Outline Dimension

IMB3

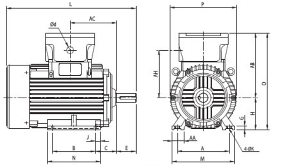


FIG. 1

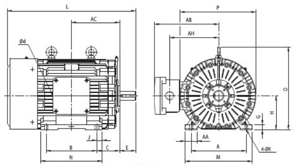
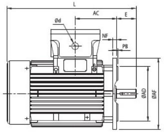
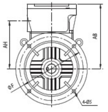


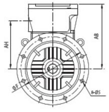
FIG. 2

IMB5

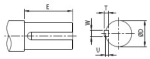




71M...180L
(FF130...FF300)



200L...250M
(FF400...FF500)



[SHAFT EXTENTION]

Specification

FRAME NO.	FLANGE NO.	OUTPUT(KW)				DIMEN SIONS(mm)																												중량 (Kg)	Fig.
		2P	4P	6P	8P	A	B	C	ØD	E	W	U	T	G	H	J	ØK	M	N	AA	AB	AC	AH	O	P	ØAD	ØF	ØAF	NF	PB	ØS	L	d		
71M	FF130	0.4	0.2/0.4	-	-	112	90	45	Ø14j6	30	5	3	5	7	71	9	Ø7	135	140	30	163		110	234	156	110j6	130	160	10	3.5	10	293	1*M25	22	1
80M	FF165	0.75	0.75	0.4	-	125	100	50	Ø19j6	40	6	3.5	6	9	80	10.5	Ø10	150	150	35	260	125	123	253	176	130j6	165	200	10	3.5	12	332	1*M25	25	
90L	FF165	1.5 / 2.2	1.5	0.75	0.4	140	125	56	Ø24j6	50	8	4	7	9	90	10	Ø10	170	180	35	265	129.	133	273	196	130j6	165	200	10	3.5	12	392	1*M25	35	
100L	FF215	-	2.2	1.5	0.75	160	140	63	Ø28j6	60	8	4	7	11	100	11	Ø12	200	185	45	280	5	152	302	223	180j6	215	250	10	4	15	429	1*M25	45	
112M	FF215	3.7	2.2/3.7	2.2	1.5	190	140	70	Ø28j6	60	8	4	7	13	112	11	Ø12	226	192	40	288	150	169	331	242	180j6	215	250	10	4	15	444	1*M25	65	
132S	FF265	5.5 / 7.5	5.5	3.7	2.2	216	140	89	Ø38k6	80	10	5	8	15	132	22	Ø12	260	184	50	338	148	198	401	178	230j6	265	300	17	4	15	499	2*M32	85	
132M	FF265	-	7.5	5.5	3.7	216	178	89	Ø38k6	80	10	5	8	15	132	22	Ø12	260	222	50	338	143	198	401	278	230j6	265	300	17	4	15	539	2*M32	95	
160M	FF300	11 / 15	11	7.5	5.5	254	210	108	Ø42k6	110	12	5	8	20	160	20	Ø15	300	250	55	370	174	220	451	320	250j6	300	350	18	5	19	635	2*M32	140	
160L	FF300	18.5	15	11	7.5	254	254	108	Ø42k6	110	12	5	8	20	160	20	Ø15	300	294	55	370	174	220	451	320	250j6	300	350	18	5	19	675	2*M32	160	
180M	FF300	22	18.5 / 22	15	11	279	241	121	Ø48k6	110	14	5.5	9	23	180	19.5	Ø15	320	280	60	385	194	245	503	366	250j6	300	350	16	5	19	723	2*M40	200	
180L	FF300	30.0	30.0	18.5 / 22	15	279	279	121	Ø55m6	110	16	6	10	23	180	19.5	Ø15	320	318	60	385	194	245	503	366	250j6	300	350	16	5	19	758	2*M40	220	
200L	FF400	30 / 37	-	-	-	318	305	133	Ø55m6	110	16	6	10	29	200	-	Ø19	400	365	83	365	229	287	565	419	350	400	450	18	5	18	880	2*M40	310	
		-	30 / 37	30	18.5 / 22	318	305	133	Ø60m6	140	18	7	11	29	200	-	Ø19	400	365	83	365	229	287	565	419	350	400	450	18	5	18	910	2*M40	310	
225S	FF400	45 / 55	-	-	-	356	286	149	Ø55m6	110	14	5.5	9	32	225	-	Ø19	432	362	79	375	219	297	600	454	350	400	450	20	5	18	850	2*M40	390	
		-	45 / 55	37 / 45	30	356	286	149	Ø60m6	140	18	7	11	32	225	-	Ø19	432	362	79	375	519	297	600	454	350	400	450	20	5	18	880	2*M40	390	
250S	FF500	75	-	-	-	406	311	168	Ø60m6	110	16	6	10	30	250	-	Ø24	485	415	87.5	408	239	297	660	454	450	500	550	20	5	18	935	2*M40	450	
		-	75	55	37	406	311	168	Ø75m6	140	20	7.5	12	30	250	-	Ø24	485	415	87.5	408	239	297	660	454	450	500	550	20	5	18	965	2*M40	450	
250M	FF500	90	-	-	-	406	349	168	Ø60m6	110	16	6	10	30	250	-	Ø24	485	460	87.5	408	239	297	660	454	450	500	550	20	5	18	995	2*M40	495	
		-	90	75	45	406	349	168	Ø75m6	140	20	7.5	12	30	250	-	Ø24	485	460	87.5	408	239	297	660	454	450	500	550	20	5	18	1025	2*M40	495	
280M	-	110 / 132	-	-	-	457	368/419	190	Ø55m6	110	16	6	10	42	280	-	Ø24	557	510	100	535	400	405	690	-	-	-	-	-	-	-	1045	2*M63	1100	2
		-	110 / 132	110	75	457	368/419	190	Ø85m6	170	22	9	14	42	280	-	Ø24	557	510	100	535	400	405	690	-	-	-	-	-	-	-	1110	2*M63	1150	
315M	-	-	150 / 160	132	90	508	457	216	Ø95m6	170	25	9	14	45	315	-	Ø28	628	558	120	575	445	435	750	-	-	-	-	-	-	-	1205	2*M63	1600	
355L	-	-	260	200		610	630	254	Ø100m6	210	28	10	16	45	355	-	Ø28	710	770	110	720	445	565	875	-	-	-	-	-	-	-	1520	2*M63	2100	

