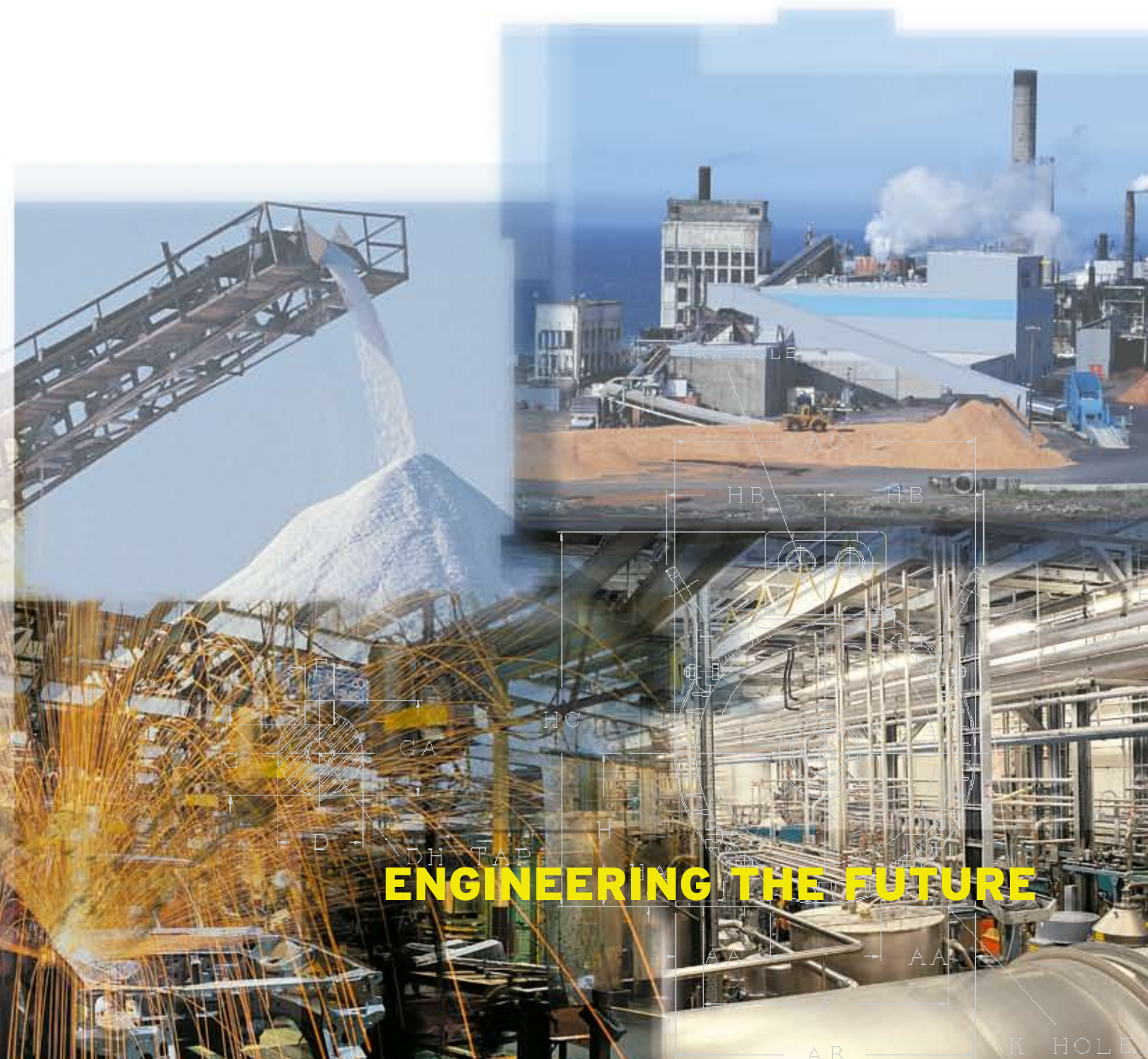


Advantage Lite

ALUMINIUM

Totally enclosed fan cooled squirrel cage induction motors



ENGINEERING THE FUTURE

Advantage Lite

ALUMINIUM

TECO TEFC Aluminium squirrel cage induction motors are designed, manufactured and tested to meet the latest European and International Standards. Their proven high quality and adaptable aluminium construction, ideally suitable for all industrial markets.

Features:

- Multi-Mount
- Lightweight

ELECTRICAL SUPPLY & RATINGS

All motors work with either Delta or Star configurations.

kW	Volts	Connection	Hz
≤2.2	220/240	△	50
	250/280	△	60
	380/415	Y	50
	440/480	Y	60
	380/415	△	50
	440/480	△	60
	660/690	Y	50

ENCLOSURE

The standard protection is to IP55 for B3 (IM1001) or B3/B5 (IM2001) mounting.

DUTY RATING

All motors are continuously maximum rated type S1. However, all motors can operate continuously with a 10% overload if the Class F temperature rise is acceptable.

AMBIENT

Standard motors are designed to operate in an ambient temperature of -15°C to 40°C.

ALTITUDE

Standard motors are designed for operation and performance at an altitude not exceeding 3,300 feet (1,000 metres) above sea level. For higher altitudes derating of output kW may be necessary.

