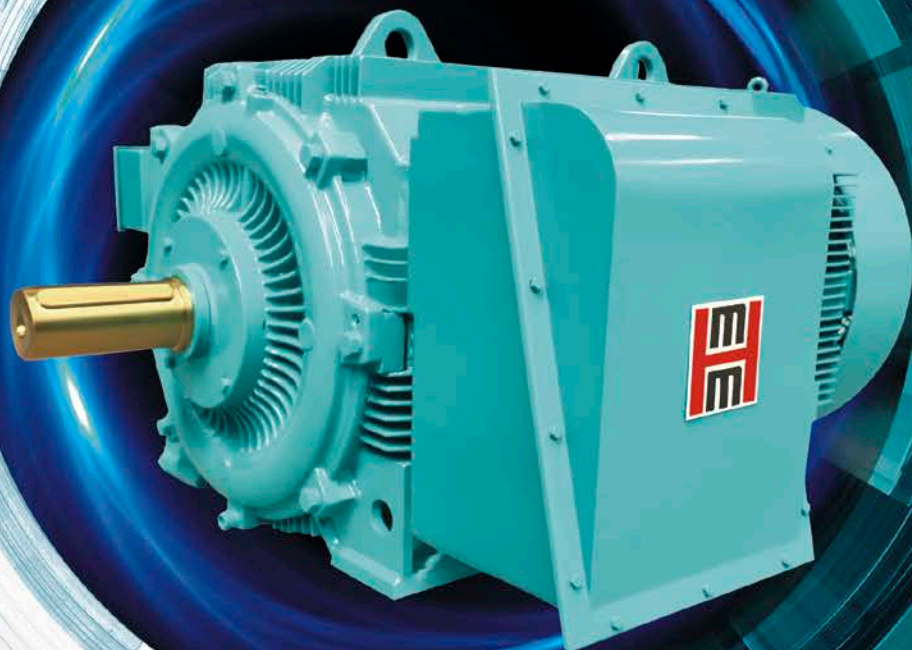


hindustan
ELECTRIC MOTORS

New Generation
2020 Duplex Cooling
Motor Series for...



Greatest power density
with Highest Reliability

ISO 9001: 2015



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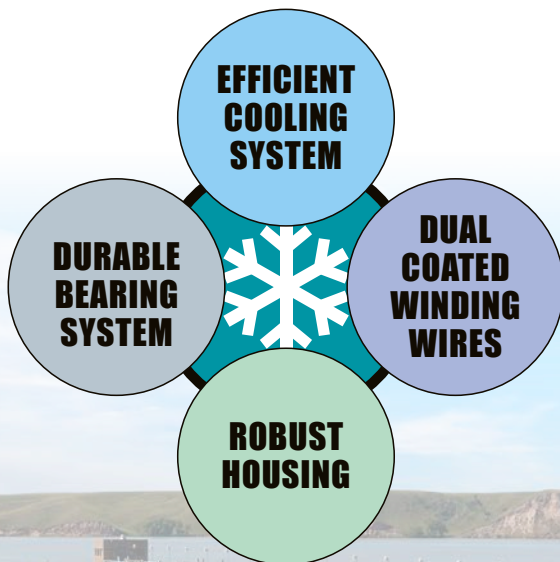
motoring the wheels of success

India's Foremost Manufacturer of Motors

Establishing strengthening and sustaining the development of a strong company not only means deploying resources, expertise and knowhow but also great determination and confidence in the future. Through all these years of intensive activity and quick expansions, the action towards common goal to stand out as a strong consistent group, constantly striving for improvement have driven HINDUSTAN ELECTRIC MOTOR attain and achieve a leading position in the Indian Motor industry.

Hindustan Electric Motor, an ISO 9001: 2015 company is the leading Electric Motor Manufacturer in India with a proven track record of over four decades.

From a modest beginning with an electric motor unit in Mumbai, Hindustan Electric Motor has set up state of art manufacturing facilities at Daman & Vapi. The last four decades have seen the core business develop along with different product lines; Flameproof motors, Crane duty motors, Cooling tower motors, Textile motors, Inverter duty motors, Brake motors & other motors for customer specific application. In the manufacture of motor, a competitive edge lies in providing consistent quality, high reliability with innovative products. Our expansion in Daman & Vapi was to address these keys market determinants. The manufacturing set up is sourced out from the world renowned machinery and technology suppliers with constant up gradations and expansions.



New Generation 2020 Duplex Cooling series with Unique Motor Design....

Having Duplex Cooling system where the temperature of winding is evenly distributed throughout the overall surface of stator and rotor cores and their windings.

The rotor is Aluminium pressure die casted with number of ventilated cooling slots from which the internal cooling air flows and this hot air is transferred through the number of channels provided in the stator housing with the help of aerodynamically shaped internal cooling fan which is mounted on rotor shaft. This results in higher efficiency due to the lower losses.

Bearing system is designed for better life and greater reliability.

Winding wires are having dual coated enamel covering having temperature index of 200°C & impregnation using VPI (Vacuum pressure impregnation) ensures superior electrical insulation system.

Robust housing design is capable to sustain extremely high loading stresses.

