

RAVI SERIES

IE-2 & IE-3 Efficiency Cage Motors

Our Product Line

AC&DC Motors | AC Generators | Transformer | Switchgear | DG Sets

RAVI SERIES
IE-2 AND IE-3 EFFICIENCY CAGE MOTORS

Kirloskar Electric Co.Ltd.
Kirloskar Electric Company is a premier electrical equipment manufacturer in India since 1946, with its manufacturing locations situated in Bengaluru, Hubballi, Mysuru, Tumakuru and Pune. AC Motors, AC Generators, Transformer, Switchgear and DG Sets are the products in its manufacturing range.
Kirloskar Electric at Hubballi manufactures a wide range of Low Voltage AC Induction motors, such as Increased Safety, Non-Sparking, Flame Proof, Crane Duty, Fire Fighting and Special Application motors.

Introduction
Electric Motors are the most important type of electric load in every industry. The motor driven systems account for about 70% of the energy consumed by the industry. There is a large potential for cost effective solution in the use of energy efficient motor systems by about 20% to 30%.
Energy efficient motors form a major component in contributing to the energy saving.

Product
Ravi series is the new range of Low Voltage Cage motors from Kirloskar Electric stable in compliance with IS/IEC 60034-1. These motors are compact, reliable and robust in nature and embody the unrivalled experience of Kirloskar Electric in the manufacture of Electric Motors for diverse applications.

Governing Standards

Performance	:	IS/IEC 60034-1
Output and Dimension	:	IS 1231 & 2223
Degree of Protection	:	IS/IEC 60034-5
Cooling	:	IS 6362
Noise Level	:	IS 12065
Vibration Level	:	IS 12075

Specification

Frame & Output (kW)	:	0.12kW to 375kW
Input Voltage (V)	:	415 +/- 10%
Frequency (Hz)	:	50Hz +/- 5%
Combined Variations	:	10%
Ambient Temperature	:	50deg C
Duty	:	S1
Insulation	:	Class F
Temperature Rise	:	Class B
Protection	:	IP 55

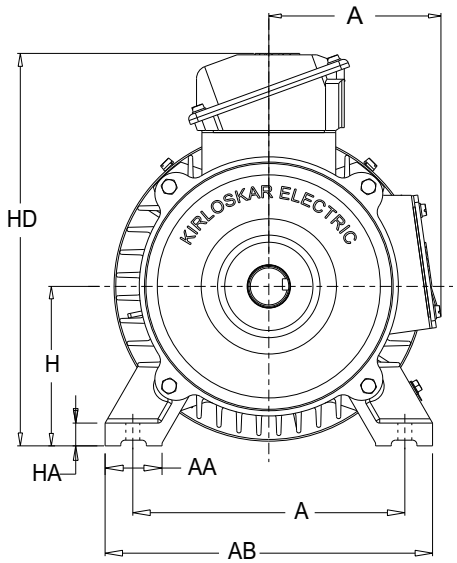
Application
Motors are ideal for various industrial applications like :
- Pumps
- Compressors
- Fans
- Crushers
- Machine Tools
- Textiles
- Conveyors

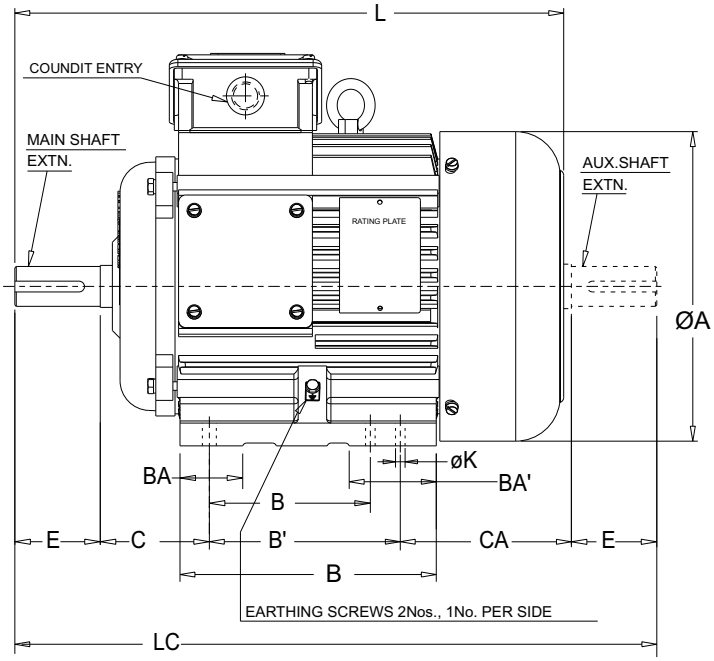
Features
- Motors with Cast Iron Body from 63 to 355 frame.
- Design with Top Terminal Box as standard.
- Side Terminal Box option available.
- Terminal Box position can be changed at site.
- Provision for dual mounting wherever applicable.
- Design with bolt arrangement gives more rigidity
- Sealed bearing arrangement for frames 63 to 225
- Large Terminal Boxes with sufficient electrical clearances and improved aesthetics.
- Optimum fan design for better cooling & minimum energy consumption.
- Motors are tough, reliable and long lasting.
- Motors to suit for customized duty cycle.
- Design with Top T.Box as Standard for frames upto 315 and side T.Box for 355 frame

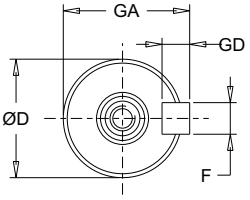
Product Optional's
- Foot or Flange or Foot cum Flange mounting.
- Single or Double Shaft Extensions.
- Supply Voltages of 220/380/400/415/440/690V
- Supply Frequency 50 or 60 Hz.
- Class H insulation, Motor with Brake / suitable Brake mounting, motors suitable for encoder

When you order, pls furnish
- Application
- Mounting
- Ambient Temperature
- Load Gd2.
- Input Supply conditions & %age Variation
- Method of Starting