PERFORMANCE

All standard motors are designed to meet IEC 60034-12 design N performance requirements.

DIRECTION OF ROTATION

All standard motors are suitable for operation in either direction of rotation.

MOUNTING

Motors are available in the following mounting types:

Foot mount horizontal shaft (B3)

Flange mount (B5 or V1)

Foot and flange mount (B3/5)

PAD mount (for fan duty)

FRAMES & ENDSHIELDS

Stator frames are made from a high-grade aluminium alloy. The materials of end shield are as follow:

- IM B3: Frame size 63 ~90 - aluminium
Frame size 100 ↑ - cast iron
- IM B5,B14: Frame size 63 ~132 - aluminium

FAN AND FAN COWL

Polypropylene fans are fitted with key as standard. Fan cowls are of heavy gauge pressed steel construction, securely bolted to the motor endshield.

BEARING AND LUBRICATION SYSTEM

Standard motors are fitted with high quality pre-lubricated double shielded ball bearings.

ROTOR ASSEMBLY

The rotor core consists of high grade insulated electromagnetic steel laminations with a pressure die-cast high conductivity aluminium cage. Integrally cast with the cage are waffer blades and balance weight supports. The whole assembly is then dynamically balanced.

STATOR, WINDING AND CLASS F INSULATION SYSTEM

Stator laminations are built of high grade electromagnetic steel for high efficiency. Coil wires are insulated with a heavy build heat-resistant polyester coating. Connections are insulated with cross-linked silicone rubber braid. The complete winding is dipped in Class F varnish and baked to cure. External winding flexible leads are cross-linked silicone rubber insulated.

TERMINAL BOX

Terminal boxes are generously proportioned and rotatable 4 x 90-degree increments and contain a 6 terminal connection block and earth terminal directly connected to the frame in compliance with relevant European Directives. Boxes are gasketed between frame, box, cover and gland plate for IP55 protection. The terminal box located on the top of the frame as standard. The multi-mount design allows the terminal box to be fixed in three separate positions giving complete user adaptability.

NAMEPLATE

Nameplates are made from stainless steel.

PAINT FINISH

Phenolic basic + lacquer surface finished in blue - gray color.

TESTING

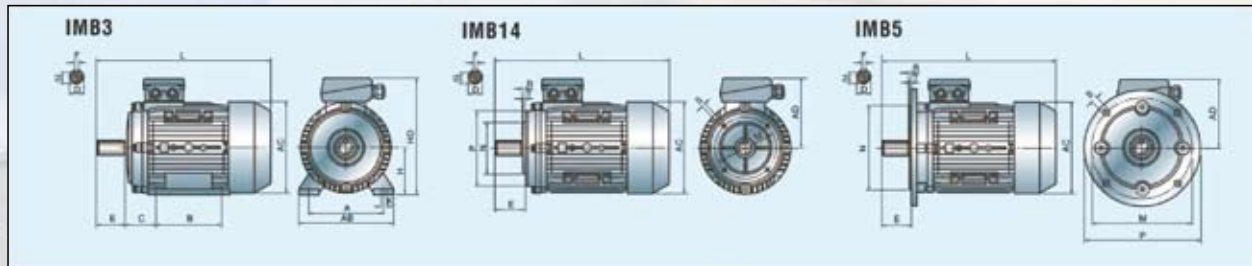
In addition to a full programme of tests during manufacture, each motor undergoes an automatic routine test to EN60034-1 and BS4999 prior to despatch.

NOTES

All data is subject to change without prior notification.



Dimensions in mm



Frame Size	Mounting Dimensions (mm)																				Frame Dimensions (mm)					
	IMB14										IMB5										AB	AC	AD	HD	L	
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S						T
55	90	71	36	9	20	3	7.2	56	5.8	65	50	80	0	M5	2.5	100	80	120	0	7	3.0	110	120	110	155	195
63	100	80	40	11	23	4	8.5	63	7	75	60	90	0	M5	2.5	115	95	140	0	10	3.0	130	130	115	165	230
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	145	145	125	185	255
89	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	165	130	200	0	12	3.5	153	155	130	210	285
98S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	173	175	136	226	330
98L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	235	360
100L	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	215	180	250	0	15	4.0	205	215	170	255	380
112M	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	215	180	250	0	15	4.0	245	240	180	285	400
132S	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4.0	265	230	300	0	15	4.0	280	275	195	325	475
132M	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4.0	265	230	300	0	15	4.0	280	275	195	325	515
160M	254	210	108	43	110	12	37	160	15	215	180	250	0	M12	4.0	300	250	350	0	15	5.0	320	330	255	420	615
160L	254	254	108	42	110	12	37	160	15	215	180	250	0	M12	4.0	300	250	350	0	15	5.0	320	330	255	420	670
180M	279	241	121	48	110	14	42.5	180	15	265	230	300	0	M15	4.0	300	250	350	0	19	5.0	355	380	280	455	700
180L	279	279	121	48	110	14	42.5	180	15	265	230	300	0	M15	4.0	300	250	350	0	19	5.0	355	380	280	455	740

NOTES

1. Tolerance of shaft end diameter D: under $\phi 28$: j6 $\phi 38$: k6
2. Tolerance of shaft center height H +0, -0.5

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