

ROTOTECH

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HAZARDOUS AREA ELECTRIC MOTORS

**QUALITY
ROBUST
SAFETY
IEC STANDARD**



ROTOTECH

Rototech specialise in the manufacture, service and supply of electric motor & control systems

ROTOTECH supply, manufacture and service industrial Electric motors, Speed Controller VFDs, Soft starters, Control Packages and more. We supply and manufacture a range of motors including:

- Explosion Proof Electric Motors
- Water Proof Electric Motors
- IEC motors and more.

We pride ourselves on our 24 Hour Customer Service and our focus on Value, Efficiency & Service. We service the mining, agriculture, wineries, HVAC, pumping, manufacturing and food processing industries. We pride ourselves on:

- Spare no effort in supplying to you the right product at the right time with a commitment to value.
- Provide fast, accurate technical support and pricing with friendly customer account support.
- Fast Delivery.

*** Electric Motors * AC Drives * Soft Starters * Pump Control Packages
* Encoders * Geared Motors * Motor Protection & * Energy Saving Solutions**



INNOVATION

Rototech has a great history of innovation with many patents already in place. Our development team use the latest 3D and simulation technology to push the limits of electric motor and control technology.

WORKING WITH CUSTOMERS

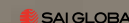
Rototech works closely with our customers to provide integrated product development services, which increases product durability, protection against extreme conditions and improved cost and energy savings.

ENERGY SAVING

Electric motor systems account for about 60 percent of global industrial electricity consumption. We place high priority of exploring the potential for energy efficiency improvement in motor and electrical systems.



Quality
ISO 9001



'Ex' Motor Tech Specs

Frame Size : 80-800
 Rated Power : 0.18kW-400kW
 Rated Voltage : 400V-1000V
 Protection: Ex e
 Ex nA
 Ex tD
Ex d (Group I & II)



Degrees of Efficiency : MEPS -2
 Degrees of Protections : IP55/56/66
 Degrees of Insulation: F/H

Hazardous Electric Motors

There are a number of defined hazardous areas covering gases and dusts. It is therefore strongly recommended that the relevant IEC, Australian Standards and Statutory Authorities be consulted prior to final selection of the motor including:

- Ex d Group I - Combination of Gas & Dust
- Ex d Group IIA, IIB & IIC - Combination of Gas & Dust
- Ex d Single Phase 240 Volt
- Ex d High Voltage
- EX d Brake & Two Speed
- Ex tD (Formerly DIP) -Dust Excluding Ignition Proof
- Ex d Forced Cooled Inverter Duty
- Ex e - Increased Safety Motors
- EX nA - Non Sparking Motors



'Ex' Motor Tech Specs

Ex e - Increased Safety Motor

Characteristics: Does not produce arcs or sparks in normal service
 Applications:

- Uses in Zone I , Group II (A, B, & C) & Temperature Class T3
- Where explosive gas atmosphere is likely to occur in normal operation

Ex nA - Non Sparking Motor

Characteristics: Not capable to igniting a surrounding explosive atmosphere
 Applications:

- Uses in Zone 2 , Group II A & IIB & Temperature Class T3
- Where explosive gas atmosphere is not likely to occur in normal operation & only in a short period

Ex tD - Dust Excluding Ignition Proof (Former DIP)

Characteristics: Enclosed type motor , excludes dust & not permit arcs , sparks or heat
 Applications:

- Uses in Zone 2I & 22 dust laden hazardous & Temperature Class T4
- Where explosive dust / air mixture is likely to occur

Ex d - Group I , Combination of Gas & Dust

Characteristics: Methane gas ,underground mining
 Applications:

- Uses in Zones 1,2 ,2I & 22 & Temperature Class T4
- Where explosive gas and or dust mixture is likely to occur

Ex d - Group IIA, IIB & IIC , Combination of Gas & Dust

Characteristics: All other industries , surface industries
 Applications:

- Uses in Zones 1,2 ,2I & 22 & Temperature Class T4
- where explosive gas and or dust mixture is likely to occur



