High efficiency Electric motor

THREE-PHASE INDUCTION MOTOR

Diesel Saz

دیزل ساز

INTRODUCE

Adopting the national uniform design, **IE** series three-phase induction motors, are conformity with IEC34-1 and JB/T8680.1-1998 standards, also up to the international advanced level of 90's, as substitute of Y series induction motors. It possess sophisticated features such as new construction, good appearence, slight vibration, low noise etc.

OPERATING CONDITIONS

- Ambient temperature: -15℃ < θ <40℃
- Altitude: not exceed 1000m
- Rated voltage: 380V or any voltage between 220V-760V
- Rated frequency: 50Hz/60Hz
- Protection class: IP44/IP54
- Insulation class: F/H
- Cooling method: ICO141
- Duty: S1(continuous)
- Connection: Star-connection for up to 3kW
  delta-connection for 4kW and above
- Remark: Motors can be equipped with PTC, for frame size 160 and above, also can be equipped with re-greasing system. Terminal box on top, right side or left side are available. Key-way can be closed type or opened type, side or left side are available. Key-way could be close type or open type.

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TECHNICAL DATA

Model	Power (kW)	Full Load				Ist/IN Locked current / Rated current	Tst/TN Locked torque / Rated torque	TM/IN max torque / Rated torque
		Current at 380V (A)	Speed (r/min)	Eff. (%)	Power factor			
Synchronous Speed 3000r/min(2 poles)50Hz								
Y2-631-2	0.18	0.52	2825	65	0.80	5.5	2.2	2.2
Y2-632-2	0.25	0.69	2840	68	0.81	5.1	2.2	2.2
Y2-711-2	0.37	0.99	2840	70	0.81	6.0	2.2	2.2
Y2-712-2	0.55	1.4	2880	73	0.82	6.0	2.2	2.2
Y2-801-2	0.75	1.8	2890	75	0.83	6.0	2.2	2.2
Y2-802-2	1.1	2.6	2900	77	0.84	7.0	2.2	2.2
Y2-90S-2	1.5	3.4	2900	79	0.84	7.0	2.2	2.2
Y2-90L-2	2.2	4.8	2930	81	0.85	7.0	2.2	2.2
Y2-100L-2	3.0	6.3	2930	83	0.87	7.0	2.2	2.2
Y2-112M-2	4.0	8.1	2930	85	0.88	8.0	2.2	2.2
Y2-132S1-2	5.5	11	2940	86	0.88	8.0	2.2	2.2
Y2-132S2-2	7.5	15	2950	87	0.88	8.0	2.2	2.2
Y2-160M1-2	11.0	21.3	2950	88	0.88	8.0	2.0	2.2
Y2-160M2-2	15.0	28.7	2970	89	0.89	8.0	2.0	2.2
