

With
Stamps of
Quality



LICENCEE OF
VEB KOMBINAT ELECTROMASCHINENBAU
GERMANY

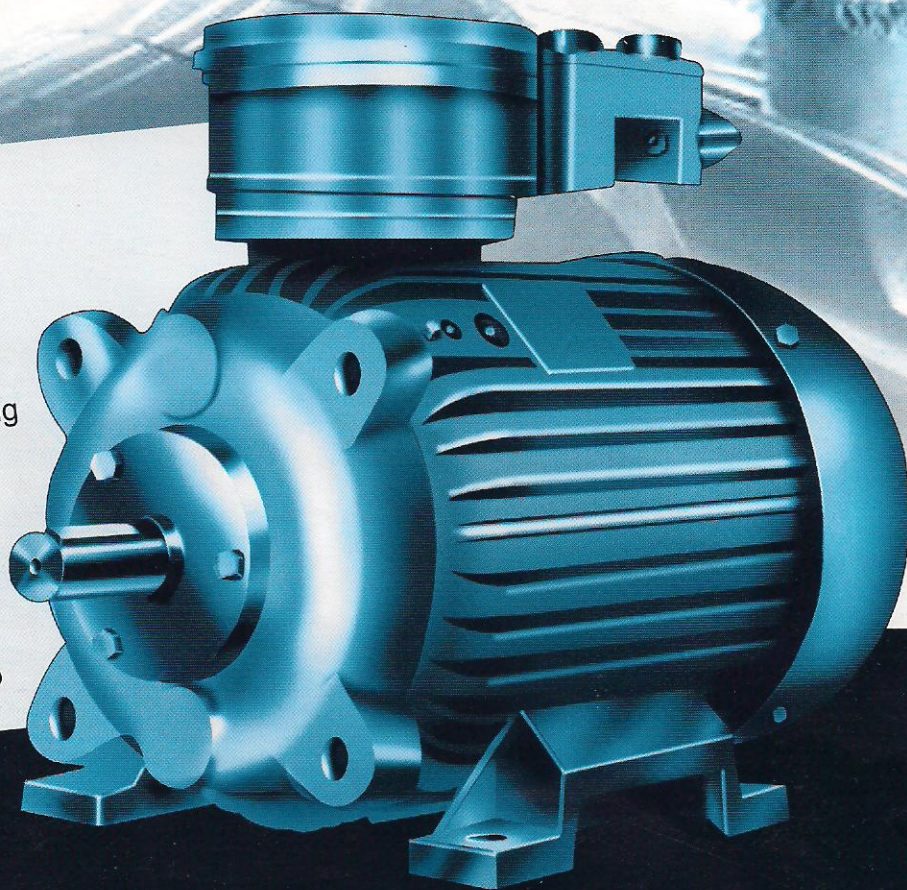


RWTUV

HAZARDOUS
AREA

Why **REMI** Motors?

- Starting from 63 Frame
- German Technology
- ISO-9002 Company
- Manufactures Own Electrical Stamping
- Vacuum Impregnation of Winding
- Low Noise and Vibration
- Can offer Non Standard / Custom Built Special Motors
- Price and Delivery Advantage
- All India Sales and Service Back Up



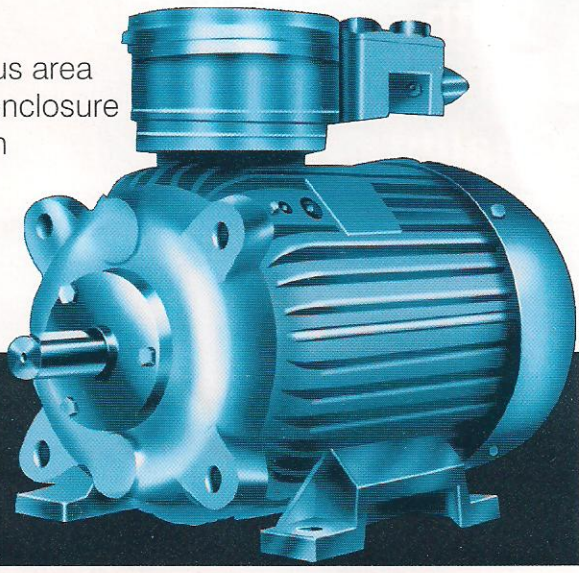
REMI

FLAME PROOF MOTORS

Suitable for Gas Group I, II A & II B of IS 2148-1981

REMI flame proof motors are designed to ensure that in hazardous area any accidental internal explosion is contained in the flame proof enclosure without damage to itself and without communicating the flamation (or explosion) to the external hazardous atmosphere.