Hazardous Group and Zone Classifications

Hazardous Area Categories

Flammable Gasses Vapours or mists

Combustible Dusts Fibres or practices

Hazardous Area Groups

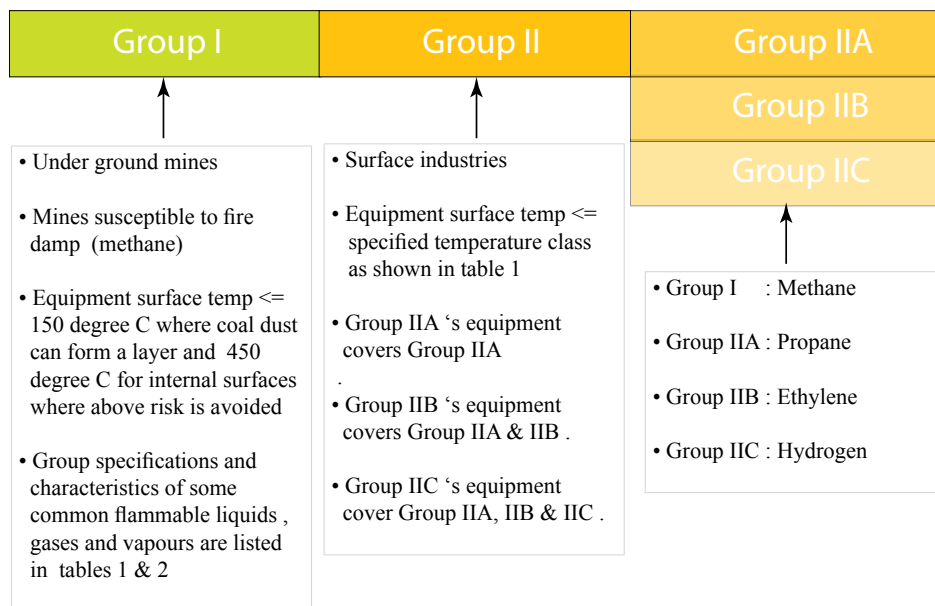
Group I Underground mines

Group II Surface industries



'Ex d' Motor

Group Classifications



Hazardous Group and Zone Classifications

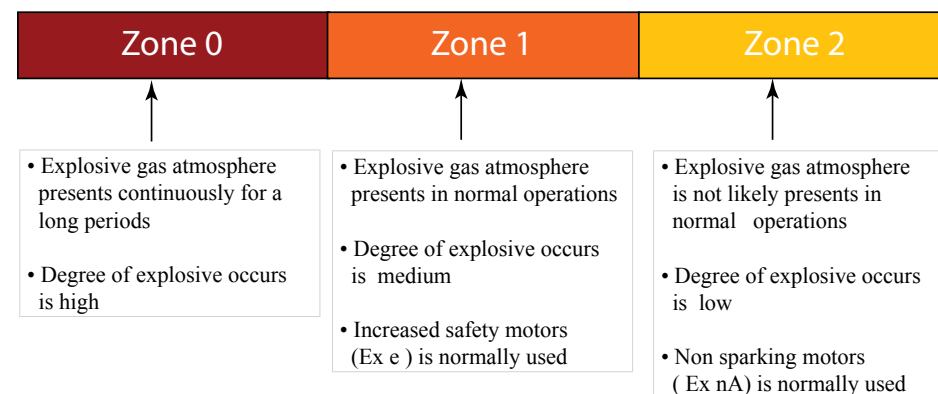
Gaseous Hazards

Explosive gas

Explosive gas atmospheres are classified into zones based on

- the frequency
- duration of their occurrence

Zone Classifications - Gas



Combustible Dust Hazards

Combustible Dusts & Fibres

Combustible dusts & fibres in dangerous quantities are classified as hazardous and divided into three zones according to level of risk

