2-160L-6	11	15	380	24.2	970	87.5	0.78	2.0	2.1	6.5
Y2-180L-6	15	20	380	31.6	970	89	0.81	2.0	2.1	7.0
Y2-200L1-6	18.5	25	380	38.6	970	90	0.81	2.1	2.1	7.0
Y2-200L2-6	22	30	380	44.7	970	90	0.83	2.1	2.1	7.0
Y2-225M-6	30	40	380	59.3	980	91.5	0.84	2.0	2.1	7.0
Y2-250M-6	37	50	380	71.0	980	92	0.86	2.1	2.1	7.0
Y2-280S-6	45	60	380	86.0	980	92.5	0.86	2.1	2.0	7.0
Y2-280M-6	55	75	380	105	980	92.8	0.86	2.1	2.0	7.0
Y2-315S-6	75	100	380	141	990	93.5	0.86	2.0	2.0	7.0
Y2-315M-6	90	125	380	169	990	93.8	0.86	2.0	2.0	7.0
Y2-315L1-6	110	150	380	206	990	94.0	0.86	2.0	2.0	6.7
Y2-315L2-6	132	180	380	244	990	94.2	0.87	2.0	2.0	6.7
Y2-355M1-6	160	220	380	292	990	94.5	0.88	1.9	2.0	6.7
Y2-355M2-6	200	270	380	365	990	94.7	0.88	1.9	2.0	6.7
Y2-355L-6	200	340	380	455	990	94.9	0.88	1.9	2.0	6.7

High eff,Low noise **IE2**

Technical data

Model	Rated Output		Rated Current A			Rated Speed rpm	Eff η %	Power factor COS ϕ	Rated Torque Nm	Ts/Tn Times	Tmax/Tn Times	Is/In Times	Wt. Kg
	kW	Hp	380	400	415								
3000rpm,2-pole,50Hz													
YE2-801-2	0.8	1	1.77	1.68	1.62	2875	77.4	0.83	2.49	2.5	3	5.3	18
YE2-802-2	1.1	1.5	2.50	2.37	2.29	2875	79.6	0.84	3.65	3.2	3.8	7.0	19
YE2-90S-2	1.5	2	3.32	3.16	3.04	2890	81.3	0.84	4.96	2.7	3.5	7.1	24
YE2-90L-2	2.2	3	4.72	4.48	4.32	2890	83.2	0.85	7.27	2.4	3	6.9	27
YE2-100L-2	3	4	6.17	5.86	5.65	2891	84.6	0.87	9.91	3.2	4	8.0	41
YE2-112M-2	4	5.5	8.04	7.64	7.36	2914	85.8	0.88	13.11	2.5	3	7.5	48
YE2-132S1-2	5.5	7.5	11.2	10.6	10.2	2937	87.0	0.86	17.88	2.7	3.5	7.5	73
YE2-132S2-2	7.5	10	14.6	13.9	13.4	2940	88.1	0.88	24.36	2.4	3.3	7.5	81
YE2-160M1-2	11	15	21.0	19.9	19.2	2930	89.4	0.89	35.85	2.2	2.9	7.6	125
YE2-160M2-2	15	20	28.4	26.9	26.0	2930	90.3	0.89	48.89	2.3	3	7.6	137
YE2-160L-2	18.5	25	34.7	33.0	31.8	2937	90.9	0.89	60.15	2.3	3.1	7.4	152
YE2-180M-2	22	30	41.6	39.5	38.1	2940	91.3	0.88	71.46	2.8	3.2	7.8	187
YE2-200L1-2	30	40	56.2	53.4	51.5	2950	92.0	0.88	97.12	2.6	3	7.8	241
YE2-200L2-2	37	50	68.2	64.8	62.5	2950	92.5	0.89	119.78	2.6	3	7.7	261
YE2-225M-2	45	60	82.5	78.4	75.6	2960	92.9	0.89	145.19	2.4	2.6	7.5	348
YE2-250M-2	55	75	99.5	94.5	91.1	2965	93.2	0.90	177.15	2.3	2.8	7.1	400
YE2-280S-2	75	100	135	128	123	2970	93.8	0.90	241.16	2.5	2.8	7.4	540
YE2-280M-2	90	125	160	152	146	2970	94.1	0.91	289.39	2.8	2.8	7.6	588
YE2-315S-2	110	150	194	185	178	2975	94.3	0.91	353.11	2.4	2.8	6.9	948
YE2-315M-2	132	180	233	221	213	2975	94.6	0.91	423.73	2.6	2.9	7.1	1009
YE2-315L1-2	160	200	278	265	255	2975	94.8	0.92	513.61	2.5	2.9	7.1	1111
YE2-315L2-2	200	270	348	330	318	2975	95.0	0.92	642.02	2.5	2.8	6.9	1142
YE2-355M-2	250	340	434	412	398	2980	95.0	0.92	801.17	2.5	2.8	7.0	1938
YE2-355L-2	315	430	547	520	501	2980	95.0	0.92	1009.48	2.5	2.9	7.0	2346

