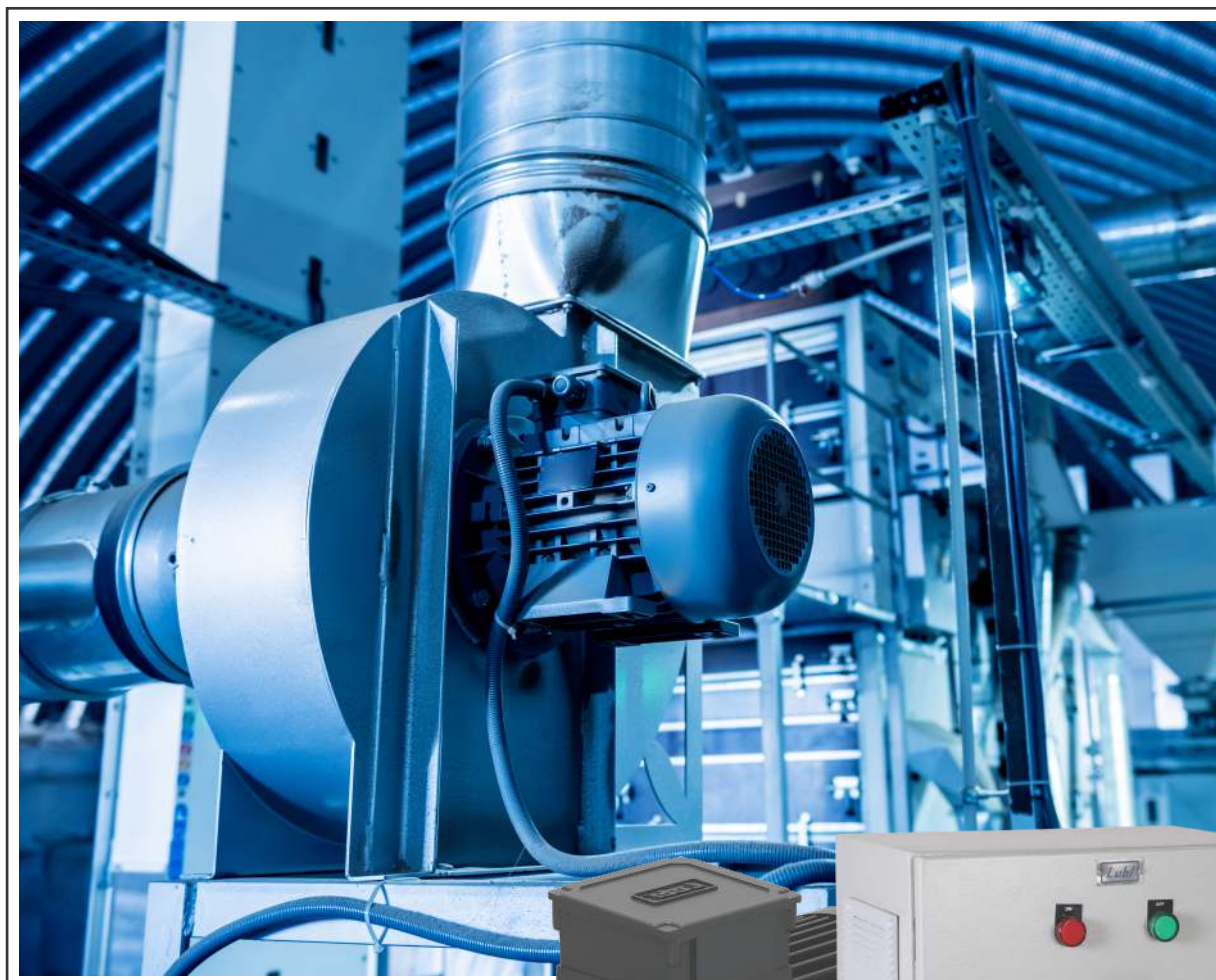


LSY SERIES

**Permanent Magnet
Synchronous Motors**



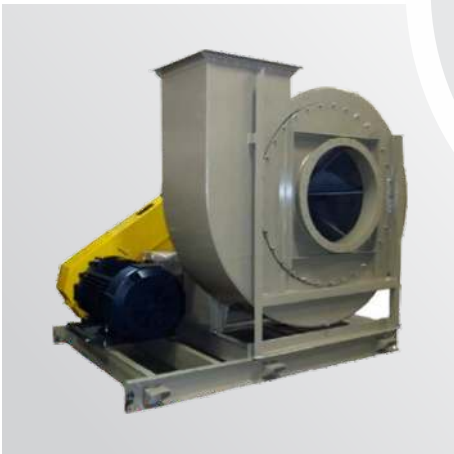
100 Hz



CNC MACHINE



FLOOR POLISHING MACHINE



AIR BLOWER



DRILL MACHINE

These motors are predominantly used for industrial applications. These are available in IEC 90 to 132M frame with foot and flange mounted arrangements. Customized mounting can be provided on request.