Zone Classifications - Combustible dust

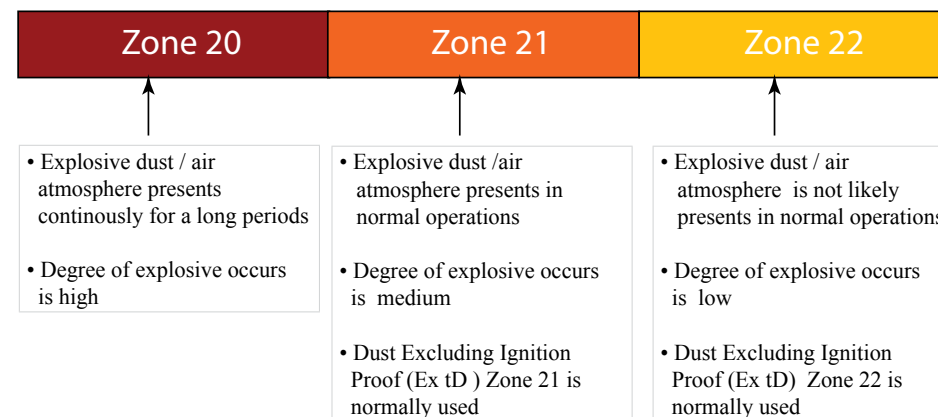


Table 1: Ignition Temperature of Gas or Vapor

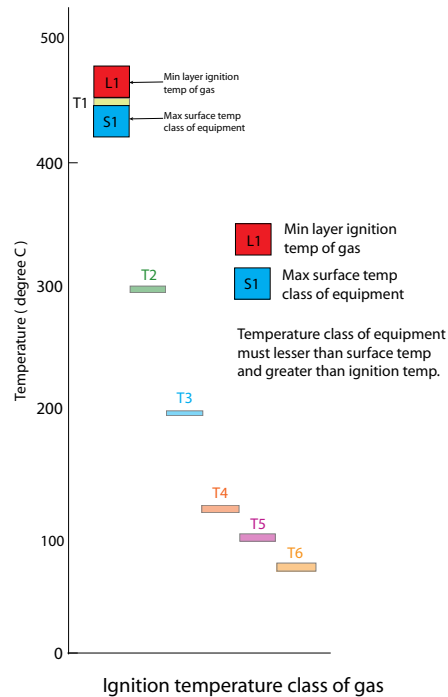


Table 2: Samples of Ignition Temperature of Gas or Vapor

Material	Boiling point (degree C)	Flash point (degree C)	Ignition point (degree C)	Gas Group
Acetone	56	-20	465	IIA
Acetylene	-83	Gas	305	IIC
Ammonia	-33	Gas	651	IIA
Benzene	80	12	498	IIA
Butane	-1	Gas	287	IIA
Carbon mono	-192	Gas	609	IIA
Ethane	-89	Gas	472	IIA
Ethyl alcohol	78	55	363	IIA
Ethylene	-104	Gas	450	IIB
Heptane	98	-4	204	IIA
Hydrogen	-252	Gas	500	IIC
Hydrogen Cyanide	26	-18	538	IIB
Methane	-162	Gas	537	IIA
Propane	-42	Gas	432	IIA
Toluene	111	4	480	IIA

Table 3: Ignition Temperature of Combustible Dust

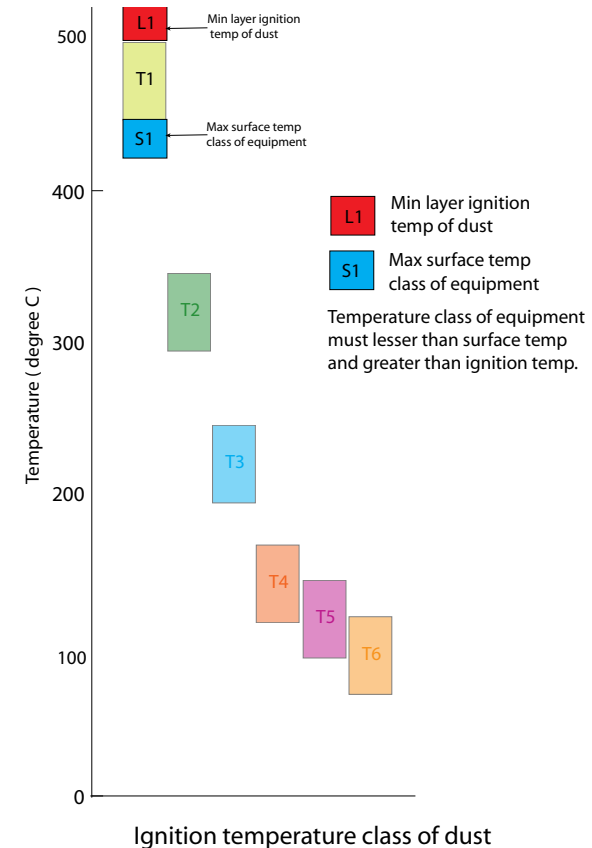


Table 4: Samples of Ignition Temperature of Combustible Dust

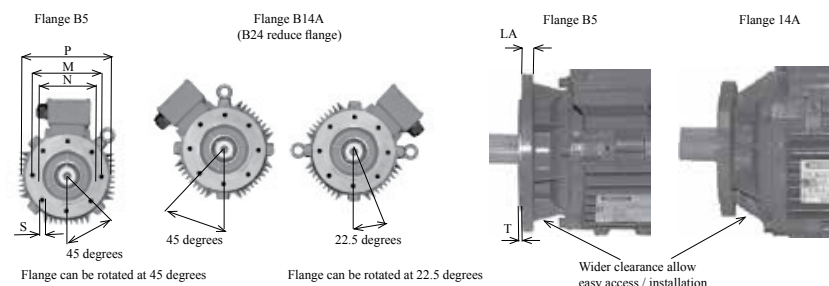
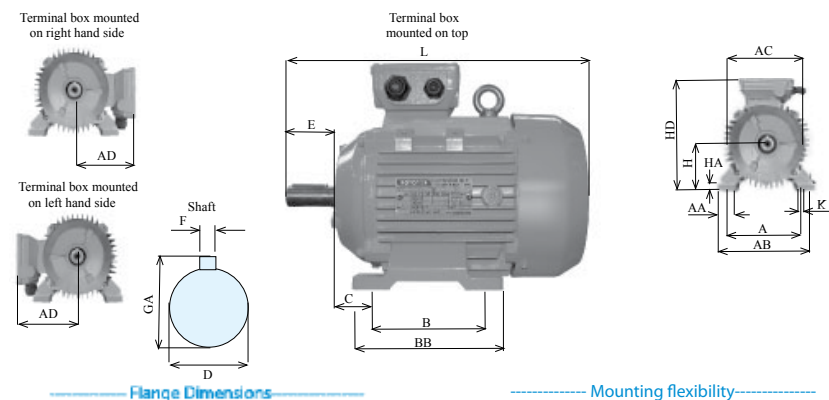
Ignition temperature of	Material min ignition energy (mJ)	Cloud (degree C)	Layer (degree C)
Aluminium	56	-20	465
Cellulose	-83	Gas	305
Corn	-33	Gas	651
Flax	80	12	498
Polypropylene	-1	Gas	287
Rayon	-192	Gas	609
Rice	-89	Gas	472
Rubber (Synthetic)	78	55	363
Sugar	-104	Gas	450
Wheat flour	98	-4	204