* 단시간 정격의 모터를 주문 하실 경우는 치수가 변경될 수 있사오니 영업팀에 문의하여 주십시오.

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- **Seoul office** 2F, Korea Association of Machinery industry Bldg, 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul, Republic of Korea
  TEL: 82-2-369-8216~9 / FAX: 82-2-369-8229
- **Busan office** 4F #413 Bosaeng Bldg. 257, Hakgam-daero, Sasang-gu, Busan, Republic of Korea
  TEL: 82-51-710-5030~3 / FAX: 82-51-710-5034
- **Daegu Office** #407, 4F Korea Institute for Robot Industry Advancement (KIRIA) Nowon-ro 77, Buk-gu, Daegu, Republic of Korea
  TEL: 82-53-351-7745 / FAX: 82-53-351-7746
- **Gwangju office** #1043 Landpia 114, Sangmujungang-ro, Seo-gu, Gwangju, Republic of Korea
  TEL: 82-62-385-3020 / FAX: 82-62-385-3021
- **Headquarters and factories** 57, Gongdan-ro 473beon-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea
  TEL: 82-70-7710-3081~91
  FAX: 82-55-600-3317
- **S V C** the Seoul-Inchon area
  TEL: 82-32-571-2453
  The provinces
  TEL: 82-70-7710-3310
- HOMEPAGE : http://www.higenmotor.com
- Key telephone number : 82-70-7703-3000
- Key E-mail : sales@higenmotor.com

50 Years
HIGEN MOTOR

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내압 방폭형 전동기

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POWER MOTOR

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내압 방폭 관련 기호의 의미

Meaning of Explosion–Proof Motor Symbol

Identification Code
0575 is the identification number of DNV responsible for the approval
DNV의 식별번호

MOTOR GROUPING
Motors and other electrical apparatus are divided into two groups - Group for mines and Group II for surface industry explosive atmospheres. Group II has three sub-divisions, A, B and C, according to the level of risk, Group IIC is the most stringent rating
Group I : 광산용
Group II : 1)일반 산업용 2)Risk Level(IIA<IIB<IIC)

CE marking
(CE 마크)

CE 0575 Ⓔx II 2 G Ex d IIB T4

The European Commission mark for Ex products
방폭 제품에 대한 유럽 위원회 마크

G indicates that the marking relates to gas.
D would indicate that the marking related to dust.
G : gas와 관련됨, D : 분진과 관련됨

Explosion Protection : Flameproof Ex d
No internal explosion can be spread to the surrounding explosive atmosphere. (내부 폭발이 외부로 전파되어서는 안됨.)