Foot Mounted Motors







DETAILS OF SHAFT EXTENSION
MAIN & AXULLARY

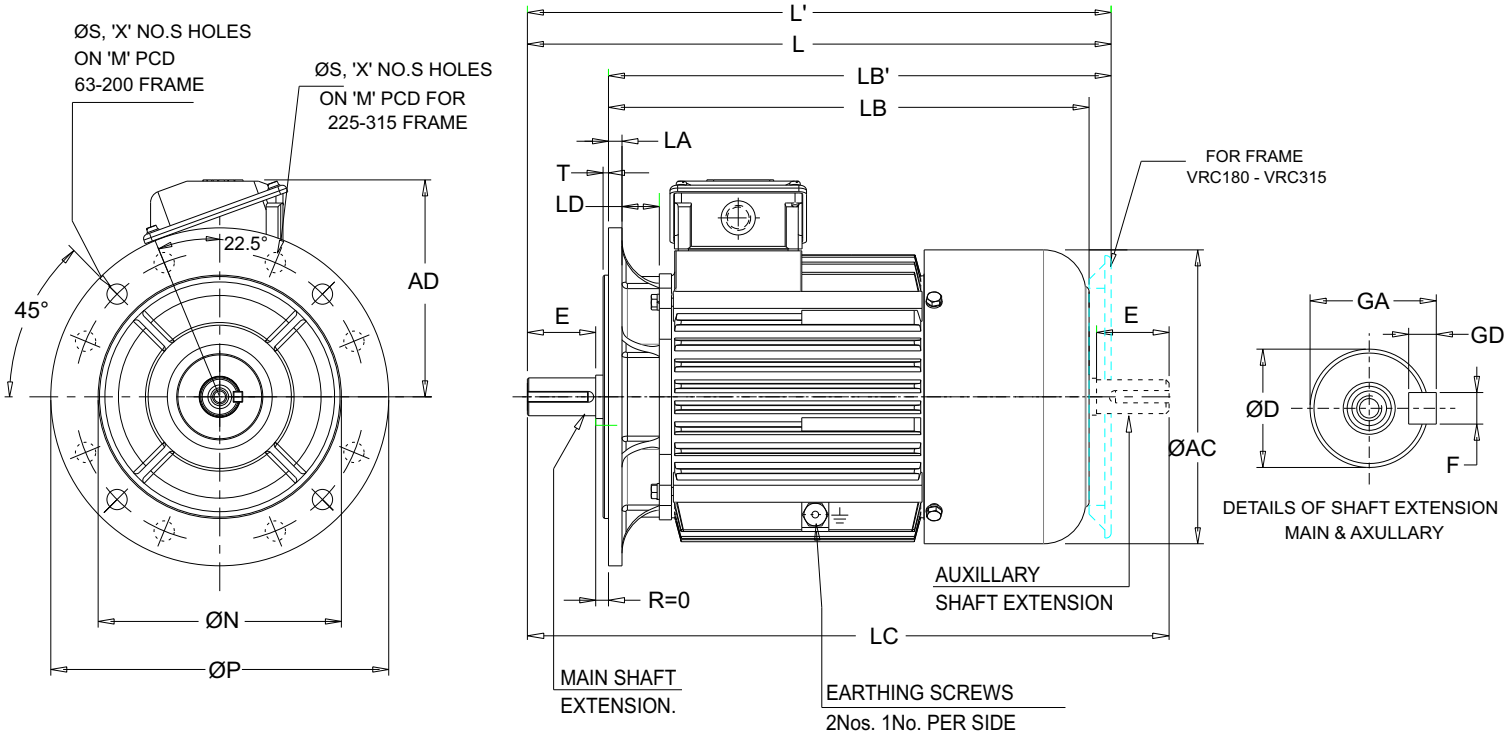
TABLE-1

SLNo.	FRAME	POLE	A	AA	AB	ØAC	AD	B	B'	BA	BA'	BB	C	CA	D	E	F	GA	GD	H	HA	HD	ØK	L	LC
01	RC63	2,4,6,8	100	25	125	122	75	80	--	23	23	96	40	72	11	23	4	12.5	4	63	8	165	7	210	238
02	RC71		112	25	137	140	75	90	--	28	28	106	45	70	14	30	5	16	5	71	9	180	7	233	265
03	RC80		125	30	155	155	95	100	--	32	32	125	50	80	19	40	6	21.5	6	80	10	205	10	270	310
04	RC90SL		140	35	176	175	102.5	100	125	45	45	145	56	87	24	50	8	27	7	90	13	225	10	345	396
06	RC100L		160	40	200	192	113	140	--	40	40	170	63	99	28	60	8	31	7	100	15	242	12	388	452
07	RC112M		190	40	230	218	123.5	140	--	40	40	180	70	115	28	60	8	31	7	112	16	266	12	415	480
08	RC132SM		216	40	256	258	142	140	178	74	74	218	89	137	38	80	10	41	8	132	17	305	12	505	590
09	RC160ML		254	60	314	310	176	210	254	110	110	314	108	167	42	110	12	45	8	160	26	420	15	640	749
10	RC180ML		279	64	330	350	200	241	279	100	100	330	121	205	48	110	14	51.5	9	180	28	465	15	717	825
11	RC200L		318	90	390	398	237	305	--	80	80	356	133	225	55	110	16	59	10	200	34	510	19	775	883
12	RC225SM	2	356	76	444	458	275	286	311	90	90	356	149	253	55	110	16	59	10	225	34	580	19	825	933
		4,6,8													60	140	18	64	11					855	993
13	RC250SM	2	406	90	500	508	310	311	349	125	125	419	168	273	60	140	18	64	11	250	42	660	24	990	1086
		4,6,8													65		18	69	11						
14	RC280SM	2	457	100	550	555	350	368	419	126	126	490	190	296	65	140	18	69	11	280	42	710	24	1035	1200
		4,6,8													75		20	79.5	12						
15	RC315SM	2	508	120	630	622	380	406	457	150	150	537	216	352	65	140	18	69	11	315	51	860	28	1155	1305
		4,6,8													80	170	22	85	14					1185	1365
16	RC315L	2	508	120	630	622	380	508	--	150	150	858	216	352	65	140	18	69	11	315	44	860	28	1475	1625
		4,6,8													80	170	22	85	14					1505	1685

NOTE:.