High eff,Low noise **IE2**

Technical data

Model	Rated Output		Rated Current A			Rated Speed rpm	Eff η %	Power factor COS ϕ	Rated Torque Nm	Ts/Tn Times	Tmax/Tn Times	Is/In Times	Wt. Kg
	kW	Hp	380	400	415								
1500rpm,4-pole,50Hz													
YE2-802-4	0.75	1	1.88	1.78	1.72	1400	79.6	0.76	5.12	2.4	2.9	5	20
YE2-90S-4	1.1	1.5	2.66	2.53	2.44	1440	81.4	0.77	7.3	3	3.5	6	25
YE2-90L-4	1.5	2	3.57	3.39	3.27	1445	82.8	0.77	9.91	3.2	3.8	6.8	30
YE2-100L1-4	2.2	3	4.88	4.64	4.47	1440	84.3	0.81	14.6	3	3.5	7	42
YE2-100L2-4	3	4	6.50	6.18	5.95	1440	85.5	0.82	19.9	2.6	3.3	7.5	47
YE2-112M-4	4	5.5	8.55	8.12	7.83	1445	86.6	0.82	26.4	3.5	4	7	53
YE2-132S-4	5.5	7.5	11.5	10.9	10.5	1455	87.7	0.83	36.1	2.2	2.8	6.4	78
YE2-132M-4	7.5	10	15.3	14.5	14.0	1455	88.7	0.84	49.2	2.4	3	7	88
YE2-160M-4	11	15	22.1	21.0	20.3	1460	89.8	0.84	71.9	2.5	2.9	6.9	138
YE2-160L-4	15	20	29.6	28.1	27.1	1460	90.6	0.85	98.1	2.5	3	7.5	148
YE2-180M-4	18.5	25	35.8	34.0	32.8	1470	91.2	0.86	120.2	2.6	3.1	7.8	185
YE2-180L-4	22	30	41.5	39.4	38	1470	91.6	0.86	143.3	2.6	2.9	7.6	230
YE2-200L-4	30	40	57.3	54.4	52.5	1470	92.3	0.86	194.9	2.4	2.9	7.1	270
YE2-225S-4	37	50	69.7	66.2	63.8	1480	92.7	0.87	238.8	2.5	2.7	7.5	310
YE2-225M-4	45	60	84.3	80.1	77.2	1480	93.1	0.87	290.4	2.5	2.8	7.6	340
YE2-250M-4	55	75	103	97.5	94.0	1480	93.5	0.87	354.9	2.6	2.7	7.3	413
YE2-280S-4	75	100	139	132	127	1480	94.0	0.87	484	2.7	2.7	7.6	530
YE2-280M-4	90	125	167	158	153	1480	94.2	0.87	580.7	2.7	2.7	7.5	630
YE2-315S-4	110	150	201	191	184	1485	94.5	0.88	707.4	2.7	2.9	7.1	950
YE2-315M-4	132	180	240	228	220	1485	94.7	0.88	888.9	2.7	2.9	7.3	1037
YE2-315L1-4	160	200	288	273	263	1485	94.9	0.89	1029	3	3	7.4	1107
YE2-315L2-4	200	270	359	341	328	1485	95.1	0.89	1286	3	3	7.6	1225
YE2-355M-4	250	340	443	421	406	1490	95.1	0.90	1602	2.8	2.9	7.5	1734
YE2-355L-4	315	430	559	531	511	1490	95.1	0.90	2019	2.6	2.8	7.4	1940
1000rpm,6-pole,50Hz													
YE2-90S-6	0.75	1	2.08	1.98	1.90	934	75.9	0.72	7.67	2.2	2.4	4.5	25
YE2-90L-6	1.1	1.5	2.97	2.82	2.72	945	78.1	0.72	11.1	2.4	2.6	4.5	27
YE2-100L-6	1.5	2	3.80	3.61	3.48	945	79.8	0.75	15.2	1.8	2.2	4.2	40
YE2-112M-6	2.2	3	5.37	5.10	4.92	960	81.8	0.76	21.9	2.3	2.8	4.5	55
YE2-132S-6	3	4	7.19	6.83	6.58	964	83.3	0.76	29.7	1.8	2.4	4.5	76
YE2-132M1-6	4	5.5	9.43	8.96	8.63	965	84.6	0.76	39.6	2.3	2.7	5	83
YE2-132M2-6	5.5	7.5	12.6	12.0	11.5	965	86.0	0.77	54.4	1.9	2.8	5.4	95
YE2-160M-6	7.5	10	16.7	15.9	15.3	970	87.2	0.78	73.8	2	3	6.5	151
YE2-160L-6	11	15	24.1	22.9	22.1	970	88.7	0.78	108.3	2.4	3.3	7.5	167
YE2-180L-6	15	20	31.4	29.8	28.7	975	89.7	0.81	146.9	2	2.7	6.4	198
YE2-200L1-6	18.5	25	38.3	36.4	35.1	980	90.4	0.81	180.3	2.3	3	7	236
YE2-200L2-6	22	30	44.3	42.0	40.5	980	90.9	0.83	214.4	2.3	2.8	7	251
YE2-225M-6	30	40	59.2	56.2	54.2	980	91.7	0.84	292.3	2.2	2.7	6.5	317
YE2-250M-6	37	50	70.8	67.3	64.8	980	92.2	0.86	360.6	2.5	2.7	6.9	397
YE2-280S-6	45	60	85.8	81.5	78.5	980	92.7	0.86	438.5	2.2	2.4	7	513
YE2-280M-6	55	75	104	99.2	95.6	980	93.1	0.86	536	2.4	2.5	7.1	562
YE2-315S-6	75	100	141	134	129	985	93.7	0.86	727.2	2.8	3	7.3	933
YE2-315M-6	90	125	169	160	155	985	94.0	0.86	872.6	2.7	2.9	7.1	1013
YE2-315L1-6	110	150	206	196	189	985	94.3	0.86	1066	2.9	2.9	7.4	1086
YE2-315L2-6	132	180	243	231	223	985	94.6	0.87	1280	3	3.1	7.6	1208
YE2-355M1-6	160	200	291	277	267	990	94.8	0.88	1543	3.1	3.1	7.6	1581
YE2-355M2-6	200	270	363	345	333	990	95.0	0.88	1929	3	3	7.8	1632
YE2-355L-6	250	340	454	432	416	990	95.0	0.88	2412	3.1	3	7.7	1734