Equipment Category
I for Zone 0 or 20;
II for Zone 1 or 21;
III for Zone 2 or 22.

Permanent presence of explosive atmosphere. Only specially designed electric motors can be used here.
Zone 1 and Zone 21;
Incidental presence of explosive atmosphere during normal duty.
Zone 2 and Zone 22;
Presence of explosive atmosphere only by accident, but not during normal duty.

I : 폭발 gas가 상존 II : 정상 작동시 폭발 gas가 부수적으로 발생할 수 있음.
III : 정상 작동이 아닌, 사고등으로 폭발 gas가 우연히 발생할 수 있음.

TEMPERATURE CONTROLS
There are six temperature classes according to the maximum surface temperature of the motor
TEMPERATURE CLASS
(모터의 최대 표면 온도 분류)

T1	T2	T3	T4	T5	T6
450	300	200	135	100	85

TEMPERATURE LIMIT( )

폭발성가스의 폭발 등급 및 발화도

(Classification of Gases and Vapours into Explosion Groups and Temperature Classes)

	T1(G1)	T2(G2)	T3(G3)	T4(G4)	T5(G5)	T6(G6)
II B	Town gas Coal gas (lighting gas)	Ethylene Ethylene oxide	Ethylene Ethylene oxide	Ethyl ether		
II C	Hydrogen	Ethine (acetylene)				Carbon disulphide

HIGEN Specification


71M ~ 250M

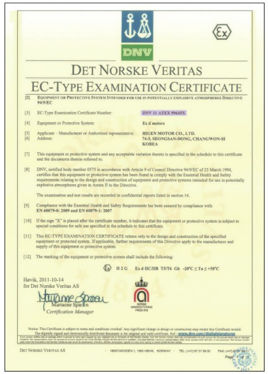

280M ~ 315M


355L

사 양 (Specification)	항 목 (Items)
구조의 설명 (Structure Explanation)	전동기 내부로 스며든 폭발성 가스에 의해 비정상적으로 내부폭발이 일어날 경우 전동기가 폭발압력에 견디고, 또한 외부의 폭발성 Gas로 불꽃의 전파를 방지하도록 한 방폭구조. * 내부에서 폭발할 경우 그 압력에 견뎌야 함. * 폭발 화염이 외부로 전파되지 않아야 함. * 폭발시 전동기의 표면온도가 주변의 가연성 가스에 점화되지 않아야 함. The motor shall be built in an explosion–proof structure to withstand the explosion pressure and to prevent the flame to spread out to flammable gas outside the frame when any abnormal internal explosion incurred by any explosive gas permeated inside the frame. * Should withstand any pressure developed by internal exploision * Explosion flames should not spread outside of the frame. * The surface temperature of motor should be lower to prevent any ignition of the ambient flammable gas.
그룹기호 (Group Symbol)	Ex d
방폭기호 (Explosion–Proof Symbol)	IIB, IIC
최고표면온도 (Max. Surface Temp.)	T4/T5/T6
외피 및 취부구조 (Housing Structure)	전폐형(TEFC, TEAO, TENV), 수평(B3),수직(B5,V1), B3B5 등
주변조건 (Surrounding Condition)	주위온도 (Ambient temp.) : –20~50℃ / 습도 (Humidity) 80% (↓) 이하
사용위험장소 (Application Danger Place)	1종 장소 (Zone 1), 2종 장소 (Zone 2)
보호등급 (Protection Degree)	IP55, 56, 65 & 66

Certificate


ATTESTATION D'EXAMEN CE DE TYPE
EC TYPE EXAMINATION CERTIFICATE


DNV
DET NORSKE VERITAS
EC-TYPE EXAMINATION CERTIFICATE