1. DIMENSION AND TOLERANCE ARE AS PER IS:1231
2. DEGREE OF PROTECTION : IP:55

Flange Mounted Motors



SLNo.	FRAME	POLE	D	E	F	L	L'	M	ØN	ØP	ØS	X	T	ØAC	AD	GA	GD	LA	LB	LB'	LD	LC
01	BRC63	2,4,6,8	11	23	4	210	—	115	95	140	10	4	3.0	123	105	12.5	4	9	187	—	14	238
02	BRC71		14	30	5	233	—	130	110	160	10		3.5	140	109	16	5	9	203	—	18	265
03	BRC80		19	40	6	270	—	165	130	200	12		3.5	156	130	21.5	6	10	230	—	12.5	310
04	BRC90		24	50	8	345	—	165	130	200	12		3.5	175	140	27	7	10	268	—	22.5	396
06	BRC100		28	60	8	388	—	215	180	250	15	8	4.0	193	152	31	7	10	300	—	25.5	452
07	BRC112		28	60	8	415	—	215	180	250	15		4.0	218	160	31	7	10	325	—	27.5	480
08	BRC132		38	80	10	505	—	265	230	300	15		4.0	260	180	41	8	12	400	—	29	590
10	BRC160		42	110	12	640	—	300	250	350	19		5.0	310	270	45	8	13	530	—	37	749
11	VRC180		48	110	14	—	745	300	250	350	19	4	5.0	380	285	51.5	9	13.5	—	635	42	--
12	VRC200		55	110	16	—	800	350	300	400	19		5.0	398	315	59	10	15.5	—	690	45	--
13	VRC225	2	55	110	16	—	825	400	350	450	19	8	5.0	486	355	59	10	16	—	745	59	--
		4,6,8	60	140	18	—	855									64	11					--
14	VRC250	2	60	140	18	—	990	500	450	550	19		5.0	508	410	64	11	19	—	880	50	--
		4,6,8	65	140	18											69	11					--
15	VRC280	2	65	140	18	—	1035	500	450	550	19		5.0	560	430	69	11	23	—	930	65	--
		4,6,8	75	140	20											79.5	12					--
16	VRC315	2	65	140	18	—	1475	600	550	660	24		6.0	900	605	69	11	24	—	1180	58	--
		4,6,8	80	170	22	—	1505									85	14					--

NOTE:.

