## **PRODUCT INFORMATION PACKET**

Model No: KS13P018B60U33XSX Catalog No: AL08D3530MFAFTOAOO 13.0 Kw, Crane Duty Slipring Motors , 3 phase, 6 Pole, 415 V, S3 Duty, KS180L2 Frame, 60 CDF, 6 Start/Hr., TEFC



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Motors

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# marathon®

### Nameplate Specifications

Output HP	17.50 Hp	Output KW	13.0 kW
Frequency	50 Hz	Voltage	415 V
Current	29.8 A	Speed	970 rpm
Phase	3	Duty	S3
Frame	KS180L2	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 °C
Drive End Bearing Size	6310 ZZ	Opp Drive End Bearing Size	6310 ZZ
UL	No	CSA	No
CE	No	IP Code	55
CDF	60 %	Start/Hr	6
RA	34 A	RV	230 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	<b>Bi-Directional</b>	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	875.00 mm
Frame Length	875.00 mm	Shaft Diameter	48.000 mm
Shaft Extension	110 mm	Assembly/Box Mounting	Тор
Rotor GD2	1.3 kg⋅m²	Pull Out Torque	3.9
Outline Drawing	CM1383	Connection Drawing	DP2187

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	FRAME	POLE	D(SHA	FT DIA)	Е	GA		F	G	D		G	н		FIX	ING DIN	IENSI	ONS	K				4.5					10	14	1.01	TAPI	ER SHAF	T DIME	NSION	IS DET	'AILS (E	BOTH)	
NO.			NOM.	TOL.			NOM.	TOL.	NOM.	TOL.	NOM.	TOL.	NOM.	TOL.	A	в	С	CA	r	HA	AC	HD	AB	AA	BB	BA		LC	L1	LC1	D1	D2	E1	E2	F1	H1	G1	Q
1	KS112M	4-8	28	+.009 004	60	31	8	+0 036	7	+0 090	24	+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	+.018 +.002	80	41	10	+0 036	8	+0 090	33	+0 2	132	+0 -0.5	216	178	89	358	12	15	300	380	260	55	220	55	700	785	700	785	<b>T38</b>	M20x1.5	80	54	8	7	4	5
3	KS160M	4-8	42	+.018 +.002	110	45	12	+0 043	8	+0 090	37	+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>09</sup>	10	8	5	5
4	KS160L	4-8	42	+.018 +.002	110	45	12	+0 043	8	+0 090	37	+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>09</sup>	10	8	5	5
5	KS180L	4-8	48	+.018 +.002	110	51.5	14	+0 043	9	+0 090	42.5	+0 2	180	+0 -0.5	279	279	121	370	15	21	445	490	340	75	<b>340</b> <sup>@</sup>	85	875	990	875	990	T48	M30x2	110	82	12	8	5	5
6	KS200L	4-8	55	+.030 +.011	110	59	16	+0 052	10	+0 090	49	+0 2	200	+0 -0.5	318	305	133	399	19	25	450 <sup>69</sup>	545	400	89	365	95	947 <sup>®</sup>	1057	947 <sup>03</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		
В	10.11.97	'L' & 'L1' DIM. ALTERED (OLD 704) FOR PT.2	B.B.	S.B.
А	19.04.97	'G' FOR PART 3 & 4 CHANGED	B.B.	S.B.
VISION	DATE	DETAIL OF REVISION	DONE BY	APPRV

32	<b>mar</b> gal Bel
TITLE	OUTI
DRAWN	B.BISWAS
CHECKED	S.BHOWM
APPRVD.	R.RANJAN







Model No. KS13P018B60U33XSX Part No. AL08D3530MFAFTOAOO	
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Р	Р	n	POT	Т	U	f	Ι	RA	RV	CDF	Duty	No. of Starts/Hr.	Frame	
[kW]	[hp]	[RPM]	XFLT	[Nm]	(V)	[Hz]	[A]			%			Frame	
13	17.5	970	3.9	540	415	50	29.8	34	230	60	S3	6	KS180L2	

Motor type	Slipring	Degree of protection	IP-55	
Enclosure	TEFC	Motor weight - approx.	258	kg
Frame Material	-	Gross wight- approx.		kg
Mounting type	IMB3	Motor GD2	1.3	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	<b>Bi-directional</b>	
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	Тор	
Efficiency		Max. Cable size	Refer to TBA drg.	
Power Factor		Bearing type	Antifriction	
Stator Connection	Delta	DE Bearing	6310 ZZ	
Rotor Connection	Star	NDE Bearing	6310 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.

REGAL