

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: KS1P4013A60X45XSX

Catalog No: AL08D2140MFAFTOAOO

1.4 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S5 Duty, KS132MA Frame, 60 CDF,  
600 Start/Hr., TEFC



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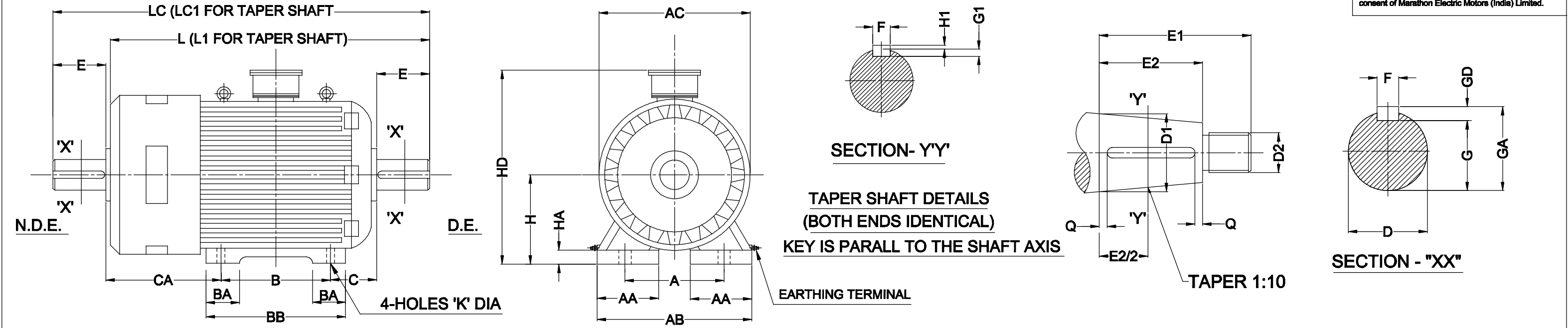
## Nameplate Specifications

Output HP	1.90 Hp	Output KW	1.4 kW
Frequency	50 Hz	Voltage	415 V
Current	4.7 A	Speed	720 rpm
Phase	3	Duty	S5
Frame	KS132MA	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 °C
Drive End Bearing Size	6308 ZZ	Opp Drive End Bearing Size	6308 ZZ
UL	No	CSA	No
CE	No	IP Code	55
CDF	60 %	Start/Hr	300
RA	7.8 A	RV	105 V
Insulation class Stator/Rotor	F/F	Temp. Rise Stator/Rotor	75/75 K
Stator Connection	Delta	Rotor Connection	Star
Efficiency Class	Standard		

## Technical Specifications


Electrical Type	Slipring	Starting Method	Rotor resistance starter
Rotation	Bi-Directional	Mounting	IMB3
Motor Orientation	Horizontal	Drive End Bearing	Antifriction
Opp Drive End Bearing	Antifriction	Frame Material	Cast Iron/Fabricated
Shaft Type	Single Cylinder	Overall Length	700.00 mm
Frame Length	700.00 mm	Shaft Diameter	38.000 mm
Shaft Extension	80 mm	Assembly/Box Mounting	Top
Rotor GD2	0.165 kg·m²	Pull Out Torque	4.2
Connection Drawing	DP1996	Outline Drawing	CM1383