Y2-160L-2	18.5	34.6	2970	90	0.90	8.0	2.0	2.2
Y2-180M-2	22.0	40.9	2970	90.5	0.90	8.0	2.0	2.2
Y2-200L1-2	30.0	55.4	2970	91.2	0.90	8.0	2.0	2.2
Y2-200L2-2	37.0	67.7	2980	92	0.90	8.0	2.0	2.2
Y2-225M-2	45.0	82.3	2980	92.3	0.90	8.0	1.8	2.2
Y2-250M-2	55	101	2980	92.5	0.90	7.0	1.8	2.2
Y2-280S-2	75	134	2980	93.0	0.90	7.0	1.8	2.2
Y2-280M-2	90	160	2980	93.8	0.91	7.0	1.8	2.2
Y2-315S-2	110	195	2980	94.0	0.91	6.8	1.8	2.2
Y2-315M-2	132	233	2980	94.5	0.91	6.8	1.8	2.2
Y2-315L1-2	160	279	2980	94.6	0.92	6.8	1.8	2.2
Y2-315L2-2	200	348	2980	94.8	0.92	6.8	1.8	2.2
Y2-355M-2	250	433	2980	95.3	0.92	7.0	1.6	2.2
Y2-355L-2	315	544	2980	95.6	0.92	7.1	1.6	2.2
Synchronous Speed 1500r/min(4 poles)50Hz								
Y2-631-4	0.12	0.44	1400	57	0.72	4.5	2.2	2.2
Y2-632-4	0.18	0.62	1400	60	0.73	4.5	2.2	2.2
Y2-711-4	0.25	0.79	1400	65	0.74	5.5	2.2	2.2
Y2-712-4	0.37	1.12	1400	67	0.75	5.5	2.2	2.2
Y2-801-4	0.55	1.6	1400	71	0.75	5.5	2.2	2.2
Y2-802-4	0.75	2.0	1400	73	0.77	6.0	2.2	2.2
Y2-90S-4	1.1	2.9	1400	75	0.77	6.0	2.2	2.2
Y2-90L-4	1.5	3.7	1400	78	0.79	6.0	2.2	2.2
Y2-100L1-4	2.2	5.1	1420	80	0.81	7.0	2.2	2.2
Y2-100L2-4	3.0	6.8	1420	82	0.82	7.0	2.2	2.2
Y2-112M-4	4.0	8.8	1440	84	0.82	7.0	2.2	2.2
Y2-132S-4	5.5	11.8	1440	85	0.83	7.0	2.2	2.2
Y2-132M-4	7.5	15.5	1440	87	0.84	7.0	2.0	2.0
Y2-160M-4	11.0	22.3	1460	88	0.85	7.0	2.0	2.2
Y2-160L-4	15.0	30	1460	89	0.85	7.0	2.0	2.2
Y2-180M-4	18.5	36.4	1470	90.5	0.85	7.5	2.2	2.2
Y2-180L-4	22.0	43.1	1470	91	0.85	7.5	2.2	2.2
Y2-200L-4	30.0	57.4	1470	92	0.86	7.5	2.2	2.2
Y2-225S-4	37.0	69.9	1480	92.5	0.87	7.5	2.2	2.2
Y2-225M-4	45.0	84.7	1480	92.8	0.87	7.5	2.2	2.2
Y2-250M-4	55	103	1480	93.0	0.89	7.0	2.2	2.2
Y2-280S-4	75	140	1480	93.8	0.86	7.0	2.2	2.2
Y2-280M-4	90	167	1490	94.2	0.86	7.0	2.2	2.2
Y2-315S-4	110	201	1490	94.5	0.87	6.9	2.1	2.2
Y2-315M-4	132	240	1490	94.8	0.87	6.9	2.1	2.2
Y2-315L1-4	160	287	1490	94.9	0.88	6.9	2.1	2.2
Y2-315L2-4	200	359	1490	95.0	0.88	6.9	2.3	2.2
Y2-355M-4	250	443	1485	95.3	0.88	6.8	2.3	2.2
Y2-355L-4	315	556	1485	95.6	0.89	6.9	2.2	2.2

