PRODUCT INFORMATION PACKET

Model No: KS13P020B10V34XSX
Catalog No: AL08D4030MFAFTOAOO
13.0 Kw, Crane Duty Slipring Motors , 3 phase, 6 Pole, 415 V, S4 Duty, KS200L2 Frame, 100 CDF, 150 Start/Hr., TEFC

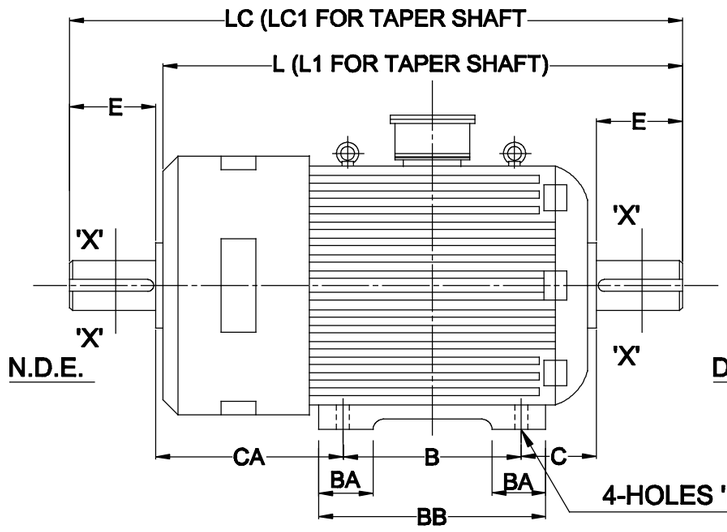
Nameplate Specifications

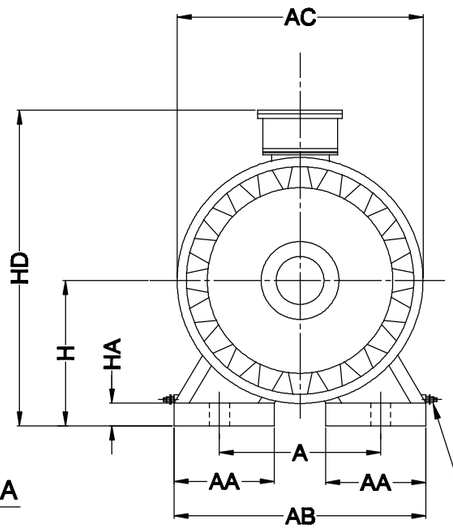
Output HP	17.50 Hp	Output KW	13.0 kW
Frequency	50 Hz	Voltage	415 V
Current	26.5 A	Speed	978 rpm
Phase	3	Duty	S4
Frame	KS200L2	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	No	CSA	No
CE	No	IP Code	55
CDF	100 %	Start/Hr	150
RA	30 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		

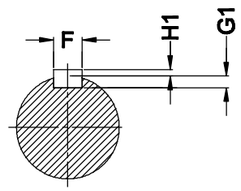
Technical Specifications

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	Top
Rotor GD2	2.3 kg·m²	Pull Out Torque	4.6
Outline Drawing	CM1383	Connection Drawing	DP2264

DRAWING No. CM1383 REV.09

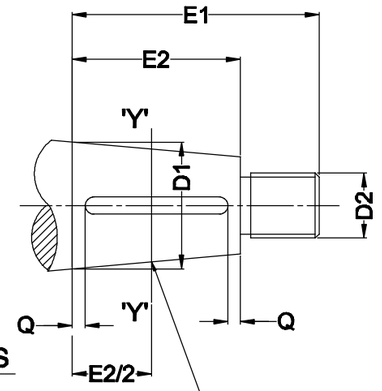


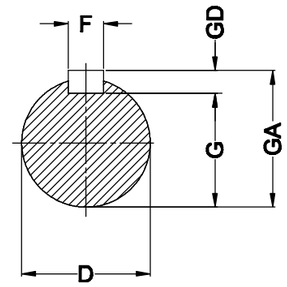




SECTION- Y'Y'

TAPER SHAFT DETAILS
(BOTH ENDS IDENTICAL)
KEY IS PARALL TO THE SHAFT AXIS





SECTION - "XX"

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	+.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	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	82 (09)	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 (09)	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 (04)	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 (04)	545	400	89	365	95	947 (04)	1057	947 (04)	1057	T55	M36x3	110	82	14	9	5.5	5

REVISION	DATE	DETAIL OF REVISION	DONE BY	APPRVD
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.

ALL DIMENSIONS ARE IN MILIMETRE

marathon electric
A Regal Beloit Company

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

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

					DRAWING NO.	REV.
DRAWN	B.BISWAS		23.07.96		CM1383	09
CHECKED	S.BHOWMICK		23.07.96			
APPRVD.	R.RANJAN		23.07.96	SCALE IF ANY		
		SIGN	DATE	N.T.S		

marathon® Motors

Model No. KS13P020B10V34XSX **Part No.** AL08D4030MFAFTOAOO

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]			%			
13	17.5	978	4.6	606	415	50	26.5	30	260	100	S4	150	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^2
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	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.

REGAL