



제 2012 - 16568 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소재지) (425-833)경기도 안산시 성곡동 630-2 반월공단 B-607-14

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

_____ 품 목 _____
호이스트

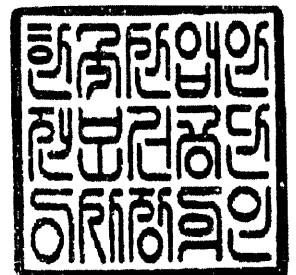
_____ 형식,모델(용량,등급)/인증번호 _____
KDC3-M (3.0Ton) /12-AQ2AC-01642

_____ 인 증 기 준 _____
고용노동부 고시 제2011 - 39호 (위험기계,기구 의무안전인증 고시)

_____ 인 증 조 건 _____

2012년 05월 08일

한국산업안전보건공단이사장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(425 - 833) 경기도 안산시 성곡동 630-2 반월공단 B-607-14		

안전인증대상 기계·기구명

호이스트

형식(규격)	KDC3-M (123MN30C041)	용량(등급)	3.0 Ton
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산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☐ 서면심사

☐ 기술능력 및 생산체계 심사

☐ 개별 제품심사

☐ 개별 제품심사(제작중)

☒ 형식별 제품심사

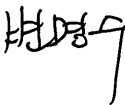
결과가 ☒ 적 합
☐ 부적합

함을 통지합니다.

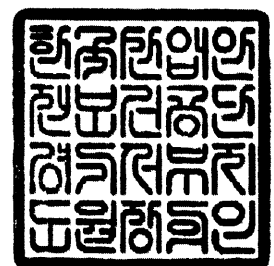
2012년 05월 08일

인증심사원

변명수

 (서명 또는 인)

한국산업안전보건공단 경기서부지도원장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		
안전인증대상 기계·기구명				
			호이스트	
형식(규격)		KDC3-M	용량(등급)	3.0 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

[] 예비심사

[√] 서면심사

[] 기술능력 및 생산처계 심사

[] 개별 제품심사

[] 개별 제품심사(제작중)

[] 형식별 제품심사

결과가 [√] 적 합
[] 부적합

함을 통지합니다.

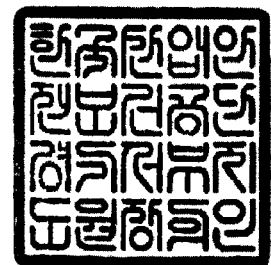
2011년 11월 02일

인증심사원

조성준 변명수

조성준 인

한국산업안전보건공단 경기서부지도원장



서 면 심 사 서 류

형식 번호 : KDC3 - M

극 동 호 이

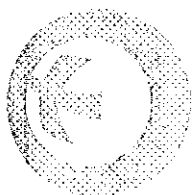


트 (주)

工場 : 경기도 안산시 단원구 성곡동 630-2 반월공단 607-14

電話 : 031) 491 - 5311

192.168.11.38 FAX : 031) 491-5311 2012-04-23 13:49:07



한국산업안전보건공단

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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

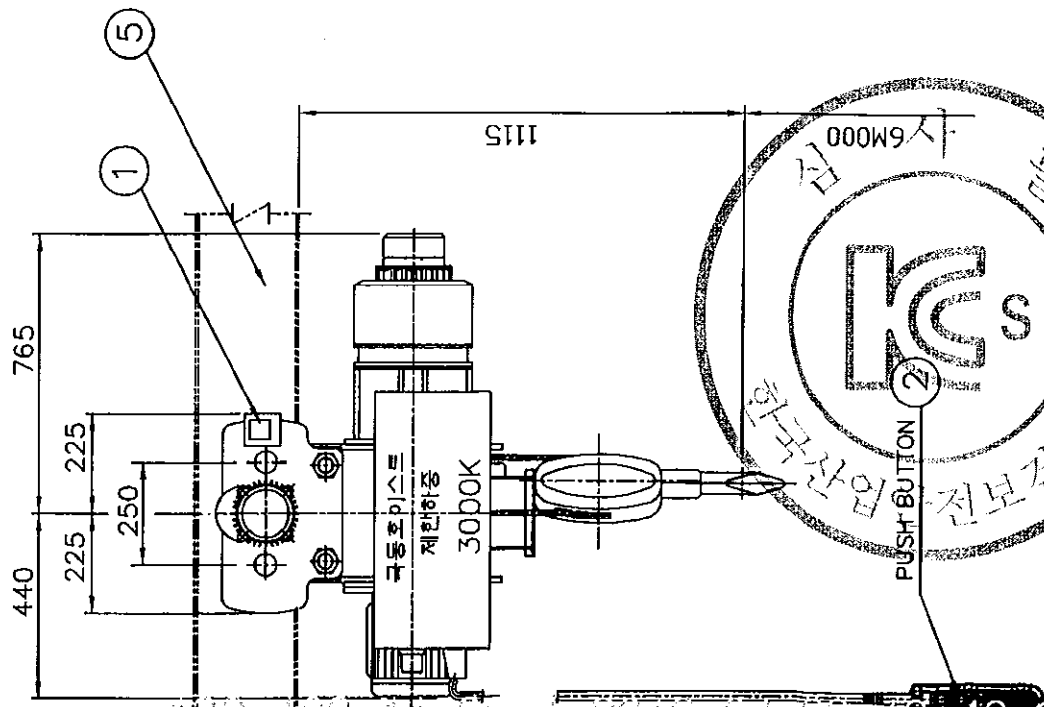
동일 형식 일람 표

사업장명	극동호이스트(株)	개정일자 및 번호		동일 형식 인정범위 및 내역		인정번호	비고
		형식 및 모델	모델	권상속도(m/min)	회행속도(m/min)	양정(m)	
형식	KDC3-M		KDC3-L6-M	고속:9.0M/MIN	고속:24M/MIN	6	모터구동식
			KDC3-L9-M		저속:16M/MIN	9	
			KDC3-L12-M			12	
			KDC30L18-M		듀얼고속:24/12M/MIN	18	
			KDC3-L24-M		듀얼저속:16/8M/MIN	24	
			KDC3-L30-M			30	



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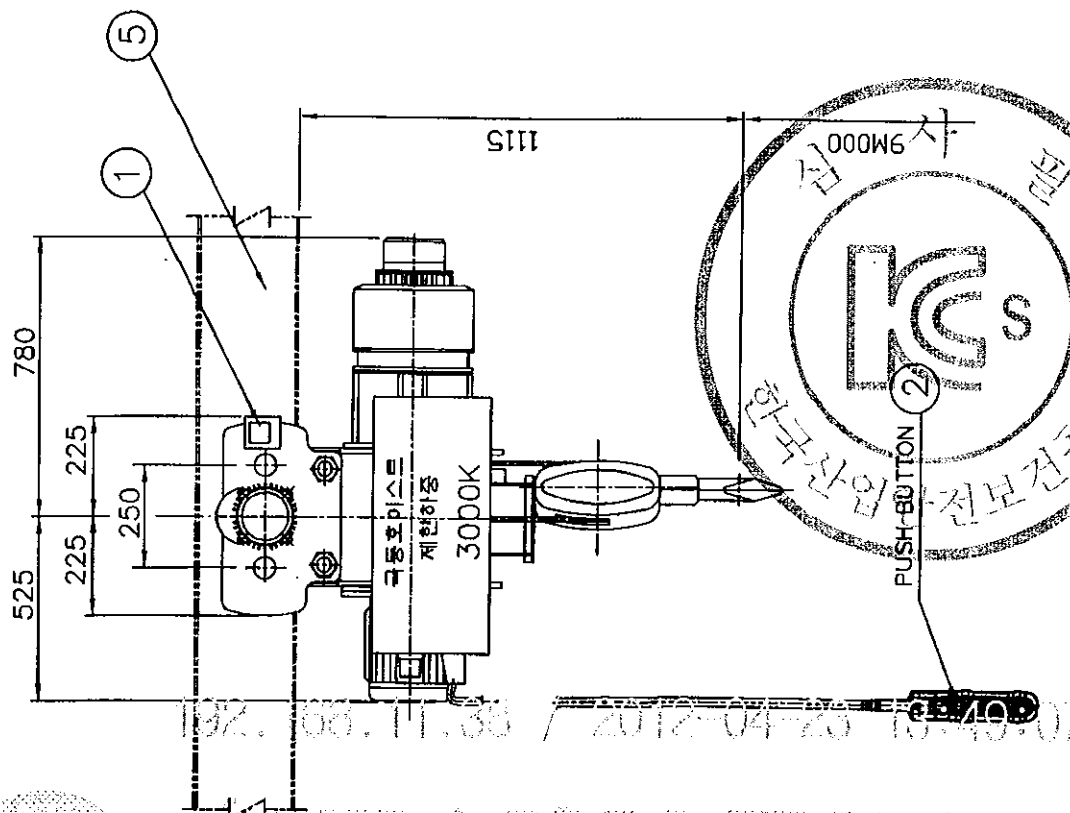
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5	I-BEAM	SS400					—			
4	UPPER LIMIT S/W	SS400					1			
3	SAFETY LATCH	SPC					1			
2	EMERGENCY S/W	—					1			
1	LOAD LIMITER	—					1			
NO.	DESCRIPTION	M/TL	SUB	TOTAL	QTY	SUB	TOTAL	WEIGHT(Kg)	REMARKS.	
PROJECT							DATE	DIM		
TITLE		KDC3-L6-M				SCALE		PROJECTION		
		ARRANGEMENT DRAWING FOR HOIST				A3/15		3rd		
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING						

TRAVELING / - BEAM	$A \times B \times t$	Z^x (Cm^+)	Z^x (Cm^+)	C
I 250 x 125 x 7.5		5180	414	450
I 300 x 150 x 10		12700	849	465
I 350 x 150 x 9		15200	871	465
I 400 x 150 x 10		24000	887	465



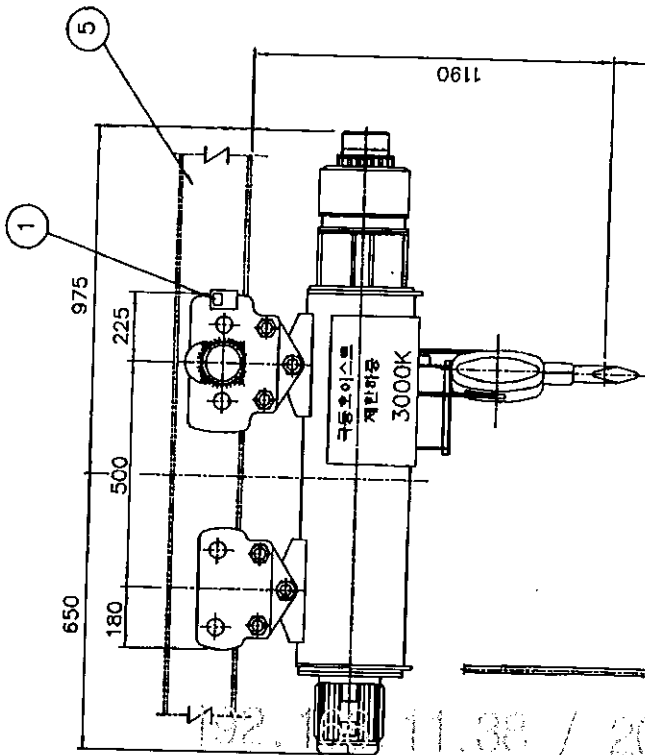
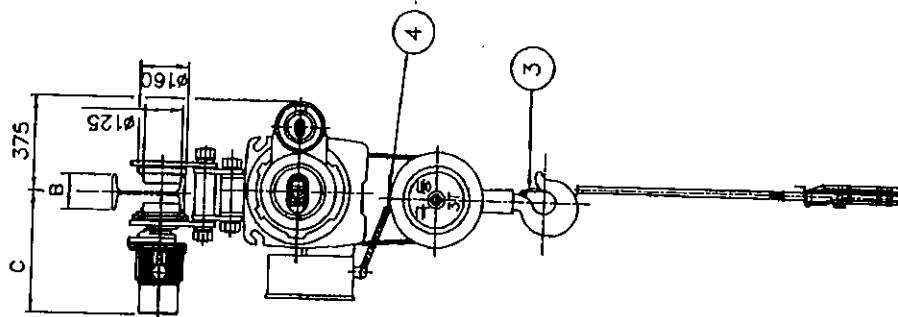


TRAVERSING / I - BEAM	I ₀		Z _x (Cm ³)	C
	A × B × t	(Cm ⁴)		
I 250 × 125 × 7.5		5180	414	450
I 300 × 150 × 10		12700	849	465
I 350 × 150 × 9		15200	871	465
I 400 × 150 × 10		24000	887	465

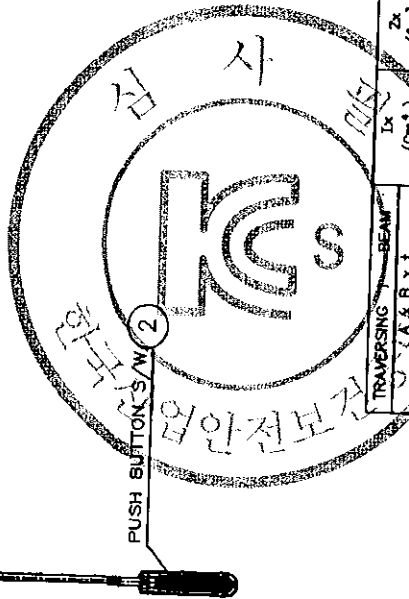


SPECIFICATION		
RATED LOAD		3,000 KG
TESTING LOAD		3,750 KG
LIFT		18 M
RATING		30 MIN
HOISTING	SPEED	9.0 / 0.9 M/MIN
	MOTOR	5.5 / 1.5 KW x 4 P
TRAVERSING	SPEED	HIGH 24 M/MIN
		LOW 16 M/MIN
	DUAL/LOW	24/12 M/MIN
		16/8 M/MIN
	MOTOR	0.75 KW x 4 P
		0.5 KW x 6 P
WIRE ROPE	DUAL/HIGH	0.8/0.4 KW x 4/8 P
	DUAL/LOW	0.5/0.25 KW x 6/12 P
POWER SOURCE	(6x37) ϕ 12.5 x 2 FALLS	
COLOR	AC3 ϕ 220V(380,440,460,480) 60Hz	
WEIGHT	10 B 3/5	
	590 KG	

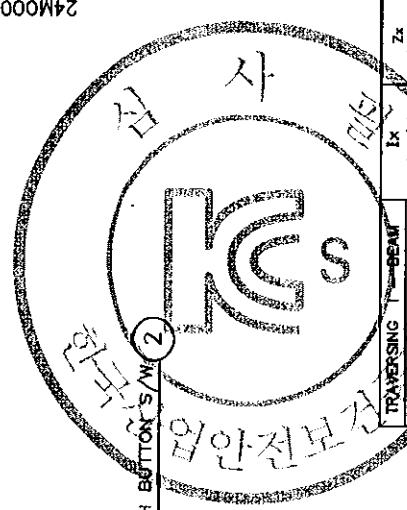
5	1-BEAM	SS400	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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TRAFERSING	1x ~ (cm ⁺)	Zx (cm ⁺)	c
I 230 × 125 × 7.5	5140	414	450
I 300 × 150 × 10	12700	849	465
I 350 × 150 × 9	15200	871	465
I 400 × 150 × 10	24000	887	465

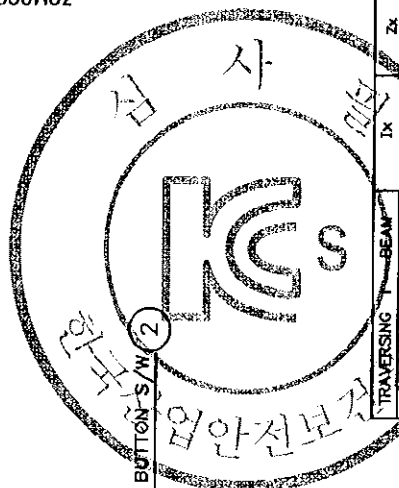


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SPECIFICATION		
RATED LOAD		3,000 KG
TESTING LOAD		3,750 KG
LIFT		24 M
RATING		30 MIN
HOISTING	SPEED	9.0 / 0.9 M/MIN
	MOTOR	5.5 / 1.5 KW x 4 P
TRAVERSING	HIGH	24 M/MIN
	LOW	16 M/MIN
	DUAL/HIGH	24/12 M/MIN
	DUAL/LOW	16/8 M/MIN
MOTOR	HIGH	(0.75 KW x 4 P) x 2UNIT
	LOW	(0.5 KW x 6 P) x 2UNIT
	DUAL/HIGH	(0.5/0.4 KW x 4/6 P) x 2UNIT
	DUAL/LOW	(0.5/0.25 KW x 6/12 P) x 2UNIT
WIRE ROPE	(6x37) ø12.5 x 2 FALLS	
POWER SOURCE	AC3φ 220V(380,440,460,480) 60Hz	
COLOR	10 B 3/5	
WEIGHT	640 KG	