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		Current at 380V (A)	Speed (r/min)	Eff. (%)	Power factor			
Synchronous Speed 1000r/min(6 poles)50Hz								
Y2-711-6	0.18	0.74	900	56	0.66	4.0	2.2	2.2
Y2-712-6	0.25	0.84	900	59	0.68	4.0	2.0	2.2
Y2-801-6	0.37	1.3	900	62	0.70	5.0	2.0	2.2
Y2-802-6	0.55	1.8	900	65	0.72	5.0	2.0	2.2
Y2-90S-6	0.75	2.3	910	69	0.72	5.5	2.0	2.2
Y2-90L-6	1.1	3.2	910	72	0.73	5.5	2.0	2.2
Y2-100L-6	1.5	3.9	940	76	0.76	5.5	2.0	2.2
Y2-112M-6	2.2	5.6	940	79	0.76	6.5	2.0	2.2
Y2-132S-6	3.0	7.4	960	81	0.76	6.5	2.0	2.2
Y2-132M1-6	4.0	9.7	960	82	0.76	6.5	2.0	2.2
Y2-132M2-6	5.5	12.9	960	84	0.77	6.5	2.0	2.0
Y2-160M	7.5	16.5	970	86	0.80	6.5	2.0	2.0
Y2-160L-6	11.0	24.1	970	87.5	0.79	6.5	2.0	2.0
Y2-180L-6	15.0	31.5	970	89	0.81	7.0	2.0	2.0
Y2-200L1-6	18.5	38.5	970	90	0.81	7.0	2.0	2.0
Y2-200L2-6	22.0	44.6	970	90	0.83	7.0	2.0	2.0
Y2-225M-6	30.0	59.3	980	91.5	0.84	7.0	2.0	2.1
Y2-250M-6	37.0	71.0	980	92.0	0.86	7.0	2.0	2.1
Y2-280S-6	45.0	86.0	980	92.5	0.86	7.0	2.0	2.0
Y2-280M-6	55	105	980	92.6	0.86	7.0	2.0	2.0
Y2-315S-6	75	141	990	93.5	0.86	7.0	2.0	2.0
Y2-315M-6	90	169	990	93.8	0.86	7.0	2.0	2.0
Y2-315L1-6	110	206	990	94.0	0.86	6.7	2.0	2.0
Y2-315L2-6	132	244	990	94.2	0.87	6.7	2.0	2.0
Y2-355M1-6	160	292	990	94.5	0.88	6.7	1.9	2.0
Y2-355M2-6	200	365	990	94.7	0.88	6.7	1.9	2.0
Y2-355L-6	250	455	990	94.9	0.88	6.7	1.9	2.0
Synchronous Speed 750r/min(8 poles)50Hz								
Y2-801-8	0.18	0.86	680	51	0.61	3.3	1.8	1.9
Y2-802-8	0.25	1.15	680	54	0.61	3.3	1.8	1.9
Y2-90S-8	0.37	1.5	680	62	0.61	4.0	1.8	1.9
Y2-90L-8	0.55	2.2	700	63	0.61	4.0	1.8	2.2.0
Y2-100L1-8	0.75	2.4	700	71	0.67	4.0	1.8	2.0
Y2-100L2-8	1.1	3.3	700	73	0.69	5.0	1.8	2.0
Y2-112M-8	1.5	4.6	700	75	0.68	5.0	1.8	2.0
Y2-132S-8	2.2	6.0	710	78	0.71	6.0	2.0	2.0
Y2-132M-8	3.0	7.9	710	79	0.73	6.0	2.0	2.0
Y2-160M1-8	4.0	10.2	720	81	0.73	6.0	2.0	2.0
Y2-160M2-4	5.5	13.6	720	83	0.74	6.0	2.0	2.0
Y2-160L-8	7.5	17.7	720	85.5	0.75	6.0	2.0	2.0
Y2-180L-8	11.0	25.1	730	87.5	0.76	6.5	2.0	2.0
Y2-200L-8	15.0	34.0	730	88	0.76	6.5	2.0	2.0
Y2-225S-8	18.5	40.6	740	90.0	0.76	6.6	1.9	2.0
Y2-225M-8	22.0	47.4	740	90.5	0.76	6.6	1.9	2.0
Y2-250M-8	30.0	64.0	740	91.0	0.79	6.6	1.9	2.0
Y2-280S-8	37.0	78.0	740	91.5	0.79	6.6	1.9	2.0
Y2-280M-4	45.0	94.0	740	92.0	0.79	6.6	1.9	2.0
Y2-315S-8	55	111	740	92.8	0.81	6.6	1.5	2.0
Y2-315M-8	75	151	740	93.0	0.81	6.6	1.5	2.0
Y2-315L1-8	90	178	740	93.8	0.82	6.6	1.5	2.0
Y2-315L2-8	110	217	740	94.0	0.82	6.4	1.5	2.0
Y2-355M1-8	132	261	740	93.7	0.82	6.4	1.5	2.0
Y2-355M2-8	160	313	740	94.2	0.82	6.4	1.5	2.0
Y2-355L-8	200	389	740	94.5	0.83	6.4	1.5	2.0
Synchronous Speed 600r/min(10 poles)50Hz								
Y2-315S-10	45	100	590	91.5	0.75	6.2	1.5	2.0
Y2-315M-10	55	121	590	92	0.75	6.2	1.5	2.0
Y2-315L1-10	75	162	590	92.5	0.76	6.2	1.5	2.0
Y2-315L2-10	90	191	590	93	0.77	6.2	1.5	2.0
Y2-355M1-10	110	230	590	93.2	0.78	6.0	1.3	2.0
Y2-355M2-10	132	275	590	93.5	0.78	6.0	1.3	2.0
Y2-355L-10	160	334	590	93.5	0.78	6.0	1.3	2.0