1. DIMENSION AND TOLERANCE ARE AS PER IS:2223
2. DEGREE OF PROTECTION : IP:55

PERFORMANCE CHART

IE-2 MOTORS

TEFC, 3Phase, IE-2 Efficiency Cage Induction Motors

	FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	Efficiency			Power Factor			GD2	Stall Time (secs)	
		(kW)	(RPM)	(Amps)	(pu)	(pu)	(pu)	(pu)	F.L	3/4	1/2	F.L	3/4	1/2	(kg-m2)	Cold	Hot
2	63	0.12	2750	0.4	5.0	2.5	2.0	2.7	53.6	46.6	38.6	0.74	0.64	0.45	0.0001	15	10
	63	0.18	2750	0.6	5.0	2.5	2.0	2.7	60.4	53.4	45.4	0.74	0.64	0.45	0.0001	15	10
	63	0.25	2750	0.7	5.0	2.5	2.0	2.7	64.8	57.8	49.8	0.74	0.64	0.45	0.0001	15	10
	71	0.37	2800	0.9	5.0	2.8	2.6	3.0	69.5	69.5	63.0	0.82	0.76	0.60	0.0026	15	10
	71	0.55	2800	1.3	5.0	2.8	2.6	3.0	74.1	74.1	68.0	0.82	0.76	0.60	0.0026	15	10
	80	0.75	2810	1.6	6.0	2.8	2.6	3.0	77.4	77.4	72.0	0.84	0.76	0.60	0.0027	15	10
	80	1.1	2820	2.3	6.0	2.8	2.6	3.0	79.6	79.6	76.0	0.84	0.78	0.68	0.0036	15	10
	90S	1.5	2830	3.0	6.0	2.7	2.4	2.9	81.3	81.3	78.0	0.87	0.78	0.70	0.0052	18	12
	90L	2.2	2830	4.2	6.0	2.8	2.6	3.0	83.2	83.2	80.0	0.87	0.78	0.70	0.0068	18	12
	100L	3.7	2845	6.9	7.0	3.0	2.8	3.2	85.5	85.5	82.0	0.87	0.84	0.76	0.0100	18	12
	132S	5.5	2895	9.8	7.0	2.5	2.3	3.0	87.0	87.0	84.0	0.90	0.88	0.84	0.0430	18	12
	132S	7.5	2900	13.2	7.0	2.5	2.3	3.0	88.1	88.1	86.0	0.90	0.88	0.84	0.0520	18	12
	160M	9.3	2925	16.2	7.0	2.5	2.3	3.0	88.9	88.9	86.0	0.90	0.88	0.84	0.1800	18	12
	160M	11	2935	19.0	7.0	2.3	2.1	2.8	89.4	89.4	86.0	0.90	0.88	0.84	0.1800	18	12
	160M	15	2935	26	7.0	2.8	2.4	3.0	90.3	90.3	88.0	0.90	0.88	0.84	0.1800	18	12
	160L	18.5	2935	31	7.0	3.0	2.6	3.0	90.9	90.9	88.0	0.90	0.88	0.84	0.2400	18	12
	180M	22	2945	37	7.0	2.0	1.8	2.8	91.3	91.3	88.0	0.90	0.88	0.84	0.4000	20	15
	200L	30	2950	50	7.0	2.5	2.2	3.0	92.0	92.0	88.0	0.90	0.88	0.84	0.7500	20	15
	200L	37	2950	62	7.0	2.5	2.3	3.2	92.5	92.5	90.0	0.90	0.88	0.82	0.8500	20	15
	225M	45	2950	75	7.0	2.3	2.0	2.8	92.9	92.9	90.0	0.90	0.88	0.82	1.4	25	20
	250M	55	2955	91	7.0	2.2	2.0	2.7	93.2	93.2	90.0	0.90	0.88	0.82	2.8	30	20
	280S	75	2960	124	7.0	2.0	1.8	2.5	93.8	93.8	91.0	0.90	0.88	0.82	6.5	35	25
	280M	90	2960	148	7.0	1.8	1.6	2.5	94.1	94.1	91.0	0.90	0.88	0.82	7.0	35	25
	315S	110	2962	180	7.0	1.8	1.6	2.6	94.3	94.3	89.7	0.90	0.87	0.80	7.5	35	25
	315M	125	2967	204	7.0	1.8	1.6	2.6	94.5	94.5	90.2	0.90	0.88	0.80	8.0	35	25
	315M	132	2967	216	7.0	1.8	1.6	2.6	94.6	94.6	90.2	0.90	0.88	0.80	8.5	35	25
	315L	160	2967	261	7.0	1.8	1.6	2.6	94.8	94.8	91.2	0.90	0.88	0.80	11.0	35	25
	315L	200	2973	325	7.0	1.8	1.6	2.8	95.0	95.0	92.0	0.90	0.88	0.80	18.0	35	25
	X355X	250	2972	407	7.0	1.7	1.4	2.8	95.0	95.0	92.0	0.90	0.88	0.81	24.0	25	20
	355X	315	2968	524	7.0	1.7	1.4	2.7	95.0	95.0	92.0	0.88	0.86	0.80	23.0	25	20