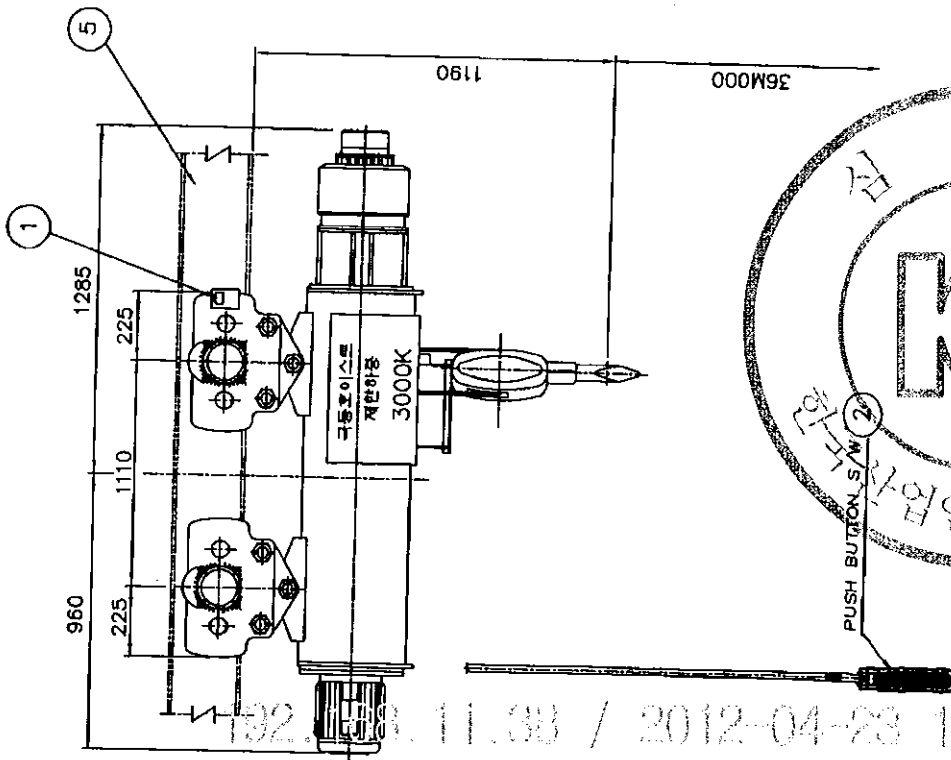
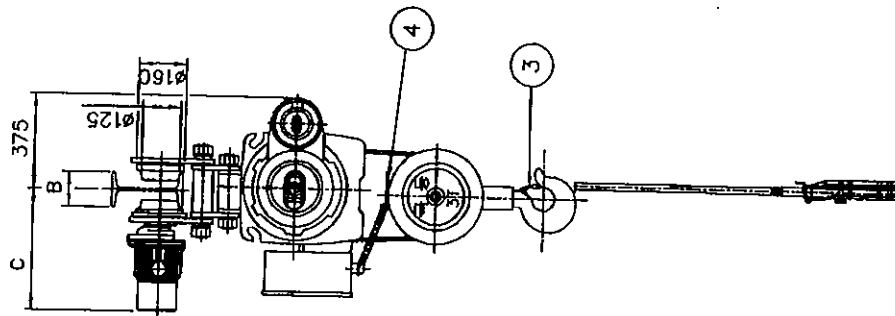
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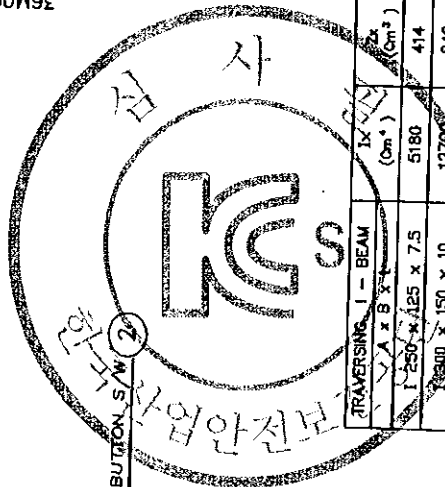
SPECIFICATION		
RATED LOAD	3,000	KG
TESTING LOAD	3,750	KG
LIFT	30	M
RATING	30	MIN
HOISTING	SPEED	9.0 / 0.9 M/MIN
	MOTOR	5.5 / 1.5 KW x 4 P
TRAVERSING	HIGH	24 M/MIN
	LOW	16 M/MIN
	DUAL/HIGH	24/12 M/MIN
	DUAL/LOW	16/8 M/MIN
	HIGH	(0.75 KW x 4 P) x 2UNIT
	LOW	(0.5 KW x 6 P) x 2UNIT
MOTOR	DUAL/HIGH	(0.8/0.4 KW x 4/3 P) x 2UNIT
	DUAL/LOW	(0.8/0.38 KW x 6/12 P) x 2UNIT
WIRE ROPE	(6x37) ø12.5 x 2 FALLS	
POWER SOURCE	AC3ø 220V(380,440,460,480) 50HZ	
COLOR	10 B 3/5	
WEIGHT	890 KG	

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SPECIFICATION		
RATED LOAD	3,000	KG
TESTING LOAD	3,750	KG
LIFT	36	M
RATING	30	MIN
HOISTING	SPEED	9.0 / 0.9 M/MIN
	MOTOR	5.5 / 1.5 KW x 4 P
TRAVERSING	HIGH	24 M/MIN
	LOW	16 M/MIN
	DUAL/HIGH	24/12 M/MIN
	DUAL/LOW	16/8 M/MIN
MOTOR	HIGH	(0.75 KW x 4 P) x 2UNIT
	LOW	(0.5 KW x 6 P) x 2UNIT
	DUAL/HIGH	(0.8/0.4 KW x 4/8 P) x 2UNIT
	DUAL/LOW	(0.5/0.25 KW x 6/12 P) x 2UNIT
WIRE ROPE	(6x37) ϕ 12.5 x 2 FALLS	
POWER SOURCE	AC3 ϕ 220V(380,440,460,480) 60HZ	
COLOR	10 B 3/5	
WEIGHT	750 KG	



TRAVERSING	1 - BEAM	1 - 2	α (m ⁻¹)	α (m ⁻¹)	c
$\sqrt{A \times B \times C}$					
	1 250 x 125 x 7.5		5180	414	450
	1 300 x 150 x 10		12700	849	465
	1 350 x 150 x 9		15200	871	465
	1 400 x 150 x 10		24000	887	465



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ELECTRICAL SPECIFICATION

POWER SOURCE : AC 3 Φ 220V, 380V, 440V, 460V, 480V 60Hz
CONTROL SOURCE : AC 1 Φ 110V(120V) 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440, 460, 480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	5.5KW x 4P 30 MIN	22.80 A	6.0 sq	12.20 A	6.0 sq	10.50 A	10.00 A	9.60 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	1.5KW x 4P 30 MIN	7.30 A	4.0 sq	4.20 A	4.0 sq	3.70 A	3.50 A	3.40 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	4.0 sq	2.40 A	4.0 sq	2.00 A	2.00 A	1.90 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	LOW	3.40 A	4.0 sq	2.00 A	4.0 sq	1.70 A	1.70 A	1.60 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	HIGH/LOW	4.80 A	4.0 sq	2.78 A	4.0 sq	2.40 A	2.30 A	2.30 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	0.5/0.25KWx6/12P 30MIN	3.20 A	4.0 sq	1.85 A	4.0 sq	1.80 A	1.78 A	1.76 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
CONTROL CIRCUIT		2 A	2.5 sq	2 A	2.5 sq	2 A	2 A	2 A	2.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL (PEAK LOAD)	HIGH	28.90 A	10.0 sq	16.60 A	6.0 sq	14.50 A	14.00 A	13.50 A	6.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (NORMAL LOAD)	LOW	28.20 A	10.0 sq	16.20 A	6.0 sq	14.20 A	13.70 A	13.20 A	6.0 sq	I(A)=M/H + T/S + ASS'Y	

*. 위 계산은 HIGH(MAX.) 일때와 LOW(MIN.) 일때만 계산한것임.

*. 위 계산은 LIFT 6,9,12,18M에 적용.

ELECTRICAL SPECIFICATION

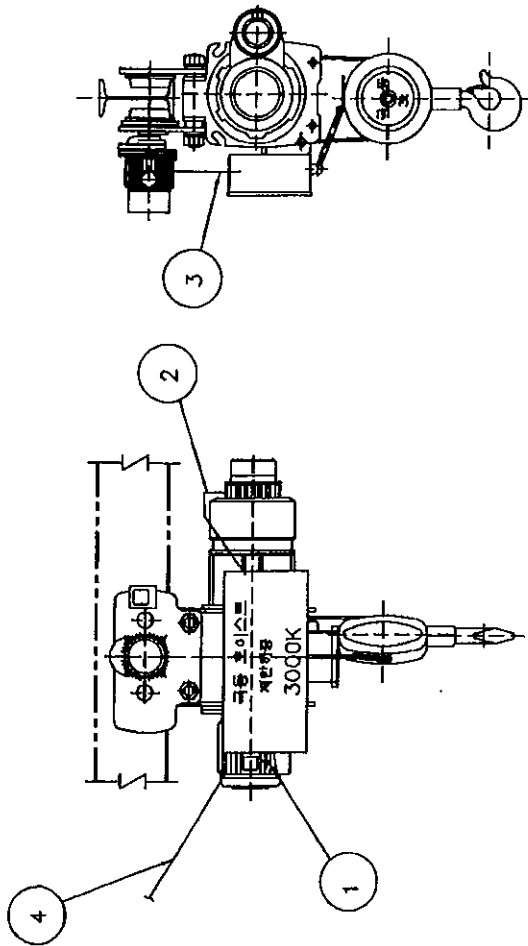
POWER SOURCE : AC 3 Φ 220V, 380V, 440V, 460V, 480V 60Hz

CONTROL SOURCE : AC 1 Φ 110V 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V		460V		480V		440, 460, 480V		BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	5.5KW x 4P 30 MIN	22.80 A	6.0 sq	12.20 A	6.0 sq	###	6.0 sq	10.00 A	6.0 sq	9.60 A	6.0 sq	6.0 sq	6.0 sq	DC MAG. BRAKE	
CREEP HOIST	1.5KW x 4P 30 MIN	7.30 A	4.0 sq	4.20 A	4.0 sq	3.70 A	4.0 sq	3.50 A	4.0 sq	3.40 A	4.0 sq	4.0 sq	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH 0.75KW x 4P 30 MIN	4.10 A	4.0 sq	2.40 A	4.0 sq	2.00 A	4.0 sq	2.00 A	4.0 sq	1.90 A	4.0 sq	4.0 sq	4.0 sq	DC MAG. BRAKE	2 DRIVE
	LOW 0.5KW x 6P 30 MIN	3.40 A	4.0 sq	2.00 A	4.0 sq	1.70 A	4.0 sq	1.70 A	4.0 sq	1.60 A	4.0 sq	4.0 sq	4.0 sq	DC MAG. BRAKE	2 DRIVE
	HIGH/LOW 0.8/0.4KWx4/8P 30 MIN	4.80 A	4.0 sq	2.78 A	4.0 sq	2.40 A	4.0 sq	2.30 A	4.0 sq	2.30 A	4.0 sq	4.0 sq	4.0 sq	DC MAG. BRAKE	2 DRIVE
	HIGH/LOW 0.5/0.25KWx6/12P 30 MIN	3.20 A	4.0 sq	1.85 A	4.0 sq	1.80 A	4.0 sq	1.78 A	4.0 sq	1.76 A	4.0 sq	4.0 sq	4.0 sq	DC MAG. BRAKE	2 DRIVE
CONTROL CIRCUIT		2 A	2.5 sq	2 A	2.5 sq	2 A	2.5 sq	2 A	2.5 sq	2 A	2.5 sq	2.5 sq	2.5 sq		
LIGHTING & ACCY CIRCUIT															
SUB TOTAL (NORMAL LOAD)		31.60 A	10.0 sq	18.20 A	6.0 sq	15.9 A	6.0 sq	15.40 A	6.0 sq	14.80 A	6.0 sq	6.0 sq	6.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (PEAK LOAD)		33.00 A	10.0 sq	19.00 A	6.0 sq	16.5 A	6.0 sq	16.00 A	6.0 sq	15.40 A	6.0 sq	6.0 sq	6.0 sq	I(A)=M/H + T/S + ASS'Y	

*. 위 계산은 HIGH(MAX.) 일때와 LOW(MIN.) 일때만 계산한것임.

*. 위 계산은 LIFT 24,30M에 적용. 공단



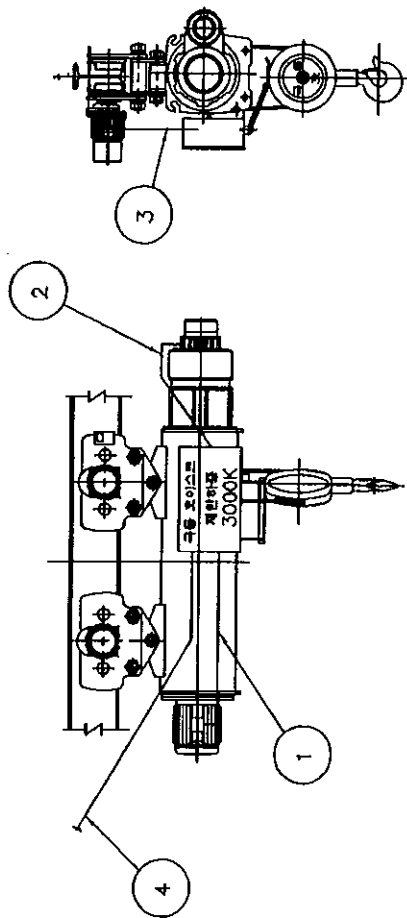
*3종 전자공사 100Ω 이하 (AC 3PH 100V 미만)

2. 보호본당회보에는 개폐기, 개전류보호장치가 부락되지 않아야 한다.

시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

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* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz (LIFT 24,30,36M)



본 도면은 EARTH를 명기하기 위한 도면으로서
실제 배치와 다를 수 있으며 HOIST 본체와의
EARTH중 CABLE은 REFERENCE임
*3중 접지공사 100Ω 이하 (AC 3PH 480V 이하)
*4중 접지공사 100Ω 이하 (AC 3PH 400V 이하)

동전압표지

1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호본딩회로에는 기계기, 과전류보호장치가 부착되지 않아야 한다.

NO	TYPE	CABLE		REMARK
		SIZE	TYPE	
1	HOIST	220V 6.0sq	VCT	HOIST MOTOR WITH EARTH
2	CREEP	4.0sq	VCT	CREEP MOTOR WITH EARTH
3	T/S	4.0sq	VCT	T/S MOTOR WITH EARTH
4	MAIN	10sq	VFCT	MAIN POWER WITH EARTH

시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
															NO	DESCRIPTION		CABLE SIZE	
															1	MAIN EARTH LINE		USER SCOPE	
															2	POWER SOURCE		USER SCOPE	
															3	TROLLEY BAR		USER SCOPE	
															4	POWER SOURCE WITH EARTH		USER SCOPE	
															5	HOST POWER SOURCE WITH EARTH		VCT 10SQ x 1C	
															6	HOISTING MOTOR WITH EARTH		VCT 8.0SQ x 1C	
															7	CREEP MOTOR WITH EARTH		VCT 4.0SQ x 1C	
															8	TRAVERSING MOTOR WITH EARTH		VCT 4.0SQ x 1C	

* CV CABLE 4C중 1C는 EARTH로 사용함.

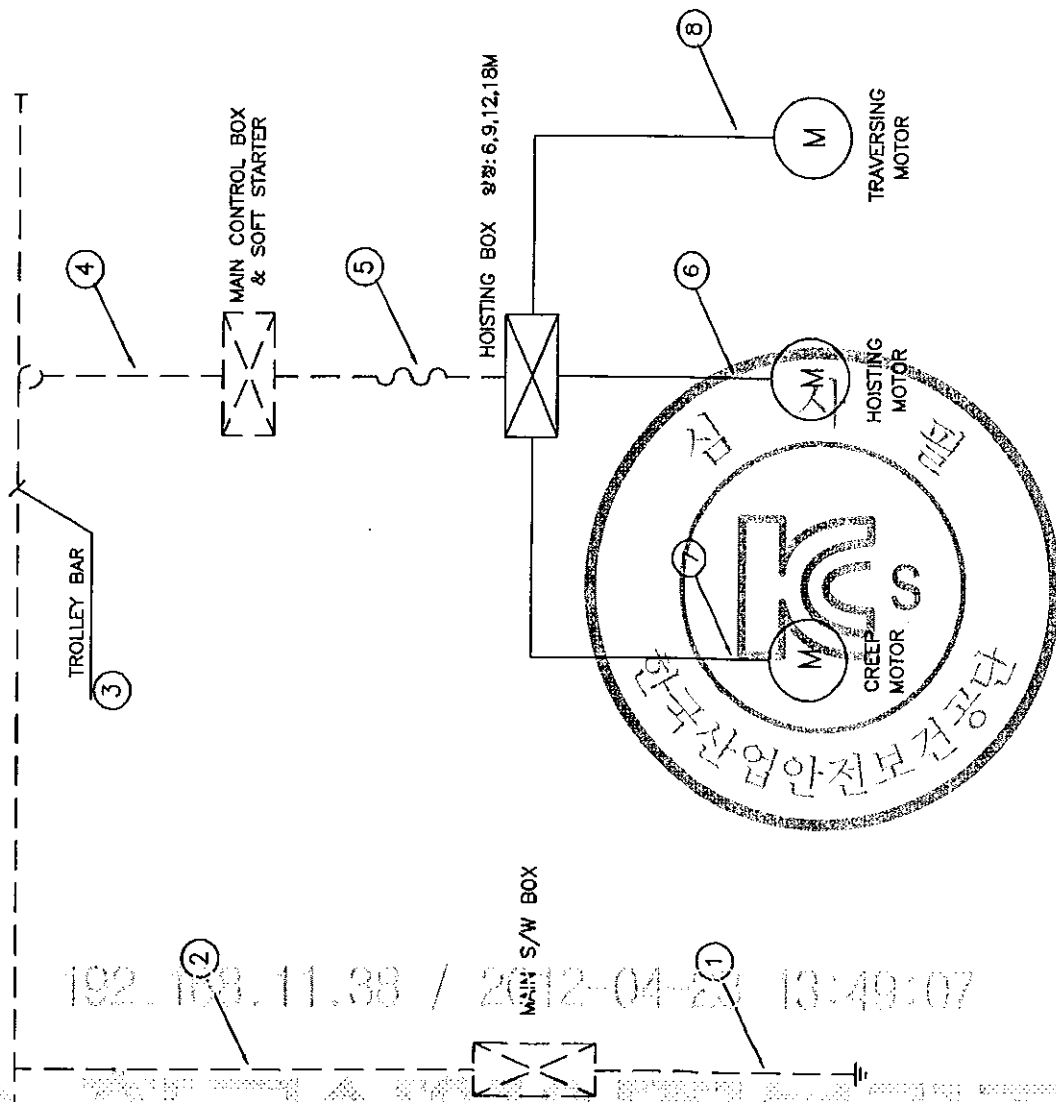
- NOTE -

1. 전동기 외함, 제어반의 프레임 등은 접지하여 그 접지 저항은

400V 미만 : 100옴 이하일것.(3봉 접지)

400V 이상 : 10옴을 이하일것.(별 3봉접지)

2.MAIN S/W BOX는 3봉 접지 요.



