



KIRLOSKAR BROTHERS LTD.

EFFICIENT • SILENT • HEAVY DUTY INDUCTION MOTOR



HIGH EFFICIENCY IN THE RANGE OF LEVEL1 as per IS12615&325 BARE SHAFT MOTOR INDUS3
State Of Art Facilities And Input Materials #Built In Quality And Consistency In
Machining Process,# Verification#Testing Process #Built In Efficiencies Higher Than
Average Of Competition In Almost All The Cases #Best In 75% Cases #Eff1 Level In
20% Cases#Saves Energy And Thereby Reduces Running Costs. #Built In Quality And
Consistency In #Machining Process #Verification#Testing Process# Components Are
Machined On Latest Cnc Machines #Dynamically Balanced Rotors To Precision Class. #Skf-Zz
Bearings Are Used

FRAME:80-315,OUTPUT: 0.75-200 KW,V:415 ±10%,FREQ:50HZ ± 5%,COMBINE VARIATION: ±10%, INSULATION
:CLASS 'F' WITH 'B' CLASS TEMPERATURE, RATING:CONTINUOUS,MOUNTING:FOOT
&FLANGE,AMBIENT/TEMPERATURE RISE : 50°C, ENCLOSURE :TEFC,DEGREE OF PROTECTION: IP55,
ALTITUDE:UP TO 1000M ABOVE SEA LEVEL, BI DIRECTIONAL, LARGE TOP TERMINAL BOX FOR EASY CABLE
ENTRY, ALL MOTORS ARE PROVIDED WITH SHIELDED BALL BEARING, COMPA CT DESIGN AND BETTER
AESTHETICS, RUGGED CI CONSTRUCTION

Authorised Distributor Perfect Industrial Services
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Performance Data

Performance Data

3 Phase TEFC/ Squirrel Cage Motor, 2 Pole – 3000 rpm Synchronous Speed

185

Frame	Rated Power		Rated Current		Speed	% Eff. (FL)	Power Factor	Min. Torque		Max. Torque		Locked Torque		Locked Current		Noise Level At No Load	Vib. Speed	
	kW	HP	Amq	RPM				Rated Torque	Min. Torque	Max. Torque	Rated Torque	Max. Torque	Rated Current	Max. Current	dB (A)			m/s
	T _{tr}	T _{in}	T _{tr}	T _{in}				I _{tr}	I _{in}	dB (A)	m/s							
KI 100 KI 100	0.75 1.1	1 1.5	1.7 2.4	3030 3030	70.0 70.3	0.83 0.84	2.3 2.3	1.5 1.5	2.3 2.3	7.0 7.0	67 67	1.0 1.0						
KI 90S KI 90L	1.5 2.2	2 3	3.3 4.4	2970 2970	79.0 81.9	0.83 0.86	2.3 2.3	1.8 1.4	2.3 2.3	7.0 7.0	73 73	1.0 1.0						
KI 100L	3.7	5	7.0	2960	85.5	0.87	2.3	1.4	2.1	6.0	75	1.0						
KI 112M	5.5	7.5	10.0	2930	87.0	0.88	2.3	1.4	2.1	6.3	77	1.0						
KI 132S KI 132L	5.5 7.5	7.5 10	10.0 13.5	2930 2930	87.0 88.0	0.88 0.88	2.3 2.3	1.3 1.3	2.1 2.1	6.5 6.5	80 80	1.0 1.0						
KI 152M	9.3	12.5	16.8	2895	89.5	0.88	2.3	1.3	2.1	6.5	80	1.0						
KI 160M KI 160L	11 15	15 20	19.5 26.0	2940 2940	90.5 90.5	0.89 0.89	2.3 2.3	1.3 1.3	2.1 2.1	6.0 6.0	86 86	2.0 2.0						
KI 180L	18.5	25	31.7	2940	91.5	0.89	2.3	1.1	2.1	6.0	86	2.0						
KI 200M	30	40	51.0	2930	92.0	0.89	2.3	1.1	1.9	5.5	93	2.0						
KI 200L	37	50	62.0	2960	92.5	0.90	2.3	1.1	1.9	5.5	93	2.0						
KI 225M	45	60	78.0	2970	93.0	0.90	2.3	1.0	1.7	5.5	93	2.0						
KI 250M	55	75	93	2975	93.5	0.91	2.3	1.3	2.0	6.0	93	2.5						
KI 280S KI 280M	75 90	100 120	124 147	2975 2975	94.0 95.0	0.91 0.91	2.3 2.3	1.3 1.3	2.0 2.0	6.0 6.0	94 94	3.5 3.5						