	355X	355	2974	591	7.0	2.0	1.7	3.0	95.0	95.0	92.5	0.88	0.85	0.78	27.0	25	20
	355X	375	2974	624	7.0	1.9	1.6	2.9	95.0	95.0	92.5	0.88	0.85	0.78	27.0	25	20
4	63	0.12	1350	0.4	4.0	2.7	2.2	2.7	59.1	56.1	44.0	0.65	0.55	0.40	0.0008	18	10
	63	0.18	1350	0.6	4.0	2.7	2.2	2.7	64.7	61.7	50.0	0.65	0.55	0.40	0.0008	18	10
	71	0.25	1380	0.7	4.0	2.4	2.2	2.4	68.5	68.5	64.5	0.74	0.64	0.50	0.0026	18	10
	71	0.37	1380	1.0	5.0	2.4	2.2	2.4	72.7	70.1	66.0	0.74	0.64	0.50	0.0026	18	10
	80	0.55	1380	1.3	5.0	2.4	2.2	2.4	77.1	75.1	70.0	0.75	0.66	0.52	0.0039	18	10
	80	0.75	1380	1.8	5.0	2.4	2.2	2.4	79.6	79.6	72.0	0.74	0.65	0.50	0.0048	18	10
	90S	1.1	1390	2.4	5.0	2.3	2.1	2.3	81.4	81.4	72.5	0.78	0.69	0.54	0.0085	18	10
	90L	1.5	1395	3.2	5.0	2.3	2.1	2.3	82.8	82.8	75.0	0.78	0.69	0.54	0.0120	18	10
	100L	2.2	1405	4.5	6.0	2.7	2.5	2.7	84.3	84.3	81.0	0.80	0.74	0.64	0.0180	18	10
	112M	3.7	1430	7.3	6.0	2.5	2.3	2.7	86.3	86.3	81.5	0.82	0.75	0.62	0.0370	18	10
	132S	5.5	1440	10.6	6.5	2.3	2.1	2.6	87.7	87.7	84.0	0.82	0.75	0.62	0.0830	18	10
	132M	7.5	1445	14.0	6.5	2.5	2.3	2.8	88.7	88.7	85.0	0.84	0.76	0.66	0.1160	18	10
	160M	9.3	1450	17.2	6.5	2.2	2.0	2.4	89.3	89.3	86.0	0.84	0.80	0.69	0.2000	18	10
	160M	11	1454	21	6.5	2.4	2.2	2.6	89.8	89.8	86.0	0.83	0.76	0.63	0.2200	18	10
	160L	15	1455	28	7.0	2.5	2.3	2.7	90.6	90.6	87.0	0.81	0.75	0.61	0.2900	18	10
	180M	18.5	1472	33	7.0	2.1	1.9	2.7	91.2	91.2	89.0	0.85	0.82	0.75	0.6200	20	15
	180L	22	1472	38	7.0	2.1	1.9	2.7	91.6	91.6	89.0	0.87	0.82	0.75	0.7200	20	15
	200L	30	1475	50	7.0	2.2	2.0	2.8	92.3	92.3	90.0	0.90	0.88	0.80	1.7	20	15
	225S	37	1474	62	7.0	2.5	2.3	2.7	92.7	92.7	90.0	0.90	0.88	0.80	2.3	25	20
	225M	45	1474	75	7.0	2.5	2.3	2.7	93.1	93.1	91.0	0.90	0.88	0.80	2.5	25	20
	250M	55	1480	94	7.0	2.2	2.0	2.8	93.5	93.5	91.0	0.87	0.84	0.80	4.4	40	25
	280S	75	1482	128	7.0	2.0	1.8	3.0	94.0	94.0	92.0	0.87	0.84	0.80	7.8	40	25
	280M	90	1483	153	7.0	2.2	2.0	3.0	94.2	94.2	92.0	0.87	0.84	0.80	9.5	40	25
	315S	110	1482	186	7.0	2.2	2.0	3.0	94.5	94.5	91.2	0.87	0.84	0.76	13.0	60	30
	315M	125	1483	211	7.0	2.0	1.6	2.5	94.6	94.6	91.2	0.87	0.85	0.80	14.0	60	30
	315M	132	1483	220	7.0	2.3	2.1	3.0	94.7	94.7	91.2	0.88	0.86	0.80	14.5	60	30
	315L	160	1483	267	7.0	2.5	2.3	3.0	94.9	94.9	91.2	0.88	0.86	0.81	16.5	60	30
	315L	200	1484	332	7.0	2.5	2.3	3.0	95.1	95.1	92.0	0.88	0.84	0.75	22.0	60	30
	X355X	250	1485	416	7.0	2.2	1.8	3.0	95.1	95.1	92.0	0.88	0.84	0.75	24.0	50	30
	355X	315	1484	524	7.0	2.2	1.8	3.0	95.1	95.1	92.0	0.88	0.84	0.75	30.0	50	30
	355X	355	1484	597	7.0	2.2	1.8	3.0	95.1	95.1	92.0	0.87	0.84	0.75	34.0	50	30
	355X	375	1483	631	7.0	2.1	1.7	2.9	95.1	95.1	92.0	0.87	0.84	0.75	35.0	50	30

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 :
Reference standard was IS 12615