동전위접지

1. 전기장비와 기계의 노출된 모든 도전부는 보호접지회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.

2. 보호접지회로에는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

----- USER SCOPE

----- KUKDONG SCOPE

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
KID					NONE		
CUSTOMER		극동호이스트 주식회사					
DRAWING TITLE		EARTH DETAILS DRAWING					
REVISIONS		DWG. NO					KDC3-EC000
MK	DATE	KUK DONG HOIST CO., LTD.					

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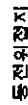
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* CV CABLE 4C중 1C는 EARTH로 사용함.

1. 전동기 외환, 재어반의 프레임 등은 전지하

400V 이상 : 10오를 이하일것.(부 3종전지)

2.MAIN S/W BOX는 3중 잠금 요.



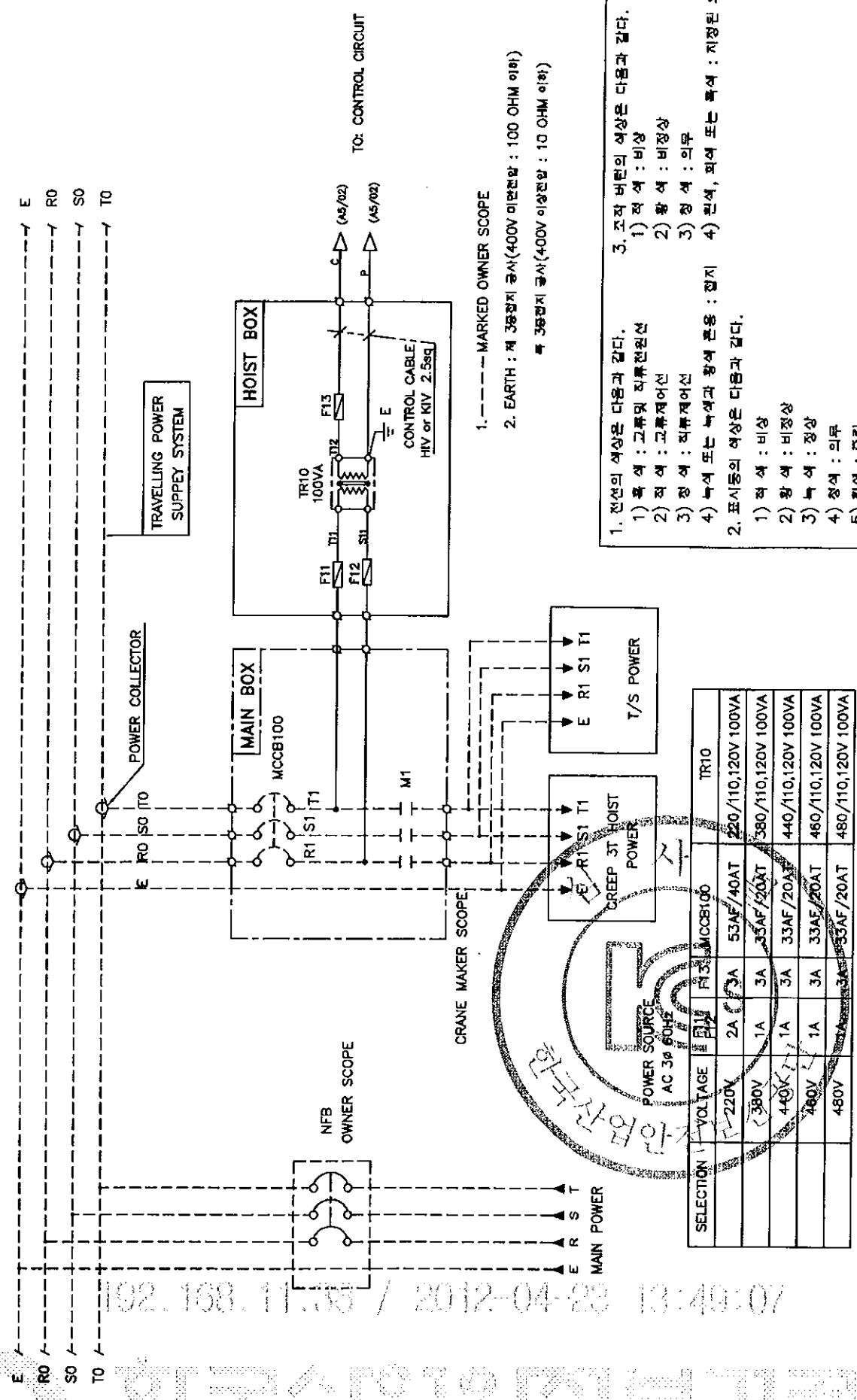
1. 전기장비와 기계의 노출된 모든 도선부는 보호관입회로에 연결되어야 하며, 적절한 접지연속성 기법이 유지되어야 함.

2. 노호본당회로는 거폐기, 과전류보호장치가 부착되지 않아야 한다.

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[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVELLING POWER SUPPLY SYSTEM																			
ADR'S NO.																			A1



1. --- MARKED OWNER SCOPE
2. EARTH : 제 3종접지 공사(400V 미만전압 : 100 OHM 이하)
제 3종접지 공사(400V 이상전압 : 10 OHM 이하)

1. 전선의 색상은 다음과 같다.
- 1) 흑 색 : 교류 및 직류전원선
 - 2) 적 색 : 교류제어선
 - 3) 청 색 : 직류제어선
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지
2. 표시등의 색상은 다음과 같다.
- 1) 흑 색 : 비상
 - 2) 황 색 : 비정상
 - 3) 녹 색 : 정상
 - 4) 청 색 : 의무
 - 5) 흰색 : 정립
3. 조작 버튼의 색상은 다음과 같다.
- 1) 적 색 : 비상
 - 2) 황 색 : 비정상
 - 3) 청 색 : 의무
 - 4) 흰색, 회색 또는 녹색 : 지정된 의미없음

SELECTION	VOLTAGE	TRIP	F13 MCCB100	TR10
1	220V	2A	53AF/40AT	220/110,120V 100VA
2	380V	1A	33AF/20AT	380/110,120V 100VA
3	400V	1A	33AF/20AT	440/110,120V 100VA
4	480V	1A	33AF/20AT	460/110,120V 100VA
5	480V	3A	33AF/20AT	480/110,120V 100VA

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING					NONE		
DRAWING		MAIN POWER CIRCUIT 1					
DRAWING		DIAGRAM					
DATE	REVISIONS	CHK	APP.				
				KDC3E001			

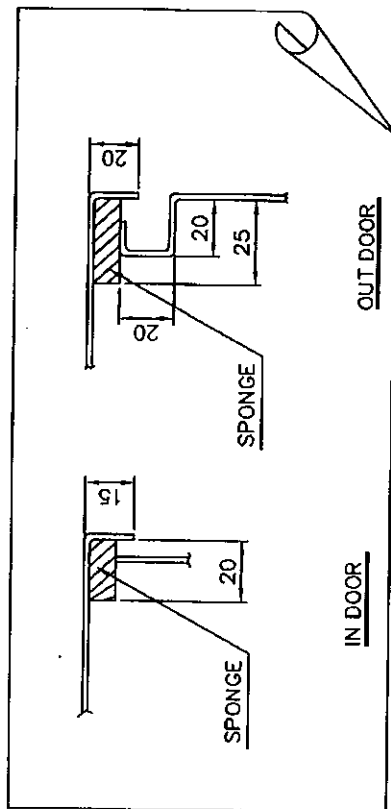
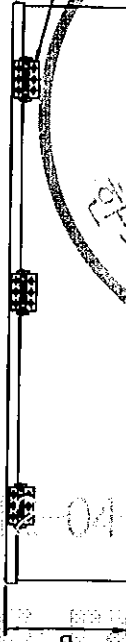
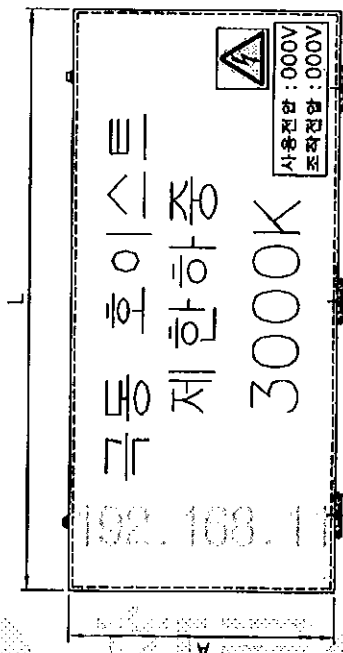
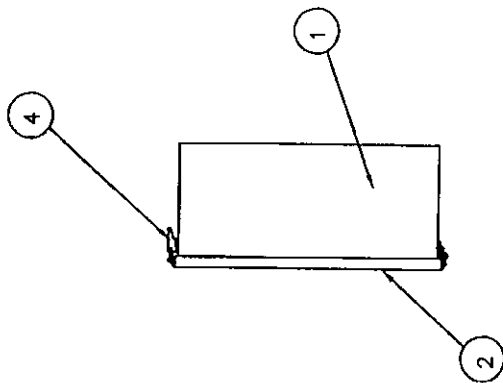


국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

ADR'S NO.

NO	DESCRIPTION	MT'L	REMARKS
1	PANEL CASE	SPC	1.6t
2	PANEL COVER	SPC	1.6t
3	HINGE	PUR'	
4	CLAMP	PUR'	
5	SPONGE	PUR'	



NOTE

- PROTECTION DEGREE ;
A. INDOOR TYPE : DUST PROOF
B. OUT DOOR TYPE : SPLASH PROOF
- FINAL PAINTING COLOR (MUNSELL NO.)
A. IN SIDE : 10B 3/5
B. OUT SIDE : 10B 3/5
- PAINTING THICKNESS : ABOVE 40 μ m
- APPLICATION VOLTAGE : 220V, 380V, 440V, 460V, 480V
- 제어용 전선 : 2.5sq KIV, H/V
- 외함 개방 구조는 다음과 같다.
1) 외함 개방시 충전 부분이 차단되도록 한다.
2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR			OUT DOOR			REMARK
			B	L	A	B	L		
3 TON		NORMAL	360	170	360	170	810		
			360	170	360	170	810		
		CREEP	360	170	360	170	810		

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
CUSTOMER	HOISTING CONTROL BOX					DWG. NO
	LAY-OUT					
DATE	REVISIONS	CHK.	APP.	KDC3EB00		

ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 플
2	CABLE DUCT	-	1	
3	N.F.B	53AF/40AT	1	HOISTING
4	MAGNET CONTACTOR	DMC40C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC65C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOIST
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

- 1) 흑색 : 교류 및 직류 전원선
- 2) 적색 : 교류 제어회로
- 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
- 4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

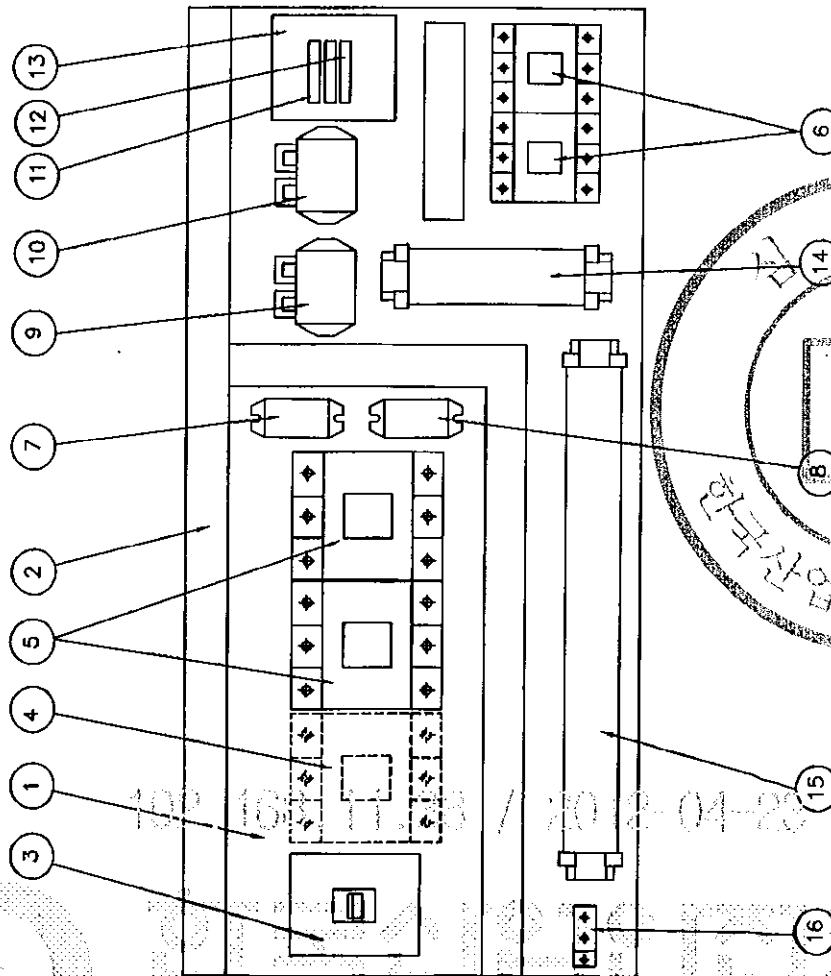
3. 제어용 전선 : 2.5mm KIV,HIV

4. 제직시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 중전부분이 차단되도록 할것.

2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



NOTE

1. UPPER LIMIT LS-HLS-2의 접점 허용 전류 용량 : AC 600V, 75A

2. POWER SOURCE : AC 3φ 220V 60Hz

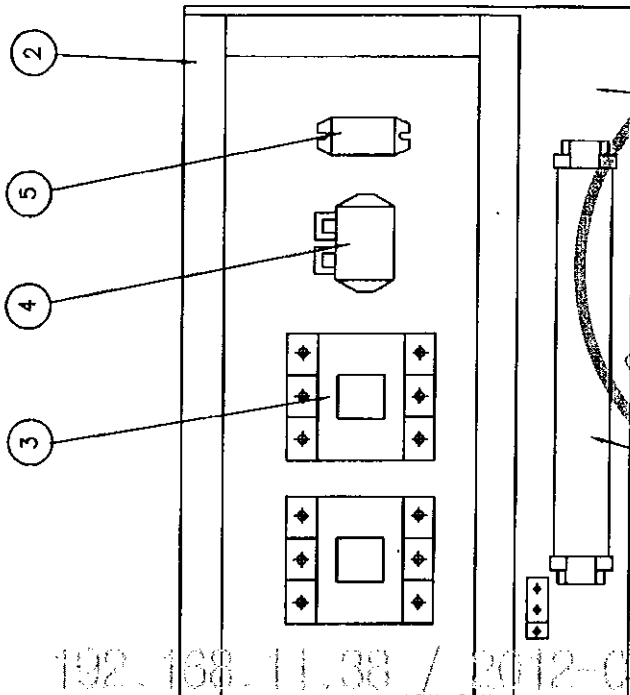
3. EARTH TERMINAL RESISTANCE : 0.018 Ω



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
HOIST CONTROL BOX ARRANGEMENT DRAWING						KDC3BA21
CUSTOMER	국동호이스트 주식회사					DWG. NO.
DRAWING TITLE						
REVISIONS	CHK.	APP.				
DATE						

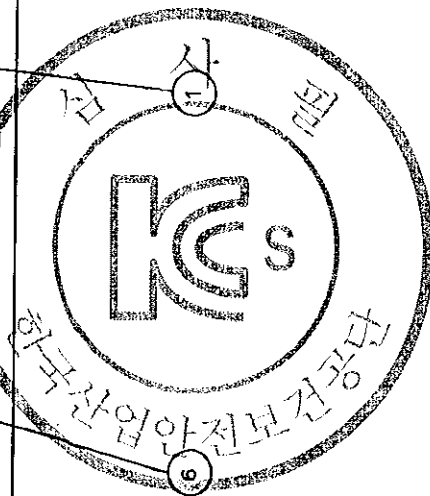
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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ADR'S NO.