IE2

Technical data

Model	Rated Output		Rated Current A			Rated Speed rpm	Eff η %	Power factor COS ϕ	Rated Torque Nm	Ts/Tn Times	Tmax/Tn Times	Is/In Times	Wt. Kg
	KW	Hp	380	400	415								
3000rpm, 2-pole, 50Hz													
YE3-801-2	0.75	1	1.7	1.61	1.56	2880	80.7	0.83	2.49	1.8	3.5	5.5	20
YE3-802-2	1.1	1.5	2.43	2.31	2.22	2880	82.7	0.83	3.65	2.6	3.5	7.5	21
YE3-90S-2	1.5	2	3.25	3.09	2.98	2895	84.2	0.83	4.95	2.6	3.5	7.1	26
YE3-90L-2	2.2	3	4.57	4.34	4.19	2895	85.9	0.85	7.26	2	3	7	29
YE3-100L-2	3	4	5.94	5.64	5.44	2895	87.1	0.88	9.9	2	3.2	8.6	43
YE3-112M-2	4	5.5	7.83	7.44	7.17	2905	88.1	0.88	13.1	1.8	2.9	8	51
YE3-132S1-2	5.5	7.5	10.6	10.1	9.75	2930	89.2	0.88	17.9	2.1	2.5	7.5	76
YE3-132S2-2	7.5	10	14.4	13.7	13.2	2930	90.1	0.88	24.4	2	3.5	7.3	84
YE3-160M1-2	11	15	20.4	19.3	18.6	2945	91.2	0.90	35.7	2.3	2.6	7.3	128
YE3-160M2-2	15	20	27.2	25.9	24.9	2945	91.9	0.91	48.6	1.9	2.3	7	140
YE3-160L-2	18.5	25	34.1	32.4	31.3	2940	92.4	0.89	60.1	1.6	2.5	7	155
YE3-180M-2	22	30	40.1	38.1	36.7	2955	92.7	0.90	71.1	1.6	2.5	7	192
YE3-200L1-2	30	40	54.8	52.1	50.2	2960	93.3	0.89	96.8	1.5	2.5	7	246
YE3-200L2-2	37	50	65.9	62.6	60.3	2960	93.7	0.91	119	1.5	2.5	7.3	267
YE3-225M-2	45	60	82.5	78.4	75.5	2965	94.0	0.88	145	1.6	2.5	6.8	353
YE3-250M-2	55	75	99.6	94.6	91.2	2970	94.3	0.89	176.9	1.6	2.6	7.2	408
YE3-280S-2	75	100	134	127	122	2975	94.7	0.91	240.8	1.2	2	7.2	548
YE3-280M-2	90	125	162	153	148	2975	95.0	0.89	288.9	1.2	2	7.4	596
YE3-315S-2	110	150	195	185	179	2978	95.2	0.90	352.8	1.2	2	7.3	956
YE3-315M-2	132	180	233	222	214	2978	95.4	0.90	432.3	1.3	2.1	7.3	1017
YE3-315L1-2	160	200	283	268	259	2980	95.6	0.90	512.8	1.2	2	6.8	1119
YE3-315L2-2	200	270	349	331	319	2980	95.8	0.91	640.9	1.1	2	7.8	1150
YE3-355M-2	250	340	431	409	394	2982	95.8	0.92	800.6	1.1	2	7.9	1948
YE3-355L-2	315	430	543	519	497	2982	95.8	0.92	1009	1.1	2	7.9	2356