Hu Multi Mounted Motor Dimensions

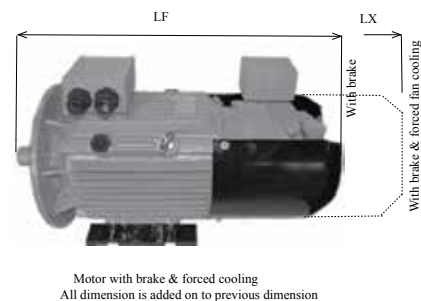
* Data for Ex e, Ex tD & Ex nA motors only

Frame	Pole	Feet								Base			Brake	Shaft					Flange B5						
H		B	A	HA	BB	AB	K	AA	AC	L	HD	LF	C	D	E	GA	F	LA	P	N	M	T	S		
63	A									203		252													
63	B	2-8	80	100	8	110	128	7	30	130	212	172	261	40	11	23	12.5	4	10	140	95	115	3	10	
63	X										221		270												
71	A										224		297												
71	B	2-8	90	112	8	120	142	7	30	145	234	190	307	45	14	30	16	5	10	160	110	130	3.5	10	
71	X										243		316												
80	A										279		358												
80	B	2-8	100	125	10	130	160	10	35	175	294	206	373	50	19	40	21.5	6	12	200	130	165	3.5	12	
80	X										302		381												
90	S	2-8	100			140	165	175	10	35	195	326	422	56	24	50	27	8	12	200	130	165	3.5	12	
90	LA		125	140	12						345		441												
100	LA	2-8	140	160	14	180	205	12	45	215	368	260	466	63	28	60	31	8	12	250	180	215	4	15	
100	LB										374		472												
112	M	2-8	140	190	15	180	235	12	45	240	397	285	492	70	28	60	31	8	14	250	180	215	4	15	
132	S	2-8	140			186					475		595	89	38	80	41	10	12	300	230	265	4	15	
132	M		178	216	18	224	264	12	55	275	513	345	633												
160	M	2-8	210		20	260		15	65	330	620		740	108	42	110	45	12	15	350	250	300	5	19	
160	L		254	254		304	314				664	405	784												
180	M	2-8	241		22	301					694		832	121	48	110	51.5	14	15	350	250	300	5	19	
180	L		279	279		339	350	15	70	380	745	455	883												
200	L	2-8	305	318	25	375	388	19	70	410	776	505	929	133	55	110	59	16	17	400	300	350	5	19	
225	S	4-8	286	356	28	374	435	19	79	460	810	555	977	149	60	140	64	18	20	450	350	400	5	19	
225	M	2									805		972		55	110	59	16							
225	M	4-8	311	356	28	400	435	19	79	460	835	555	1002	149	60	140	64	18	20	450	350	400	5	19	
250	M	2											1097		60		64								
250	M	4-8	349	406	30	445	486	24	82.5	510	922	615	1097	168	65	140	69	18		22	550	450	500	5	19
250	MB	4											1097		70		74.5	20							
280	S	2											1162	190	65	140	69	18							
280	S	4-8	368	457	35	470	542	24	91	580	977	680	1162		75		79.5	20	22	550	450	500	5	19	
280	M	2											1213		65		69	18							
280	M	4-8	419	457	35	521	542	24	91	580	1028	680	1213	190	75		79.5	20	22	550	450	500	5	19	
280	MB	4									1058		1243		80	170	85	22							
315	S	2											TBA		65	140	69	18							
315	S	4-8	406	508	45	570	630	28	120	645	1215	845	TBA	216	80	170	85	22	22	660	550	600	6	24	
315	M	2											TBA		65	140	69	18							
315	M	4-8	457	508	45	680	630	28	120	645	1325	845	TBA	216	80	170	85	22	22	660	550	600	6	24	
315	L	2											TBA		65	140	69	18							
315	L	4-8	508	508	45	680	630	28	120	645	1325	845	TBA	216	80	170	85	22	22	660	550	600	6	24	
315	LX	4-6	508	508	45	680	630	28	120	645	1390	845	TBA	216	85	170	85	22	22	660	550	600	6	24	
355	M	2									1495		TBA		75	140	79.5	20							
355	M	4-8	560	610	52	760	730	28	116	710	1525	1010	TBA	254	95	170	100	25	25	800	680	740	6	24	
355	L	2									1495		TBA		75	140	79.5	20							
355	L	4-8	630	610	52	760	730	28	116	710	1525	1010	TBA	254	95	170	100	25	25	800	680	740	6	24	

Hu Multi Mounted Motor Dimensions



----- Electric Motor Brake Dimensions -----



Frame	Pole	Flange B14 B (B5R)						Flange B14 A (B24)					
H		P	N	M	T	S	P	N	M	T	S		
63 A	B-8	120	80	100	3	M6	80	60	75	2.5	M5		
63 X													
71 A													
71 B	B-8	140	95	115	3.5	M8	105	70	85	3	M6		
71 X													
80 A													
80 B	B-8	160	110	130	3.5	M8	120	80	100	3	M6		
80 X													
90 S													
90 L	B-8	160	110	130	3.5	M8	140	95	115	3	M8		
100 LA													
100 LB													
112 M	B-8	200	130	165	3.5	M10	160	110	130	3.5	M8		
132 S													
132 M													
160 M	B-8	300	230	265	5	M12							
160 L													