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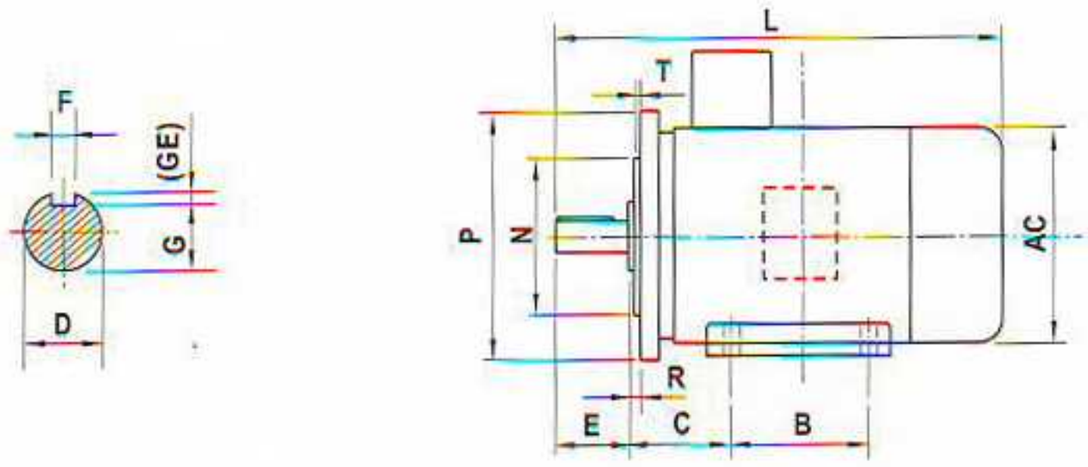
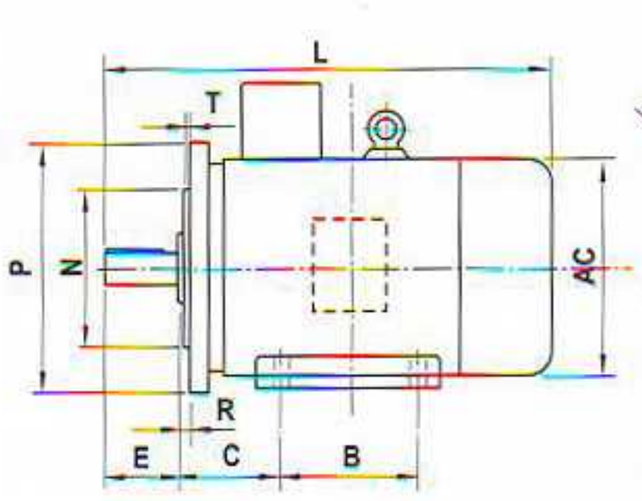
INSTALLATION SIZE & OVERALL DIMENSIONS