IE3

Technical data

Model	Rated Output		Rated Current A			Rated Speed rpm	Eff η %	Power factor COS ϕ	Rated Torque Nm	Ts/Tn Times	Tmax/Tn Times	Is/In Times	Wt. Kg
	KW	Hp	380	400	415								
1500rpm, 4-pole, 50Hz													
YE3-802-4	0.75	1	1.86	1.77	1.7	1420	82.5	0.74	5.04	2.9	3.6	6	22
YE3-90S-4	1.1	1.5	2.68	2.55	2.46	1445	84.1	0.74	7.27	2.7	3.8	6.5	27
YE3-90L-4	1.5	2	3.61	3.43	3.3	1445	85.3	0.74	9.91	3	3.6	6.8	32
YE3-100L1-4	2.2	3	4.93	4.68	4.52	1435	86.7	0.78	14.6	2.5	3.5	7.2	44
YE3-100L2-4	3	4	6.66	6.32	6.09	1435	87.7	0.78	20.0	2.6	3.5	7.2	49
YE3-112M-4	4	5.5	8.56	8.14	7.84	1440	88.6	0.80	26.5	2.3	3.2	7	56
YE3-132S-4	5.5	7.5	11.6	11.1	10.7	1460	89.6	0.80	36.0	2.7	3.5	7.1	81
YE3-132M-4	7.5	10	15.3	14.6	14.0	1460	90.4	0.82	49.1	2.7	3.8	7.2	91
YE3-160M-4	11	15	22.6	21.2	20.4	1465	91.4	0.82	71.7	1.9	2.3	6.8	141
YE3-160L-4	15	20	20.1	28.6	27.6	1465	92.1	0.82	97.8	1.8	2.4	6.8	151
YE3-180M-4	18.5	25	36.1	34.3	33.1	1470	92.6	0.84	120.2	1.8	2.5	6.9	190
YE3-180L-4	22	30	42.3	40.2	38.7	1470	93.0	0.85	142.9	1.8	2.5	7	205
YE3-200L-4	30	40	56.5	53.7	51.7	1475	93.6	0.86	194.2	1.8	2.3	6.8	275
YE3-225S-4	37	50	69.5	66.1	63.7	1485	93.9	0.86	237.9	1.7	2.3	7.1	315
YE3-225M-4	45	60	83.2	79.1	76.2	1485	94.2	0.87	289.4	1.8	2.4	7.1	345
YE3-250M-4	55	75	101	96.2	92.7	1485	94.6	0.87	353.7	1.8	2.4	7	421
YE3-280S-4	75	100	138	131	126	1486	95.0	0.87	482	1.8	2.2	6.9	538
YE3-280M-4	90	125	165	157	151	1486	95.2	0.87	578.4	1.6	2.1	7.2	638
YE3-315S-4	110	150	199	189	182	1488	95.4	0.88	706	1.6	2.1	7.2	958
YE3-315M-4	132	180	238	226	218	1488	95.6	0.88	847.2	1.5	2	7.2	1045
YE3-315L1-4	160	200	288	274	264	1488	95.8	0.88	1027	1.5	2	6.8	1115
YE3-315L2-4	200	270	360	342	329	1490	96.0	0.88	1282	1.6	2.1	7.2	1233
YE3-355M-4	250	340	449	427	411	1490	96.0	0.88	1603	1.4	2.1	7.3	1744
YE3-355L-4	315	430	567	538	519	1490	96.0	0.88	2019	1.4	2	7.4	1950