PERFORMANCE CHART

IE-2 MOTORS

TEFC, 3Phase, IE-2 Efficiency Cage Induction Motors

Poles	FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%EFFICIENCY			POWER FACTOR			GD2	STALL TIME (Secs)	
		(kW)	(rpm)	(Amps)	(pu)	(pu)	(pu)	(pu)	F.L.	3/4	1/2	F.L.	3/4	1/2	(kg-m ^{2})	Cold	Hot
P-6	80	0.37	915	1.2	5.0	2.2	2.0	2.4	67.6	63.6	52.6	0.65	0.56	0.46	0.0070	20	12
	80	0.55	915	1.5	5.0	2.2	2.0	2.4	73.1	69.1	58.1	0.70	0.58	0.46	0.0099	20	12
	90S	0.75	915	1.9	5.0	2.2	2.0	2.4	75.9	75.9	70.0	0.74	0.66	0.54	0.0165	20	12
	90L	1.1	920	2.6	5.0	2.0	1.8	2.3	78.1	78.1	72.0	0.75	0.66	0.56	0.0186	20	12
	100L	1.5	935	3.5	5.0	1.9	1.6	2.3	79.8	79.8	74.0	0.75	0.66	0.56	0.0360	20	12
	112M	2.2	940	4.9	5.5	2.2	2.0	2.3	81.8	81.8	78.0	0.76	0.68	0.56	0.0610	20	12
	132S	3.7	950	7.6	5.5	2.3	2.1	2.5	84.3	84.3	80.0	0.80	0.72	0.60	0.1160	20	12
	132M	5.5	954	11.1	6.0	2.1	1.9	2.6	86.0	86.0	83.0	0.80	0.74	0.60	0.1580	20	12
	160M	7.5	965	14.4	6.0	2.1	1.9	2.6	87.2	87.2	85.0	0.83	0.76	0.65	0.44	20	12
	160L	9.3	965	17.7	6.0	2.1	1.9	2.5	88.1	88.1	85.0	0.83	0.76	0.65	0.50	20	12
	160L	11	965	21	6.0	1.9	1.7	2.5	88.7	88.7	86.0	0.84	0.78	0.65	0.50	20	12
	180L	15	970	28	6.0	1.8	1.6	2.2	89.7	89.7	87.0	0.82	0.77	0.73	0.75	20	15
	200L	18.5	971	34	6.0	2.2	2.0	2.4	90.4	90.4	88.0	0.84	0.80	0.72	1.50	20	15
	200L	22	970	41	6.0	2.0	1.8	2.4	90.9	90.9	88.0	0.83	0.80	0.72	1.90	20	15
	225M	30	974	54	6.0	1.8	1.6	2.2	91.7	91.7	90.0	0.84	0.82	0.76	2.50	20	15
	250M	37	983	65	6.5	1.8	1.6	2.5	92.2	92.2	90.0	0.86	0.82	0.76	5.10	50	30
	280S	45	985	79	6.5	2.0	1.8	2.8	92.7	92.7	90.0	0.86	0.82	0.76	9.40	60	35
	280M	55	985	96	6.0	2.0	1.8	2.5	93.1	93.1	91.0	0.86	0.82	0.76	10.30	60	35
	315S	75	986	129	7.0	2.2	2.0	2.8	93.7	93.7	89.7	0.86	0.82	0.74	15.50	60	35
	315M	90	987	155	7.0	2.2	2.0	2.7	94.0	94.0	90.7	0.86	0.82	0.74	17.50	60	35
	315M	110	987	189	7.0	2.4	2.2	2.7	94.3	94.3	91.2	0.86	0.82	0.74	20.00	60	35
	315L	125	987	214	7.0	2.4	2.2	2.7	94.4	94.4	91.2	0.86	0.82	0.74	22.00	60	35
	315L	132	987	226	7.0	2.4	2.2	2.7	94.6	94.6	91.2	0.86	0.82	0.74	23.50	60	35
	315L	160	985	280	7.0	2.2	2.0	2.5	94.8	93.8	91.0	0.84	0.78	0.66	31.00	40	20
	X355X	200	986	349	7.0	1.8	1.5	2.6	95.0	95.0	92.0	0.84	0.80	0.70	31.00	40	20
	355X	250	991	446	7.0	1.5	1.1	3.0	95.0	95.0	92.5	0.82	0.76	0.62	41.00	40	20
	355X	315	991	543	7.0	1.4	1.0	3.0	95.0	95.0	92.5	0.85	0.78	0.65	50.00	40	20
P-8	90S	0.37	685	1.4	4.0	1.8	1.45	2.0	56.1	54.1	44.0	0.64	0.52	0.41	0.0140	45	20
	90L	0.55	685	1.9	4.0	1.8	1.45	2.0	61.7	59.7	49.0	0.64	0.52	0.41	0.0180	45	20
	100L	0.75	685	2.2	4.0	1.5	1.15	1.6	66.2	64.0	56.0	0.71	0.61	0.44	0.0290	45	20
	100L	1.1	690	3.0	4.0	1.5	1.15	1.7	70.8	68.8	61.0	0.71	0.61	0.44	0.0385	45	20
	112M	1.5	685	4.0	4.0	1.6	1.25	1.8	74.1	73.1	68.0	0.71	0.61	0.45	0.0625	45	20
	132S	2.2	710	5.5	4.5	1.6	1.25	2.0	77.6	77.6	71.0	0.72	0.62	0.47	0.0950	30	15
	160M	3.7	715	8.2	5.0	1.5	1.15	2.0	81.4	81.4	75.0	0.77	0.71	0.58	0.3000	30	15
	160M	5.5	715	12.0	5.5	1.5	1.15	2.0	83.8	83.8	77.5	0.76	0.70	0.57	0.4000	30	15
	160L	7.5	718	16.1	5.5	1.5	1.15	2.0	85.3	85.3	78.9	0.76	0.70	0.57	0.5800	30	15
	180L	11	720	24	5.5	1.5	1.15	1.9	86.9	86.9	81.0	0.74	0.67	0.56	0.7600	20	15
	200L	15	725	31	5.5	1.8	1.45	2.0	88.0	88.0	83.0	0.77	0.71	0.58	1.80	20	15
	225S	18.5	730	39	5.5	1.4	1.05	1.6	88.6	88.6	85.0	0.75	0.71	0.59	2.40	20	15
	225M	22	730	46	5.5	1.4	1.05	1.6	89.1	89.1	85.5	0.75	0.70	0.59	2.70	20	15
	250M	30	735	62	6.0	1.7	1.35	2.5	89.8	89.8	86.0	0.75	0.67	0.53	6.20	60	30
	280S	37	738	71	6.0	2.0	1.65	2.5	90.3	89.3	86.0	0.80	0.75	0.63	10.50	60	30
	280M	45	739	86	6.0	2.0	1.65	2.6	90.7	89.7	86.2	0.80	0.75	0.63	13.20	60	30
	315S	55	739	105	6.0	2.0	1.65	2.5	91.0	90.0	86.5	0.80	0.75	0.63	19.30	60	30
	315M	75	740	146	6.0	2.2	1.85	2.7	91.6	90.6	87.0	0.78	0.72	0.60	22.40	60	30
	315M	90	739	175	6.0	2.2	1.85	2.5	91.9	90.9	87.5	0.78	0.73	0.61	25.50	60	30
	315L	110	738	207	6.0	1.8	1.45	2.3	92.3	91.3	88.0	0.80	0.75	0.63	30.00	60	30
	315LX	132	737	258	6.0	1.8	1.45	2.1	92.6	91.9	88.5	0.77	0.70	0.56	35.00	60	30
	X355X	160	738	323	6.0	1.8	1.45	2.5	93.0	92.5	89.5	0.74	0.67	0.54	33.00	60	30
	355X	200	738	397	6.0	1.7	1.35	2.4	93.5	93.0	90.0	0.75	0.68	0.56	41.00	60	30

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 :
Reference standard was IS 12615