- NOTE** 1. 전선의 색상은 다음과 같다.
 1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어회로
 2) 적색 : 교류제어회로
 3) 주황색 : 외부전원에서 공급되는 인동장치 제어회로
 4) 녹색 또는 녹색과 황색 혼용 : 접지선
 2. CABLE MATERIAL : KIV OR EQUIVALENT
 MIN SIZE : 2.5sq
 3. 제어용 전선 : 2.5mm KIV/HIV
 4. 제자시 디스 변경 필수있음.
 5. 외함 개방구조는 다음과 같을것.
 1) 외함 개방시 승전부분이 차단되도록 할것.
 2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING



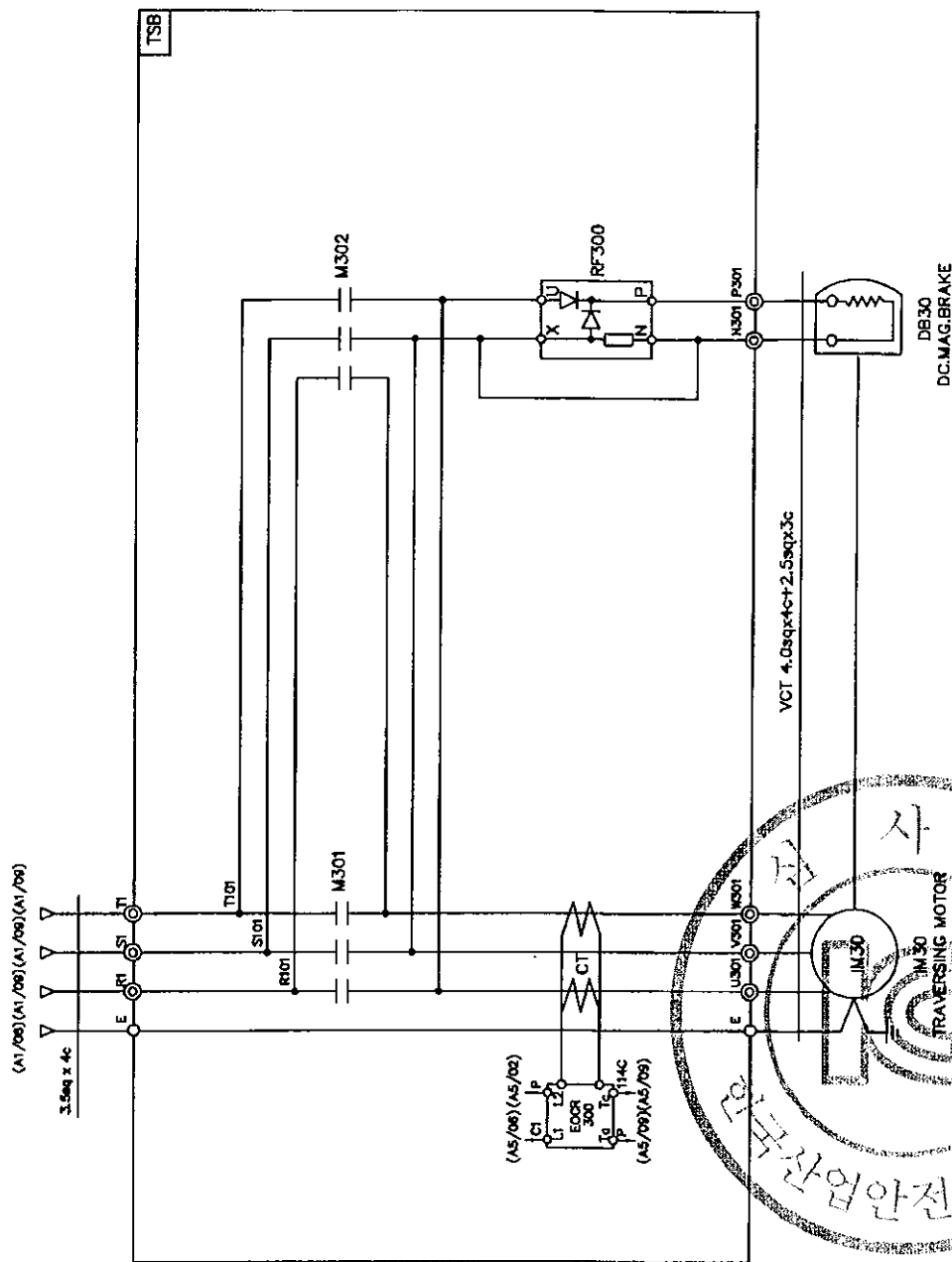
DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
TRAVERSING POWER CONTROL BOX					NONE		
ARRANGEMENT DRAWING		KUD KUK DONG HOIST CO., LTD.			DWG. NO	KDC3bt22	
DATE	REVISIONS	CHK	APP.				

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192 194 196 198 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300 302 304 306 308 310 312 314 316 318 320 322 324 326 328 330 332 334 336 338 340 342 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 376 378 380 382 384 386 388 390 392 394 396 398 400 402 404 406 408 410 412 414 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 460 462 464 466 468 470 472 474 476 478 480 482 484 486 488 490 492 494 496 498 500 502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 846 848 850 852 854 856 858 860 862 864 866 868 870 872 874 876 878 880 882 884 886 888 890 892 894 896 898 900 902 904 906 908 910 912 914 916 918 920 922 924 926 928 930 932 934 936 938 940 942 944 946 948 950 952 954 956 958 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C1



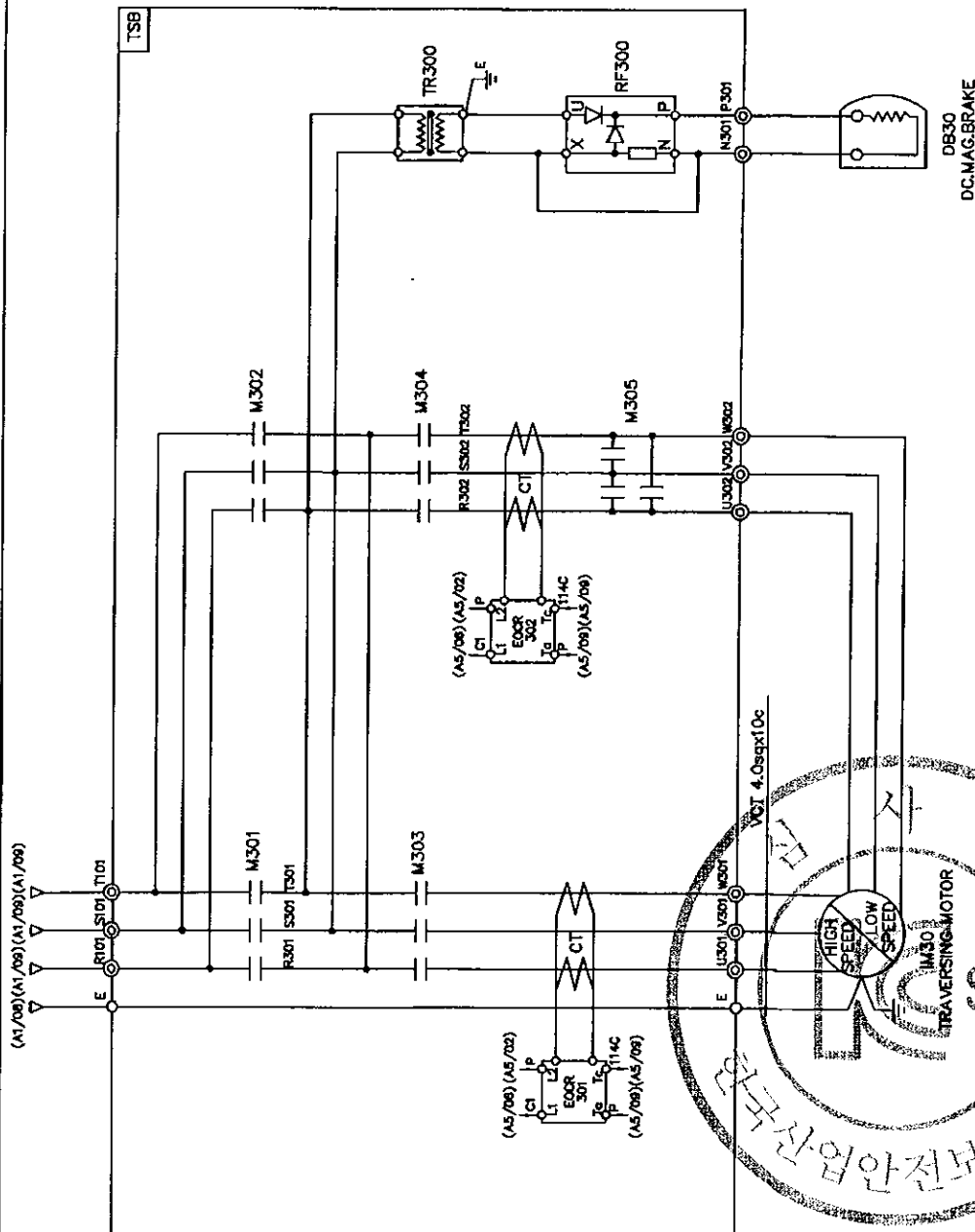
SPECIFICATION SYMBOLS		TRAVERSING MOTOR	DC MAG. BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWITCH
DESCRIPTION		IM 30	DB 30	M301, M302	RF 300	EOCR 300	LS-301, LS-302
		0.75KW x 4P AC 3PH 220V 60Hz	DC 100V	DMC22C	SR-30	SS-05	HY - W904
		0.5KW x 6P AC 3PH 220V 60Hz	DC 100V	DMC22C	SR-30	SS-05	HY - W904
SELECTION MAKER		KUKDONG		DONG-A		ASAN	
CUSTOMER				DRAWING	DESIGN	CHECKED	APPROVED
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		SCALE	DATE	ORDER NO.	
				NONE			
REVISIONS				DWG. NO		KDC3E23	
CHK. APP.							
DATE							

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[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRaversing Motion																			
ADR'S NO.																			C2

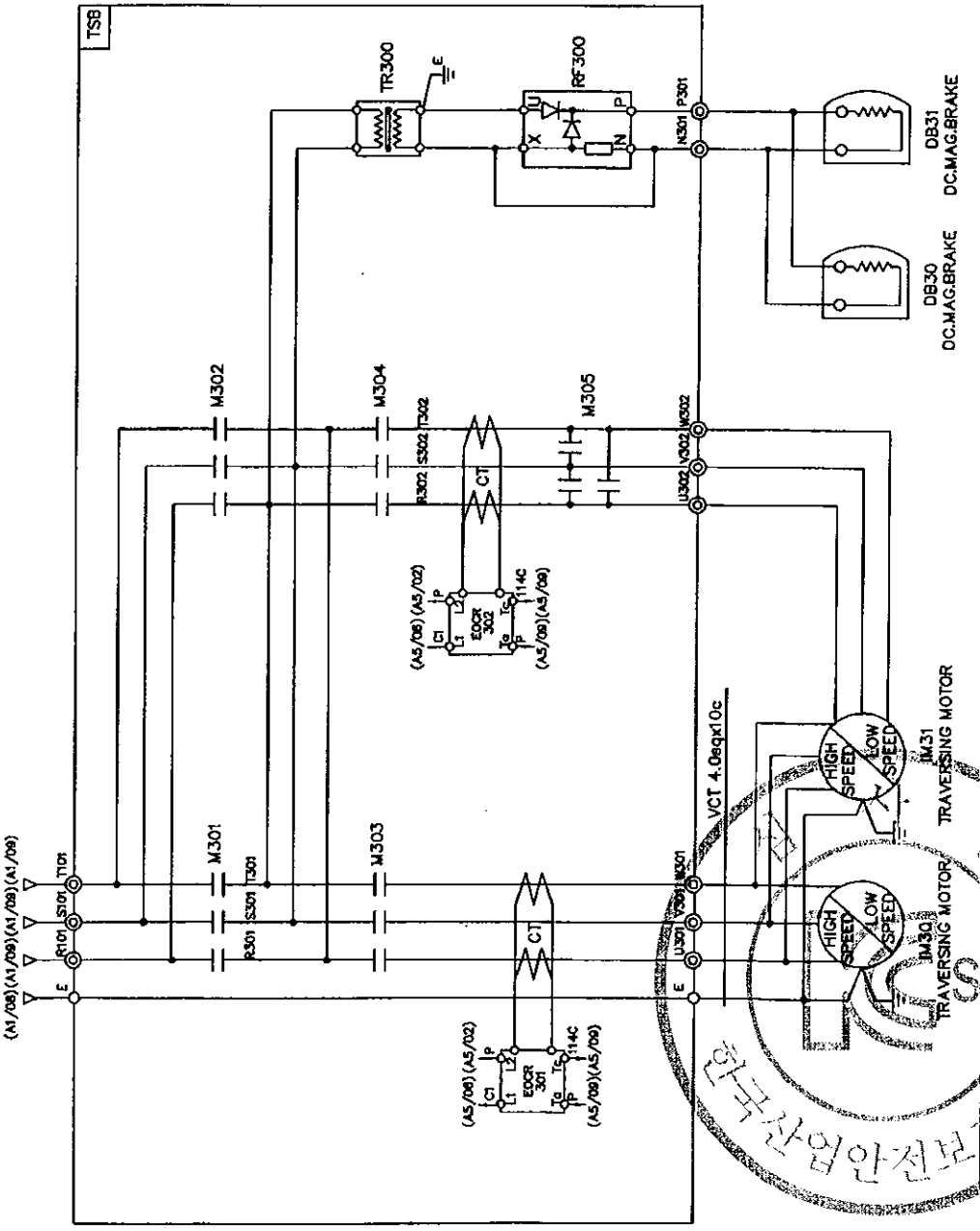


SPECIFICATION		MAGNET CONTACTOR		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
SYMBOLS DESCRIPTION		M301, M302, M303, M304, M305		EOCR 301,302		TR300	
220V 0.5/0.25KW, 4/2P AC3PH 220V 60Hz		DMC22C		SS-05		AC220/220V, 300VA	
220V 0.5/0.25KW, 4/2P AC3PH 220V 60Hz		DMC22C		SS-05		AC220/220V, 300VA	
SELECTION MAKER		DONG-A		ASECO		SHINHAN	
CUSTOMER		DRAWING		DATE		ORDER NO.	
DRAWING TITLE		DESIGN		SCALE		NONE	
REVISIONS		CHECKED		APPROVED		DWG. NO.	
DATE		DRAWING		DATE		KDC3E25	
CHK. APP.		DRAWING		DATE		KDC3E25	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



SPECIFICATION		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
SYMBOLS		DB30, DB31		RF 300		EOCR 301,302		TR300	
DESCRIPTION		DC 100V		DC 100V		SS-30		AC220/220V, 300VA	
SELECTION		DC 100V		DC 100V		SS-30		AC220/220V, 300VA	
MAXER		KUKDONG		DONG-A		ASECO		SHINHAN	
CUSTOMER		DRAWING		DESIGN		CHECKED		APPROVED	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		SCALE		NONE		DATE	
REVISIONS		DWG. NO		KDC3E26		KUKDONG HOIST CO., LTD.		KDC3E26	
CHK. APP.		DATE		REVISIONS		DWG. NO		KDC3E26	

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NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 녹색 : 교류 및 직류 전원선으로 5) 청색 : 제어 제어회로

2) 적색 : 교류 제어회로

3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼합 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

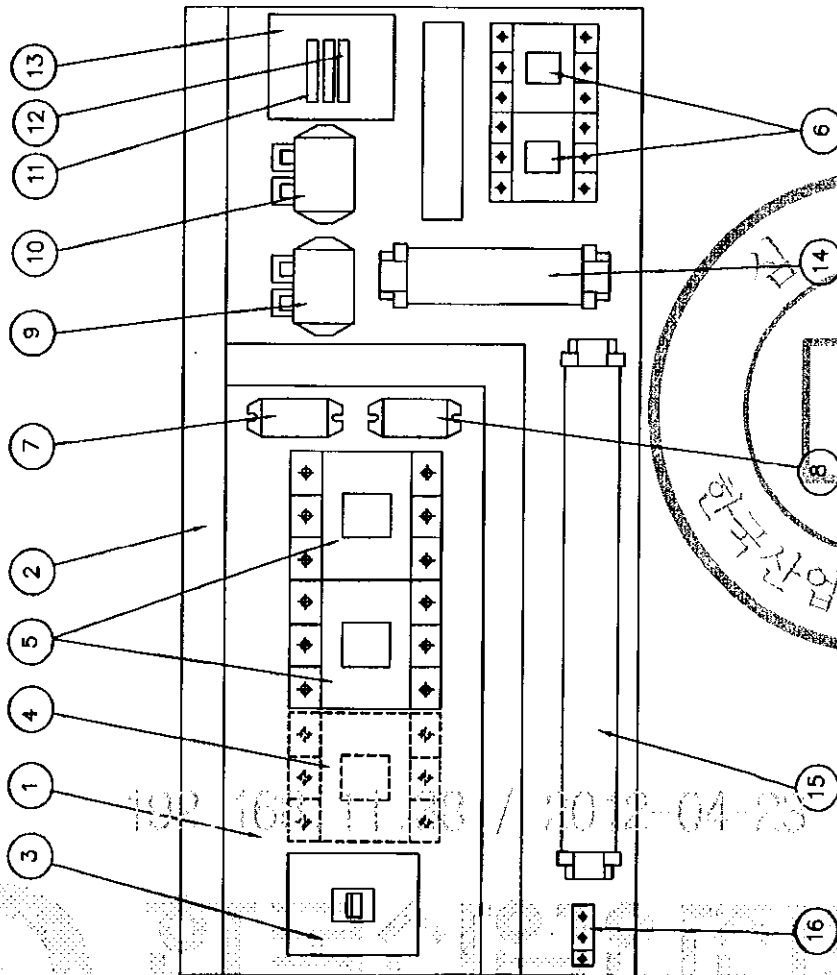
3. 제어용 전선 : 2.5mm KIV,HIV

4. 저역시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 중전부분이 차단되도록 할것.