PT. NO.	FRAME	POLE	D(SHAFT DIA)		E	GA	F		GD		G		H		FIXING DIMENSIONS				K	HA	AC	HD	AB	AA	BB	BA	L	LC	L1	LC1	TAPER SHAFT DIMENSIONS DETAILS (BOTH)							
			NOM.	TOL.			NOM.	TOL.	NOM.	TOL.	NOM.	TOL.	NOM.	TOL.	A	B	C	CA													D1	D2	E1	E2	F1	H1	G1	Q
1	KS112M	4-8	28	+0.009 -0.004	60	31	8	+0 -0.036	7	+0 -0.090	24	+0 -0.2	112	+0 -0.5	190	140	70	345	12	15	252	330	226	45	170	50	610	672.5	610	672.5	T28	M16x1.5	60	42	5	5	3	3
2	KS132M	4-8	38	+0.018 +0.002	80	41	10	+0 -0.036	8	+0 -0.090	33	+0 -0.2	132	+0 -0.5	216	178	89	358	12	15	300	380	260	55	220	55	700	785	700	785	T38	M20x1.5	80	54	8	7	4	5
3	KS160M	4-8	42	+0.018 +0.002	110	45	12	+0 -0.043	8	+0 -0.090	37	+0 -0.2	160	+0 -0.5	254	210	108	347	15	20	350	440	305	55	305	92.5	815	932	815	932	T42	M24x2	110	82 <sup>Ⓢ</sup>	10	8	5	5
4	KS160L	4-8	42	+0.018 +0.002	110	45	12	+0 -0.043	8	+0 -0.090	37	+0 -0.2	160	+0 -0.5	254	254	108	347	15	20	350	440	305	55	305	92.5	815	932	815	932	T42	M24x2	110	82 <sup>Ⓢ</sup>	10	8	5	5
5	KS180L	4-8	48	+0.018 +0.002	110	51.5	14	+0 -0.043	9	+0 -0.090	42.5	+0 -0.2	180	+0 -0.5	279	279	121	370	15	21	445	490	340	75	340 <sup>Ⓢ</sup>	85	875	990	875	990	T48	M30x2	110	82	12	8	5	5
6	KS200L	4-8	55	+0.030 +0.011	110	59	16	+0 -0.052	10	+0 -0.090	49	+0 -0.2	200	+0 -0.5	318	305	133	399	19	25	450 <sup>Ⓢ</sup>	545	400	89	365	95	947 <sup>Ⓢ</sup>	1057 <sup>Ⓢ</sup>	947 <sup>Ⓢ</sup>	1057	T55	M36x3	110	82	14	9	5.5	5

09	14.04.14	'E2' Dimension for Pt.No. 3 & 4 Changed to 82 was 87		
08	07.07.11	Unification of KS160 M&L Frame		
07	06.06.11	EARTHING TERMINAL INCORPORATED		
06	19.07.10	'G' Dimn. for Pt.1 Changed to 24mm. was 27mm.		
05	14.12.07	COMPANY NAME AND LOGO CHANGED		
04	05.05.06	'BB' Dimension for KS180 Frame was 394 mm. 'AC' Dimension for KS200 Frame was 494 mm. 'L' & 'L1' Dimension for KS20 Frame was 942 mm.		
03	11.09.04	DRAWING GENERALLY REVISED		
B	10.11.97	'L' & 'L1' DIM. ALTERED (OLD 704) FOR PT.2	B.B.	S.B.
A	19.04.97	'G' FOR PART 3 & 4 CHANGED	B.B.	S.B.
REVISION	DATE	DETAIL OF REVISION	DONE BY	APPRVD



**Marathon Electric Motors (India) Limited**  
Paharpur Works, 58 Taratala Road.  
Kolkata - 700024 , INDIA

TITLE

OUTLINE DIMENSION DRAWING FOR 112M TO 200L  
(KRANE MOTOR.)

DRAWN

B.BISWAS

23.07.96

DRAWING NO.

REV.

CHECKED

S.BHOWMICK

23.07.96

SCALE IF ANY

APPRVD.

R.RANJAN

23.07.96

SIGN

DATE

N.T.S

CM1383

09

**Model No.** KS1P4013A60X45XSX

**Part No.** AL08D2140MFAFTOAOO

P	P	n	POT	T	U	f	I	RA	RV	CDF	Duty	No. of Starts/Hr.	Frame
[kW]	[hp]	[RPM]	XFLT	[Nm]	(V)	[Hz]	[A]			%			
1.4	1.9	720	4.2	83	415	50	4.7	7.8	105	60	S5	600	KS132MA

Motor type	Slipring	Degree of protection	IP-55
Enclosure	TEFC	Motor weight - approx.	109 kg
Frame Material	-	Gross wight- approx.	kg
Mounting type	IMB3	Motor GD2	0.165 kgm <sup>2</sup>
Cooling method	IC411	Vibration level	As per IS:12075 mm/s
Voltage variation	+/-10%	Noise level ( 1meter distance from motor)	As per IS:12065 dB(A)
Frequency variation	+/-5%	Starting method	Rotor resistance starter
Combined variation	10%	Coupling	Direct / Gearbox
Insulation class	F/F	Direction of rotation	Bi-directional
Ambient temperature	45	Paint shade	RAL5011
Temperature rise (by resistance)	75/75	Type of Terminal Box	Standard
Altitude above sea level	Upto 1000	Terminal box position	Top
Efficiency		Max. Cable size	Refer to TBA drg.
Power Factor		Bearing type	Antifriction
Stator Connection	Delta	DE Bearing	6308 ZZ
Rotor Connection	Star	NDE Bearing	6308 ZZ
		Type of Lubrication	Grease

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.