PRODUCT INFORMATION PACKET



Model No: KS20P022E60V45XSX Catalog No: AL08D5240MFAFTOAOO

20.0 Kw, Crane Duty Slipring Motors, 3 phase, 8 Pole, 415 V, S5 Duty, KS225MB Frame, 60 CDF,

150 Start/Hr., TEFC





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Nameplate Specifications

Output HP	27 Hp	Output KW	20.0 kW
Frequency	50 Hz	Voltage	415 V
Current	51.5 A	Speed	735 rpm
Phase	3	Duty	S5
Frame	KS225MB	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	No	IP Code	55
CDF	60 %	Start/Hr	150
RA	45.5 A	RV	265 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	1077.00 mm
Frame Length	1077.00 mm	Shaft Diameter	60.000 mm
Shaft Extension	140 mm	Assembly/Box Mounting	Тор
Rotor GD2	5.12 kg·m²	Pull Out Torque	4.6
Outline Drawing	CM19820.00	Connection Drawing	DP2408

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DIMENSIONAL DETAILS:-

ГРАМЕ	NO OF	Н		FIXING DIMENSION				HA	AC-DIA	HD	AA	AB	BA	DA 1	BB
FRAME	POLE	NOM	TOL	Α	В	C	K	11/4	AC DIA	пυ	AA	AD	DA	BA1	DD
KS225S	4 -12	225	-0.5	356	286	149	19	27	500	635	108	457	108	108	345
KS225M	4 -12	225	-0.5	356	311	149	19	27	500	635	108	457	108	108	370
KS250S	4 -12	250	-0.5	406	311	168	24	30	500	660	108	483	115	115	382
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	Ε	[)	GA	ı	F	G	D	G	E	L1	LC1	D1	D2	E1	E2	F1	H1	G1	Q
				NOM	TOL		NOM	TOL	NOM	TOL	NOM	TOL										
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

REVISION DATE DETAIL OF REVISION DONE BY APPRVD

NOTE:

1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED.

2.0 FOR TOLERANCES OF DIMENSIONS(NOT MENTIONED) REFER TO IS:2102.

3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES.

marathon electric
A Regal Beloit Company

Marathon Electric Motors (India) Limited Paharpur Works, 58 Taratala Road.

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OUTLINE DIMENSION DRAWING FOR KS225S & M

TLE KS250S & M MOTOR (CYLINDRICAL & TAPER SHAFT)

DRAWN	S.B		27.10.17	PROJECTION	
CHECKED	KAUSIK			• □	
APPRVD.	P.LAHIRI			SCALE IF ANY	C
		SIGN	DATE	N.T.S)

DRAWING NO. REV. CM19820 00



Model No. KS20P022E60V45XSX

Part No.

AL08D5240MFAFTOAOO

Р	Р	n	РОТ	Т	U	f	I	RA	RV	CDF	Duty	No. of Starts/Hr.	Frame
[kW]	[hp]	[RPM]	XFLT	[Nm]	(V)	[Hz]	[A]			%		NO. OF Starts/Til.	Frame
20	27	735	4.6	1117	415	50	51.5	45.5	265	60	S5	150	KS225MB

Motor type	Slipring	Degree of protection	IP-55	
Enclosure	TEFC	Motor weight - approx.	580	kg
Frame Material	-	Gross wight- approx.		kg
Mounting type	IMB3	Motor GD2	5.12	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	Тор	
Efficiency		Max. Cable size	Refer to TBA drg.	
Power Factor		Bearing type	Antifriction	
Stator Connection	Delta	DE Bearing	6314	
Rotor Connection	Star	NDE Bearing	6314	
		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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