

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: KS3P7016D60W45XSX

Catalog No: AL08D2440MFAFTOAOO

3.7 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S5 Duty, KS160M Frame, 60 CDF,  
300 Start/Hr., TEFC



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### Nameplate Specifications

Output HP	<b>5 Hp</b>	Output KW	<b>3.7 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>415 V</b>
Current	<b>9.6 A</b>	Speed	<b>727 rpm</b>
Phase	<b>3</b>	Duty	<b>S5</b>
Frame	<b>KS160M</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>45 °C</b>
Drive End Bearing Size	<b>6309 ZZ</b>	Opp Drive End Bearing Size	<b>6309 ZZ</b>
UL	<b>No</b>	CSA	<b>No</b>
CE	<b>No</b>	IP Code	<b>55</b>
CDF	<b>60 %</b>	Start/Hr	<b>300</b>
RA	<b>117 A</b>	RV	<b>190 V</b>
Insulation class Stator/Rotor	<b>F/F</b>	Temp. Rise Stator/Rotor	<b>75/75 K</b>
Stator Connection	<b>Delta</b>	Rotor Connection	<b>Star</b>
Efficiency Class	<b>Standard</b>		

### Technical Specifications

Electrical Type	<b>Slipring</b>	Starting Method	<b>Rotor resistance starter</b>
Rotation	<b>Bi-Directional</b>	Mounting	<b>IMB3</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Antifriction</b>
Opp Drive End Bearing	<b>Antifriction</b>	Frame Material	<b>Cast Iron/Fabricated</b>
Shaft Type	<b>Single Cylinder</b>	Overall Length	<b>815.00 mm</b>
Frame Length	<b>815.00 mm</b>	Shaft Diameter	<b>42.000 mm</b>
Shaft Extension	<b>110 mm</b>	Assembly/Box Mounting	<b>Top</b>
Rotor GD2	<b>0.56 kg·m²</b>	Pull Out Torque	<b>3.4</b>
Connection Drawing	<b>DP2126</b>	Outline Drawing	<b>CM1383</b>





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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]			%			
3.7	5	727	3.4	167	415	50	9.6	117	190	60	S5	300	KS160M

Motor type	Slipring	Degree of protection	IP-55
Enclosure	TEFC	Motor weight - approx.	200 kg
Frame Material	-	Gross weight- approx.	kg
Mounting type	IMB3	Motor GD2	0.56 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	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	6309 ZZ
Rotor Connection	Star	NDE Bearing	6309 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.