Flame proof equipment must be used in all division I and certain division II areas as laid down in guide for selection of electrical equipment in hazardous areas IS: 5571-1970.

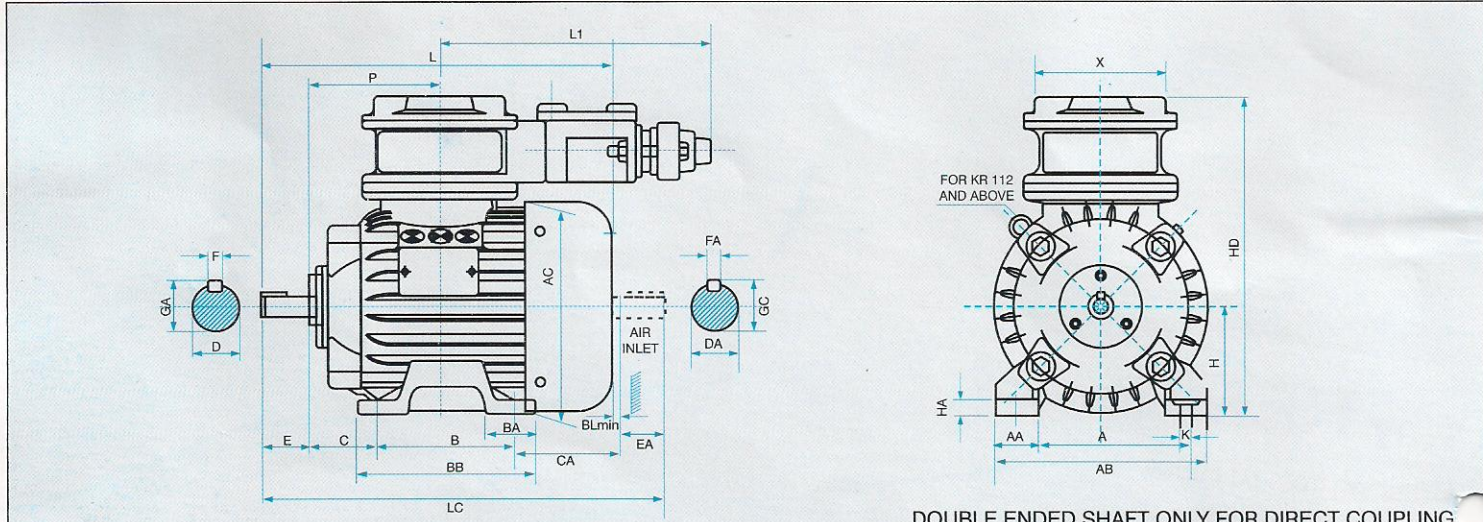


REMI FLAME PROOF MOTORS

Suitable for Gas Group I, II A & II B of IS 2148-1981

CONSTRUCTION : Construction has been kept simple and sturdy to assure dependable service despite the low weight co-efficient of the motors, thus making them specially suitable for rough conditions encountered in Chemical, Mining and Petroleum industries REMI motors are manufactured suitable for Groups I, II A & B gases specified in IS 2148-1981 (see table adjacent). These designs also correspond to VDE standards 0170/0171/2.61 and 0530/7.55 with respect to explosion

protection class Ex. (d). REMI flame proof motor has squirrel cage dynamically balanced rotor, anti friction bearing and fan cooling. High strength grey cast iron is employed for terminal box and cover, end-shield, cooling fan and housing. Every enclosure is hydraulically tested for pressure of 10kg/Sq. cm (150 lb/Sq. in) to ensure strength of casting and that there is no leakage through blow holes and pinholes.



ALL DIMENSIONS ARE IN m.m.