The highly efficient Permanent Magnet Synchronous Motor designs in this series are suitable for any application requiring high starting torques such as Air Compressor, Textile and Plastic Machineries, Material Handling Equipments, etc.

These motors are provided with an electronic variable speed drive for operation and speed control.

Salient Features:

- High Starting Torque
- Suitable for wide Voltage
- Motors available in Aluminum extensions body construction .
- Higher Conversion Efficiency equivalent of IE5 class.
- Speed Control using VFD.
- Realtime Parameter Monitoring in VFD.

Applications

Coupled Pump, Floor Polisher, Compressors, Industrial Fans and Blowers, Rolling Mills, Machine Tools, Textile and Plastic Machineries, Printing, Packaging and Wood Working Machineries, Food Processing Machinery, Material Handling Equipments, Cranes, Hoists and Lifts, Cooling Towers.

Nominal Efficiency of Motors & Efficiency Class Comparison

Nominal efficiency (%) limits for class IE1, IE2, IE3 & IE5 according to the IEC 60034-30					
P _N		3000 RPM			
HP	kW	IE1	IE2	IE3	IE5
2.0	1.5	77.2	81.3	84.2	87.5
3.0	2.2	79.7	83.2	85.9	90.5
5.0	3.7	82.7	85.5	87.8	91.5
7.5	5.5	84.7	87.0	89.2	94.0
10.0	7.5	86.0	88.1	90.1	94.5

Permanent Magnet Synchronous motor 100 Hz (4 Pole)

Type	Motor [H.P]	Motor [kW]	RPM	Phase	Frame size	Standard voltage [V]	Torque [N.m.]	I _{1/11} [A]	η[%]
LSYD0201.8K	2.0	1.5	3000	3	90	380*	4.8	3.0	87.5
LSYD0303K	3.0	2.2	3000	3	90	380*	7.0	4.0	90.5
LSYD0504.8K	5.5	4.0	3000	3	112	380*	12.8	7.5	91.5
LSYD0757K	7.5	5.5	3000	3	112	380*	17.5	11.0	94.0
LSYD1009K	10.0	7.5	3000	3	112	380*	23.9	15.0	94.5

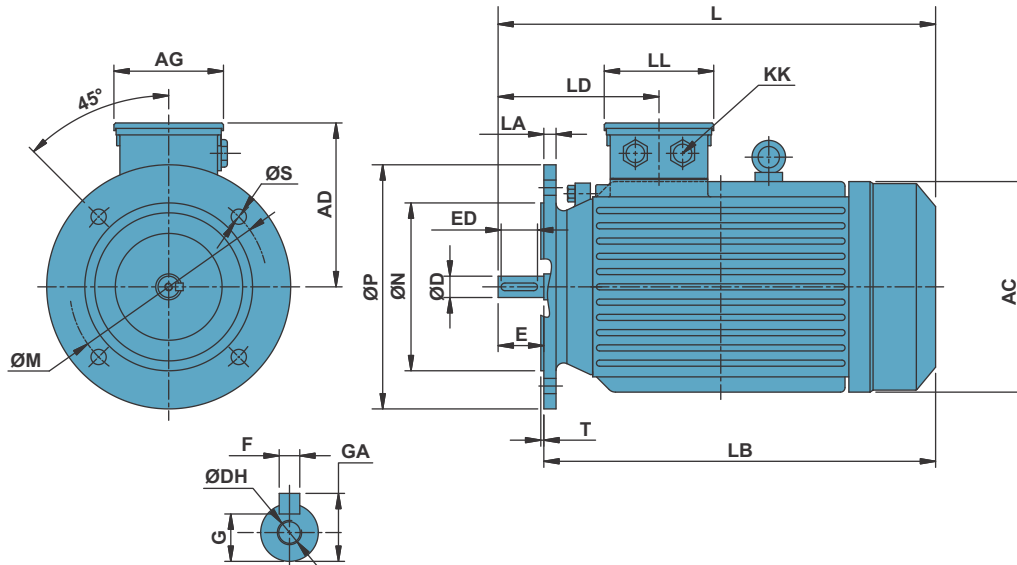
- (*) Standard voltage
 - TEFC Totally Enclosed fan cooled

Energy Efficiency case study.