1000rpm, 6-pole, 50Hz

YE3-90S-6	0.75	1	2.36	2.24	1.90	935	78.9	0.61	7.66	2.5	3.3	4.5	27
YE3-90L-6	1.1	1.5	2.99	2.84	2.73	945	81	0.69	11.1	1.7	3.3	4.5	29
YE3-100L-6	1.5	2	4.00	3.8	3.66	949	82.5	0.69	15.1	2.3	3	4.2	42
YE3-112M-6	2.2	3	5.58	5.3	5.11	955	84.3	0.71	22.0	2.6	3	4.5	53
YE3-132S-6	3	4	7.48	7.11	6.85	968	85.6	0.71	29.6	2	3.1	4.5	79
YE3-132M1-6	4	5.5	9.85	9.36	7.03	968	86.8	0.71	39.5	2.1	2.6	5	86
YE3-132M2-6	5.5	7.5	12.6	12.0	11.6	968	88	0.75	54.3	1.7	2.6	5.4	98
YE3-160M-6	7.5	10	16.6	15.7	15.2	970	89.1	0.77	73.8	1.7	2.5	6.5	154
YE3-160L-6	11	15	23.4	22.2	21.4	970	90.3	0.79	108.3	1.5	2.4	7.5	170
YE3-180L-6	15	20	30.8	29.3	28.2	978	91.2	0.81	146.5	1.5	2.4	6.4	203
YE3-200L1-6	18.5	25	37.8	35.9	34.6	980	91.7	0.81	180.3	1.6	2.4	7	241
YE3-200L2-6	22	30	43.6	41.4	40.0	980	92.2	0.83	214.4	1.7	2.3	7	256
YE3-225M-6	30	40	58.3	55.4	53.4	980	92.9	0.84	292.3	1.9	2.2	6.5	322
YE3-250M-6	37	50	71.7	68.1	65.7	985	93.3	0.84	385.7	1.9	2.2	6.8	405
YE3-280S-6	45	60	85.8	81.5	78.5	985	93.7	0.85	436.3	1.8	2.2	6.5	521
YE3-280M-6	55	75	104	99.1	95.6	985	94.1	0.85	533.2	1.8	2.2	6	570
YE3-315S-6	75	100	142	135	130	985	94.6	0.85	727.2	1.6	2	6.5	941
YE3-315M-6	90	125	169	161	155	988	94.9	0.85	869.9	1.6	2	6.8	1021
YE3-315L1-6	110	150	204	194	187	988	95.1	0.86	1063	1.5	2	6.8	1094
YE3-315L2-6	132	180	244	232	224	988	95.4	0.86	1276	1.4	2.1	6.8	1216
YE3-355M1-6	160	200	296	281	271	990	95.6	0.86	1543	1.4	2	7.1	1591
YE3-355M2-6	200	270	360	342	330	990	95.8	0.88	1929	1.3	2	7.2	1642
YE3-355L-6	250	340	451	428	413	990	95.8	0.88	2412	1.3	2	7.2	1744

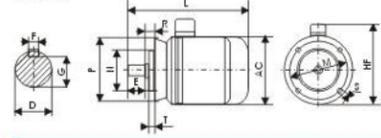
IE3

Y2 Three-Phase Induction Motors

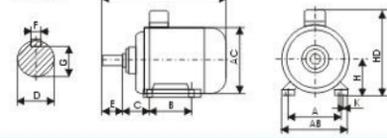
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Overall & Installation Dimensions

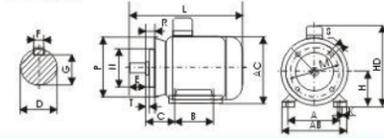
IMB5



IMB3



IMB35



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	HD	HF	L
63	100	80	40	11	23	4	8.5	63	7	115	95	140	0	10	3	135	130	180	130	225
71	112	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	150	145	195	145	250
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	165	175	220	185	295
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	250	195	320
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	250	195	345
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4	205	215	270	245	385
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4	230	240	300	265	400
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4	270	275	345	315	470
132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4	270	275	345	315	510
160M	254	210	108	42	110	12	37	160	15	300	250	350	0	19	5	320	330	420	385	615
160L	254	254	108	42	110	12	37	160	15	300	250	350	0	19	5	320	330	420	385	670
180M	279	241	121	48	110	14	42.5	180	15	300	250	350	0	19	5	355	380	455	430	700
180L	279	279	121	48	110	14	42.5	180	15	300	250	350	0	19	5	355	380	455	430	740
200L	318	305	133	55	110	16	49	200	19	350	300	400	0	19	5	395	420	505	480	770
225S	356	286	149	60	140	18	53	225	19	400	350	450	0	19	5	435	470	560	535	815
225M-2	356	311	149	55	110	16	49	225	19	400	350	450	0	19	5	435	470	560	535	820
225M-4,6	356	311	149	60	140	18	53	225	19	400	350	450	0	19	5	435	470	560	535	845
250M-2	406	349	168	60	140	18	53	250	24	500	450	550	0	19	5	490	510	615	595	910
250M-4,6	406	349	168	65	140	18	58	250	24	500	450	550	0	19	5	490	510	615	595	910
280S-2	457	368	190	65	140	18	58	280	24	500	450	550	0	19	5	550	580	680	650	985
280S-4,6	457	368	190	75	140	20	67.5	280	24	500	450	550	0	19	5	550	580	680	650	985
280M-2	457	419	190	65	140	18	58	280	24	500	450	550	0	19	5	550	580	680	650	1035
280M-4,6	457	419	190	75	140	20	67.5	280	24	500	450	550	0	19	5	550	580	680	650	1035
315S-2	580	406	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	845	900	1160
315S-4,6	580	406	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	845	900	1270
315M-2	580	457	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	845	900	1190
315M-4,6	580	457	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	845	900	1300
315L-2	580	508	216	65	140	18	58	315	28	600	550	660	0	24	6	635	645	845	900	1190
315L-4,6	580	508	216	80	170	22	71	315	28	600	550	660	0	24	6	635	645	845	900	1300
355M-2	610	560	254	75	140	20	67.5	355	28	740	680	800	0	24	6	730	710	1010	1010	1500
355M-4,6	610	560	254	95	170	25	86	355	28	740	680	800	0	24	6	730	710	1010	1010	1530
355L-2	610	630	254	75	140	20	67.5	355	28	740	680	800	0	24	6	730	710	1010	1010	1500
355L-4,6	610	630	254	95	170	25	86	355	28	740	680	800	0	24	6	730	710	1010	1010	1530

