



# Energy Efficient Electric Motors

3 Phase LV Induction Motors (56-315 Frames)



**HAVELLS-LAFERT** MOTORS

Manufactured with Technology from AEG Electric Motors

## About us

Havells India Ltd, a US\$1.3bn company, and one of the largest & India's fastest growing electrical and power distribution equipment companies, manufacturing products ranging from Building Circuit Protection, Industrial & Domestic Switchgear, Cables, Energy Meters, Fans, CFL Lamps, Luminaires for Domestic, Commercial & Industrial application and Modular Switches.

Havells owns some of the prestigious global brands like Crabtree, Sylvania, Concord, Lumiance, Claude, Linolite, SLI Lighting & Zenith.

With 91 branches / representative offices and over 8000 professionals spread over 50 countries across the globe, the group has achieved rapid success in the past few years. Its 20 state-of-the-art manufacturing plants spread over India, Europe, Latin America & Africa churn out globally acclaimed products.

To add to the existing state-of-the-art manufacturing plants, Havells has set up a world class motor manufacturing facility at Neemrana (Rajasthan). This motor plant is one of the largest in Asia and is spread over 42 acres.

The plant has a capacity to manufacture over 250000 nos. energy efficient motors per year ranging from **0.12HP to 300HP** extendible to 500HP in near future. The complete range of motors from frame **56~315** are manufactured in-house and the plant and machinery has been procured from AEG Electric Motors.

### The manufacturing plant comprises of:

- Fully automatic winding lines
- Automatic impregnation plant
- Ultra-Violet impregnation plant
- Fully automated temperature controlled paint stations
- Fully equipped Mechanical Test Lab
- Modern Type Test Plant having 9 test beds with Power Analyzers

With world class manufacturing equipments process, quality systems & sizable capacities becoming operational, Havells is poised to extend its brand footprints across the country.

In line with Havells tradition of producing world class quality products, this plant also produces customer and environment friendly energy efficient motors.