Range:

Frames	: 315 & 355
Power	: 160.0 to 500.0 kW
Poles	: 2, 4, 6 & 8
Mounting	: B3, B35/V1 upon requests
Voltage	: 380 to 690V±10% or as required
Frequency	: 50Hz±5% or as required
Protection	: IP55
Cooling method	: IC 411, IC 416

ELECTRICAL PERFORMANCE - DUPLEX COOLING MOTOR

ELECTRICAL PERFORMANCE FOR IE3 DUPLEX COOLING TYPE 3 PHASE SQ. CAGE INDUCTION MOTORS SUITABLE FOR 415V±10%, 50HZ±5%, AMBIENT TEMP. 40°C, CLASS 'H' INSULATION WITH CLASS 'F' TEMP RISE, IP55 PROTECTION, TOTALLY ENCLOSED FAN COOLED (TEFC) CONSTRUCTION, CONTINUOUS (S1) DUTY.

Output		Frame Size	Type Designation	Speed (rpm)	Current (A)	Torque (kgm)	Efficiency %			Power Factor			I _{ST} /I _N	T _{ST} /T _N	T _{P0} /T _N	GD ² (kgm ²)	Wt. (kg)
KW	HP						FL	3/4L	1/2L	FL	3/4L	1/2L					
2 POLE																	
250	335	315M	2HD3 313-02	2980	402.0	81.7	95.8	95.8	94.5	0.90	0.88	0.85	7.5	1.9	2.5	8.973	2100
315	425	315L	2HD3 316-02	2980	506.0	103.0	95.8	95.8	94.5	0.90	0.88	0.85	7.5	2.0	2.5	10.029	2200
355	475	355S	2HD3 350-02	2982	576.0	116.0	95.8	95.8	94.5	0.90	0.88	0.85	7.7	2.0	2.5	13.269	2270
400	536	355M	2HD3 353-02	2982	649.0	130.7	95.8	95.8	94.5	0.90	0.88	0.85	7.7	2.0	2.5	15.259	2350
450	603	355M	2HD3 354-02	2982	725.0	147.0	95.8	95.8	94.5	0.90	0.88	0.85	7.7	2.0	2.5	17.250	2420
500	670	355L	2HD3 356-02	2982	800.0	163.3	95.8	95.8	94.5	0.91	0.88	0.85	7.7	2.0	2.5	19.240	2500

4 POLE																	
250	335	315MX	2HD3 313-04	1485	412.0	164.0	96.0	96.0	95.0	0.88	0.85	0.79	7.7	2.0	2.5	15.916	2100
315	425	315LX	2HD3 316-04	1487	519.0	206.3	96.0	96.0	95.0	0.88	0.85	0.79	7.7	2.0	2.5	19.988	2250
355	475	355SX	2HD3 350-04	1489	596.0	232.2	96.3	96.3	95.4	0.86	0.83	0.77	7.7	2.1	2.5	23.078	2310
400	536	355MX	2HD3 353-04	1489	682.0	261.7	96.5	96.5	95.7	0.85	0.82	0.75	7.7	2.1	2.5	25.963	2390
450	603	355MX	2HD3 354-04	1490	766.0	294.2	96.6	96.6	95.9	0.85	0.82	0.75	7.7	2.1	2.5	28.847	2470
500	670	355LX	2HD3 356-04	1490	858.0	326.8	96.7	96.7	96.4	0.84	0.80	0.74	7.7	2.1	2.5	31.732	2550

6 POLE																	
160	215	315SX	2HD3 310-06	990	276.0	157.4	95.6	95.6	95.0	0.84	0.81	0.72	7.5	2.0	2.4	23.759	2100
200	270	315MX	2HD3 313-06	990	347.0	196.8	95.8	95.8	95.0	0.84	0.80	0.71	7.5	2.2	2.4	23.759	2150
250	335	315LX	2HD3 316-06	990	430.0	246.0	95.8	95.8	95.0	0.84	0.81	0.73	7.5	2.0	2.4	26.500	2300
315	425	355MX	2HD3 353-06	992	547.0	309.3	95.8	95.8	95.0	0.84	0.81	0.73	7.7	2.0	2.4	32.572	2430
355	475	355LX	2HD3 356-06	992	616.0	348.6	95.8	95.8	95.0	0.84	0.81	0.73	7.7	2.0	2.4	36.259	2520
400	536	355LX	2HD3 357-06	992	695.0	392.7	95.8	95.8	95.0	0.84	0.81	0.73	7.7	2.0	2.4	40.561	2600

8 POLE																	
160	215	315MX	2HD3 313-08	739	315.0	210.9	94.3	94.3	92.0	0.75	0.68	0.56	7.0	2.1	2.4	23.759	2150
200	270	315LX	2HD3 316-08	739	389.0	263.6	94.6	94.6	93.0	0.76	0.70	0.60	7.0	2.1	2.4	28.328	2240
250	335	355MX	2HD3 353-08	741	458.0	328.6	94.6	94.6	93.0	0.80	0.75	0.67	7.0	2.1	2.4	32.572	2520
315	425	355LX	2HD3 356-08	741	576.0	414.0	94.6	94.6	93.0	0.80	0.75	0.67	7.0	2.1	2.4	40.561	2600



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