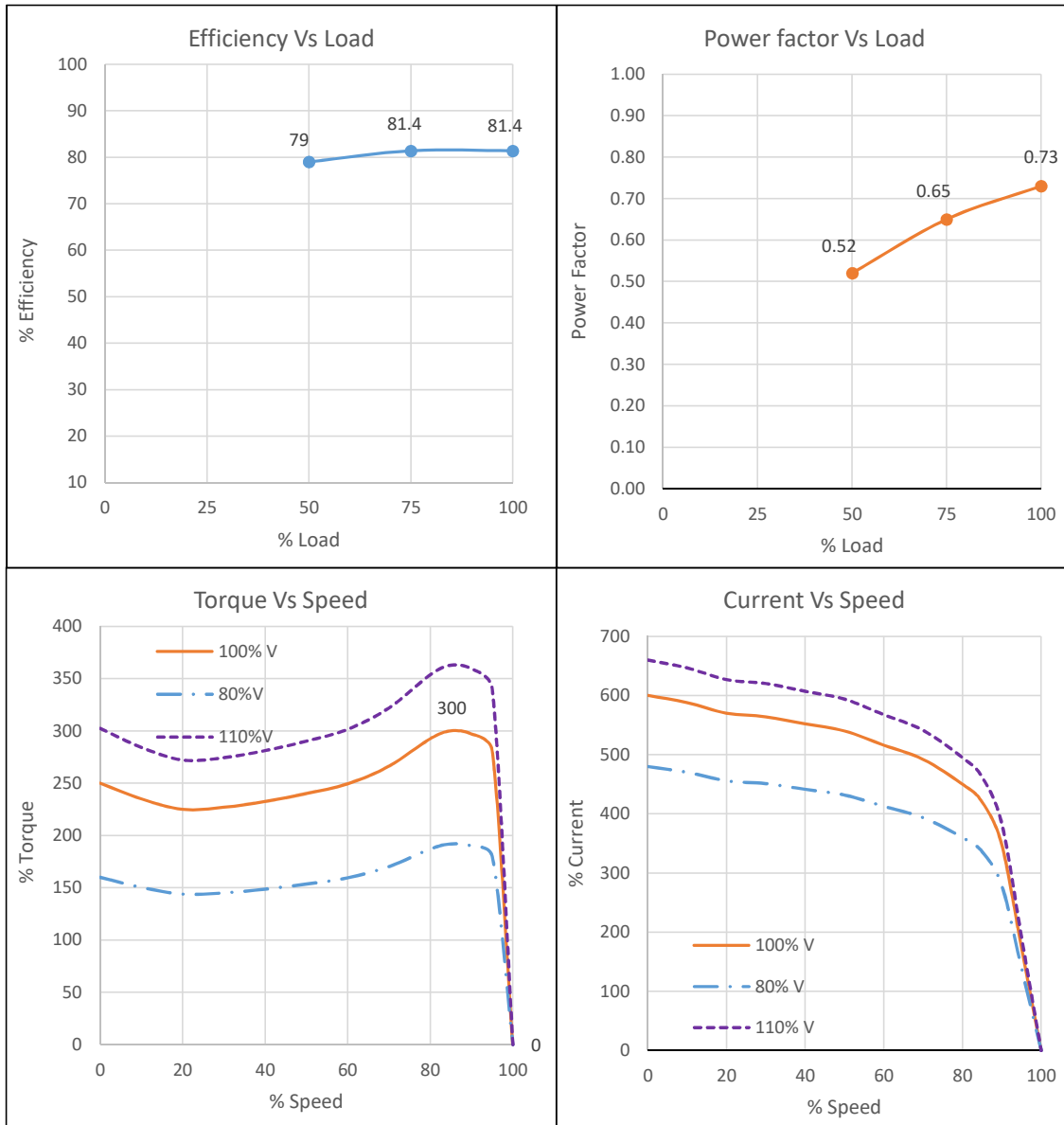


IE2**TECHNICAL DATASHEET
3 PHASE INDUCTION MOTOR**

Sr No	Parameter	Unit	Data
Product Specifications			
1	Rated Output	kW	1.1
2	Number of Poles	No	4
3	Frame Designation		KM90S
4	Product Code		KM2.1T10.BHC.B35.TSS
5	Mounting		B35
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	1440
10	Rated Current	A	2.58
11	Method of Starting		Direct On Line
12	Starting Current (SCC)	% of FLA	600
13	Rated Torque	Kg-m	0.74
14	Starting Torque (STT)	% of FLT	250
15	Maximum Torque (POT)	% of FLT	300
16	Efficiency at 100% / 75% / 50% load	%	81.4 / 81.4 / 79
17	Power factor at 100% / 75% / 50% load		0.73 / 0.65 / 0.52
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	GD ²	kg-m ²	0.0140
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	25
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	06-06-2022	
Approved	SSN	06-06-2022	Document No: KM2-001 Rev.0
KIRLOSKAR OIL ENGINES LTD. ELECTRIC MOTORS			