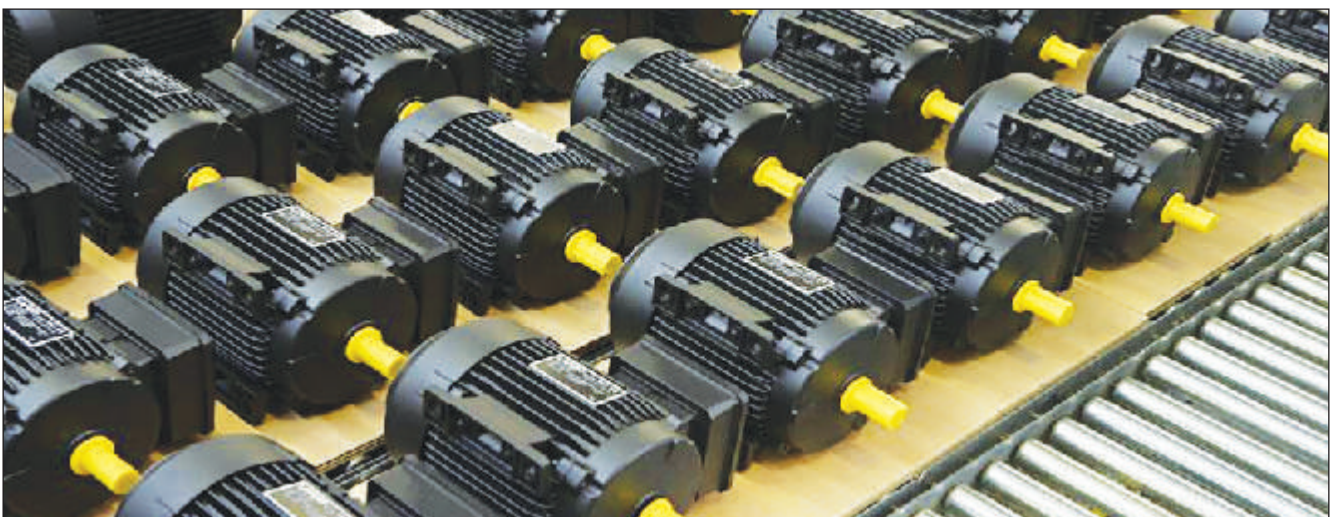
## Havells – New Foray in Motors

While continuously augmenting the production capacities of existing product lines it has been our endeavour to broaden product base. Havells has now commenced the manufacturing of three phase LV Motor Plant at Neemrana (Rajasthan). The motors are manufactured in technical collaboration with **Lafert** (one of the largest motor manufacturer in Europe) who are now the owners of **AEG Electric Motors**.

All the motors are being manufactured conforming to the relevant Indian Standards and are robust in electrical and mechanical design to cater under severe environmental conditions for every application such as

- Pumps
- Fans
- Blowers
- Compressors
- Conveyors
- Cranes
- Hoists
- Vibrators

The motors are designed for an ambient temperature of 50 degree C with class 'F' insulation and temperature rise limited to Class 'B'. Motors are suitable for Multi mount facility (upto frame 160) resulting in rotation of Terminal Box by 90°.