THREE-PHASE INDUCTION MOTORS

CAST-IRON HOUSING

Y



The motors of this series are made in conformity with IEC standards and incorporate many fine features.
Y series motors can be used in a multitude of applications in the commercial industrial building service and water treatment fields where superior service quality and reliability is demanded.

OPERATING CONDITIONS

Ambient temperature: $-15\text{ }^{\circ}\text{C} < \theta < 40\text{ }^{\circ}\text{C}$
 Altitude: Not exceeding 1000meters
 Rated voltage: 380V or any voltage between 220~760V
 Rated frequency: 50Hz, 60Hz
 Duty/Rating: Continuous(S1)
 Protection class: IP44, IP54, IP55
 Insulation class: B, F, H
 Cooling method: IC0141
 Connection: Star-connection for up to 3kW,delta-connection for 4kW and above.

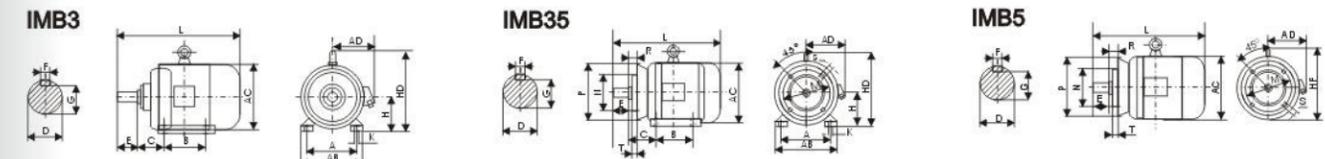
Technical data (at 380V)

