

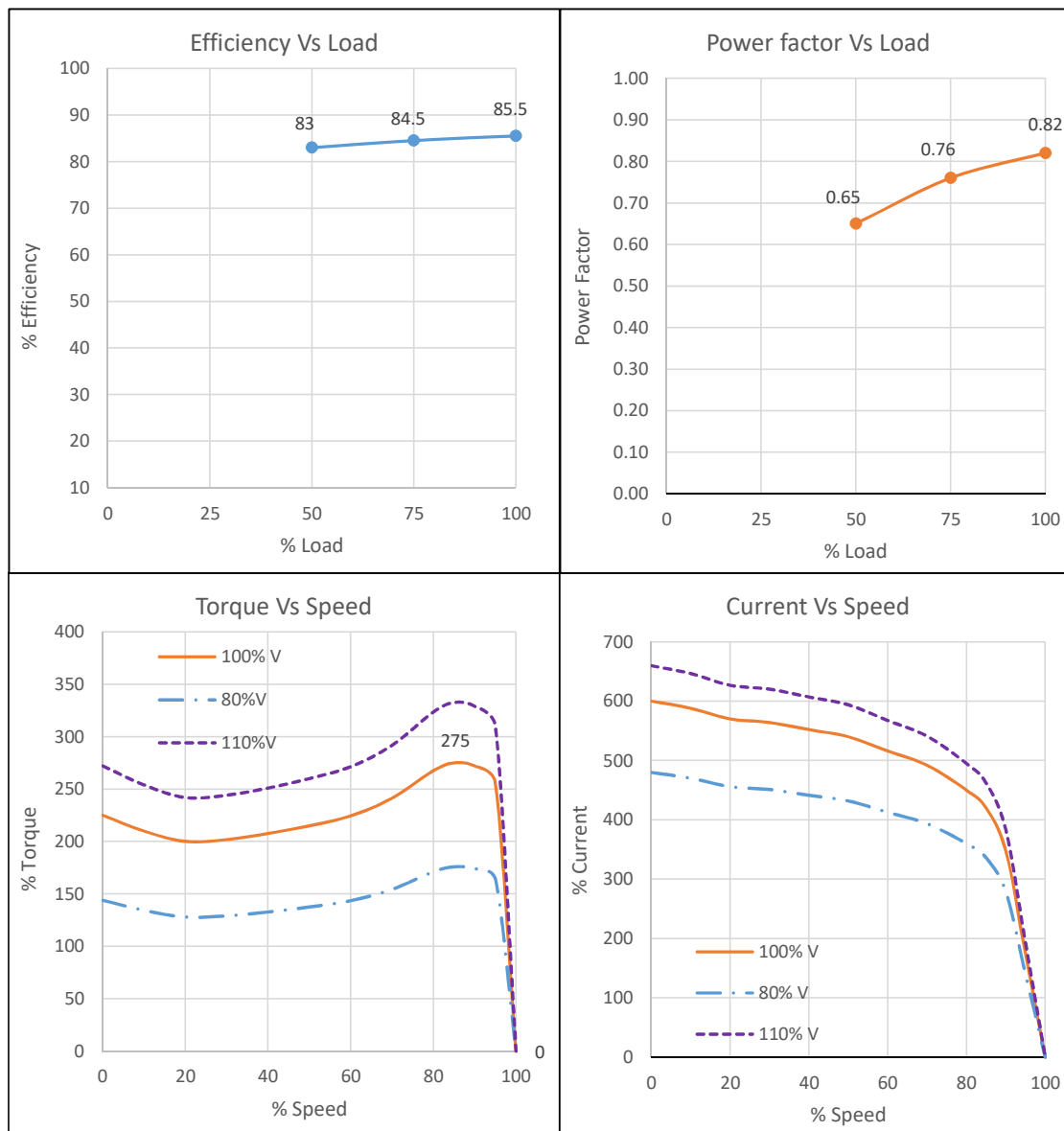
IE2

TECHNICAL DATASHEET **3 PHASE INDUCTION MOTOR**



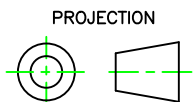
Sr No	Parameter	Unit	Data
Product Specifications			
1	Rated Output	kW	3.7
2	Number of Poles	No	2
3	Frame Designation		KM100L
4	Product Code		KM2.3T70.AIA.B03.TSS
5	Mounting		B3
Electrical			
6	Type of Duty		Continuous S1
7	Rated Voltage	V	415 $\pm$ 10%
8	Rated Frequency	Hz	50 $\pm$ 5%
9	Rated Speed	RPM	2875
10	Rated Current	A	7.40
11	Method of Starting		Direct On Line
12	Starting Current (SCC)	% of FLA	600
13	Rated Torque	Kg-m	1.25
14	Starting Torque (STT)	% of FLT	225
15	Maximum Torque (POT)	% of FLT	275
16	Efficiency at 100% / 75% / 50% load	%	85.5 / 84.5/ 83
17	Power factor at 100% / 75% / 50% load		0.82 / 0.76 / 0.65
18	Thermal Withstand Time (Hot)	s	8
19	Thermal Withstand Time (Cold)	s	16
20	Thermal Time Constant (Stator)	min	30
21	Connection / Number of Terminals		Delta / 6
22	Permissible Starts/hour (Hot/Cold)	Nos	2/3
23	Insulation Class / Thermal Limit		F/F
24	Winding Treatment		VPI, Dual Coat Copper Wire
Mechanical			
25	Degree of Protection		IP55
26	Enclosure / MOC /Method of Cooling		TEFC / AL/ IC411
27	Bearing DE/NDE		6206ZZ/6206ZZ
28	Type of Coupling		Direct/Flexible
29	Noise Level		As per IS12065
30	Vibration Level		As per IS12075
31	Moment of Inertia GD ²	kg-m ²	0.0151
32	Position of Terminal Box		TOP
33	Maximum Cable Size		2X3CX6 mm ²
34	Direction of Rotation		Bidirectional (Default: CW from DE)
35	Paint Shade		RAL 7046- Telegrey
36	Net weight	kg	23.60
37	Accessories		NA
Enviromental			
38	Ambient Temperature /Temperature Rise	°C	50 / 80 (By resistance method)
39	Altitude Above MSL	m	$\leq$ 1000
Notes: All performance data shall be subject to tolerances as per IS15999/IEC 60034. Applicable Standards:IS 12615-2018, IS 15999-1			
Customer		PO No./ Enq. No	
		Date	
Checked	BMD	27/10/2022	
Approved	SSN	27/10/2022	Document No: KM2-001 Rev.0
KIRLOSKAR OIL ENGINES LTD. ELECTRIC MOTORS			

