

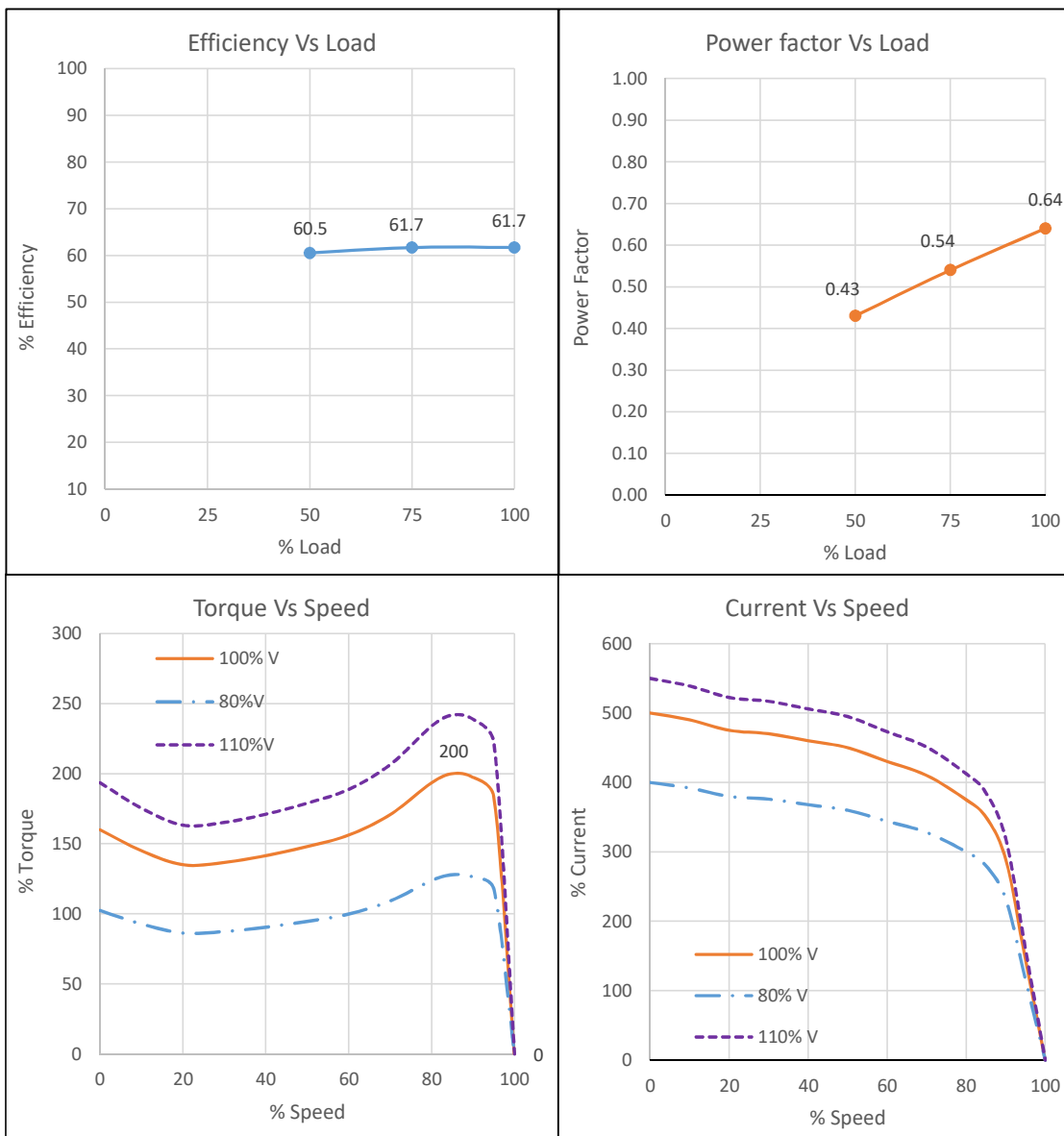
IE2

TECHNICAL DATASHEET **3 PHASE INDUCTION MOTOR**



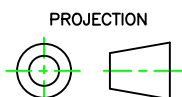
Sr No	Parameter	Unit	Data
Product Specifications			
1	Rated Output	kW	0.55
2	Number of Poles	No	8
3	Frame Designation		KM90L
4	Product Code		KM2.0T55.DHC.B03.TSS
5	Mounting		B3
Electrical			
6	Type of Duty		Continuous S1
7	Rated Voltage	V	415 $\pm$ 10%
8	Rated Frequency	Hz	50 $\pm$ 5%
9	Rated Speed	RPM	680
10	Rated Current	A	1.93
11	Method of Starting		Direct On Line
12	Starting Current (SCC)	% of FLA	500
13	Rated Torque	Kg-m	0.79
14	Starting Torque (STT)	% of FLT	160
15	Maximum Torque (POT)	% of FLT	200
16	Efficiency at 100% / 75% / 50% load	%	61.7 / 61.7/ 60.5
17	Power factor at 100% / 75% / 50% load		0.64 / 0.54 / 0.43
18	Thermal Withstand Time (Hot)	s	6
19	Thermal Withstand Time (Cold)	s	12
20	Thermal Time Constant (Stator)	min	30
21	Connection / Number of Terminals		Star / 6
22	Permissible Starts/hour (Hot/Cold)	Nos	2/3
23	Insulation Class / Thermal Limit		F/B
24	Winding Treatment		VPI, Dual Coat Copper Wire
Mechanical			
25	Degree of Protection		IP55
26	Enclosure / MOC /Method of Cooling		TEFC / CI/ IC411
27	Bearing DE/NDE		6205ZZ/6204ZZ
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	0.0223
32	Position of Terminal Box		TOP
33	Maximum Cable Size		1X3CX4 mm ²
34	Direction of Rotation		Bidirectional (Default: CW from DE)
35	Paint Shade		RAL 7046- Telegrey
36	Net weight	kg	27
37	Accessories		NA
Enviromental			
38	Ambient Temperature /Temperature Rise	°C	50 / 70 (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	16-05-2023	
Approved	SSN	16-05-2023	Document No: KM2-001 Rev.0
KIRLOSKAR OIL ENGINES LTD. ELECTRIC MOTORS			