Model	Rated Output		Rated Current A	Rated Speed rpm	Load75%				Load50%				Ts/Tn Times	Tmax/Tn Times	Ist/In Times
	kW	Hp			Eff %	Power factor COSφ	Eff %	Power factor COSφ	Eff %	Power factor COSφ					
380V 50Hz Synchronous Speed 3000 r/min (2 Poles)															
Y801-2	0.75	1	1.81	2830	75	0.84	73.8	0.79	71.6	0.68	2.2	2.3	6.5		
Y802-2	1.1	1.5	2.52	2830	77	0.86	76.5	0.81	74.0	0.71	2.2	2.3	7.0		
Y90S-2	1.5	2	3.44	2840	78	0.85	77.5	0.80	76.0	0.71	2.2	2.3	7.0		
Y90L-2	2.2	3	4.83	2840	80.5	0.86	79.7	0.82	77.6	0.73	2.2	2.3	7.0		
Y100L-2	3.0	4	0.39	2870	82	0.87	81.3	0.83	79.3	0.74	2.2	2.3	7.0		
Y112M-2	4.0	5.5	8.17	2890	85.5	0.88	84.8	0.83	82.8	0.73	2.2	2.3	7.0		
Y132S1-2	5.5	7.5	11.1	2900	85.5	0.88	84.9	0.86	83.0	0.79	2.0	2.3	7.0		
Y132S2-2	7.5	10	15.0	2900	86.2	0.88	85.5	0.86	83.0	0.79	2.0	2.3	7.0		
Y160M1-2	11	15	21.8	2930	87.2	0.89	86.5	0.86	84.5	0.79	2.0	2.3	7.0		
Y160M2-2	15	20	29.4	2930	88.2	0.89	87.6	0.85	86.0	0.80	2.0	2.3	7.0		
Y160L-2	18.5	25	35.5	2930	89	0.89	88.5	0.86	87.2	0.81	2.0	2.2	7.0		
Y180M-2	22	30	42.2	2940	89	0.89	88.1	0.87	86.7	0.81	2.0	2.2	7.0		
Y200L1-2	30	40	56.9	2950	90	0.89	88.7	0.86	87.1	0.79	2.0	2.2	7.0		
Y200L2-2	37	50	69.8	2950	90.5	0.89	89.7	0.86	87.5	0.80	2.0	2.2	7.0		
Y225M-2	45	60	83.9	2970	91.5	0.89	90.4	0.87	88.3	0.82	2.0	2.2	7.0		
Y250M-2	55	75	103	2970	91.5	0.89	90.6	0.86	88.6	0.82	2.0	2.2	7.0		
Y280S-2	75	100	139	2970	92	0.89	91.0	0.86	89.0	0.82	2.0	2.2	7.0		
Y280M-2	90	125	166	2970	92.5	0.89	91.4	0.86	89.4	0.84	2.0	2.2	7.0		
Y315S-2	110	150	203	2980	92.5	0.89	91.4	0.86	89.7	0.84	1.8	2.2	6.8		
Y315M-2	132	180	242	2980	93	0.89	91.8	0.87	90.1	0.84	1.8	2.2	6.8		
Y315L1-2	160	220	292	2980	93.5	0.89	91.9	0.87	90.2	0.84	1.8	2.2	6.8		
Y315L2-2	200	270	365	2980	93.5	0.89	92.3	0.87	90.6	0.84	1.8	2.2	6.8		
Y355M-2	250	340	444	2980	94.5	0.90	93.3	0.88	92.5	0.85	1.6	2.2	7.0		
Y355L-2	315	430	556	2980	95.0	0.90	93.9	0.88	92.8	0.85	1.6	2.2	7.1		
380V 50Hz Synchronous Speed 1500 r/min (4 Poles)															
Y801-4	0.55	0.75	1.51	1390	73	0.76	71.5	0.66	68.5	0.52	2.4	2.3	6.0		
Y802-4	0.75	1	2.01	1390	74.5	0.76	73	0.67	68.0	0.56	2.3	2.3	6.0		
Y90S-4	1.1	1.5	2.75	1400	78	0.78	77	0.71	73.5	0.58	2.3	2.3	6.5		
Y90L-4	1.5	2	3.65	1400	79	0.79	77.5	0.72	75.5	0.61	2.3	2.3	6.5		
Y100L1-4	2.2	3	5.03	1430	81	0.82	80.3	0.74	78.2	0.61	2.2	2.3	7.0		
Y100L2-4	3.0	4	6.82	1430	82.5	0.81	81.6	0.75	79.3	0.63	2.2	2.3	7.0		
Y112M-4	4.0	5.5	8.77	1440	84.5	0.82	83.3	0.76	81.8	0.64	2.2	2.3	7.0		
Y132S-4	5.5	7.5	11.6	1440	85.5	0.84	84.2	0.78	81.2	0.68	2.2	2.3	7.0		
Y132M-4	7.5	10	15.4	1440	87	0.85	86.1	0.80	82.6	0.70	2.2	2.3	7.0		
Y160M-4	11	15	22.6	1460	88	0.84	87.4	0.79	85.1	0.68	2.2	2.3	7.0		
Y160L-4	15	20	30.3	1460	88.5	0.85	87.8	0.80	85.9	0.69	2.2	2.3	7.0		
Y180M-4	18.5	25	35.9	1470	91	0.86	89.9	0.81	87.8	0.70	2.0	2.2	7.0		
Y180L-4	22	30	42.5	1470	91.5	0.86	90.7	0.81	89.4	0.72	2.0	2.2	7.0		
Y200L-4	30	40	56.8	1470	92.2	0.87	91.3	0.82	89.5	0.73	2.0	2.2	7.0		
Y225S-4	37	50	70.4	1480	91.8	0.87	91.1	0.84	89.6	0.78	1.9	2.2	7.0		
Y225M-4	45	60	84.2	1480	92.3	0.88	91.6	0.85	90.2	0.79	1.9	2.2	7.0		
Y250M-4	55	75	103	1480	92.6	0.88	91.5	0.84	90.1	0.76	2.1	2.2	7.0		
Y280S-4	75	100	140	1480	92.7	0.88	91.7	0.84	90.3	0.77	1.9	2.2	7.0		
Y280M-4	90	125	164	1480	93.5	0.89	92.4	0.85	90.7	0.81	1.9	2.2	7.0		
Y315S-4	110	150	201	1480	93.5	0.89	92.3	0.86	90.4	0.82	1.8	2.2	6.8		
Y315M-4	132	180	240	1490	94	0.89	92.8	0.86	90.5	0.82	1.8	2.2	6.8		
Y315L1-4	160	220	289	1490	94.5	0.89	93.2	0.86	91.2	0.82	1.8	2.2	6.8		
Y315L2-4	200	270	361	1490	94.5	0.89	93.2	0.86	91.2	0.82	1.8	2.2	6.8		
Y355M-4	250	340	459	1485	94.7	0.87	93.6	0.87	93.0	0.83	1.6	2.2	6.8		
Y355L-4	315	430	576	1485	95.2	0.87	94.1	0.87	93.8	0.83	1.6	2.2	6.9		
380V 50Hz Synchronous Speed 1000 r/min (6 Poles)															
Y90S-6	0.75	1	2.25	910	72.5	0.70	70.5	0.61	62.8	0.47	2.0	2.2	5.5		
Y90L-6	1.1	1.5	3.16	910	73.5	0.72	72.0	0.61	67.7	0.47	2.0	2.2	5.5		
Y100L-6	1.5	2	3.97	940	77.5	0.74	76.3	0.66	73.5	0.53	2.0	2.2	6.0		
Y112M-6	2.2	3	5.61	940	80.5	0.74	79.2	0.66	77.3	0.53	2.0	2.2	6.0		
Y132S-6	3.0	4	7.23	960	83	0.76	82.0	0.69	79.2	0.57	2.0	2.2	6.5		
Y132M1-6	4.0	5.5	9.40	960	84	0.77	83.1	0.70	79.9	0.58	2.0	2.2	6.5		
Y132M2-6	5.5	7.5	12.6	960	85.3	0.78	84.4	0.72	82.1	0.61	2.0	2.2	6.5		
Y160M-6	7.5	10	17.0	970	86	0.78	85.2	0.72	83.6	0.63	1.8	2.0	6.5		
Y160L-6	11	15	24.6	970	87	0.78	86.6	0.72	85.4	0.62	1.8	2.0	6.5		
Y180L-6	15	20	31.4	970	89.5	0.81	88.5	0.75	86.8	0.63	1.8	2.0	6.5		
Y200L1-6	18.5	25	37.7	970	89.8	0.83	88.7	0.77	87.5	0.69	1.7	2.0	6.5		
Y200L2-6	22	30	44.6	970	90.2	0.83	89.3	0.75	87.7	0.65	1.8	2.0	6.5		
Y225M-6	30	40	59.5	980	90.2	0.85	89.6	0.80	88.6	0.71	1.8	2.0	6.5		
Y250M-6	37	50	72	980	90.8	0.86	90.4	0.81	89.3	0.73	1.8	2.0	6.5		