Hu Multi Mounted Motor Selection Table

* Data for Ex e, Ex tD & Ex nA motors only

2 Pole Asynchronous Speed 3000 rpm							Rototech 3 Phase Motor IE34-1 AS1359 400Volt +/- 10 %, 50 Hz IP66, Ins C.I.F, Serv S1, MEPS 2				
Type		Power (KW)	Shaft Size (mm)	Speed (rpm)	Efficiency B2	Power Factor (Cos)	Current (A)		Torque (N.m)		Weight (Kg)
							Full Load	Locked Rotor	Full Load	Pull Up	
63	A 2	0.18	11	2720	66.5	0.8	0.5	2.75	0.63	1.38	4.5
	B 2	0.25	11	2720	68.9	0.81	0.66	3.63	0.88	1.93	4.7
71	A 2	0.37	14	2740	71	0.81	0.94	5.73	1.3	2.99	5.5
	B 2	0.55	14	2740	75.1	0.82	1.33	8.11	1.9	4.37	6.5
80	A 2	0.75	19	2840	80.5	0.83	1.85	11.29	2.53	2.99	11
	B 2	1.1	19	2840	82.2	0.84	2.46	17.22	3.72	8.55	12
90	S 2	1.5	24	2840	84.1	0.84	3.31	23.17	5	11.50	20
	L 2	2.2	24	2840	85.6	0.85	4.63	32.41	7.4	17.02	23
100	L 2	3	28	2860	86.7	0.87	6.09	45.67	9.95	22.88	29
112	M 2	4	28	2900	87.6	0.88	7.7	57.75	13.2	30.36	36
132	SA 2	5.5	38	2900	88.52	0.88	10.02	75.15	18	41.40	68
	SB 2	7.5	38	2900	89.5	0.88	14.35	107.63	24.7	56.81	74
	MP 2	11	38	2930	90.61	0.89	20.49	153.67	35.8	82.34	131
160	MA 2	11	42	2930	90.61	0.89	20.49	153.67	35.8	82.34	131
	MB 2	15	42	2930	91.32	0.89	27.66	207.45	48.9	112.47	139
	L 2	18.5	42	2930	91.8	0.9	33.38	250.35	60.3	138.69	168
180	M 2	22	48	2940	92.2	0.9	39.52	296.40	71.4	164.22	194
	LB 2	30	48	2940	92.91	0.9	53.25	399.38	97.1	223.33	283
200	LA 2	30	55	2950	92.91	0.9	53.25	399.38	97.1	223.33	283
	LB 2	37	55	2950	93.3	0.9	65.31	489.83	119.8	275.54	300
225	M 2	45	55	2960	93.7	0.9	78.94	592.05	144.7	332.81	336
250	M 2	55	60	2965	94.02	0.9	95.89	719.17	175.8	404.34	443
280	S 2	75	65	2970	94.61	0.9	128.34	962.55	241.1	554.53	598
	M 2	90	65	2970	94.8	0.91	153.61	1152.08	289.3	665.39	682
315	S 2	110	65	2975	95.1	0.91	185.74	1318.75	353	776.60	1018
	M 2	132	65	2975	95.42	0.91	221.83	1574.99	423.6	931.92	1144
	L1-2	160	65	2975	95.51	0.92	265.72	1886.61	513.6	1129.92	1243
	L2-2	200	65	2975	94.8	0.92	331	2350.10	641	1410.20	1215
355	M 2	250	75	2980	95.3	0.92	453	3216.30	800	1760.00	1705
	L 2	315	75	2980	95.6	0.92	566	4018.60	1007	2215.40	1850