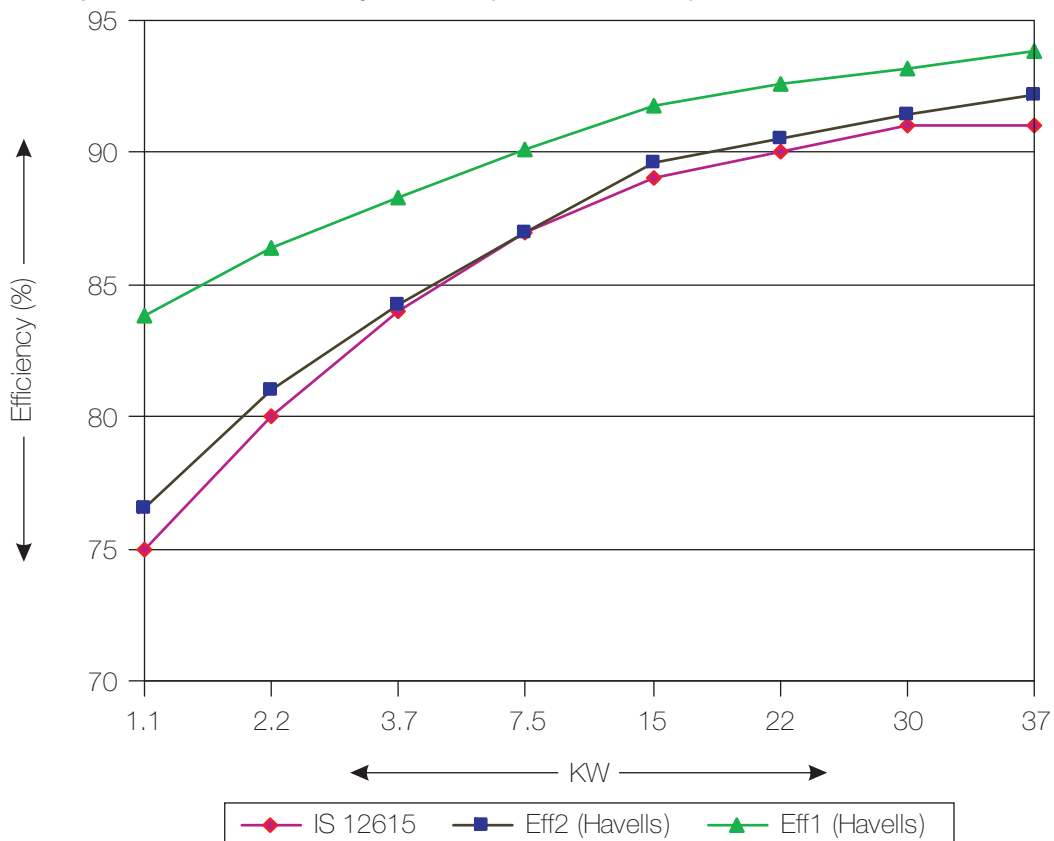
## Standard Product Specifications

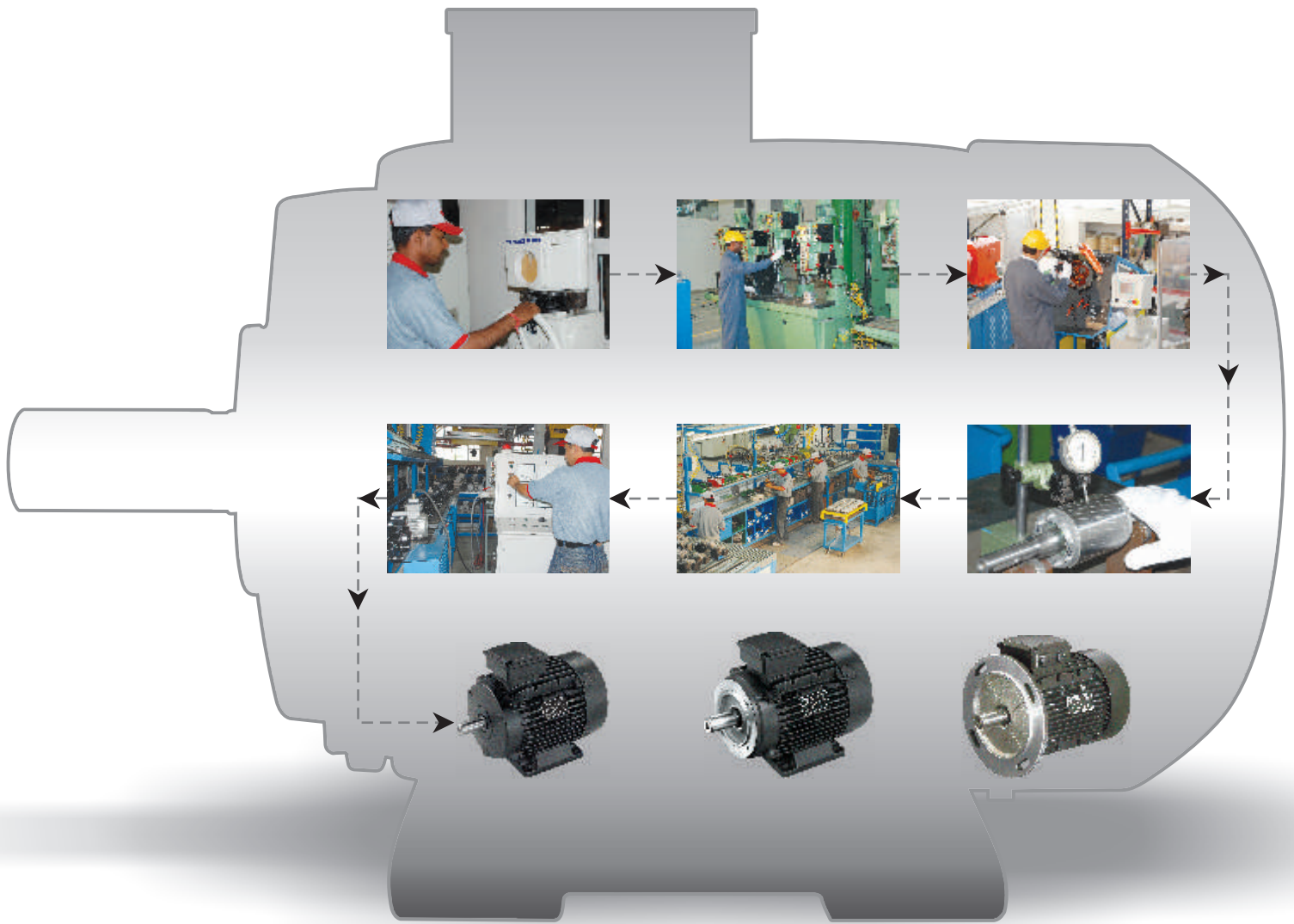
Motor Type	AC Three Phase Squirrel Cage Induction Motor
Enclosure	TEFC (Totally Enclosed Fan Cooled )
Range	0.12HP to 300HP
Frame	56-315
Reference Standard	IS:325; IS:12615
Voltage	415 Volts $\pm$ 10%
Frequency	50 Hz $\pm$ 5%
Combined Variation	10% (Absolute Sum)
Mounting	Foot, Flange, Foot cum Flange
Frame Dimensions	As per IS 1231 & IS 2223
Altitude	Upto 1000M
Relative Humidity	Upto 100%
Degree of Protection	IP 55
Class of Insulation	Class 'F'
Ambient Temp / Temp Rise	50°C / 70°C
Duty / Rating	S1 / Continuous
Position of Terminal Box	Top
Direction of Rotation	Bi-directional
Grease Type	Lithium Based
Cooling	Shaft Mounted Fan
Paint	RAL 9005

