PRODUCT INFORMATION PACKET



Model No: KS86P031B40V45XSX Catalog No: KS86P031B40V45XSX

86.0 Kw, Crane Duty Slipring Motors, 3 phase, 8 Pole, 415 V, S5 Duty, KS315M2 Frame, 40 CDF,

150 Start/Hr., TEFC





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Nameplate Specifications

Output HP	115.30 Hp	Output KW	86.0 kW
Frequency	50 Hz	Voltage	415 V
Current	165.0 A	Speed	737 rpm
Phase	3	Duty	S 5
Frame	KS315M2	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	No	IP Code	55
CDF	40 %	Start/Hr	150
RA	140 A	RV	370 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	1425.00 mm
Frame Length	1425.00 mm	Shaft Diameter	80.000 mm
Shaft Extension	170 mm	Assembly/Box Mounting	Тор
Rotor GD2	26.3 kg·m²	Pull Out Torque	3.4
Connection Drawing	DP3087	Outline Drawing	cm5906

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DIMENSIONAL DETAILS:-

FRAME	NO OF H			FIXING DIMENSION				НА	AC-DIA	HD	AA	AB	BA	BA1	BB
	POLE	NOM	TOL	Α	В	С	K	ПА	/(0	שוו	_ ^^	AD	BA	DAI	
KS280S	4 -12	280	-1	457	368	190	24	32	560	830	112	560	120	120	490
KS280M	4 -12	280	-1	457	419	190	24	32	560	830	112	560	120	120	490
KS315S	4 -12	315	-1	508	406	216	28	36	620	885	120	620	143	143	520
KS315M	4 -12	315	-1	508	457	216	28	36	620	885	120	620	143	143	520

	CYLINDRICAL SHAFT DIMENSIONS DETAILS (BOTH ENDS)									TAPER SHAFT DIMENSIONS DETAILS (BOTH)												
FRAME	L	LC	Е	1	D	GA		F GD G		G	E	L1	LC1	D1	D2	E1	E2	F1	H1	G1	Q	
				NOM	TOL		NOM	TOL	NOM	TOL	NOM	TOL										
KS280S	1300	1428	140	75	+0.030 +0.011	79.5	20	-0.052	12	110	7.5	+0.2	1330	1488	Т 80	M56x4	170	130	20	12	41.3	5
KS280M	1300	1428	140	75	+0.030 +0.011	79.5	20	-0.052	12	110	7.5	+0.2	1330	1488	T 80	M56×4	170	130	20	12	41.3	5
KS315S	1425	1602	170	80	+0.030 +0.011	85	22	-0.052	14	110	9	+0.2	1425	1602	Т 90	M64×4	170	130	22	14	46.7	5
KS315M	1425	1602	170	80	+0.030 +0.011	85	22	-0.052	14	110	9	+0.2	1425	1602	Т 90	M64×4	170	130	22	14	46.7	5

IN THE FIGURE 'L1' AND 'LC1' DIM. INCORPORATED 28.11.11 02 EARTHING TERMINAL INCORPORATED 06.06.11 REVISION DETAIL OF REVISION DONE BY APPRVD DATE

NOTE:

- 1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED.
- 2.0 FOR TOLERANCES OF DEMENSIONS(NOT MENTIONED) REFER TO IS:2102.
- 3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES.

omarathon• A Regal Beloit Company Marathon Electric Motors (India) Limited Paharpur Works, 58 Taratala Road.

Kolkata - 700024, INDIA

OUTLINE DIMENSION DRAWING FOR KS280S & M

KS315S & M MOTOR (CYLINDRICAL & TAPER SHAFT)

4 of /	5	SIGN	DATE	N.T.S	CIVIOS
APPRVD.	R.RANJAN			SCALE IF ANY	CM59
CHECKED	KAUSIK			- ● □	
	S.B		18.12.07	PROJECTION	DRAWIN

NG NO. REV.

906



Model No. KS86P031B40V45XSX

Part No.

Р	Р	n	POT	Т	U	f	I	RA	RV	CDF	Duty	No. of Starts/Hr.	Frame	
[kW]	[hp]	[RPM]	XFLT	[Nm]	(V)	[Hz]	[A]			%		No. of Starts/III.	Frame	
86	115	737	3.4	3892	415	50	165	140	370	40	S5	150	KS315M2	

Motor type	Slipring	Degree of protection	IP-55	
Enclosure	TEFC	Motor weight - approx.	1475	kg
Frame Material	-	Gross wight- approx.		kg
Mounting type	IMB3	Motor GD2	26.3	kgm²
Cooling method	IC411	Vibration level Noise level (1meter	As per IS:12075	mm/
Voltage variation	+/-10%	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	6319	
Rotor Connection	Star	NDE Bearing		
		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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