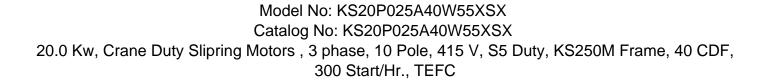
## **PRODUCT INFORMATION PACKET**





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marathon<sup>®</sup>

Motors

1 of 5

Product Information Packet: Model No: KS20P025A40W55XSX, Catalog No:KS20P025A40W55XSX 20.0 Kw, Crane Duty Slipring Motors, 3 phase, 10 Pole, 415 V, S5 Duty, KS250M Frame, 40 CDF, 300 Start/Hr., TEFC

# marathon®

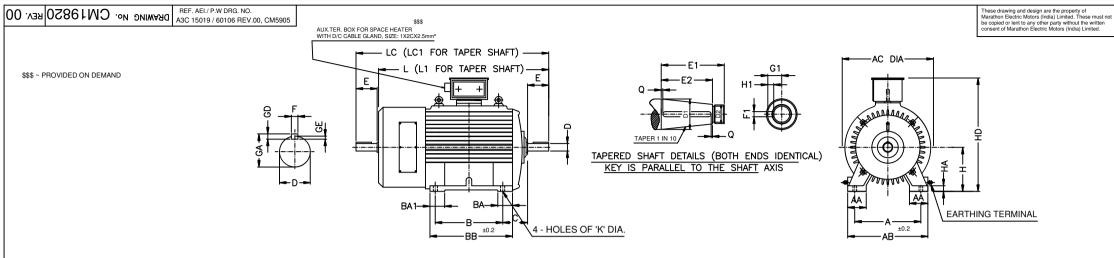
### Nameplate Specifications

Phase	3	Output HP	27 Hp
Output KW	20.0 kW	Voltage	415 V
Speed	587 rpm	Frame	KS250M
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Ambient Temperature	45 °C	Frequency	50 Hz
Current	58.0 A	Duty	S5
Drive End Bearing Size	6315 C3	Opp Drive End Bearing Size	6315 C3
UL	No	CSA	Νο
CE	No	IP Code	55
CDF	40 %	Start/Hr	300
RA	35.5 A	RV	350 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	ІМВЗ
Motor Orientation	Horizontal	Drive End Bearing	Antifriction
Opp Drive End Bearing	Antifriction	Frame Material	Cast Iron/Fabricated
Shaft Type	Single Cylinder	Overall Length	1155.00 mm
Frame Length	1155.00 mm	Shaft Diameter	65.000 mm
Shaft Extension	140 mm	Assembly/Box Mounting	Тор
Rotor GD2	6.8 kg⋅m²	Pull Out Torque	4
Connection Drawing	DP2579	Outline Drawing	CM19820.00

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#### DIMENSIONAL DETAILS:-

		NO OF	Н		FIXING DIMENSION				НА	AC-DIA	HD			BA		BB	
	FRAME	POLE	NOM	TOL	Α	В	С	К				AA	AB	BA	BA1	DD	
ł	KS225S	4 -12	225	-0.5	356	286	149	19	27	500	635	108	457	108	108	345	
ł	KS225M	4 -12	225	-0.5	356	311	149	19	27	500	635	108	457	108	108	370	
ł	KS250S	4 -12	250	-0.5	406	311	168	24	30	500	660	108	483	115	115	382	
ł	KS250M	4 -12	250	-0.5	406	349	168	24	30	500	660	108	483	115	115	420	

	CYLINDRICAL SHAFT DIMENSIONS DETAILS (BOTH ENDS)											)	TAPER SHAFT DIMENSIONS DETAILS (BOTH)									
FRAME	L	LC	Е	[	C	GA		F	G	D	Ģ	Ε	L1	LC1	D1	D2	E1	E2	F1	H1	G1	Q
				NOM	TOL		NOM	TOL	NOM	TOL	NOM	TOL	1									
KS225S	1053	1194	140	60	+0.030 +0.011	64	18	-0.052	11	-0.011	7	+0.2	1053	1194	T 60	M42x3	140	105	16	10	31.4	5
KS225M	1077	1218	140	60	+0.030 +0.011	64	18	-0.052	11	-0.011	7	+0.2	1077	1218	T 60	M42x3	140	105	16	10	31.4	5
KS250S	1117	1256	140	65	+0.030 +0.011	69	18	-0.052	11	-0.011	7	+0.2	1117	1256	T 70	M48x3	140	105	18	11	36.4	5
KS250M	1155	1294	140	65	+0.030 +0.011	69	18	-0.052	11	-0.011	7	+0.2	1155	1294	T 70	M48x3	140	105	18	11	36.4	5

								narati al Beloit Co		Paha		lotors (India) Limited 3 Taratala Road. NDIA	
									IE DIN	IENSI	ON DRAWI	NG FOR KS225S &	зM
						1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED. 2.0 FOR TOLERANCES OF DIMENSIONS(NOT MENTIONED) REFER TO IS:2102.	TITLE	KS250S	8 & M N	NOTOF	R (CYLINDF	RICAL & TAPER SH	AFT)
						3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES.							-
							DRAWN	S.B		27.10.17	PROJECTION	DRAWING NO.	REV.
							CHECKED	KAUSIK			-⊕∈		<u> </u>
							APPRVD.	P.LAHIRI			SCALE IF ANY	CM19820	00
REVISION	DATE	DETAIL OF	REVISION	DONE BY	APPRVD				SIGN	DATE	N.T.S	010110020	00



Part No.

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	
20	27	587	4	1300	415	50	58	35.5	350	40	S5	300	KS250M	

Motor type	Slipring	Degree of protection	IP-55
Enclosure	TEFC	Motor weight - approx.	675 kg
Frame Material	-	Gross wight- approx.	kg
Mounting type	IMB3	Motor GD2	6.8 kgm <sup>2</sup>
Cooling method	IC411	Vibration level As p	per IS:12075 mm/s
Voltage variation	+/-10%	Noise level ( 1meter distance from motor) As p	ber IS:12065 dB(A)
Frequency variation	+/-5%	Starting method Rotor re	esistance starter
Combined variation	10%	Coupling Dire	ct / 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 Refe	r to TBA drg.
Power Factor		Bearing type A	ntifriction
Stator Connection	Delta	DE Bearing	6315 C3
Rotor Connection	Star	NDE Bearing	6315 C3
		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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