Hu Multi Mounted Motor Selection Table

* Data for Ex e, Ex tD & Ex nA motors only

4 Pole Asynchronous Speed 1400 rpm							Rototech 3 Phase Motor IE34-1 AS1359 400 Volt +/- 10 %, 50 Hz IP66, Ins C.I.F, Serv S1, MEPS-2				
Type		Power (KW)	Shaft Size (mm)	Speed (rpm)	Efficiency B2	Power Factor (Cos)	Current (A)		Torque (N.m)		Weight (Kg)
							Full Load	Locked Rotor	Full Load	Pull Up	
63	A 4	0.12	11	1310	0.72	0.72	0.43	1.89	0.87	1.91	4.5
	B 4	0.18	11	1310	0.73	0.73	0.59	2.60	1.31	2.88	4.7
71	A 4	0.25	14	1330	0.74	0.74	0.75	3.90	1.8	3.96	5.5
	B 4	0.37	14	1330	0.75	0.75	1.07	5.56	2.66	5.85	6.5
80	A 4	0.55	19	1390	0.75	0.75	1.5	7.80	3.78	8.69	10
	B 4	0.75	19	1390	0.76	0.76	1.89	11.34	5.15	11.84	13
90	S 4	1.1	24	1390	0.77	0.77	2.82	16.92	7.6	17.48	20
	L 4	1.5	24	1390	0.79	0.79	3.48	20.88	10.3	23.69	23
100	LA 4	2.2	28	1410	0.81	0.81	4.85	33.95	14.8	34.04	24
	LB 4	3	28	1410	0.82	0.82	6.45	45.15	20.2	46.46	33
112	M 4	4	28	1435	0.82	0.82	8.32	58.24	26.5	69.82	41
132	S 4	5.5	38	1440	0.83	0.83	11.23	78.61	36.5	83.95	72
	M 4	7.5	38	1440	0.84	0.84	14.87	104.09	49.74	114.40	87
	MQ4	11	38	1460	0.84	0.84	21.32	149.24	71.9	165.37	139
160	M 4	11	42	1460	0.84	0.84	21.32	149.24	71.9	165.37	139
	L 4	15	42	1460	0.85	0.85	28.81	216.07	98.1	225.63	163
180	M 4	18.5	48	1470	0.86	0.86	34.63	259.73	120.1	276.23	188
	L 4	22	48	1470	0.86	0.86	45.16	338.70	142.9	328.67	219
	LB 4	30	48	1470	0.86	0.86	54.7	393.84	194.9	448.27	290
200	L 4	30	55	1470	0.86	0.86	54.7	393.84	194.9	448.27	290
225	S 4	37	60	1475	0.87	0.87	66.56	479.23	239.6	551.08	336
	M 4	45	60	1475	0.87	0.87	80.75	581.40	291.6	670.68	362
250	M 4	55	65	1480	0.87	0.87	98.8	711.36	354.8	816.04	462
	MB 4	75	70	1480	0.87	0.87	133.33	959.98	483.3	1111.59	508
280	S 4	75	75	1480	0.87	0.87	133.33	959.98	483.3	1111.59	508
	M 4	90	75	1480	0.87	0.87	160.06	1152.43	580.7	1335.61	734
	MB 4	110	80	1480	0.88	0.88	191.36	1282.11	709.3	1631.39	1029
315	S 4	110	80	1480	0.88	0.88	191.36	1320.38	709.3	1560.46	1029
	M 4	132	80	1480	0.88	0.88	228.8	1578.72	851	1872.20	1221
	L1-4	160	80	1480	0.89	0.89	269	1856.10	1031	2268.20	1282
	L2-4	200	80	1480	0.89	0.89	341.4	2355.66	1285	2827.00	1270
	L2-4	250	85	1480	0.9	0.9	422.3	2913.87	1605	3531.00	1310
	L3-4	280	85	1480	0.93	0.93	433	2987.70	1800	3960.00	2300
355	M 4	250	95	1490	0.9	0.9	428.5	2956.65	1605	3531.00	1710
	L 4	315	95	1490	0.9	0.9	524	3615.60	2026	4457.20	1902

Hu Multi Mounted Motor Selection Table

* Data for Ex e, Ex tD & Ex nA motors only

6 Pole Asynchronous Speed 900 rpm							Rototech 3 Phase Motor IE34-1 AS1359 400 Volt +/- 10 %, 50 Hz IP66 Ins C.I.F Serv S1, MEPS 2				
Type		Power (KW)	Shaft Size (mm)	Speed (rpm)	Efficiency B2	Power Factor (Cos)	Current (A)		Torque (N.m)		Weight (Kg)
							Full Load	Locked Rotor	Full Load	Pull Up	
63	B 6	0.12	11	840	56	0.65	0.51	2.04	1.2	2.40	5
71	A 6	0.18	14	850	58	0.66	0.71	2.84	1.9	3.80	6
	B 6	0.25	14	850	61	0.68	0.9	3.60	2.4	5.04	6.5
80	A 6	0.37	19	885	66.2	0.7	1.23	5.78	3.99	8.37	10
	B 6	0.55	19	885	65.9	0.72	1.7	7.99	5.99	12.57	12
90	S 6	0.75	24	910	77.7	0.72	2.08	11.44	7.9	16.59	19
	L 6	1.1	24	910	79.9	0.73	2.96	16.28	11.55	24.25	21
100	L 6	1.5	28	920	81.5	0.75	3.67	20.18	15.6	32.76	28
112	M 6	2.2	28	935	83.4	0.76	5.34	34.71	22.35	46.93	36
132	S 6	3	38	960	84.92	0.76	6.86	44.59	29.8	62.58	67
	MA6	4	38	960	86.1	0.76	9.05	59.73	39.8	83.58	79
	MB6	5.5	38	960	87.4	0.77	12.06	78.39	54.7	114.87	91
160	M 6	7.5	42	970	88.5	0.77	16.22	105.43	73.8	154.98	131
	L 6	11	42	970	89.82	0.78	23.19	150.74	108.3	227.43	163
180	L 6	15	48	970	90.72	0.81	31.3	219.10	148	310.80	204
200	LA 6	18.5	55	980	91.3	0.81	36.82	257.74	182.1	382.41	266
	LB 6	22	55	980	91.8	0.83	42.54	297.78	216.6	454.86	281
225	M 6	30	60	980	92.55	0.84	57.3	401.10	292.3	613.83	336
250	M 6	37	65	980	93.05	0.86	68.54	479.78	360.5	757.05	449
280	S 6	45	75	980	93.5	0.86	82.26	575.82	438.5	877.00	590
	M 6	55	75	980	93.9	0.86	100.57	703.99	535.9	1071.80	655
315	S 6	75	80	985	94.44	0.86	134.68	942.76	723.5	1447.00	968
	M 6	90	80	985	94.8	0.86	160.89	1077.96	873.5	1747.00	1089
	L 1-6	110	80	985	95.11	0.86	196.14	1314.14	1065	2130.00	1188
	L 2-6	132	80	985	95.41	0.87	234.52	1571.28	1272	2544.00	1298
	L 2-6	150	85	985	95.6	0.88	249	1668.30	1440	2880.00	1380
	L 3-6	185	85	985	95	0.9	310	2077.00	1775	3550.00	1400
355	M 1-6	160	95	990	95.61	0.88	276	1849.20	1542	3084.00	1620
	M 2-6	200	95	990	94.7	0.88	342.5	2294.75	1929	3858.00	1745
	L 2-6	250	95	990	94.9	0.88	418	2800.60	2409	4818.00	1940