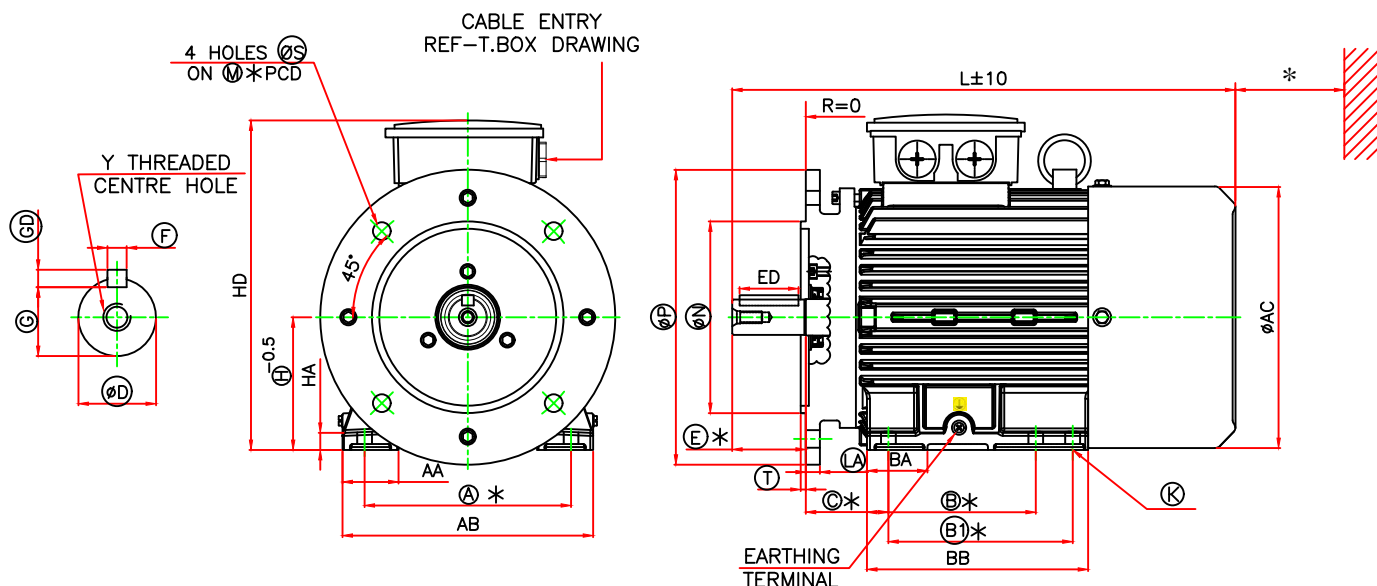
PERFORMANCE CURVE



kW	1.1	Customer	
Pole	4	PO No / Enq. No	
Frame	KM90S	Date	
Mounting	B35	Product Code	KM2.1T10.BHC.B35.TSS
Checked	BMD	06-06-2022	
Approved	SSN	06-06-2022	Document No KM2-002 Rev. 0
KIRLOSKAR OIL ENGINES LTD.			
ELECTRIC MOTORS			



GENERAL ARRANGEMENT DRAWING FOR TEFC 3 PHASE INDUCTION MOTOR



FRAME	FOOT FIXING										FLANGE FIXING						
	A	B	B1	C	H TOL.	AA	AB	BA	BB	K TOL.	MTol	NTol		P	S	T	LA
KM90S	140	100	125	56	90/89.5	38	170	41	149	10/10.5	165	130.014/129.989		200	12	3.5	10

D END SHAFT EXTENSION AND KEY							OVER ALL			
D TOL.	E	ED	F TOL.	GD TOL.	G	Y	AC	L	HD	HA
24.009/23.996	50	40	8/7.964	7.0/6.9	20.0/19.9	M8X19	178	340	227	11

kW	PRODUCT CODE		PRODUCT CODE		PRODUCT CODE	
	2 POLE		4 POLE		6 POLE	
1.5	KM2.1T50.AHC.B35.TSS		--		--	
1.1	--		KM2.1T10.BHC.B35.TSS		--	
0.75	--		--		KM2.0T75.CHC.B35.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/IS:2223/IEC:60072

RINGED DIMENSIONS ARE AS PER IS:1231/IS:2223/IEC:60072-1

ALL DIMENSIONS ARE IN mm,

	NAME	DATE	kW	REFER TABLE	FRAME	KM90S
DRAWN	SGS	22/08/2022	POLE	REFER TABLE	MOUNTING	B35 (HORIZONTAL FOOT CUM FLANGE)
CHECKED	SGS	22/08/2022	PRODUCT CODE	REFER TABLE	CUSTOMER	
APPROVED	SSN	22/08/2022	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
KM90SB35TSR0