2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



NOTE

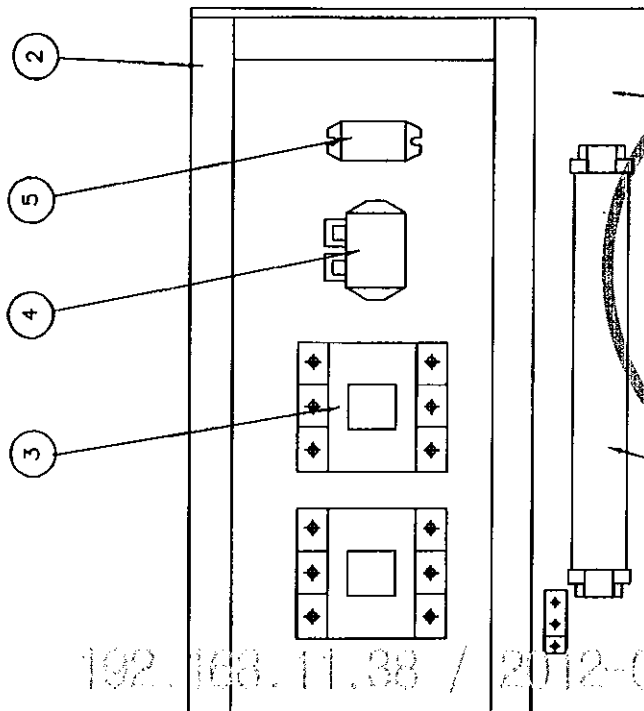
1. UPPER LIMIT LS-1LS-2의 전선 허용 단면적 : AC 600V, 75A

2. POWER SOURCE : AC 3φ 380V 60Hz

3. EARTH TERMINAL RESISTANCE : 0.018Ω



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						KDC3BA31
KUK DONG HOIST CO., LTD.						
HOIST CONTROL BOX						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
DATE						
CHK.						
APP.						



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NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

NOTE 1. 전선의 색상은 다음과 같다.

- 1) 녹색 : 교류 전원선
- 2) 적색 : 교류 제어회로
- 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
- 4) 녹색 또는 노색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

3. 제어용 : 전선 : 2.5mm KIV,HIV
4. 제라시 다소 변경 될수있음.
5. 외함 기방구조는 다음과 같을것.

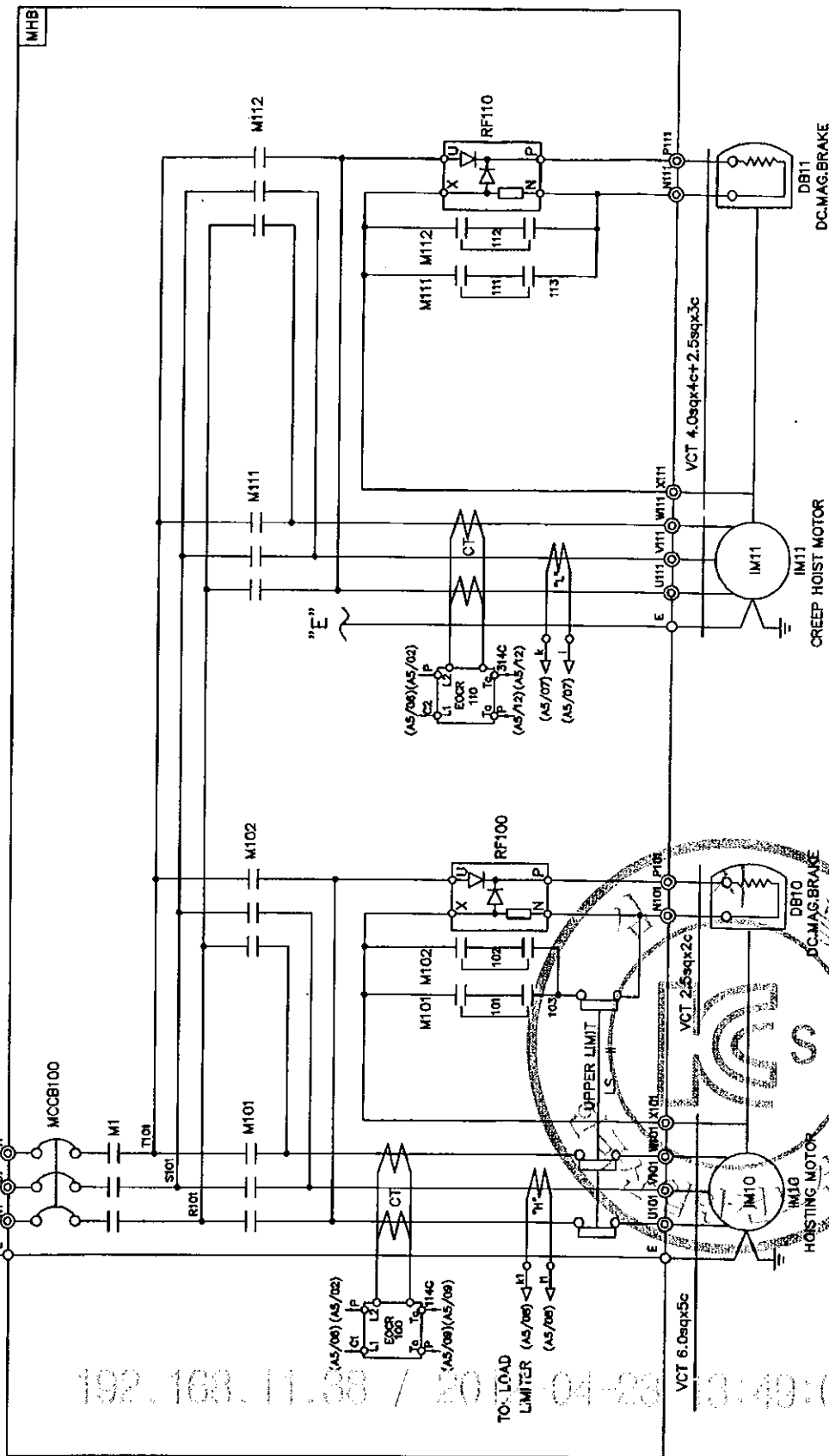
1) 외함 개방시 중전부분이 차단되도록 할것.

2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

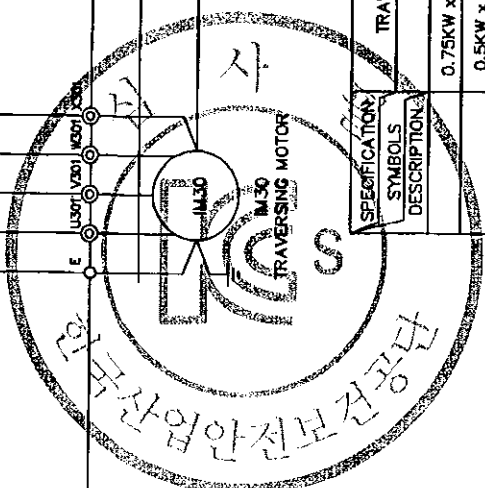
	KCS 한국산업안전보건공단	CUSTOMER	DRAWING TITLE TRAVERSING POWER CONTROL BOX ARRANGEMENT DRAWING	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.	
								NONE			
KUD 한국동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC3b132						
DATE	REVISIONS	CHK.	APP.								



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SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE										
	DESCRIPTION	HOIST	IM 10	IM 11	DB10, 11	MCPB100	F11, F12	M1	M101, M102	M111, M112	LS-I, LS-II	EOCR100	EOCR110		RF100	RF110	LOAD LIMITER	C20-01						
	3TON AC 3PH 380V 60Hz	5.5KW x 4P	1.5KW x 4P	DC-100V	ABE-33AF/20A	380V/210V/120V, 50/60VA	1A 3A	DMC22C	DMC40C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFC7 6.0sqx4C							
SELECTION																								
MAKER	KUKDONG																							
DATE	REVISIONS	CHK.	APP.	DRAWING TITLE	CUSTOMER	LS	SHINHAN	-	DONG-A	KUKDONG	ASAN	JUNGHO	DONGIL	ORDER NO.	DWG. NO	KDC3E31	KUK DONG HOIST CO., LTD.							
																		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	
																								NONE

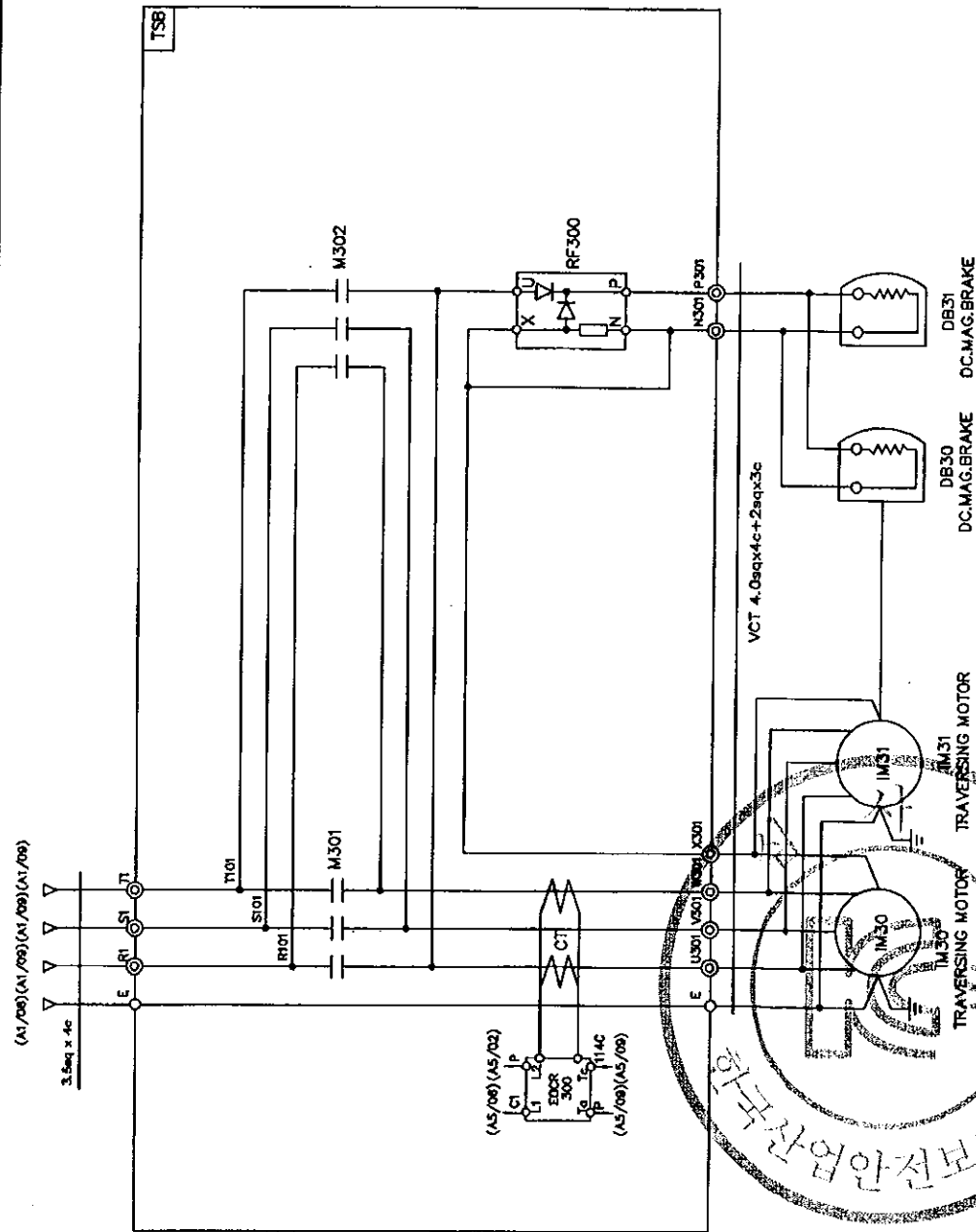


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한국과학기술정보연구원

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2

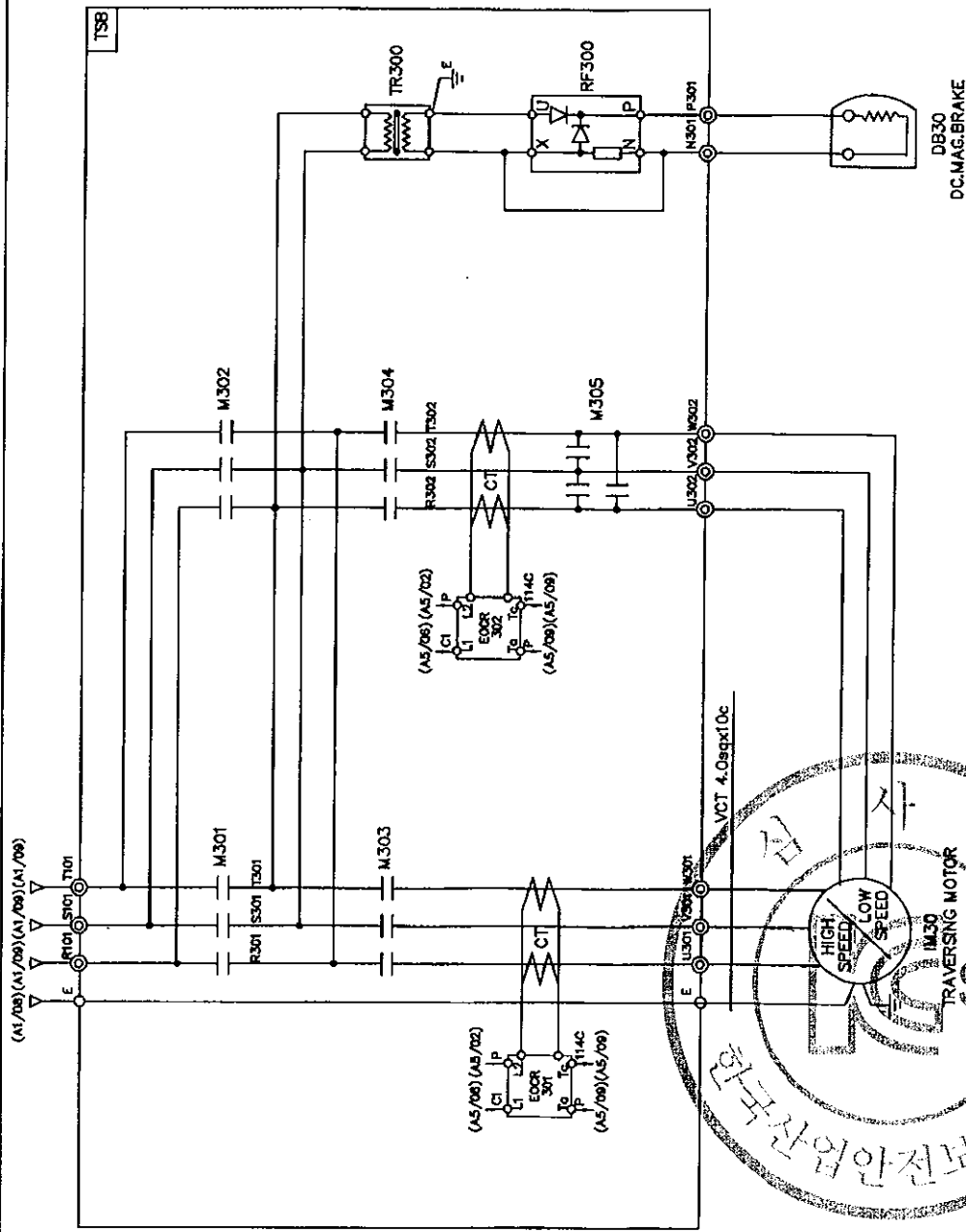


SPECIFICATION		SYMBOLS DESCRIPTION		TRAVERSING MOTOR		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		LIMIT SWITCH	
IM 30, 1M31		0.75KW x 4P AC 3PH 380V 60Hz		M301, M302		RF 300		EOCR 300		LS-301, LS-302		HY - W304	
IM 30, 1M30		0.5KW x 6P AC 3PH 380V 60Hz		DB 30		DC 100V		SS-05		SS-05		HY - W304	
SELECTION MAKER		KUKDONG		DC 100V		DC 100V		DONG-A		ASECO		HY - W304	
CUSTOMER		KUKDONG		DRAWING DESIGN		CHECKED		APPROVED		SCALE		DATE	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		DRAWING		DESIGN		CHECKED		APPROVED		SCALE	
REVISIONS		CHK		APP		DRAWING		DESIGN		CHECKED		APPROVED	
DATE		192.168.11.38 / 2012-04-23 13:49:07		REVISIONS		CHK		APP		DRAWING		DESIGN	
DWG. NO		KDC3E34		DWG. NO		KDC3E34		DWG. NO		KDC3E34		DWG. NO	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2