PERFORMANCE CURVE

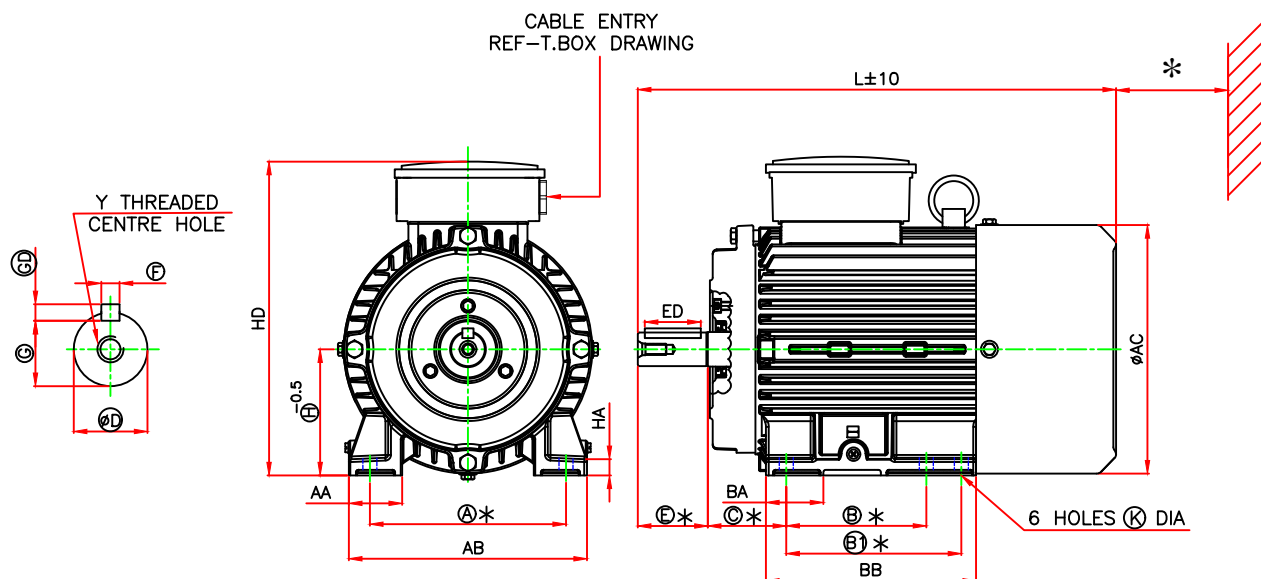


kW	0.55	Customer	
Pole	8	PO No / Enq. No	
Frame	KM90L	Date	
Mounting	B3	Product Code	KM2.0T55.DHC.B03.TSS
Checked	BMD	16-05-2023	
Approved	SSN	16-05-2023	Document No KM2-002 Rev. 0

KIRLOSKAR OIL ENGINES LTD.
ELECTRIC MOTORS



GENERAL ARRANGEMENT DRAWING FOR TEFC 3 PHASE INDUCTION MOTOR



FRAME	FOOT FIXING										OVER ALL			
	A	B	B1	C	H TOL.	AA	AB	BA	BB	K TOL.	AC	L	HD	HA
KM90L	140	100	125	56	90/89.5	38	170	36	160	10/10.5	178	355	227	11

D END SHAFT EXTENSION AND KEY						
D TOL.	E	ED	F TOL.	GD TOL.	G	Y
24.009/23.996	50	40	8/7.964	7.0/6.9	20.0/19.9	M8X19

kW	PRODUCT CODE
	8 POLE
0.55	KM2.0T55.DHC.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	KM90L
DRAWN	SGS	23/12/2021	POLE	REFER TABLE	MOUNTING	B3 (HORIZONTAL FOOT)
CHECKED	SGS	23/12/2021	PRODUCT CODE	REFER TABLE	CUSTOMER	
APPROVED	SSN	23/12/2021	MAX. CABLE SIZE	1RX3CX4MM ²	PO NO	
			PROJECT		CLIENT	

KIRLOSKAR OIL ENGINES LTD.
ELECTRIC MOTORS

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

DRAWING NO
KM90LB3TSR1

