



LAKSHMI ELECTRICAL DRIVES PRIVATE LIMITED.,

Coimbatore - 641 004.

TECHNICAL DATA SHEET - 45 kW 2 POLE INDUCTION MOTOR

1	Customer:	
2	Product no:	LEH22525001
3	Output power (kW)	45
4	Output power (HP)	60
5	Phase	3
6	Polarity	2
7	Frame	225M
8	Voltage (V)	415±10%
9	Frequency & it's variation (Hz)	50±5%
10	Connection	DELTA
11	Insulation class	F
12	Ambient temp (Deg. C)	50
13	Duty	S1
14	Mounting	B5
15	Applicable code	IS12615/IEC 60034-1
16	Type reference	Sq. Cage Induction motor
17	Full Load Current (Amps)	80
18	Full Load Torque -(Nm)	145.2
19	Full Load Speed (rpm)	2965
20	Starting Current as % of FLC	770
21	Starting Torque as % of FLT	200
22	Break down or Pull-out Torque % FLT	280
23	%Efficiency at 100%	94.0 (IE3)
24	at 75%	94
25	at 50%	93.1
26	Power factor at 100%	0.9
27	at 75%	0.88
28	at 50%	0.84
29	Temperature Rise	B CLASS LIMIT
30	Service Factor	1
31	Moment of Inertia	1.78
32	Direction of Rotation	Bidirectional
33	Coupling/Pulley	Direct/Flexible
34	Method of Cooling	IC411
35	Enclosure	TEFC
36	Protection	IP55
37	Bearing type	Deep Groove Ball Bearing
38	Bearing no. DE/NDE	6313ZZ C3 / 6312ZZ C3
39	Paint/Coating	RAL 7046
40	Material of Construction	CI FG200
41	Shaft Material	EN8
42	Relative Humidity	<90
43	Terminal box position	TOP
44	No of terminals	6
45	Working Altitude level.	1000 MT
46	Additional Requirement	As per customer requirement

Efficiency Values are without seals.

Performance Data subject to tolerance as per IS: 12615:2018