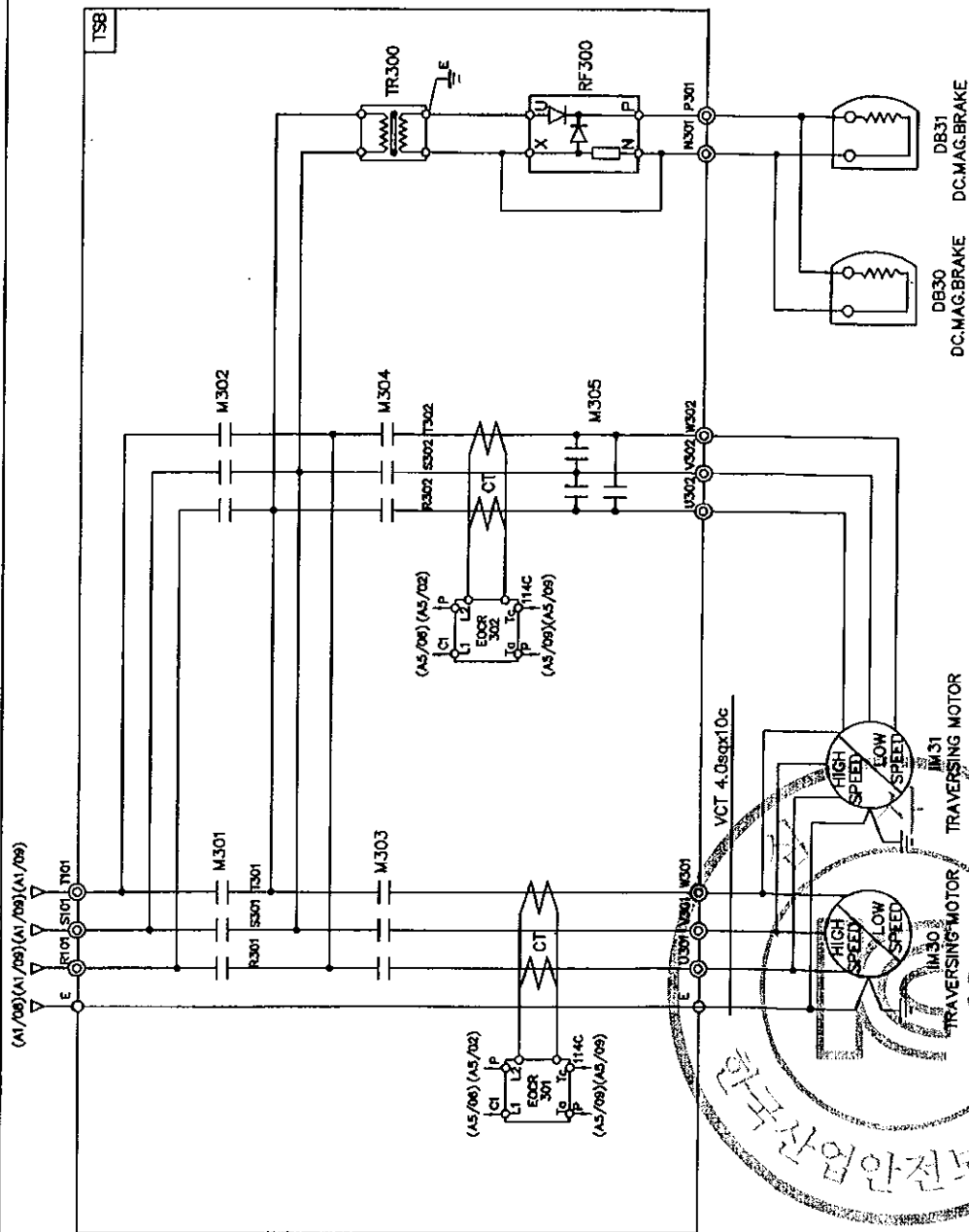


SPECIFICATION		SYMBOLS		DESCRIPTION		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		TRAVERSING MOTOR		TRAVERSING MOTOR		M301, M302, M303, M304, M305		RF 300		EOCR 301,302		TR300	
380V		0.5/0.25KW		AC3PH 380V 60Hz		DC 100V		SR-30		SS-05		AC380/220V, 300VA	
380V		0.5/0.25KW		AC3PH 380V 60Hz		DC 100V		SR-30		SS-05		AC380/220V, 300VA	
SELECTION		MAKER		KUKDONG		DONG-A		ASECO		SHINHAN			
CUSTOMER		DRAWING		TITLE		DESIGN		CHECKED		APPROVED		SCALE	
				TRAVERSING POWER CONTROL CIRCUIT						DATE		NONE	
REVISIONS		CHK.		APP.		DWG. NO		KDC3E35		ORDER NO.			
DATE													

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



SPECIFICATION		SYMBOLS		DESCRIPTION		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30		IM31		M301, M302, M303		RF 300		EOCR 301,302		TR300	
380V		0.5/0.25KW		AC3PH 380V 60Hz		DC 100V		DMC22C		SS-05		AC380/220V, 300VA	
380V		0.8/0.4KW		AC3PH 380V 60Hz		DC 100V		DMC22C		SS-05		AC380/220V, 300VA	
SELECTION		MAKER		KUKDONG		DAESUNG		ASECO		SHINHAN		ORDER NO.	
DRAWING		TITLE		TRAVERSING POWER CONTROL CIRCUIT		DESIGN		CHECKED		APPROVED		SCALE	
REVISIONS		CHK. APP.		DATE		NONE		NONE		NONE		DWG. NO	
KDK		KUK DONG HOIST CO., LTD.		KDC3E36		KDC3E36		KDC3E36		KDC3E36		KDC3E36	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
																			ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어회로
 2) 적색 : 교류 제어회로
 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
 4) 녹색 또는 녹색과 황색 혼용 : 접지선

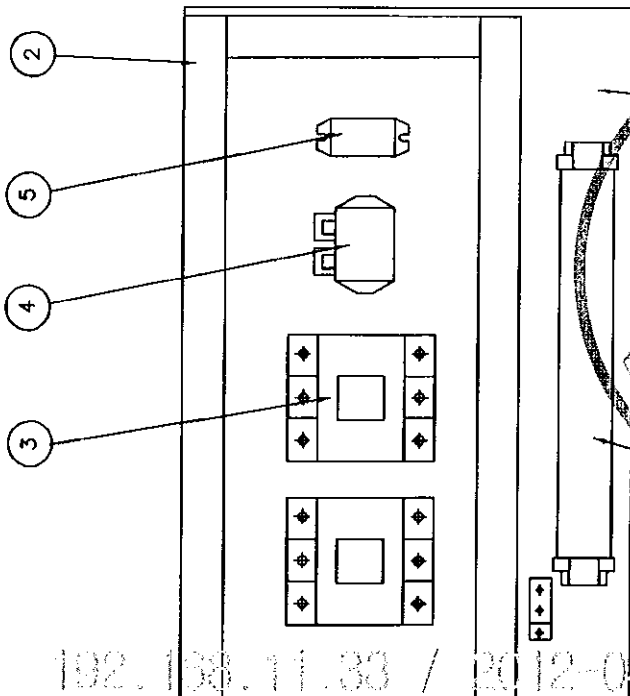
2. CABLE MATERIAL : KIV OR EQUIVALENT
 MIN SIZE : 2.5sq
 3. 제어용 전선 : 2.5mm KIV/HIV
 4. 제작시 다소 변경 될수있음.
 5. 외함 기방구조는 다음과 같을것.
 1) 외함 기방시 중전부분이 차단되도록 할것.
 2) 외함 기방후 중전되어있는 부분은 IP2X 이상의 방전 방호가 되어있을것.

NOTE
 1. UPPER LIMIT LS-ALS-2의 전선 허용 단면 8mm² AC 600V, 75A
 2. POWER SOURCE : AC 3φ 440V 60Hz
 3. EARTH TERMINAL RESISTANCE : 0.018Ω

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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ADR'S NO.



- NOTE** 1. 전선의 색상은 다음과 같다.
- 1) 흑색 : 교류 및 직류 전원선로
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부전원에서 공급되는 전동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
3. 제어용 전선 : 2.5mm KIV/HIV
4. 제막시 다스 변경 필수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 중전부분이 차단되도록 할것.
 - 2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

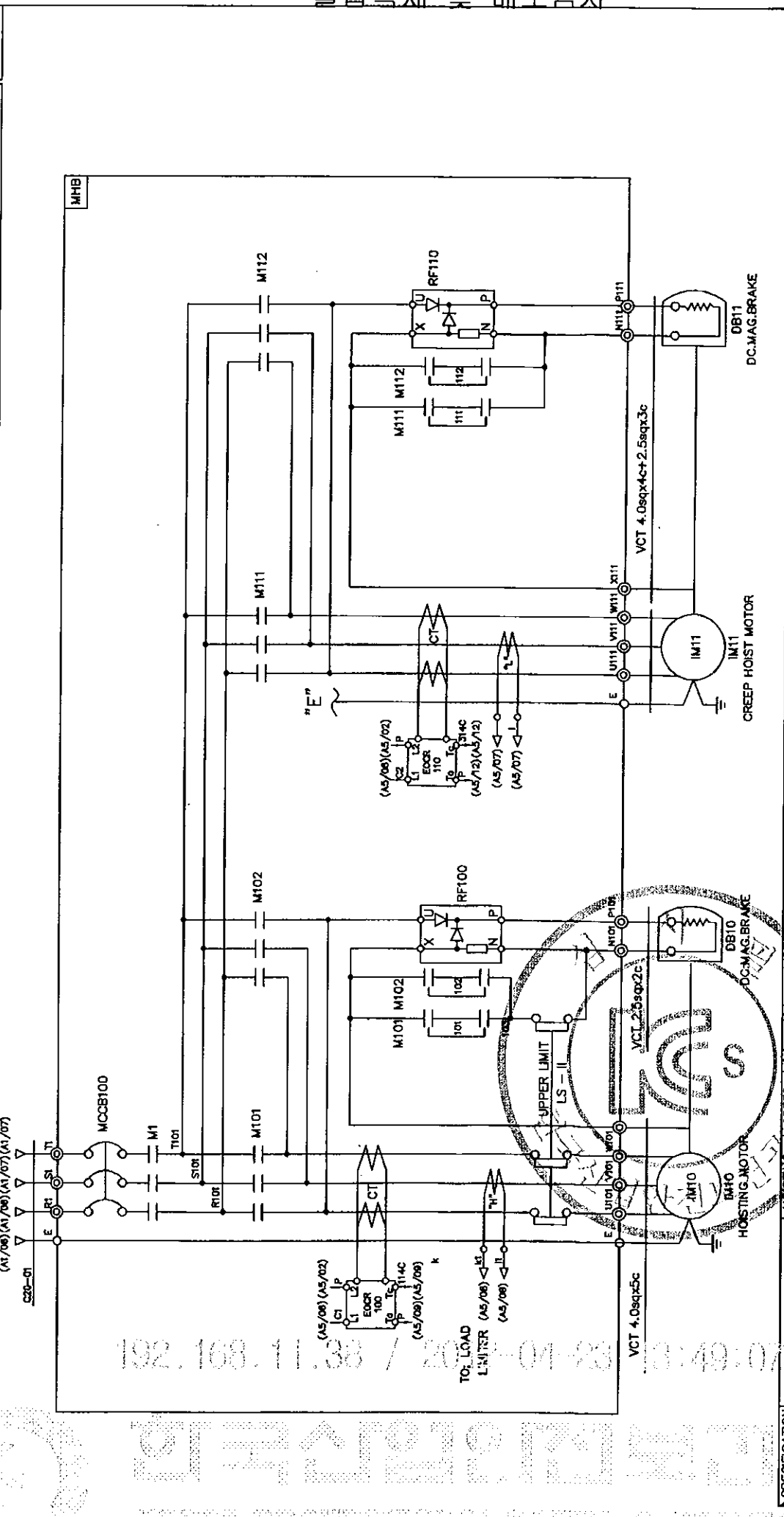
NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
TRAVERSING POWER CONTROL BOX					NONE		
ARRANGEMENT DRAWING							
CUSTOMER		KUK DONG HOIST CO., LTD.			DWG. NO		KDC3bt42
DRAWING TITLE							
REVISIONS							
DATE							
CHK							
APP							

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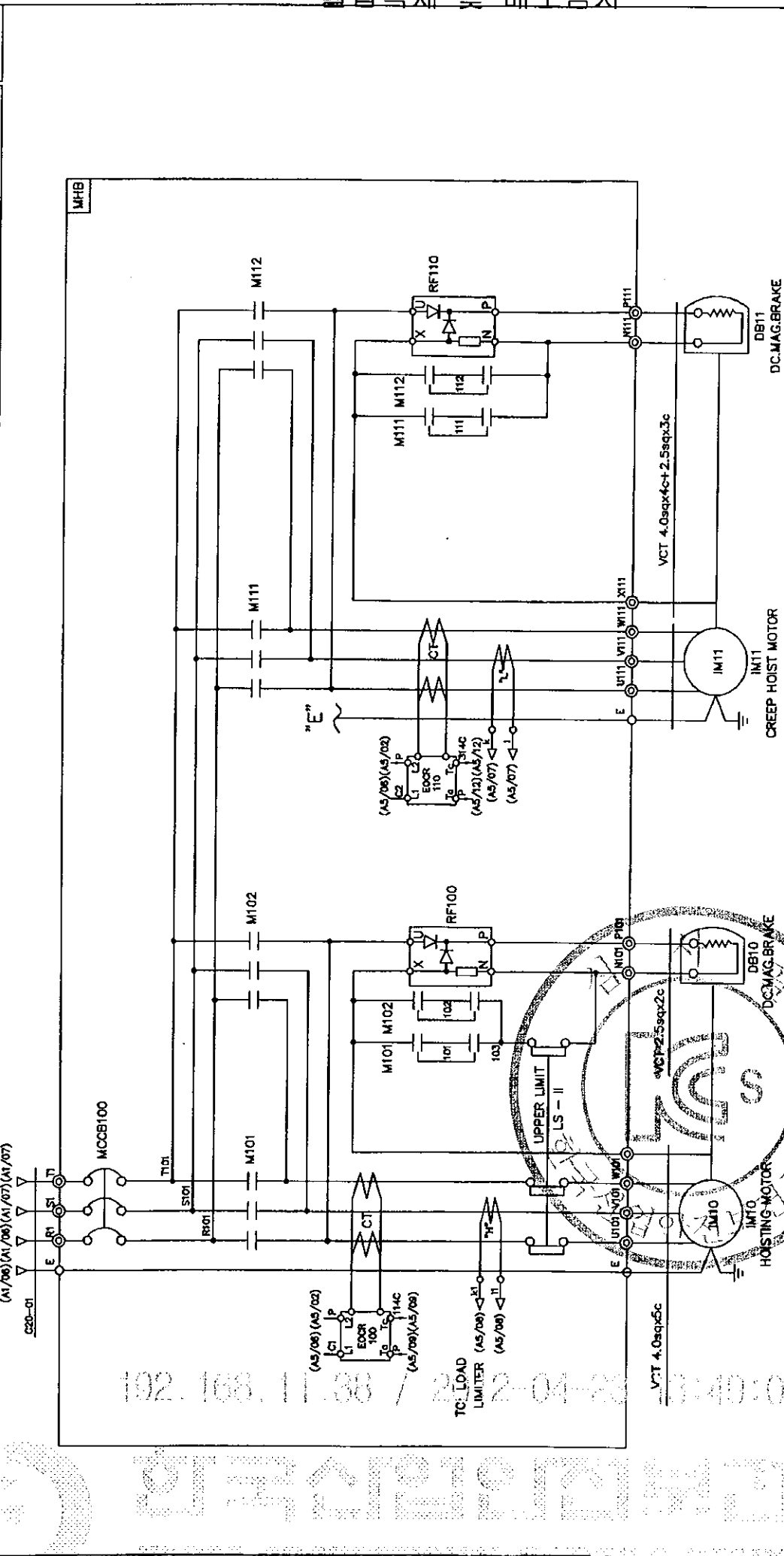
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HOISTING MOTION										POWER CIRCUIT									
HOISTING MOTION										CREEP HOIST MOTION									
C20-01										B1									



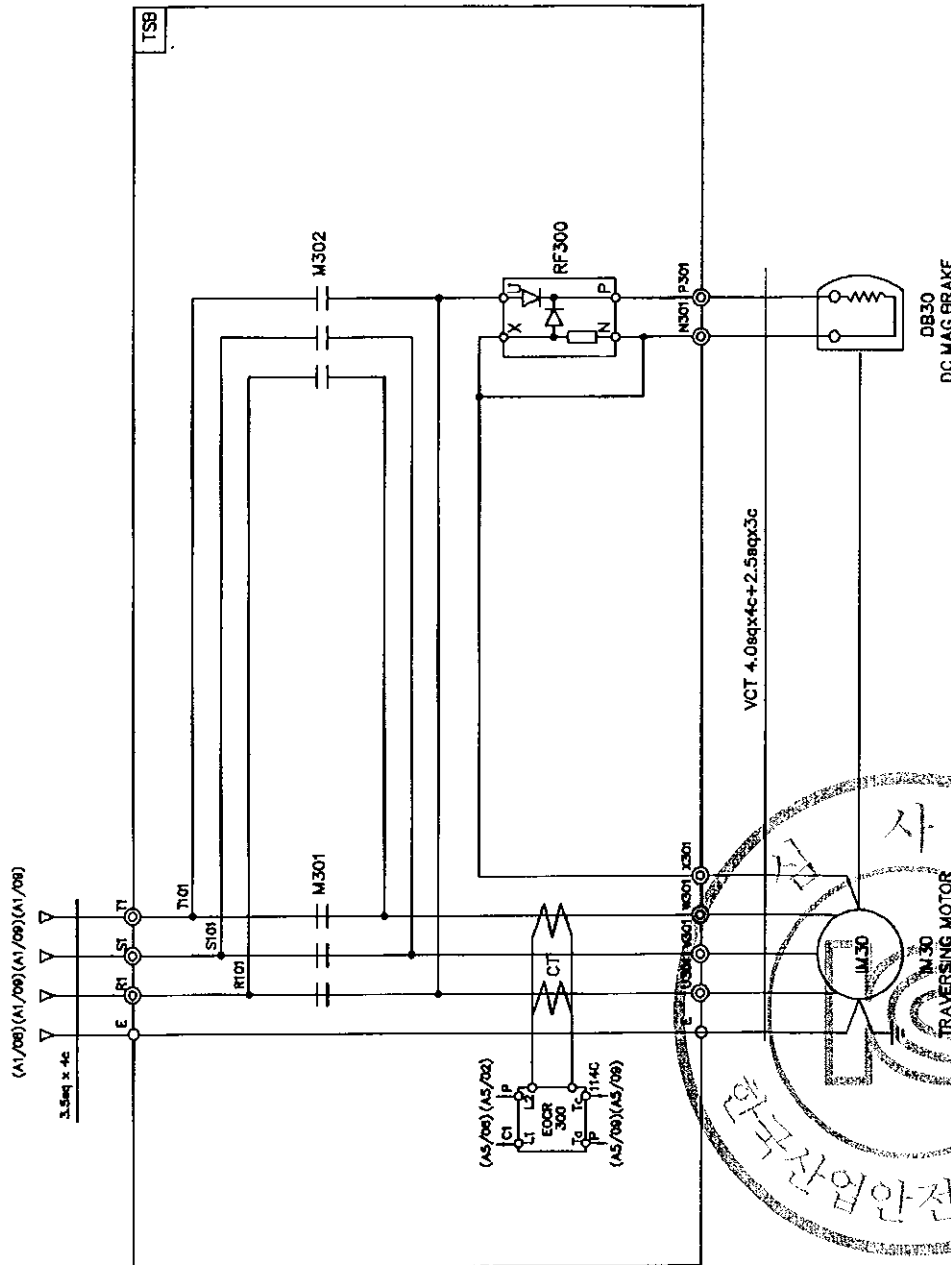
SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE																					
	HOIST	IM 10	IM 11	DB10, 11	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M111,M112	EOCR100	RF100	RF110																					
	DESCRIPTION	3TON AC 3PH 440V 60Hz	5.5KW x 4P	1.5KW x 4P	DC100V	ABE-33AF/20A	440/110V/20V/100V	1A	3A	DMC22C	DMC40C	AC 600V 75A	SS-30	SS-05	SR-60																				
SELECTION	KUKDONG														ASAN	JUNGHO	DONGIL																		
MAKER	LS														SHINHAN	-	DONG-A			KUKDONG	CHECKED	APPROVED	SCALE	DATE	ORDER NO.										
	CUSTOMER														DRAWING							DESIGN													
	DRAWING TITLE														CREEP HOISTING POWER CONTROL CIRCUIT																				
	CHK.														APP.														KDC3E41						
DATE	REVISIONS														DWG. NO														KDC3E41						
MARK	KUKDONG HOIST CO., LTD.														KUKDONG HOIST CO., LTD.							KDC3E41													

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT										CREEP HOIST MOTION									
HOISTING MOTION										CREEP HOIST MOTION									
C20-01										B1									
ADR'S NO.										B1									



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	UPPER LIMIT	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	3TON AC 3PH 440V 50Hz	IM 10	IM 10	TR 1	F1, F12	M101, M102	LS-I, LS-II	EOCR100	RF100	LOAD LIMITER	C20-01
SELECTION	3TON AC 3PH 440V 50Hz	5.5KW X 4P	5.5KW X 4P	440/110V/120V/100V	1A	DMC40C	AC 600V 75A	SS-30	SS-60	SR-30	VFCT 6.0sqx4c
MAKER	CUKONG	LS	SHINHAN	DONG-A	KUKDONG	ASAN	JUNGH0	DATE	ORDER NO.	DWG. NO	KDC3E42
CUSTOMER	CREEP HOISTING POWER CONTROL CIRCUIT										
DRAWING TITLE	DIAGRAM										
REVISIONS											
DATE											
CHK. APP.											