3 Phase TEFC/ Squirrel Cage Motor, 6 Pole – 1000 rpm Synchronous Speed

185

Frame	Rated Power		Rated Current		Speed	% Eff. (FL)	Power Factor	Min. Torque		Max. Torque		Locked Torque		Locked Current		Noise Level At No Load	Vib. Speed	
	kW	HP	Amq	RPM				Rated Torque	Min. Torque	Max. Torque	Rated Torque	Max. Torque	Rated Current	Max. Current	dB (A)			m/s
	T _{tr}	T _{in}	T _{tr}	T _{in}				I _{tr}	I _{in}	dB (A)	m/s							
KI 90S KI 90L	0.75 1.1	1 1.5	2.1 3.0	925 925	72.5 74.5	0.71 0.71	2.1 2.1	1.5 1.3	2.1 2.1	4.5 4.5	57 57	1.8 1.8						
KI 100L	1.5	2	3.7	930	78.0	0.74	2.1	1.3	2.1	4.5	61	1.8						
KI 112M	2.2	3	5.2	930	81.0	0.75	2.1	1.3	2.1	5.0	63	1.8						
KI 132M*	3.7	5	8.0	970	83.5	0.76	2.1	1.3	2.1	5.5	69	1.8						
KI 132M	5.5	7.5	11.5	970	86.5	0.77	2.1	1.3	2.1	6.0	69	1.8						
KI 160M KI 160L	7.5 11	10 15	15.5 22.0	970 970	88.5 89.0	0.78 0.80	2.1 2.1	1.3 1.2	1.9 1.9	5.0 5.5	73 73	2.8 2.8						
KI 180L	15	20	26.0	980	90.0	0.83	2.1	1.2	1.9	5.5	73	2.8						
KI 200L	18.5	25	33.0	980	91.5	0.86	2.1	1.2	1.9	6.0	76	2.8						
KI 200L	22	30	39.0	980	92.0	0.86	2.1	1.2	1.9	6.5	76	2.8						
KI 225M	30	40	52.5	985	93.5	0.86	2.1	1.2	1.8	5.0	76	2.8						
KI 250M	37	50	65.0	985	93.5	0.86	2.2	1.2	1.8	6.0	78	3.5						
KI 280S KI 280M	45 55	60 75	77.0 94.0	985 985	93.5 93.8	0.86 0.88	2.2 2.2	1.2 1.2	1.8 1.8	6.0 6.0	80 80	3.5 3.5						