Motor Type	IE2	IE5
HP	10.0	10.0
kW	7.5	7.5
Motor efficiency	88.1%	94.5%
Input Energy/ hour	8.51 kWh	7.39 kWh
kWH/day (For 16 hours operation)	136.16 kWh	126.88 kWh
Annual Power Consumption	49,698.4 kWh	46,311.2 kWh
Annual Energy Cost (at Rs. 8/kWh)	₹ 39,7587.2	₹ 37,0489.6
Annual Savings	₹ 0	₹ 27,097.6

The Energy cost saving for 1 year of operation is approx ₹ 27000/-, Hence Pay Back will be approx 1.8Years.

DIMENSIONS



HP/KW	FRAME SIZE	AC	AD	AG	D	DH	E	ED	F	G	GA	KK	L	LA	LB	LD	LL	M	N	P	S	T
2.0/1.5	90L	178	124	88	24	M8	50	42	8	20	27	1 X PG13.5	336	11	286	140	88	165	130	200	12	3.5
3.0/2.2	90L	178	124	88	24	M8	50	42	8	20	27	1 X PG13.5	336	11	286	140	88	165	130	200	12	3.5
5.5/4.0	112M	218	149.5	112	24	M10	60	52	8	24	31	1 X PG16	415	12	355	186	112	215	180	250	15	4
7.5/5.5	112M	218	149.5	112	24	M10	60	52	8	24	31	1 X PG16	415	12	355	186	112	215	180	250	15	4
10.0/7.5	112M	218	149.5	112	24	M10	60	52	8	24	31	1 X PG16	415	12	355	186	112	215	180	250	15	4

LUBI INDUSTRIES LLP

Near Kalyan Mills, Naroda Road, Ahmedabad-380 025, INDIA.

Phone : +91 - 79 - 61700100, Fax No. :+91 - 79 - 61700399.

Sales Enquiries: indsales@lubipumps.com, mktsales@lubipumps.com

www.lubipumps.com

Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

00.00.270421.0212



ISO 9001



ISO 14001

Customer Care Number : 09824200800

BRANCH OFFICES

GUJARAT

RAJKOT

M: 09327475110
E-mail : rajkot@lubipumps.com

MADHYA PRADESH

INDORE

P: 0731-2543172, 2543867
E-mail : indore@lubipumps.com

JABALPUR

P : 0761-2688005,
E-mail : jabalpur@lubipumps.com

GWALIOR

P: 0751-4920220
E-mail : gwalior@lubipumps.com

UTTAR PRADESH

NOIDA

P: 0120-4561707
E-mail : noida@lubipumps.com

KANPUR

M: 7275000377, 7275676767
E-mail : kanpur@lubipumps.com

GHAZIABAD

M: 9599652600
E-mail : ghaziabad@lubipumps.com

RAJASTHAN

JAIPUR

P: 0141-4022620, M.: 09649094048
E-mail : jaipur@lubipumps.com

UDAIPUR

P: 0294-2640145
E-mail : udaipur@lubipumps.com

MAHARASHTRA

PUNE

P: 020-2588 0581 / 82
E-mail : pune@lubipumps.com

NAGPUR

M: 095033 85575
E-mail : nagpur@lubipumps.com

CHHATTISGARH

RAIPUR

P : 0771-4905876
E-mail : raipur@lubipumps.com

JHARKHAND

RANCHI

P: 0651-2209677
E-mail : ranchi@lubipumps.com

BIHAR

PATNA

M: 09264431396
E-mail : patna@lubipumps.com

WEST BENGAL

KOLKATA

P: 033-25834473
E-mail : kolkata@lubipumps.com

ASSAM

GUWAHATI

M.: 7874001086, 9510970398
E-mail : guwahati@lubipumps.com

ODISHA

BHUBANESWAR

P: 0674 – 2581201
E-mail : bhubneshwar@lubipumps.com

TELANGANA

HYDERABAD

P: 040-48505725, M: 8238038995
E-mail : hyderabad@lubipumps.com

ANDHRA PRADESH

VIJAYAWADA

M: 06359602346
E-mail : vijaywada@lubipumps.com

TAMILNADU

COIMBATORE

M.: 093818 16333, 09884966938
E-mail : chennai@lubipumps.com

KERALA

KOCHI

P: 0484-2345908
E-mail : kochin@lubipumps.com

KARNATAKA

BANGALORE

P: 080-26755055
E-mail : bangalore@lubipumps.com

HUBLI

P: 0836-4270050
E-mail : hubli@lubipumps.com

LUBI INDUSTRIES LLP

Near Kalyan Mills, Naroda Road, Ahmedabad-380 025, INDIA.

Phone : +91 - 79 - 61700100, Fax No. :+91 - 79 - 61700399.

Sales Enquiries: indsales@lubipumps.com, mktsales@lubipumps.com

www.lubipumps.com

Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

00.00.270421.0212



ISO 9001



ISO 14001

Customer Care Number : 09824200800