H630~90



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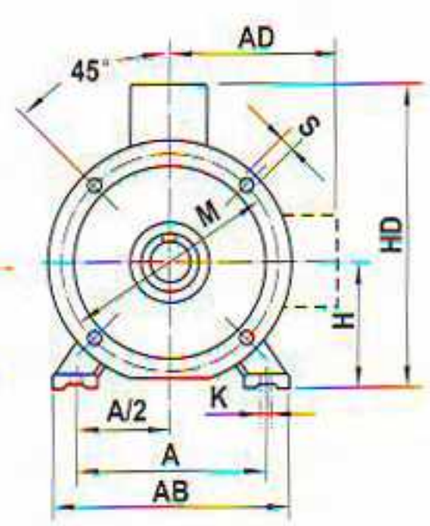

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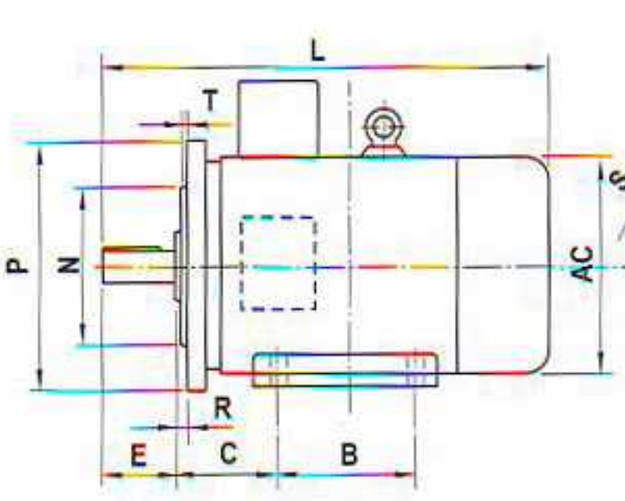

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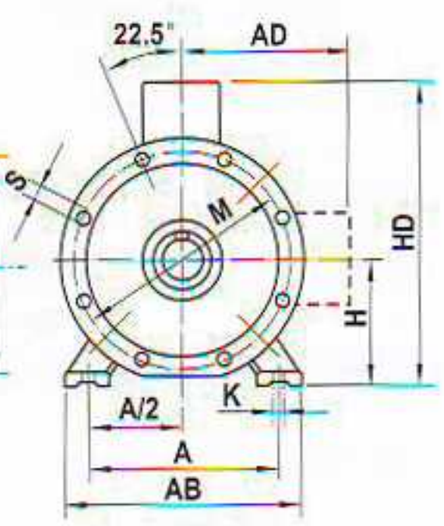

H225

Frame with feet and end shield with flange (with plain holes)

Frame Size	Flange No.	Poles	Mounting Dimensions(mm)																Frame Dimensions(mm)				
			A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Flange holes.	AB	AC	AD	HD	L
63	FF115	2,4	100	50	80	40	11	23	4	8.5	63	7	115	95	140	0	10	3	-	135	130	70	180	225
71	FF130	2,4,6	112	56	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	-	150	145	80	195	250
80	FF165	2,4,6	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	-	165	175	145	214	295
90S	FF165	2,4,6	140	70	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	-	180	195	155	250	315
90L	FF165	2,4,6	140	70	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	-	180	195	155	250	340
100L	FF215	2,4,6	160	80	140	63	28	60	8	24	100	12	215	180	250	0	15	4	4	205	215	180	270	385
112M	FF215	2,4,6	190	95	140	70	28	60	8	24	112	12	215	180	250	0	15	4	4	230	240	190	300	400
132S	FF265	2,4,6	216	108	140	89	38	80	10	33	132	12	265	230	300	0	15	4	4	270	275	210	345	470
132M	FF265	2,4,6	216	108	178	89	38	80	10	33	132	12	265	230	300	0	15	4	4	270	275	210	345	510
160M	FF300	2,4,6	254	127	210	108	42	110	12	37	160	15	300	250	350	0	15	5	4	320	330	255	420	615
160L	FF300	2,4,6	254	127	254	108	42	110	12	37	160	15	300	250	350	0	15	5	4	320	330	255	420	670
180M	FF300	2,4,6	279	139.5	241	121	48	110	14	42.5	180	15	300	250	350	0	19	5	4	335	380	280	455	700
180L	FF300	2,4,6	279	139.5	279	121	48	110	14	42.5	180	15	300	250	350	0	19	5	4	335	380	280	455	740
200L	FF350	2,4,6	318	159	305	133	55	110	16	49	200	19	350	300	400	0	19	5	4	395	420	305	545	770
225S	FF400	4,8	356	178	286	149	60	140	18	53	225	19	400	350	450	0	19	5	8	435	470	335	555	815
225M	FF400	2	356	178	311	149	55	110	16	49	225	19	400	350	450	0	19	5	8	435	470	335	555	820
225M	FF400	4,6	356	178	311	149	60	140	18	53	225	19	400	350	450	0	19	5	8	435	470	335	555	845

Note: R is the distance from the flange mounting-plane to the shaft-extension shoulder.