



KIRLOSKAR ELECTRIC

Committed to Innovation and Excellence



THREE PHASE AC CRANE DUTY MOTORS

ISO 9001:2008



**BUREAU
VERITAS**

SALIENT FEATURES

- High pull out torque and low rotor inertia
- Suitable for various intermittent duties S3, S4, S5
- Impregnation with Class F thermosetting varnish
- Large slip ring unit
- Ample size terminal box
- Dynamic balancing to ensure lower vibration
- Metallic fans for wound rotor motors



Product Line of Kirloskar Electric

AC & DC Motors | Generators | Transformers | Switchgear | Drives | DG Sets | Projects | Engineering

THREE PHASE AC CRANE DUTY MOTORS

Kirloskar Electric manufactures a wide range of AC motors. These motors are specially designed for crane applications and other arduous duties of auxiliary steel mill drives such as transfer cars, tilters, pushers, coilers, winchers etc. Both wound rotor (slip ring) motors and cage motors are used depending on the applications and controls.

RATING CHART FOR CRANE DUTY CAGE MOTORS

4POLE (1500 SRPM)				6POLE (1000 SRPM)				8POLE (750 SRPM)			
FRAME	S3	S4 & S5		FRAME	S3	S4 & S5		FRAME	S3	S4 & S5	
	60s/h	150s/h	300s/h		60s/h	150s/h	300s/h		60s/h	150s/h	300 s/h
PM71	0.55	0.55	0.55	PM71	0.37	0.37	0.37	PM90S	0.55	0.55	0.55
PM80	0.75	0.75	0.75	PM80	0.37	0.37	0.37	PM90L	0.75	0.75	0.75
PM80	1.1	1.1	1.1	PM80	0.55	0.55	0.55	PM100L	1.1	1.1	1.1
PM90S	1.5	1.5	1.5	PM80	0.75	0.75	0.75	PM100L	1.5	1.5	1.5
PM90L	2.2	2.2	2.2	PM90L	1.1	1.1	1.1	PM112M	2.2	2.2	2.2
PM100L	3.7	3.7	3.7	PM90L	1.5	1.5	1.5	PM132S	3.7	3.7	3.7
PM112M	5.5	5.5	5.5	PM100L	2.2	2.2	2.2	PM160M	5.5	5.5	5.5
PM132S	7.5	7.5	7.5	PM112M	3.7	3.7	3.7	PM160M	7.5	7.5	7.5
PM132M	9.3	9.3	9.3	PM132S	5.5	5.5	5.5	PM160L	9.3	9.3	9.3
PM160M	11.0	11.0	11.0	PM132M	7.5	7.5	7.5				
PM160M	15.0	15.0	15.0	PM160M	9.3	9.3	9.3				
PM160L	18.5	18.5	18.5	PM160L	11.0	11.0	11.0				
SC180L	22.0	22.0	22.0	PM160L	15.0	15.0	15.0				
SC200L	30.0	30.0	28.0	SC200L	18.5	18.5	18.5				
SC225S	37.0	37.0		SC200L	22.0	22.0	22.0				
SC225M	45.0	45.0		SC225M	30.0	30.0	28.0				

NOTE: s/h =starts and stops per hour | SRPM = synchronous rpm
Suitable for 40% CDF

FRAME	4 POLE 1500SRPM			ROTOR	Gd ²	6 POLE 1500SRPM			ROTOR	Gd ²
	S3	S4 & S5				S3	S4 & S5			
	6s/h	150s/h	300s/h	kg m ²		6s/h	150s/h	300s/h	kg m ²	
ID100L	3	2.4	1.5	0.1	ID100L	2	1.3	1	0.15	
ID112M	3.6	3	2.2	0.14	ID112M	2.4	1.8	1.5	0.22	

Suitable for 40% CDF

FRAME	6 POLE 1000SRPM			ROTOR	Gd ²	8 POLE 750SRPM			ROTOR	Gd ²
	S3	S4 & S5				S3	S4 & S5			
	6s/h	150s/h	300s/h	kg m ²		6s/h	150s/h	300s/h	kg m ²	
ID132M	3	2.6	2.2	0.2	ID160M	5.2	4.8	-	0.56	
ID132M	5	4.5	3.7	0.2	ID160L	7.5	6.7	-	0.65	
ID160M	7.5	6.7	5.5	0.5	ID180L	11	9.3	7.5	0.87	
ID160L	10.5	9	7.5	0.6	ID200L	15	13.5	11	2.4	
ID180L	15	13.5	11	0.9	ID225M	22	19.5	16.5	3.3	
ID200L	23	17.5	15	2.2	ID225M	28.5	24.5	20	4.5	
ID225M	28.5	24.5	20	3.3	ID250M	33.0	27.0	22.0	5.7	
ID225M	36	30.7	26	4.4	ID250M	37.0	30.0	26.0	6.0	
ID250M	39.5	33.7	27	5	ID250M	41.0	34.0	29.0	6.0	
ID250M	47.0	40.0	33.7	6	ID280S	50.0	41.0	35.0	13.0	
ID280S	64.5	53.5	45	11	ID280M	63.0	52.0	45.0	15.0	
ID280M	76.0	66.5	55.0	13.0						

Suitable for 40% CDF

SPECIFICATIONS

Voltage (V)	: 415V+/-10%, 3 Ph AC,
Freq (Hz)	: 50 Hz +/-5%
Insulation	: F
Starts/Hour	: 6/150/300
Over speed	: 2.5 times rated speed or 2000rpm whichever is less for 6 and 8 poles
Factor of inertia	: 2
Cyclic Duration factor (%)	: 25, 40, 60, 100
Mounting	: IM1001, 1002, 1003 & 1004
Rating (Cage)	: 0.37 - 45 kW
Rating (Wound motor)	: 1.5 - 75 kW
Frame (Cage)	: 71 - 225
Frame (Wound Motor)	: 100 - 280
Ambient	: 0 - 50°C
IP/IC	: 55/411
Terminal box position	: RHS from DE for cage motors and on top for wound rotor motors

STANDARDS

STANDARDS	IS
Rating & Performance	325
Output & Dimension	1231
Degrees of protection	4691
Method of cooling	6362
Construction & mounting	2253
Noise Level	12065
Vibration Level	12075
Terminal marking	4728

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