PERFORMANCE CHART

IE-3 MOTORS

TEFC, 3Phase, IE-3 Efficiency Cage Induction Motors

	FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	Efficiency			Power Factor			GD2	Stall Time (secs)	
		(kW)	(RPM)	(Amps)	(pu)	(pu)	(pu)	(pu)	F.L	3/4	1/2	F.L	3/4	1/2	(kg-m2)	Cold	Hot
P2	63	0.12	2750	0.4	5	2.5	2	2.7	60.8	53.8	45.8	0.74	0.64	0.45	0.0001	15	10
	63	0.18	2750	0.5	5	2.5	2	2.7	65.9	58.9	50.9	0.74	0.64	0.45	0.0001	15	10
	63	0.25	2750	0.7	5	2.5	2	2.7	69.7	62.7	54.7	0.74	0.64	0.45	0.0001	15	10
	71	0.37	2800	0.9	5	3	2.8	3.2	73.8	73.8	67.6	0.82	0.76	0.6	0.0026	15	10
	71	0.55	2800	1.2	5	2.8	2.6	2.8	77.8	77.8	71.6	0.82	0.76	0.6	0.0026	15	10
	80	0.75	2815	1.5	6	3	2.8	3.2	80.7	80.7	75.3	0.84	0.76	0.6	0.0027	15	10
	80	1.1	2820	2.2	7	3	2.8	3.2	82.7	82.7	77.1	0.84	0.78	0.68	0.0036	15	10
	90S	1.5	2840	2.8	6.5	2.8	2.5	3	84.2	84.2	79	0.87	0.78	0.7	0.0052	18	12
	90L	2.2	2842	4.1	7	3	2.8	3.3	85.9	85.9	82.5	0.87	0.78	0.7	0.0078	18	12
	100L	3.7	2850	6.7	7	3.2	3	3.5	87.8	87.8	84	0.87	0.84	0.76	0.01	18	12
	132S	5.5	2900	9.5	7.7	2.8	2.5	3.3	89.2	89.2	86.5	0.9	0.88	0.84	0.043	18	12
	132S	7.5	2910	12.9	7.7	2.5	2.3	2.7	90.1	90.1	88	0.9	0.88	0.84	0.052	18	12
	160M	9.3	2942	15.8	7.7	2.6	2.4	3.2	90.7	90.7	88.5	0.9	0.88	0.84	0.18	18	12
	160M	11	2942	18.6	7.7	2.5	2.3	3	91.2	91.2	89	0.9	0.88	0.84	0.18	18	12
	160M	15	2942	25	7.7	2.8	2.5	3.3	91.9	91.9	89.6	0.9	0.88	0.84	0.2	18	12
	160L	18.5	2945	31	7.7	3	2.6	3.2	92.4	92.4	90.1	0.9	0.88	0.84	0.24	18	12
	180M	22	2945	37	7.7	2.3	2	3.2	92.7	92.7	90.5	0.9	0.88	0.84	0.4	20	15
	200L	30	2950	50	7.7	2.7	2.4	3.3	93.3	93.3	91	0.9	0.88	0.84	0.75	20	15
	200L	37	2952	61	7.7	2.7	2.4	3.5	93.7	93.7	91.3	0.9	0.88	0.82	0.85	20	15
	225M	45	2955	74	7.7	2.5	2.2	3.5	94	94	92	0.9	0.88	0.82	1.6	25	20
	250M	55	2960	90	7.7	2.5	2.2	3	94.3	94.3	92.2	0.9	0.88	0.82	3.1	30	20
	280S	75	2960	122	7.7	2	1.8	3	94.7	94.7	92.3	0.9	0.88	0.82	6.5	35	25
	280M	90	2962	146	7.7	2	1.8	3.5	95	95	92.5	0.9	0.88	0.82	7	35	25
	315S	110	2962	179	7.7	2	1.8	3	95.2	95.2	92.7	0.9	0.88	0.82	7.5	35	25
	315M	125	2968	203	7.7	2	1.8	3	95.3	95.3	92.8	0.9	0.88	0.82	8	35	25
	315M	132	2968	214	7.7	2	1.8	3	95.4	95.4	93	0.9	0.88	0.82	8.5	35	25
	315L	160	2968	259	7.7	2	1.8	3	95.6	95.6	93.2	0.9	0.88	0.82	11	35	25
	315L	200	2974	323	7.7	2	1.8	3	95.8	95.8	92.5	0.9	0.88	0.8	18	35	25
	X355X	250	2973	403	7.7	1.8	1.5	3	95.8	95.8	92.5	0.9	0.88	0.81	24	25	20
	355X	315	2969	520	7.7	1.8	1.5	2.8	95.8	95.8	92.5	0.88	0.86	0.8	23	25	20
	355X	355	2975	586	7.7	2.1	1.8	3.2	95.8	95.8	93	0.88	0.85	0.78	27	25	20
	355X	375	2975	619	7.7	2	1.7	3	95.8	95.8	93	0.88	0.85	0.78	27	25	20
P4	63	0.12	1350	0.4	4	2.7	2.2	2.7	64.8	56.1	44	0.65	0.55	0.4	0.0008	18	10
	63	0.18	1350	0.6	4	2.7	2.2	2.7	69.9	61.7	50	0.65	0.55	0.4	0.0008	18	10
	71	0.25	1380	0.6	4	2.4	2.2	2.4	73.5	73.5	68.5	0.74	0.64	0.5	0.0026	18	10
	71	0.37	1380	0.9	5	2.4	2.2	2.4	77.3	74.7	69	0.74	0.64	0.51	0.0026	18	10
	80	0.55	1395	1.3	5	2.6	2.4	2.6	80.8	78	73	0.75	0.68	0.54	0.0053	18	10
	80	0.75	1395	1.7	5	2.6	2.4	2.6	82.5	82.5	76	0.75	0.68	0.54	0.0053	18	10
	90S	1.1	1405	2.3	5	2.5	2.3	2.7	84.1	84.1	80	0.8	0.72	0.56	0.009	18	10
	90L	1.5	1410	3.1	5	2.8	2.5	2.8	85.3	85.3	82	0.8	0.72	0.56	0.014	18	10
	100L	2.2	1425	4.4	6	3	2.8	3.2	86.7	86.7	84.4	0.8	0.73	0.6	0.026	18	10
	112M	3.7	1435	7.1	6	2.7	2.5	2.9	88.4	87.4	83	0.82	0.74	0.6	0.054	18	10
	132S	5.5	1448	10.4	7.5	2.8	2.6	3.3	89.6	89.6	84.5	0.82	0.74	0.6	0.116	18	10
	132M	7.5	1445	13.9	7.5	2.8	2.6	3	90.4	90.4	86	0.83	0.75	0.62	0.132	18	10
	160M	9.3	1454	16.9	7	2.5	2.3	2.7	90.9	90.9	87.5	0.84	0.77	0.65	0.24	18	10
	160M	11	1456	20	7	2.5	2.3	2.9	91.4	91.4	88	0.82	0.75	0.62	0.28	18	10
	160L	15	1458	28	7	2.3	2.1	3	92.1	92.1	88.5	0.82	0.75	0.62	0.36	18	10
	180M	18.5	1475	33	7	2.5	2.3	3.3	92.6	92.6	90.3	0.85	0.8	0.7	0.62	20	15
	180L	22	1476	38	7	2.5	2.3	3.2	93	93	90.7	0.86	0.81	0.71	0.84	20	15
	200L	30	1476	50	7.5	2.7	2.5	3.3	93.6	93.6	91.3	0.89	0.85	0.77	1.8	20	15
	225S	37	1479	62	7.7	3	2.8	3.3	93.9	93.9	91.5	0.89	0.86	0.77	2.8	25	20
	225M	45	1479	74	7.7	3	2.8	3.3	94.2	94.2	92	0.9	0.88	0.77	3.2	25	20
	250M	55	1481	93	7.7	2.3	2.1	3.3	94.6	94.6	92.5	0.87	0.84	0.77	4.5	40	25
	280S	75	1483	125	7.7	2.5	2.3	3.3	95	95	92.5	0.88	0.84	0.76	8	40	25
	280M	90	1484	149	7.7	2.2	2	3.3	95.2	95.2	92.8	0.88	0.85	0.77	10	40	25
	315S	110	1484	182	7.5	2.5	2.3	3.3	95.4	95.4	92.8	0.88	0.85	0.77	14	60	30
	315M	125	1484	207	7	2.5	2.3	3	95.5	95.5	93	0.88	0.85	0.77	16	60	30
	315M	132	1484	218	7	2.5	2.3	3	95.6	95.6	93.2	0.88	0.85	0.77	16	60	30
	315L	160	1485	264	7	2.7	2.5	3.2	95.8	95.8	93.2	0.88	0.85	0.77	18	60	30
	315L	200	1485	329	7.7	2.7	2.3	3.3	96	96	93	0.88	0.84	0.75	23	60	30
	X355X	250	1486	412	7.7	2.3	1.9	3.1	96	96	93	0.88	0.84	0.75	24	50	30
	355X	315	1485	519	7.7	2.3	1.9	3.1	96	96	93	0.88	0.84	0.75	30	50	30
	355X	355	1485	591	7.7	2.3	1.9	3.1	96	96	93	0.87	0.84	0.75	34	50	30
	355X	375	1484	625	7.7	2.2	1.8	3	96	96	93	0.87	0.84	0.75	35	50	30