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			ADR'S NO.
TRAVERSING MOTION																			C1

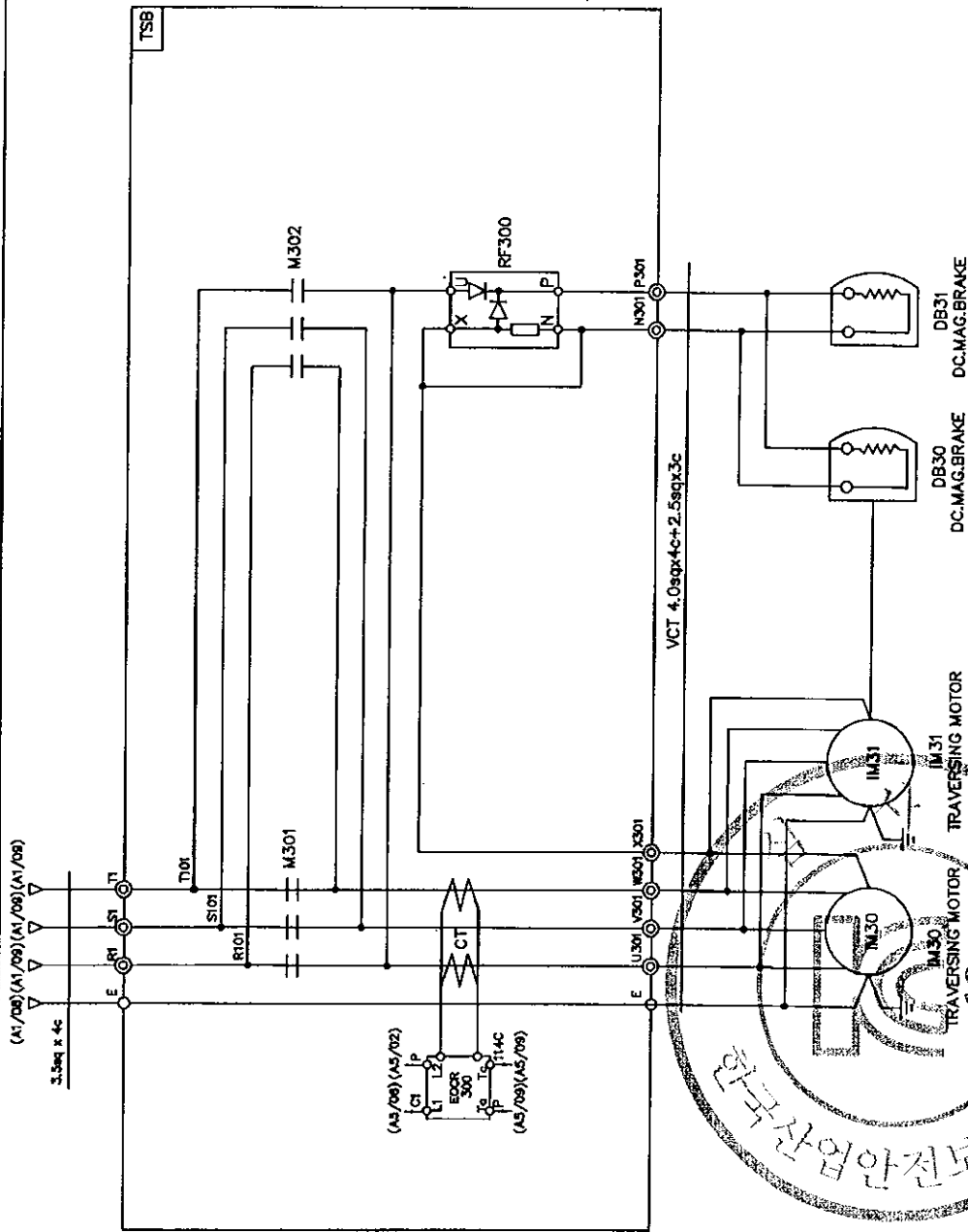


SPECIFICATION SYMBOLS		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		LIMIT SWITCH	
DESCRIPTION		IM 30		DB 30		M301, M302		RF 300		EOCR 300		LS-301, LS-302	
		0.75KW x 4P AC 3PH 440V 60Hz		DC 100V		DMC22C		SR-30		SS-05		HY - W904	
SELECTION MAKER		KUKDONG		DC 100V		DMC22C		SR-30		SS-05		HY - W904	
CUSTOMER		KUKDONG		DONG-A		ASAN		ASAN		ASAN		ASAN	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		DRAWING		DESIGN		CHECKED		APPROVED		SCALE	
REVISIONS		DATE		CHK.		APP.		DATE		DATE		DATE	
DWG. NO		KDC3E43		KUK DONG HOIST CO., LTD.		KUK DONG HOIST CO., LTD.		KUK DONG HOIST CO., LTD.		KUK DONG HOIST CO., LTD.		KUK DONG HOIST CO., LTD.	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



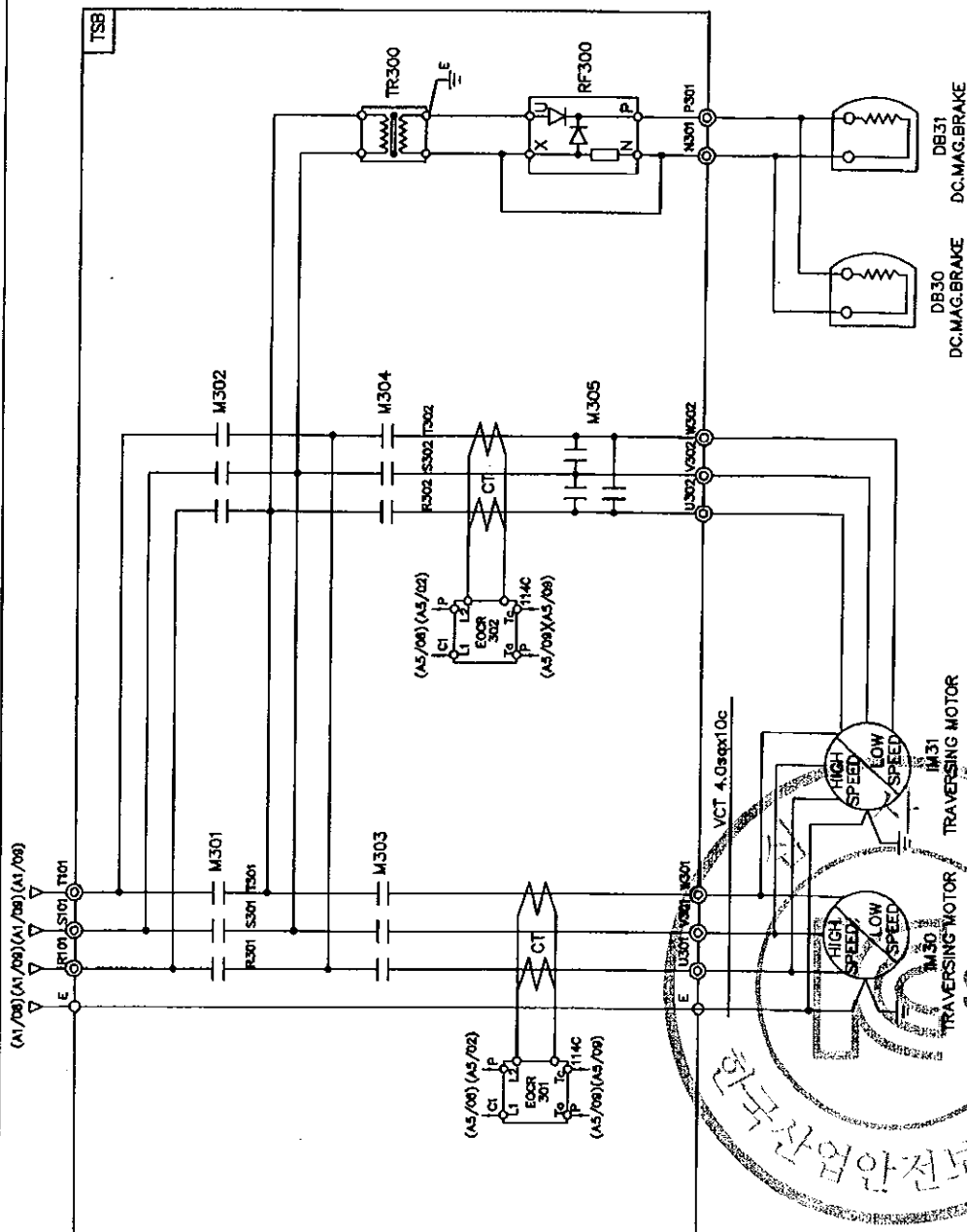
SPECIFICATION		SYMBOLS		DESCRIPTION		SELECTION		MAKER		CUSTOMER		DRAWING		TITLE		CHK.		APP.	
TRAVERSING MOTOR		IM 30, 1M31		0.75KW x 4P AC 3PH 440V 60Hz		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
TRAVERSING MOTOR		IM 30, 1M31		0.5KW x 6P AC 3PH 440V 60Hz		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
MAGNET CONTACTOR		M301, M302		DC 100V		DONG-A		DONG-A		DONG-A		DONG-A		DONG-A		DONG-A		DONG-A	
SILICON RECTIFIER		RF 300		SS-05		SS-05		SS-05		SS-05		SS-05		SS-05		SS-05		SS-05	
ELECTRIC OVER CURRENT RELAY		EOCR 300		SS-05		SS-05		SS-05		SS-05		SS-05		SS-05		SS-05		SS-05	
LIMIT SWITCH		LS-301, LS-302		HY - W904		HY - W904		HY - W904		HY - W904		HY - W904		HY - W904		HY - W904		HY - W904	
DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.		DWG. NO		KDC3E44			
KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.		KUKDONG HOIST CO., LTD.	

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E45

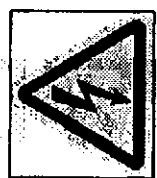
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POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



SPECIFICATION		SYMBOLS		DESCRIPTION		DC MAG. BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30		IM 30		DB30, DB31		M301, M302, M303, M304, M305		RF 300		EOCR 301, 302		TR300	
440V		0.5/0.25KW		AC3PH 440V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC440/220V, 300VA	
440V		0.3/0.15KW		AC3PH 440V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC440/220V, 300VA	
SELECTION		MAKER		KUKDONG		DONG-A		ASAN		SHINHAN		ORDER NO.		KDC3E46	
CUSTOMER		DRAWING		TITLE		DESIGN		CHECKED		APPROVED		DATE		DWG. NO	
TRAVERSING POWER CONTROL CIRCUIT		DIAGRAM		KUK DONG HOIST CO., LTD.		NONE		NONE		NONE		NONE		KDC3E46	
REVISIONS		CHK. APP.		DATE		MK		DATE		DATE		DATE		DATE	

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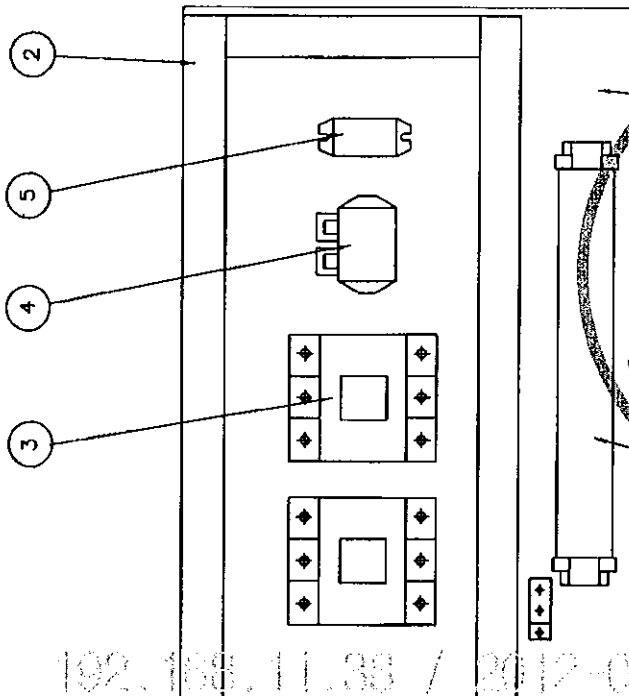


NOTE

1. 전선의 색상은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전원선도
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼합 : 접지선
2. CABLE MATERIAL : [KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 기밀구조는 다음과 같을것.
 - 1) 외함 개방시 중전부분이 차단되도록 할것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 차단속 방호가

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ADR'S NO.																			



NOTE 1. 전선의 색상은 다음과 같다.

- 1) 흑색 : 교류 및 직류 전원선로
- 2) 적색 : 교류 제어회로
- 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
- 4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

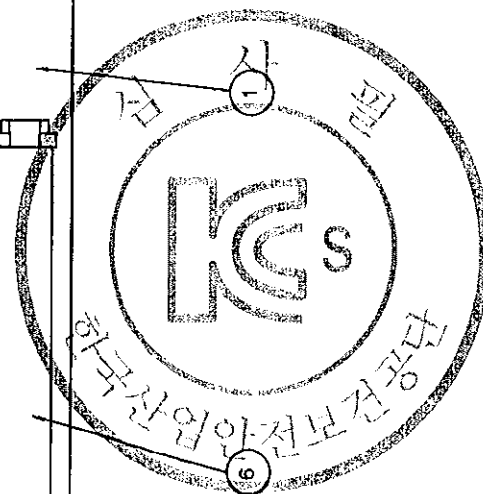
3. 제어용 전선 : 2.5mm KIV/HIV

4. 제직시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

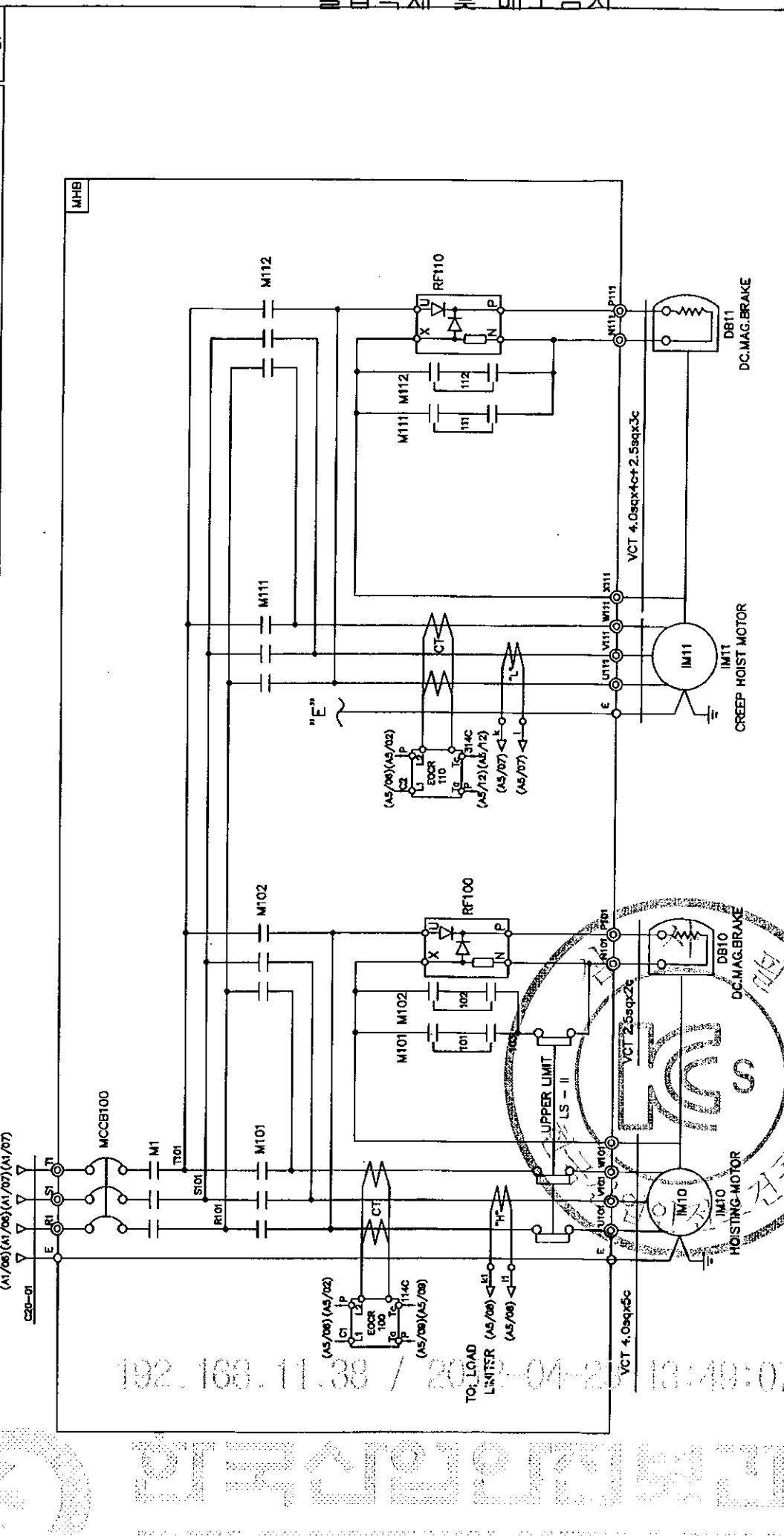
2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						KDC3b152
TRAVERSING POWER CONTROL BOX ARRANGEMENT DRAWING						
DATE	REVISIONS	CHK	APP.			