3 Phase TEFC/ Squirrel Cage Motor, 4 Pole – 1500 rpm Synchronous Speed

185

Frame	Rated Power		Rated Current		Speed	% Eff. (FL)	Power Factor	Min. Torque		Max. Torque		Locked Torque		Locked Current		Noise Level At No Load	Vib. Speed	
	kW	HP	Amq	RPM				Rated Torque	Min. Torque	Max. Torque	Rated Torque	Max. Torque	Rated Current	Max. Current	dB (A)			m/s
	T _{tr}	T _{in}	T _{tr}	T _{in}				I _{tr}	I _{in}	dB (A)	m/s							
KI 100 KI 100	0.55 0.75	0.75 1	1.4 1.8	1485 1485	73.5 75.5	0.75 0.77	2.3 2.3	1.7 1.6	2.4 2.4	6.0 6.0	55 55	1.8 1.8						
KI 90S KI 90L	1.1 1.5	1.5 2	2.6 3.4	1410 1410	76.5 81.0	0.76 0.78	2.3 2.3	1.8 1.8	2.3 2.3	6.5 6.5	62 62	1.8 1.8						
KI 100L	2.2	3	4.7	1430	83.0	0.80	2.3	1.5	2.3	7.1	65	1.8						
KI 112M	3.7	5	7.8	1450	86.0	0.80	2.3	1.5	2.3	7.1	66	1.8						
KI 132S KI 132M	5.5 7.5	7.5 10	11.0 14.0	1455 1455	87.0 88.0	0.81 0.83	2.3 2.3	1.4 1.4	2.3 2.3	7.1 7.1	71 71	1.8 1.8						
KI 152M	9.3	12.5	17.5	1440	88.5	0.85	2.3	1.3	2.3	6.0	80	1.8						
KI 160M KI 160L	11 15	15 20	20.0 27.5	1470 1470	90.5 91.0	0.85 0.84	2.3 2.3	1.4 1.4	2.1 2.1	7.7 7.7	75 75	2.8 2.8						
KI 180M KI 180L	18.5 22	25 30	33.5 44.0	1475 1475	93.5 93.8	0.86 0.86	2.3 2.3	1.3 1.3	2.1 2.1	7.7 7.7	77 77	2.8 2.8						
KI 200L	30	40	54.1	1480	93.5	0.86	2.3	1.3	2.1	7.5	79	2.8						
KI 225M	37	50	65.0	1480	94.0	0.87	2.3	1.3	1.7	7.3	81	2.8						
KI 250M	45	60	77.0	1480	94.3	0.87	2.3	1.3	1.8	7.3	81	2.8						
KI 280M	55	75	93	1485	94.5	0.9	2.3	1.5	2.0	6.5	83	3.5						
KI 280S KI 280M	75 90	100 120	123 147	1485 1485	94.7 95.0	0.9 0.9	2.3 2.3	1.5 1.5	2.0 2.0	6.5 6.0	86 86	3.5 3.5						

3 Phase TEFC/ Squirrel Cage Motor, 8 Pole – 750 rpm Synchronous Speed

185

Frame	Rated Power		Rated Current		Speed	% Eff. (FL)	Power Factor	Min. Torque		Max. Torque		Locked Torque		Locked Current		Noise Level At No Load	Vib. Speed	
	kW	HP	Amq	RPM				Rated Torque	Min. Torque	Max. Torque	Rated Torque	Max. Torque	Rated Current	Max. Current	dB (A)			m/s
	T _{tr}	T _{in}	T _{tr}	T _{in}				I _{tr}	I _{in}	dB (A)	m/s							
KI 100L	1.1	1.5	3.2	700	73.0	0.69	2.0	1.2	1.8	4.0	59	1.8						
KI 112M	1.5	2	4.2	710	75.0	0.69	2.0	1.2	1.8	4.0	61	1.8						
KI 132S	2.2	3	5.6	715	78.0	0.71	2.0	1.2	1.8	5.0	64	1.8						
KI 160M	3.7	5	8.8	720	81.0	0.73	2.0	1.2	1.9	5.5	68	2.8						
KI 160M	5.5	7.5	12.5	720	83.0	0.74	2.0	1.2	2.0	5.0	68	2.8						
KI 160L	7.5	10	16.5	720	85.5	0.75	2.0	1.2	2.0	6.0	68	2.8						
KI 180L	11	15	23.0	730	87.5	0.76	2.0	1.1	2.0	5.5	70	2.8						
KI 200L	15	20	32.0	730	88.0	0.76	2.0	1.1	2.0	5.0	73	2.8						
KI 225M	18.5	25	38.0	735	90.0	0.76	2.0	1.1	1.9	5.0	73	2.8						
KI 225M	22	30	44.0	735	91.5	0.78	2.0	1.1	1.9	5.0	73	2.8						
KI 250M	30	40	60.8	735	91.0	0.80	2.2	1.2	1.9	6.0	75	3.5						
KI 280S KI 280M	37 45	50 60	73.9 89.4	740 740	91.5 92.0	0.80 0.80	2.2 2.2	1.2 1.2	1.9 1.9	6.0 6.0	76 76	3.5 3.5						

Note: Performance figures declared are at rated supply condition and are subject to IS:325 tolerance.
*Motor Provided also with Mounting holes suitable for 132S frame.

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