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 :
Reference standard was IS 12615

PERFORMANCE CHART

IE-3 MOTORS

TEFC, 3Phase, IE-3 Efficiency Cage Induction Motors

POLES	FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%EFFICIENCY			POWER FACTOR			GD2	STALL TIME (Secs)	
		(kW)	(rpm)	(Amps)	(pu)	(pu)	(pu)	(pu)	F.L.	3/4	1/2	F.L.	3/4	1/2	($kg\text{-}m^2$)	Cold	Hot
P6	80	0.37	915	1.1	5.0	2.4	2.2	2.5	73.5	69.5	58.5	0.65	0.56	0.46	0.0070	20	12
	80	0.55	915	1.4	5.0	2.2	2.0	2.4	77.2	73.0	62.0	0.70	0.58	0.46	0.0099	20	12
	90S	0.75	915	1.8	5.0	2.2	2.0	2.5	78.9	78.9	73.0	0.74	0.66	0.54	0.0186	20	12
	90L	1.1	920	2.5	5.0	2.2	2.0	2.3	81.0	81.0	75.2	0.75	0.66	0.56	0.0224	20	12
	100L	1.5	935	3.4	5.0	2.3	2.1	2.3	82.5	82.5	76.7	0.75	0.66	0.56	0.0360	20	12
	112M	2.2	940	4.8	5.5	2.3	2.1	2.3	84.3	84.3	78.0	0.76	0.68	0.56	0.0700	20	12
	132S	3.7	950	7.4	5.5	2.3	2.1	2.5	86.5	86.5	81.2	0.80	0.72	0.60	0.1350	20	12
	132M	5.5	954	10.9	6.0	2.5	2.3	2.7	88.0	88.0	84.0	0.80	0.74	0.60	0.1580	20	12
	160M	7.5	965	14.1	6.0	2.5	2.3	2.7	89.1	89.1	86.1	0.83	0.76	0.65	0.4800	20	12
	160L	9.3	965	17.4	6.0	2.4	2.2	2.5	89.7	89.7	86.5	0.83	0.76	0.65	0.5000	20	12
	160L	11	965	20	6.0	2.4	2.2	2.5	90.3	90.3	87.6	0.84	0.78	0.65	0.5200	20	12
	180L	15	971	28	6.0	2.0	1.8	2.3	91.2	91.2	88.5	0.82	0.77	0.73	0.7500	20	15
	200L	18.5	972	33	6.0	2.5	2.3	2.5	91.7	91.7	89.3	0.84	0.80	0.72	1.50	20	15
	200L	22	971	40	6.0	2.2	2.0	2.5	92.2	92.2	89.5	0.83	0.80	0.72	2.10	20	15
	225M	30	975	53	6.0	2.2	2.0	2.2	92.9	92.9	91.0	0.84	0.80	0.72	2.50	20	15
	250M	37	984	64	6.5	1.8	1.6	2.8	93.3	93.3	91.2	0.86	0.82	0.76	5.10	50	30
	280S	45	985	78	6.5	2.2	2.0	3.1	93.7	93.7	91.5	0.86	0.82	0.76	10.00	60	35
	280M	55	985	95	6.0	2.3	2.1	2.8	94.1	94.1	91.0	0.86	0.82	0.76	10.30	60	35
	315S	75	986	128	7.0	2.5	2.3	3.0	94.6	94.6	89.7	0.86	0.82	0.74	15.50	60	35
	315M	90	988	153	7.0	2.5	2.3	3.0	94.9	94.9	90.7	0.86	0.82	0.74	17.50	60	35
	315M	110	988	187	7.0	2.5	2.3	3.0	95.1	95.1	91.2	0.86	0.82	0.74	20.00	60	35
	315M	125	987	212	7.0	2.5	2.3	3.0	95.2	95.2	91.2	0.86	0.82	0.74	22.00	60	35
	315L	132	988	224	7.0	2.5	2.3	3.0	95.4	95.4	91.2	0.86	0.82	0.74	23.50	60	35
	315L	160	989	277	7.7	2.6	2.4	3.0	95.6	94.6	91.8	0.84	0.78	0.66	35.00	40	20
	355X	200	990	346	7.7	1.6	1.2	3.0	95.8	95.8	92.8	0.84	0.78	0.66	33.00	40	20
	355X	250	992	443	7.7	1.7	1.3	3.3	95.8	95.8	93.3	0.82	0.76	0.62	41.00	40	20
	355X	315	991	538	7.7	1.5	1.1	3.3	95.8	95.8	93.3	0.85	0.78	0.65	50.00	40	20
P8	90S	0.37	685	1.2	4.0	1.8	1.45	2.1	69.3	67.3	57.0	0.64	0.52	0.41	0.0140	45	20
	90L	0.55	685	1.6	4.0	1.9	1.55	2.1	73.0	71.0	61.0	0.64	0.52	0.41	0.0180	45	20
	100L	0.75	690	2.0	4.0	1.5	1.15	1.7	75.0	73.0	65.0	0.71	0.61	0.44	0.0385	45	20
	100L	1.1	690	2.8	4.0	1.5	1.15	1.7	77.7	75.7	67.5	0.71	0.61	0.44	0.0385	45	20
	112M	1.5	690	3.7	4.0	1.7	1.35	1.8	79.7	78.7	73.0	0.71	0.61	0.45	0.0700	45	20
	132S	2.2	712	5.2	5.0	1.7	1.35	2.1	81.9	81.9	75.0	0.72	0.63	0.47	0.1180	30	15
	160M	3.7	715	7.9	5.0	1.5	1.15	2.0	84.5	84.5	78.0	0.77	0.71	0.58	0.30	30	15
	160M	5.5	715	11.7	6.0	1.5	1.15	2.0	86.2	86.2	79.5	0.76	0.70	0.57	0.40	30	15
	160L	7.5	718	15.7	6.0	1.5	1.15	2.0	87.3	87.3	81.0	0.76	0.70	0.57	0.58	30	15
	180L	11	722	23	6.0	1.6	1.25	2.0	88.6	88.6	82.5	0.74	0.67	0.56	0.87	20	15
	200L	15	730	30	6.0	2.0	1.65	2.2	89.6	89.6	84.5	0.77	0.71	0.58	2.00	20	15
	225S	18.5	732	38	6.0	1.5	1.15	1.7	90.1	90.1	86.5	0.75	0.71	0.59	2.40	20	15
	225M	22	735	45	6.0	1.5	1.15	1.6	90.6	90.6	87.0	0.75	0.70	0.59	3.30	20	15
	250M	30	735	61	7.0	1.8	1.45	2.6	91.3	91.3	87.5	0.75	0.67	0.53	6.20	60	30
	280S	37	738	70	7.0	2.0	1.65	2.5	91.8	90.8	87.5	0.80	0.75	0.63	10.50	60	30
	280M	45	739	85	7.0	2.0	1.65	2.6	92.2	91.2	87.7	0.80	0.75	0.63	13.20	60	30
	315S	55	740	103	7.0	2.2	1.85	2.6	92.5	91.5	88.0	0.80	0.75	0.63	20.80	60	30
	315M	75	740	144	7.0	2.2	1.85	2.7	93.1	92.1	88.5	0.78	0.72	0.60	22.40	60	30
	315M	90	739	172	7.0	2.2	1.85	2.5	93.4	92.4	89.0	0.78	0.73	0.61	25.50	60	30
	315L	110	738	204	7.0	1.8	1.45	2.3	93.7	92.7	89.0	0.80	0.75	0.63	30.00	60	30
	315LX	132	738	257	7.0	2.0	1.65	2.3	94.0	93.5	90.0	0.76	0.69	0.55	35.00	60	30
	X355X	160	738	319	7.0	1.8	1.45	2.5	94.3	93.8	90.5	0.74	0.67	0.54	33.00	60	30
	355X	200	738	392	7.0	1.7	1.35	2.4	94.6	94.1	91.0	0.75	0.68	0.56	41.00	60	30

NOTE : Performances declared are at rated supply conditions and are subjected to IS/IEC 60034-1 :
Reference standard was IS 12615

Shipping Dimension

Frame	Shipping Dimension	Nett Wt.	Gross Wt.
	L X B X H mm	Kg	Kg
63	320 X 215 X 240	5.3	6.8
71	320 X 215 X 244	6.8	8.3
80	350 X 290 X 255	13	14.5
90S	410 X 295 X 275	18	20
90L	410 X 295 X 275	21	23
100L	440 X 320 X 300	27	29
112M	460 X 360 X 330	38	41
132S	560 X 400 X 355	53	57
132M	560 X 400 X 355	66	70
160M	730 X 475 X 440	103	130
160L	730 X 475 X 440	117	155
180M	900 X 700 X 660	150	210
180L	900 X 700 X 660	180	250
200L	990 X 710 X 710	263	353
225S	990 X 890 X 760	337	437
225M	990 X 890 X 760	363	463
250M	1090 X 990 X 840	515	665
280S	1220 X 1100 X 915	710	880
280M	1220 X 1100 X 915	845	995
315SM	1350 X 1130 X 1540	1200	1400
315L	1350 X 1130 X 1540	1325	1525

Bearing Sizes

Frame	Bearing DE	Bearing NDE
63	6201 2RS	6201 2RS
71	6202 2RS	6202 2RS
80	6204 2RS	6204 2RS
90SL	6205 2RS	6205 2RS
100L	6206 2RS	6206 2RS
112M	6306 2RS	6206 2RS
132SM	6308 2RS	6208 2RS
160ML	6309 2RS	6309 2RS
180ML	6310 ZZ	6310 ZZ
200L	6312 ZZ	6212 ZZ
225SM	6313 ZZ	6313 ZZ
250M - 2P	6215 C3	6215 C3
250M - 4P,6P,8P	6314 C3	6314 C3
280SM - 2P	6215 C3	6215 C3
280SM - 4P, 6P, 8P	6317 C3	6317 C3
315SML - 2P	6315 C3	6315 C3
315SML - 4P, 6P, 8P	6319 C3	6319 C3

Note : All performance figures are at rated supply conditions and are subject to tolerance as per applicable standards.

Product upgradation is a continuous process. Hence, data in this catalouge is subject to change without prior notice. For the latest information, please get in touch with our Sales Office.

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