DOUBLE ENDED SHAFT ONLY FOR DIRECT COUPLING
BL min = MINIMUM DISTANCE FOR AIR INLET

FRAME	B	A	HA	D DA	BB	AB	AC	L1	H	X	L	LC	E EA	BA	AA	HD	K	GA GC	F FA	C	CA	P	BL Min
63 S	80	100	10	11K6	105	125	122	180	63	102	201	229	23	28	25	204	7	13	4	40	49	73	14
63 M	80	100	10	11K6	105	125	122	180	63	102	215	243	23	28	25	204	7	13	4	40	63	73	14
71 S	90	112	11	14K6	115	140	138	180	71	102	247	282	30	32	28	221	7	16.5	5	45	71	85	16
71 M	90	112	11	14K6	115	140	138	180	71	102	267	302	30	32	28	221	7	16.5	5	45	91	85	16
80 S	100	125	12	16K6	125	157	155	180	80	102	294	339	40	30	32	238	10	18.5	5	50	100	96	16
90 S	100	140	13	19K6	130	175	174	180	90	102	313	358	40	35	35	256	10	22	6	56	109	105	18
90 M	125	140	13	19K6	155	175	174	180	90	102	338	383	40	35	35	256	10	22	6	56	109	105	18
100 S	112	160	15	24K6	147	200	194	180	100	102	367	422	50	42	40	274	12	27	6	63	133	108	20
100 M	140	160	15	24K6	175	200	194	180	100	102	399	454	50	42	40	274	12	27	6	63	137	108	20
112 S	114	190	18	28K6	154	232	220	180	112	102	403	468	60	44	46	298	12	31	8	70	145	112	22
112 M	140	190	18	28K6	180	232	220	180	112	102	429	494	60	44	46	298	12	31	8	70	145	112	22
132 S	140	216	22	32K6	180	268	257	245	132	80	482	567	80	52	52	364	12	35.5	10	89	153	136	25
132 M	178	216	22	32K6	218	268	257	245	132	80	520	605	80	52	52	364	12	35.5	10	89	153	136	25
160 M1	210	254	24	38K6	262	322	310	245	160	80	538	623	80	68	68	415	15	41.5	10	108	157	146	30
160 M	210	254	24	38K6	262	322	310	245	160	80	570	655	80	68	68	415	15	41.5	10	108	157	146	30

NOTE : 1) TERMINAL BOX POSITION WILL BE ON RIGHT HAND SIDE LOOKING FROM DRIVING END SIDE ONLY FOR FRAME 132S
2) TERMINAL BOX POSITION FOR ALL OTHER FRAMES ON TOP AS SHOWN IN ABOVE SKETCH.

CERTIFICATION : REMI flame proof motors have been tested and approved by Central Mining Research Stations, Dhanbad for Gas Group I, II A & B locations. They are certified for use in gassy Coal Mines by the Directorate General of Mines Safety, Dhanbad and are also certified by the Directorate General Factory Advice Service and Labor institutes, Mumbai and Chief inspector of explosives Nagpur as well as ISI.

WINDINGS : A Single layer winding is utilised which is constructed according to insulation class 'F' in compliance with IS:1271-1958. Only high quality material used which is suitable for temperature rise of 80% over a maximum ambient temperature of 40°C at a relative humidity of 80% referred to 20°C. The windings are impregnated and treated for operation in humid and tropical climate. The special treatment also affords protection against chemically aggressive gases and vapours as well as conductive dust.

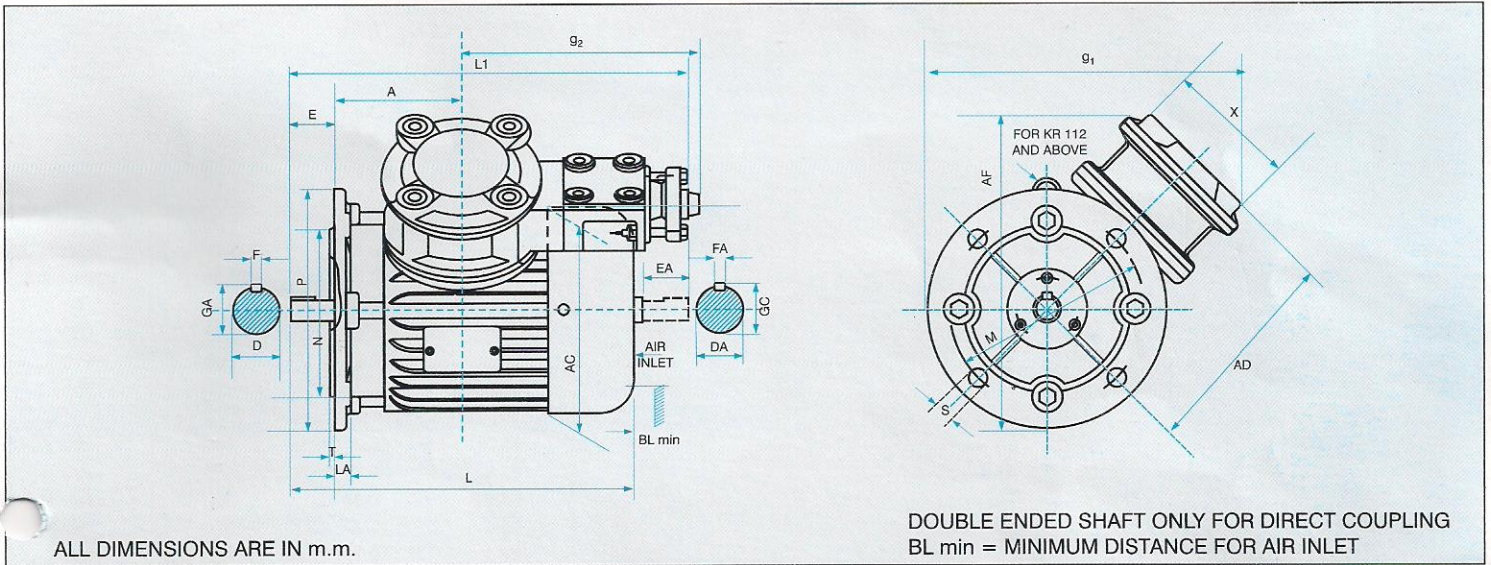
DESIGNS : REMI flame proof motors are available in 3 basic designs, Horizontal Foot Mounted, (B3) Vertical Flange Mounted (B5 or B14). A wide variety of mounting positions are possible with these designs.