## Salient Features

- High efficiency results in saving of energy bills
- Low weight to output ratio
- Multimount construction of easy change of terminal box position (upto 160 frame)
- Suitable for standard VFD drives
- Good aesthetics and surface finish
- Better heat dissipation
- 6 Lead Terminal Box

## Comparison Of Efficiency Values (At 100% load)





**Branch Offices :**

**NORTH : Chandigarh :** SCO 12, 1st Floor, Sector-26, Madhya Marg, Chandigarh-160019. Tel: 0172-3934801, 3934802, Fax: 0172-3934803 **Dehradun :** HCL Compound, Saharanpur Road, Niranjanpur, Dehradun. Tel: 0135-2521025, 2521552 **Delhi :** 1831, Bhagirath Palace, Delhi-110016. Tel: 91-011-23873875, 23873877 / 78, Fax: 23863177 **Haryana :** E-1, Sector 59, Noida-201307. Tel: 91-120-2477848/853, Fax: 0120-2583904 **Noida :** D-6, Setor-8, Noida. Tel: 0120-3055609 / 3055610, Fax: 0120-3055611 **Ludhiana :** Plot No. 5-6, 3rd Floor, Carnival Shopping Complex, Mall Road, Ludhiana-141001. Tel: 0161-5002813, 3047977, Telefax: 0161-5028892 **Jammu :** Plot No. 86, Yard No. 6, Transport Nagar, Narwal, Jammu-180 002. Tel: 0191-2490424, Fax: 0191-2490405 **Jaipur :** 430-431, Ganpati Plaza, M.I. Road, Jaipur. Tel: 0141-3988210, Fax: 0141-2389024 **Kanpur :** Plot No. 8, Block A, Uptron Estate, Panki, Kanpur-208022. Tel: Airtel: 09935533751/52/53, 0512-2690128/129/130, Fax: 0512-2692800 **Lucknow :** Shri Pratap Bhawan, 43-C, 11nd Floor of Eastern Wing, Newal Kishore Road, Lucknow (U.P.) Telefax: 0522-2230865 / 66 / 67 **EAST : Bhubaneshwar :** Plot No. 168/169A, KAC House, Bapuji Nagar, Bhubaneshwar-751009. Tel: 0674-2530583, 2530504, Fax: 0674-2535591 **Guwahati :** Bank of Baroda Building, 4th Floor, G.S. Road, Bharalupar, Bhangagarh, Guwahati-781005. Tel: 0361-2463006, 2458923, Fax: 0361-2460355 **Kolkata :** 4, India Exchange Place, 5th F1, ICC Tower, Kolkata-700001. Tel: 033-22873946-48, 30289851-52, Fax: 033-22873928 **Ranchi :** 4th Floor, Commerce House, Sharda Babu Street, Main Road, Ranchi-834001. Tel: 0651-2206661, 2206716, 2200012, Fax: 0651-2207316 **Patna :** 104, Hem Plaza, Fraser Road, Patna-800001. Tel: 0612-3244218, 2655519, Telefax: 0612-2655518 **WEST : Ahmedabad :** 202-205, Shivalik-II, Near IOC petrol pump, 132 Ft. Ring Road, Satellite Ahmedabad-380015. Tel: 079-40061111, 40060738-740, Fax: 079-40060741 **Indore :** KBC House, 1stFloor, GF-33, Scheme No.54, Meghdoot Park Road, Opp. Hotel Sayaji, Vijay Nagar, Indore-452010. Tel: 0731-2572340-41, 4009998(Airtel), Fax: 0731-2551626 **Mumbai :** Plot No F11/12-1, First Floor, Administrative Bldg, Opp Seepz Main Gate, MIDC Central Road, Andheri East, Mumbai-400093. Tel: 022-30862000-04, Fax: 022-30862005-06 **Nagpur :** 76, Hindustan Colony, Near Dr. Dharmadhikari Hospital, Wardha Road, Nagpur-440015. Tel: 0712-2224132, 2222692, 2222029 **Pune :** THE ORION, 1st floor, 5, Koregaon Road, Opp.- Don Bosco Youth Centre, Pune - 411001. Tel: 020-64016413/14 **Raipur :** 1st Floor, Taank Business Road, Karnataka Bank Building, Fatadih, Raipur (Chattisgarh). Tel: 0771-3058240, Telefax: 0771-3058241 **Surat :** 9009-ANB, World Trade Centre, Ring Road, Near Udhana Darwaja, Surat-395002. Telefax: 0261-2350137 **SOUTH : Bangalore :** 6th Floor, Prestige Emerald, Madras Bank Road (Lavelle Road), Bangalore-560001. Tel: 080-39882100, 30515801-3, Fax: 080-30515804 **Chennai :** Block-1, A&D Wing, Shakthi Towers, 7th Floor, 766, Anna Salai, Chennai-600002. Tel: 044-28526941-44, Fax: 044-28524326 **Coimbatore :** 42, Dr. Nanjappa Road, 2nd Floor, Coimbatore-641018. Telefax: 0422-2305767, 2306199, 2305199 **Hyderabad :** 204-A&B, LALA-1, Land Mark, Above : Digital Shoppo, 5-4-94, M.G. Road, Secunderabad -500 003. Tel: 040-27533372, 27533355, 27533632, 66320407/0408/6401/6402, Fax: 040-27533211 **Kochi :** 42/1817-B, K.G. Square, Market Road, Near Compara Junction, Tatapuram P.O., Ernakulam-682014.Tel.: 0484-3010100 - 3010109 (9 lines), Fax: 0484-2393170 **Vishakapatnam :** 50-81-3, 2nd Floor, Krishna Enclave, Above Gopal TVS Show Room, Seethampeta Main Road, Vishakapatnam-530016. Tel: 0891-6514339, Fax: 0891-2522547

**Representative Offices :**

- Goa • Solapur • Gwalior • Jabalpur • Hubli • Davanagere • Gulbarga • Mangalore • Mysore • Lucknow • Trichny • Siliguri • Kathmandu • Sambalpur • Jalandhar Cantt. • Bhopal
- Calicut • Madurai • Trivandrum • Vijayawada

Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Havells Group.

**HAVELLS INDIA LTD.**

**Corporate Office:**

E-1, Sector-59, Noida-201307 (UP) India • Tel.: +91-120-3075777, Fax: +91-120-3075666

New Corporate Office w.e.f. 1st August : Plot No. 2-D, Sector-126, Noida-201303

Email: motors@havells.com www.havells.com

**Consumer Care**



**Toll Free No.**  
MTNL / BSNL  
**1800 11 0303**

**Landline**  
All Connections  
**011-4166 0303**