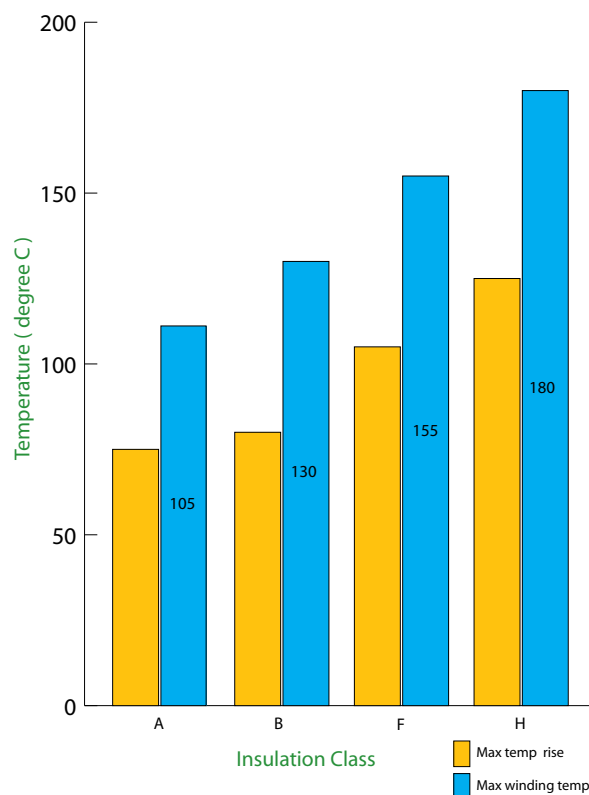
Hu Multi Mounted Motor Selection Table

* Data for Ex e, Ex tD & Ex nA motors only

8 Pole Asynchronous Speed 700 rpm							Rototech 3 Phase Motor IE34-1 AS1359 400 Volt +/- 10 %, 50 Hz IP66, Ins C.I.F, Serv S1, MEPS-2				
Type		Power (KW)	Shaft Size (mm)	Speed (rpm)	Efficiency B2	Power Factor (Cos)	Current (A)		Torque (N.m)		Weight (Kg)
							Full Load	Locked Rotor	Full Load	Pull Up	
63	B 8	0.06	11	640	42	0.5	0.44	1.76	0.9	1.80	5
71	A 8	0.09	14	660	44	0.55	0.57	2.28	1.3	2.60	6
	B 8	0.12	14	660	49	0.55	0.67	2.68	1.6	3.20	6.5
80	A 8	0.18	19	645	58.6	0.61	0.84	2.77	2.5	5.00	11
	B 8	0.25	19	645	60.5	0.61	1.1	3.63	3.4	6.80	12
90	S 8	0.37	24	670	64.9	0.61	1.42	5.68	5.27	10.54	17
	L 8	0.55	24	670	68.7	0.61	2.06	8.24	7.84	15.68	19
100	LA 8	0.75	28	680	73.5	0.67	2.43	9.72	10.54	21.08	28
	LB 8	1.1	28	680	76.3	0.69	3.33	19.98	15.4	30.80	29
112	M 8	1.5	28	690	78.4	0.69	4.33	25.98	20.78	41.56	36
	S 8	2.2	38	690	80.9	0.69	5.62	33.72	29.8	59.60	72
132	M 8	3	38	705	82.7	0.71	7.28	43.68	40.64	81.28	85
	MA8	4	42	720	84.22	0.73	9.46	56.76	53.1	106.20	118
160	MB8	5.5	42	720	85.8	0.74	12.69	76.14	72.9	145.80	131
	L 8	7.5	42	720	87.24	0.75	16.85	101.10	99.5	199.00	156
180	L 8	11	48	730	88.8	0.76	23.92	157.87	143.9	287.80	204
200	L 8	15	55	730	90.05	0.76	32.45	214.17	196.2	392.40	243
225	S 8	18.5	60	730	90.72	0.76	39.31	259.45	242	484.00	306
	M 8	22	60	730	91.2	0.78	45.34	299.24	287.8	575.60	332
250	M 8	30	65	735	92.1	0.79	60.74	400.88	392.4	784.80	449
	S 8	37	75	735	92.72	0.79	74.46	491.44	477.5	955.00	590
280	M 8	45	75	735	93.25	0.79	89.86	593.08	580.7	1161.40	655
315	S 8	55	80	735	93.7	0.81	108.06	713.20	712	1424.00	935
	M 8	75	80	735	94.4	0.81	143.83	949.28	969	1938.00	1139
	L1-8	90	80	735	94.72	0.82	170.77	1127.08	1163	2326.00	1210
	L2-8	110	80	735	95.1	0.82	206.65	1322.56	1422	2844.00	1353
355	M1-8	132	95	740	95.41	0.82	238.4	1525.76	1697	3394.00	1716
	M2-8	160	95	740	95.7	0.82	292	1868.80	2058	4116.00	1832
	L 8	200	95	740	95.73	0.83	351	2246.40	2570	5140.00	1920