POWER RATING : REMI flame proof motors are intended for operating voltage of 400/440 Volts, at 50 HZ different frequency and voltage available on request. Motors 2.2KW (3HP) and below can be started direct-on-line hence these motors are internally star connected. Motors above 2.2 KW (3HP) are delta run, but suitable for D.O.L. starting only.

CABLE ENTRY : Motors can be supplied with either conduit entry or cable entry system. Cable entry system is approved and suitable for PILCDWA or VIR type of Cable.

REMI Flame Proof Motors
are certified as
SAFE
for Gas Group I II A & B locations

Group of Enclosure Suitable for a Particular Flammable Gas or Vapour IS-2148-1981			
Group	Flammable Gas or Vapour		
I	Methane		
II A	Blast Furnance Gas	Carbon Monoxide	Heptane
	Propane Butane	Pentane Hexane	Ammonia
	Iso-octane	Decane	Cyclohexane
	Benzene	Xylene	Methyl Acetate
	Acetone	Ethyl Methyl Ketone	Methanol
	n-propyl	Acetate	n-Butanel
	Amyl Acetate	Chloroethyene	n-Butanel Acetate
	Ethanol	Iso Butanol	
	Amyl Alcohol	Ethyl Nitrite	
II B	1,3-Butadiene	Ethyene	Diethyl Ether
	Ethylene Oxide	Town Gas	Coke Oven GAs
II C	Hydrogen		



ALL DIMENSIONS ARE IN m.m.

FRAME	P	N	HA	D DA	M	T	AC	g1	g2	X	E EA	L	L1	AF	GA GC	F FA	AD	S	A	BL Min
63 S	140	95j6	10	11K6	115	3	112	200	180	102	23	201	229	200	13	4	141	9.5	73	14
63 M	140	95j6	10	11K6	115	3	112	200	180	102	23	215	243	200	13	4	141	9.5	73	14
71 S	160	110j6	10	14K6	130	3.5	138	216	180	102	30	247	282	216	16.5	5	150	9.5	85	16
71 M	160	110j6	10	14K6	130	3.5	138	216	180	102	30	267	302	216	16.5	5	150	9.5	85	16
80 S	160	110j6	10	16K6	130	3.5	155	220	180	102	40	294	339	222	18.5	5	158	9.5	96	16
90 S	200	130j6	12	19K6	165	3.5	174	247	180	102	40	313	358	247	22	6	166	11.5	105	18
90 M	200	130j6	12	19K6	165	3.5	174	247	180	102	40	338	383	247	22	6	166	11.5	105	18
100 S	200	130j6	12	24K6	165	3.5	194	253	180	102	50	367	422	252	27	6	174	11.5	108	20
100 M	200	130j6	12	24K6	165	3.5	194	253	180	102	50	399	454	252	27	6	174	11.5	108	20
112 S	250	180j6	16	28K6	215	4	220	287	180	102	60	403	468	287	31	8	185	14	112	22
112 M	250	180j6	16	28K6	215	4	220	287	180	102	60	429	494	287	31	8	185	14	112	22
132 S	300	230j6	18	32K6	265	4	257	390	245	80	80	482	567	390	35.5	10	232	14	136	25
132 M	300	230j6	18	32K6	265	4	257	390	245	80	80	520	605	390	35.5	10	232	14	136	25
160 M1	350	250j6	20	38K6	300	5	310	436	245	80	80	538	623	436	41.5	10	225	18	146	30
160 M	350	250j6	20	38K6	300	5	310	436	245	80	80	570	655	436	41.5	10	225	18	146	30