## PRODUCT INFORMATION PACKET



Model No: KS18P020B60U33XSX Catalog No: AL08D4030MFAFTOAOO

18.0 Kw, Crane Duty Slipring Motors, 3 phase, 6 Pole, 415 V, S3 Duty, KS200L2 Frame, 60 CDF,

6 Start/Hr., TEFC





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## Nameplate Specifications

Output HP	24 Hp	Output KW	18.0 kW
Frequency	50 Hz	Voltage	415 V
Current	36.5 A	Speed	972 rpm
Phase	3	Duty	S3
Frame	KS200L2	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	No	CSA	No
CE	No	IP Code	55
CDF	60 %	Start/Hr	6
RA	42 A	RV	260 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	947.00 mm
Frame Length	947.00 mm	Shaft Diameter	55.000 mm
Shaft Extension	110 mm	Assembly/Box Mounting	Тор
Rotor GD2	2.3 kg·m²	Pull Out Torque	3.4
Connection Drawing	DP2259	Outline Drawing	CM1383

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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	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	T38	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	<b>82</b> <sup>©</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	<b>82</b> <sup>©9</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	340 <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>©</sup>	545	400	89	365	95	947	1057	947 <sup>©</sup>	1057	T55	M36x3	110	82	14	9	5.5	5												
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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		ALL DIMENSIONS ARE IN N
06	19.07.10	'G' Dimn. for Pt.1 Changed to 24mm. was 27mm.		marathon• Marathon Electric Motors (India) Limited Paharpur Works, 58 Taratala Road.
05	14.12.07	COMPANY NAME AND LOGO CHANGED		Paharpur Works, 58 Taratala Road.  A Regal Beloit Company  Kolkata - 700024 , INDIA
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.		OUTLINE DIMENSION DRAWING FOR 112M TO
03	11.09.04	DRAWING GENERALLY REVISED		(KRANE MOTOR.)
В	10.11.97	'L' & 'L1' DIM. ALTERED (OLD 704) FOR PT.2 B.B.	S.B.	DRAWN B.BISWAS 23.07.96 DRAWING NO.
А	19.04.97	'G' FOR PART 3 & 4 CHANGED B.B.	S.B.	CHECKED S.BHOWMICK 23.07.96
REVISION	DATE	DETAIL OF REVISION DONE	BY APPR	APPRVD. R.RANJAN 23.07.96 SCALE IF ANY SIGN DATE N.T.S CM1383



Model No. KS18P020B60U33XSX

Part No.

AL08D4030MFAFTOAOO

Р	Р	n	POT	Т	U	f	1	RA	RV	CDF	Duty	No. of Starts/Hr.	Frame		
[kW]	[hp]	[RPM]	XFLT	[Nm]	(V)	[Hz]	[A]			%		NO. OF Starts/Til.	Traine		
18	24	972	3.4	606	415	50	36.5	42	260	60	S3	6	KS200L2		

Motor type	Slipring	Degree of protection	IP-55						
Enclosure	TEFC	Motor weight - approx.	375	kg					
Frame Material		Gross wight- approx.		kg					
Mounting type	IMB3	Motor GD2	2.3	kgm <sup>2</sup>					
Cooling method	IC411	Vibration level	Vibration level As per IS:12075						
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	Тор						
Efficiency		Max. Cable size	Refer to TBA drg.						
Power Factor		Bearing type	Antifriction						
Stator Connection	Delta	DE Bearing	6312						
Rotor Connection	Star	NDE Bearing	6312						
		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.

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