Insulation Characteristics

- Low operating temperature
- Minimum losses
- High grade and quality insulation
- Fully tested



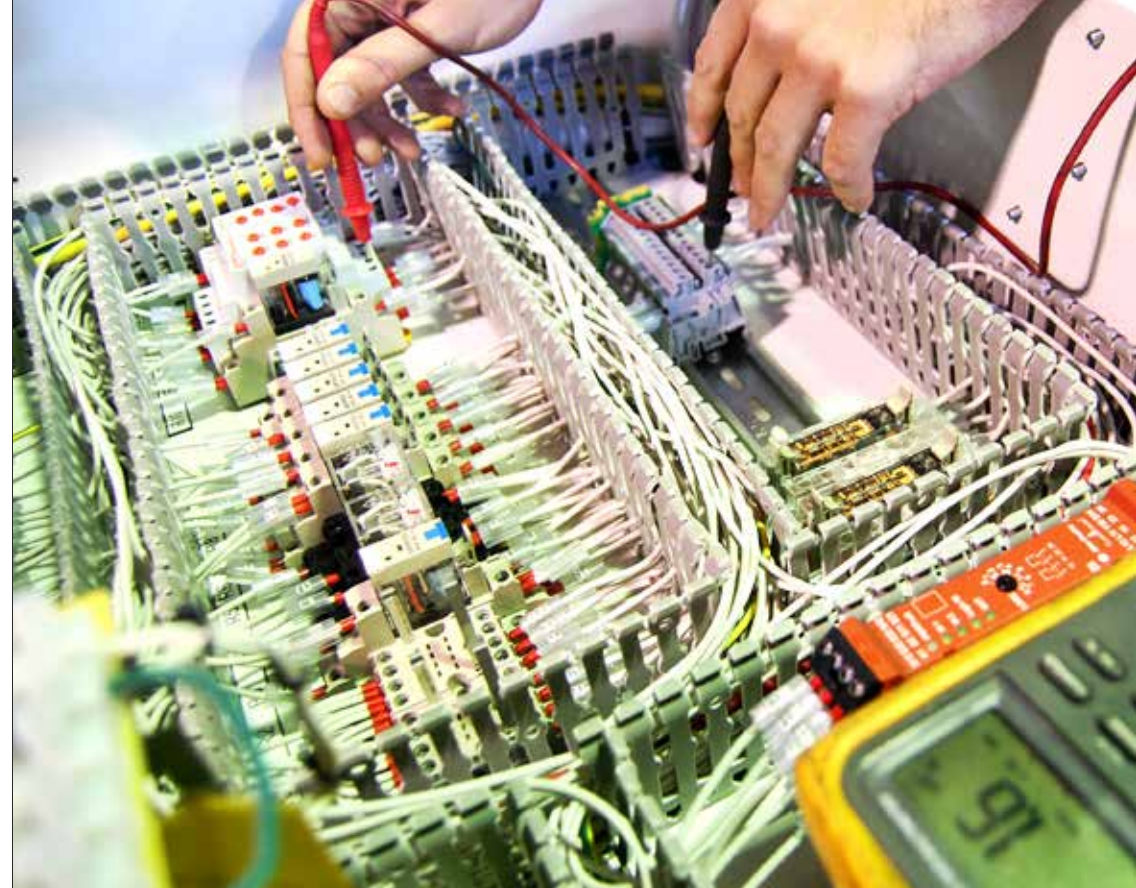
High grade & quality insulation

The graph above indicates the limits of winding temperature and temperature rise for various insulation classes in accordance with AS1359.101 Items 1b) & 1d) AC motors

Safety Margin = Insulation Class Rating - Temperature Rise

Benefit

- Rototech & Pope motors have a **HUGE** safety margin
- Extended electric motor life span due to **high thermal reserve**



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