Technical data (at 380V)

Model	Rated Output		Rated Current A	Rated Speed rpm	Load75%				Load50%				Ts/Tn Times	Tmax/Tn Times	Ist/In Times
	kW	Hp			Eff %	Power factor COSφ	Eff %	Power factor COSφ	Eff %	Power factor COSφ					
380V 50Hz Synchronous Speed 1000 r/min (6 Poles)															
Y280 S-6	45	60	85.4	980	92	0.87	91.2	0.82	89.7	0.75	1.6	2.0	6.5		
Y280 M-6	55	75	104	980	92	0.87	91.5	0.81	90.2	0.74	1.6	2.0	6.5		
Y315 S-6	75	100	141	990	92.8	0.87	92.3	0.82	90.8	0.74	1.6	2.0	6.5		
Y315 M-6	90	125	169	990	93.2	0.87	92.8	0.83	91.2	0.76	1.6	2.0	6.5		
Y315 L1-6	110	150	206	990	93.5	0.87	92.9	0.83	91.3	0.76	1.6	2.0	6.5		
Y315 L2-6	132	180	246	990	93.8	0.87	93.1	0.83	91.5	0.76	1.6	2.0	6.5		
Y355 M1-6	160	220	300	990	94.1	0.86	93.4	0.84	92.0	0.77	1.9	2.0	6.7		
Y355 M2-6	200	270	374	990	94.3	0.86	93.6	0.84	92.6	0.77	1.9	2.0	6.7		
Y355 L-6	250	340	465	990	94.7	0.86	94.0	0.84	92.8	0.77	1.9	2.0	6.7		

Overall & Installation Dimensions



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
Y80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	165	175	150	175	185	290
Y90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	160	195	195	315
Y90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	195	160	195	195	340
Y100L	160	140	70	28	60	8	24	100	12	215	180	250	0	15	4.0	205	215	180	245	245	380
Y112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	245	240	190	265	265	400
Y132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	275	210	315	315	475
Y132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	275	210	315	315	515
Y160M	245	210	108	42	110	12	37	160	15	300	250	350	0	19	5.0	325	325	255	385	385	600
Y160L	245	254	108	42	110	12	37	160	15	300	250	350	0	19	5.0	325	325	255	385	385	645
Y180M	279	241	121	48	110	14	42.5	180	15	300	250	350	0	19	5.0	355	360	285	430	430	670
Y180L	279	279	121	48	110	14	42.5	180	15	300	250	350</									