PERFORMANCE CURVE

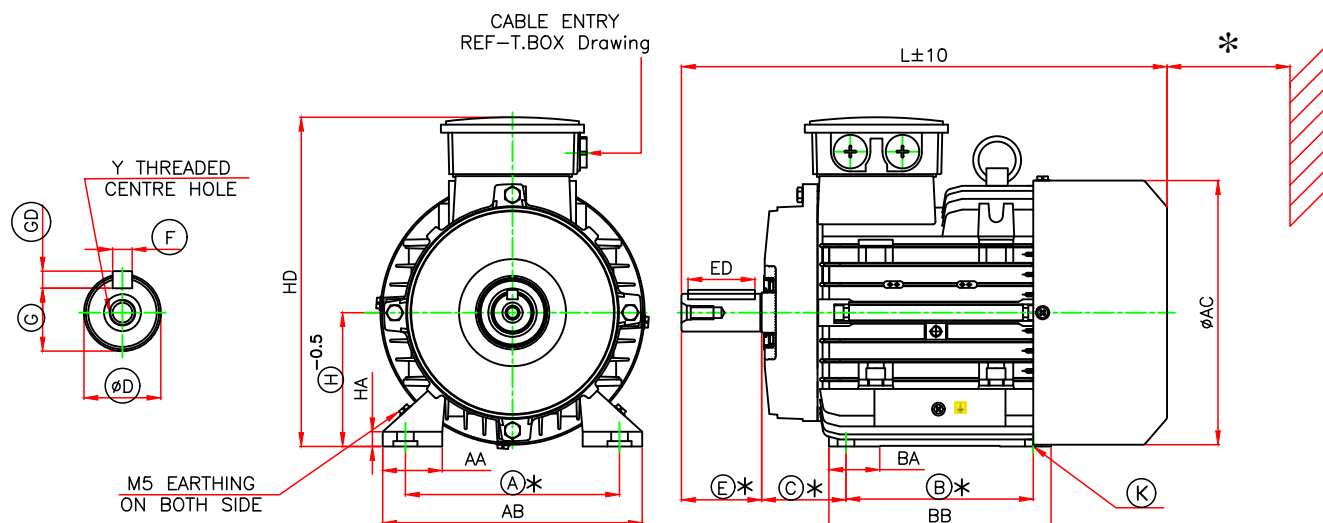


kW	3.7	Customer	
Pole	2	PO No / Enq. No	
Frame	KM100L	Date	
Mounting	B3	Product Code	KM2.3T70.AIA.B03.TSS
Checked	BMD	27/10/2022	
Approved	SSN	27/10/2022	Document No KM2-002 Rev. 0

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ELECTRIC MOTORS



GENERAL ARRANGEMENT DRAWING FOR TEFC 3 PHASE INDUCTION MOTOR



FRAME	FOOT FIXING									OVER ALL			
	A	B	C	H TOL.	AA	AB	BA	BB	K	AC	L	HD	HA
KM100L	160	140	63	100/99.5	44	194	38	166	18X12.5	198	363	246	11

D END SHAFT EXTENSION AND KEY						
D TOL.	E	ED	F TOL.	GD TOL.	G	Y
28.009/27.996	60	50	8/7.964	7.0/6.9	24.0/23.9	M10X24

kW	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE
	2 POLE	4 POLE	6 POLE	8 POLE
0.75	--	--	--	KM2.0T75.DIA.B03.TSS
1.1	--	--	--	KM2.1T10.DIA.B03.TSS
1.5	--	--	KM2.1T50.CIA.B03.TSS	--
2.2	--	KM2.2T20.BIA.B03.TSS	--	--
3.7	KM2.3T70.AIA.B03.TSS	--	--	--

NOTES:

- ONE EARTHING TERMINAL IS PROVIDED INSIDE MAIN TERMINAL BOX.
- * 80mm MINIMUM DISTANCE TO BE MAINTAINED FOR EFFICIENT COOLING OF THE MOTOR.
- * TOLERANCES ON MANDATORY DIMENSIONS ARE AS PER IS:1231/IEC:60072

RINGED DIMENSIONS ARE AS PER IS:1231/IEC:60072

ALL DIMENSIONS ARE IN mm,

	NAME	DATE	kW	REFER TABLE	FRAME	KM100L
DRAWN	KSK	21/10/2022	POLE	REFER TABLE	MOUNTING	B3 (HORIZONTAL FOOT)
CHECKED	SGS	21/10/2022	PRODUCT CODE	REFER TABLE	CUSTOMER	
APPROVED	SSN	21/10/2022	MAX. CABLE SIZE	2RX3CX6MM ²	PO NO	
			PROJECT		CLIENT	

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DO NOT SCALE
FORMAT NO.:KM-GA-2021 R0

DRAWING NO
KM100LB3TSALR0