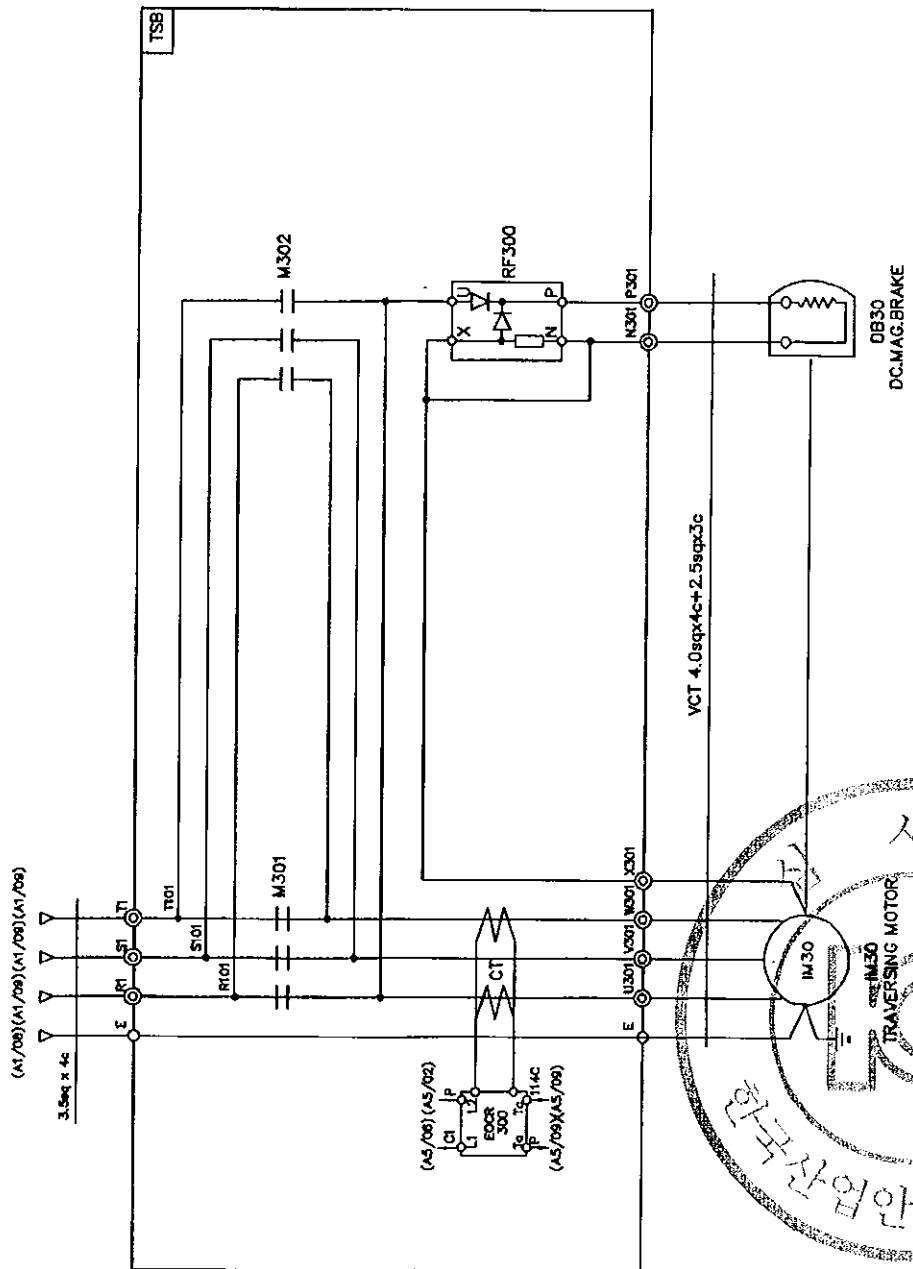


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT										CREEP HOIST MOTION									
HOISTING MOTION										CREEP HOIST MOTION									
C20-01										B1									
ADR'S NO.										B1									



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO. FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	HOIST	IM 10	IM 11	DB10, 11	MCCB100	TR 1	F1, F2, F3	M1	M101, M102	M111, M112	SS-30 EOCR110	RF100	RF110	C20-01
SELECTION	3TON AC 3PH 460V 60Hz	5.5KW x 4P 1.5KW x 4P	1.5KW x 4P	DC 110V	ABE-33AF/20AT	H60/110Vx120Vx100V	1A, 3A	DM-22C	DMC40C	AC 600V 75A EOCR100	SS-05	SR-60	SR-30	VFCT 6sqx4c
MAKER	KUKDONG	KUKDONG	KUKDONG	LS	SHINHAN	SHINHAN	SHINHAN	SHINHAN	DONG-A	KUKDONG	ASAN	ASAN	JUNGHO	DONGIL
DATE														
REVISIONS														
CHK.														
APP.														
DWG. NO	KDC3E51													

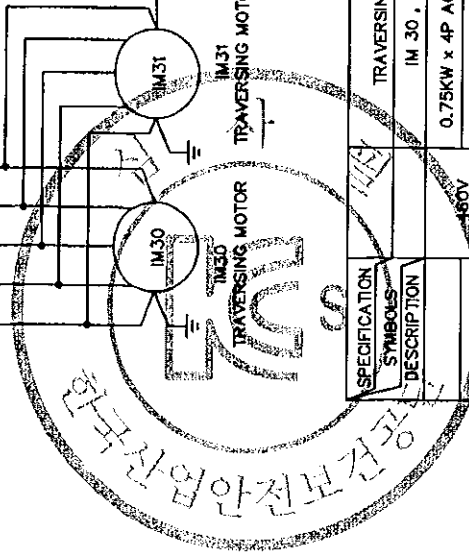
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			CI



SPECIFICATION SYMBOLS	DESCRIPTION	TRAVERSING MOTOR	DC MAG. BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWITCH
IM 30	IM 30	IM 30	DB 30	M301, M302	RF 300	EOCR 300	LS-301, LS-302
0.75KW x 4P AC 3PH 480V 60Hz	0.75KW x 4P AC 3PH 480V 60Hz	0.75KW x 4P AC 3PH 480V 60Hz	DC 100V	DMC22C	SR-30	SS-05	HY - W904
0.5KW x 6P AC 3PH 480V 60Hz	0.5KW x 6P AC 3PH 480V 60Hz	0.5KW x 6P AC 3PH 480V 60Hz	DC 100V	DMC22C	SR-30	SS-05	HY - W904
SELECTION MAKER	KUKDONG	KUKDONG	DONG-A	DONG-A	ASECO		
CUSTOMER							
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT						
REVISIONS	DIAGRAM						
CHK. APP.	KUK DONG HOIST CO., LTD.						
DATE	DWG. NO						
	KDC3E53						
	ORDER NO.						
	DATE						
	SCALE						
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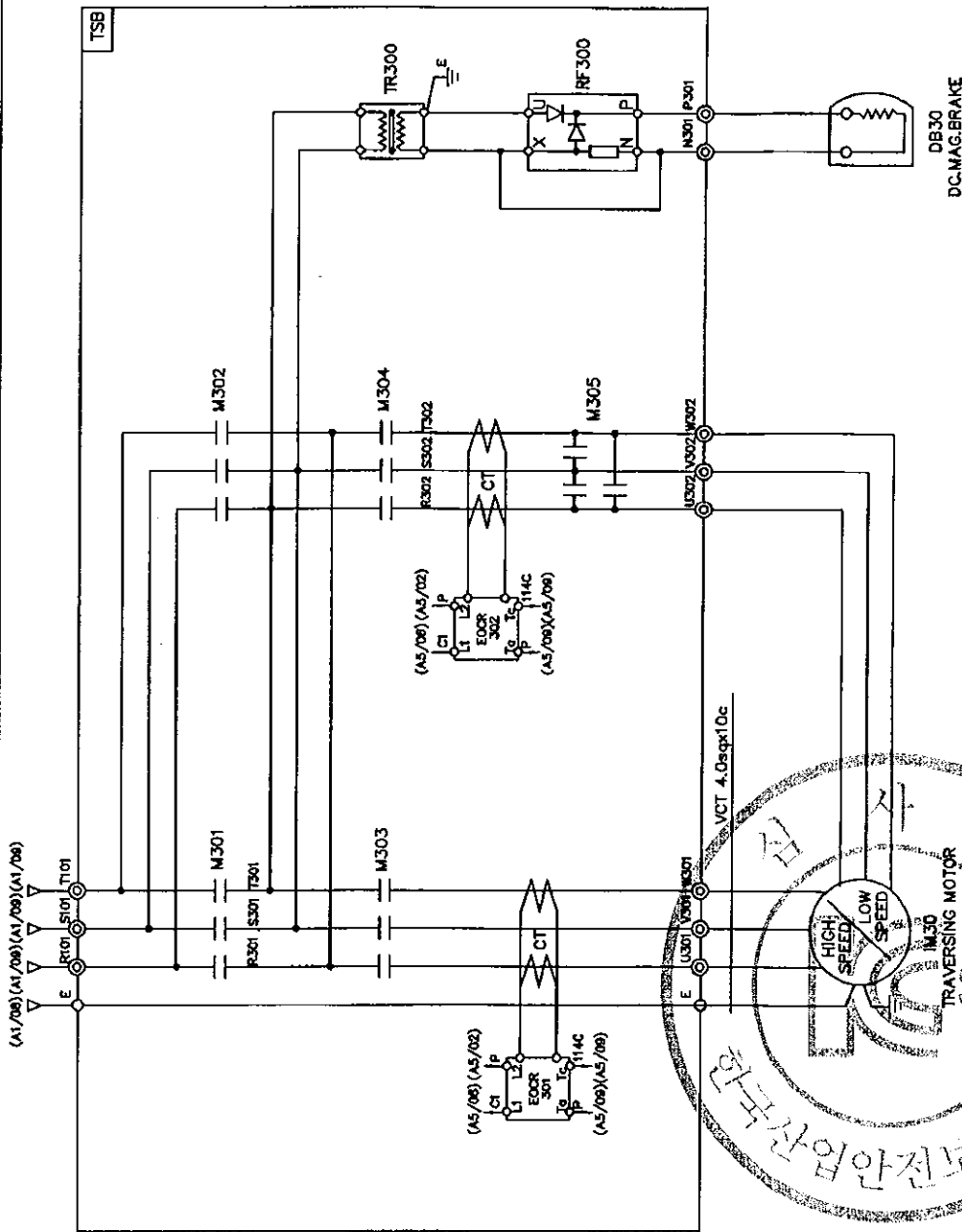


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한국과학기술정보연구원

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2

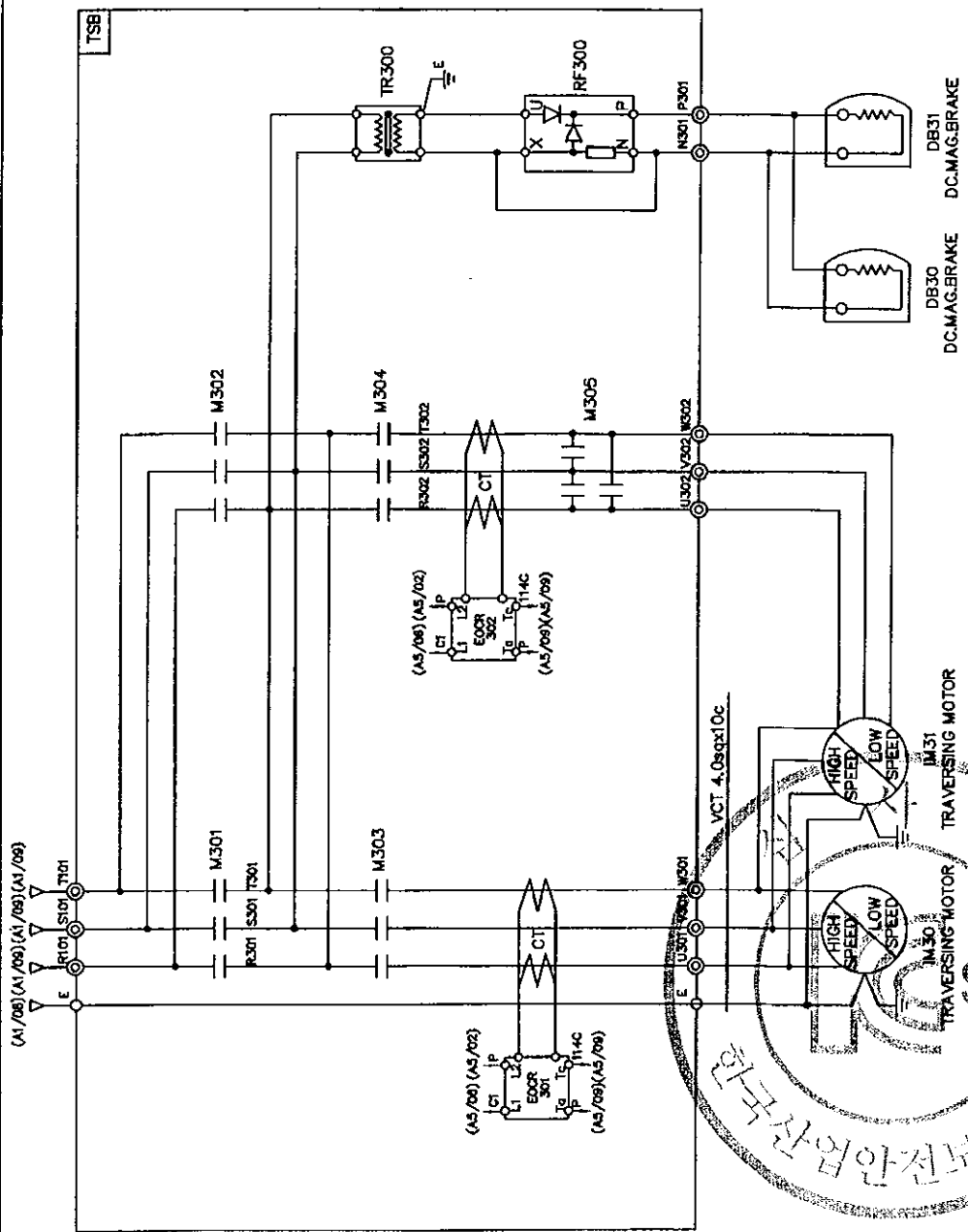


SPECIFICATION		SYMBOLS		DESCRIPTION		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30		460V 50Hz		M301, M302, M303		RF 300		EOCR 301,302		TR300	
DC MAG. BRAKE		DB30		DC 100V		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
SELECTION MAKER		KUKDONG		460V 50Hz		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
CUSTOMER		KUKDONG		DONG-A		ASECO		NONE		NONE		KDC3E55	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		DWG. NO.		KDC3E55		KUKDONG HOIST CO., LTD.		KDC3E55		KDC3E55	
REVISIONS		CHK.		APP.		DATE		DATE		DATE		DATE	
DATE		DATE		DATE		DATE		DATE		DATE		DATE	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERING MOTION																			
ADR'S NO.																			C2



SPECIFICATION SYMBOLS		MAGNET CONTACTOR		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
DESCRIPTION		M301, M302, M303, M304, M305		EOCR 301, 302		TR300	
SELECTION		DC MAG. BRAKE		SS-05		AC480/220V, 300VA	
MAKER		DC MAG. BRAKE		SS-05		AC480/220V, 300VA	
KUKDONG		DONG-A		ASECO		SHINHAN	
CUSTOMER		DRAWING		DESIGN		APPROVED	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		SCALE		DATE	
REVISIONS		CHK. APP.		DWG. NO.		KDC3E56	
DATE		KUKDONG		KUKDONG HOIST CO., LTD.			

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 플
2	CABLE DUCT	-	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

- 1) 흑색 : 교류 및 직류 전선선로
- 2) 적색 : 교류제어회로
- 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
- 4) 녹색 또는 녹색과 황색 혼용 : 접지선
- 5) 청색 : 직류 제어회로

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

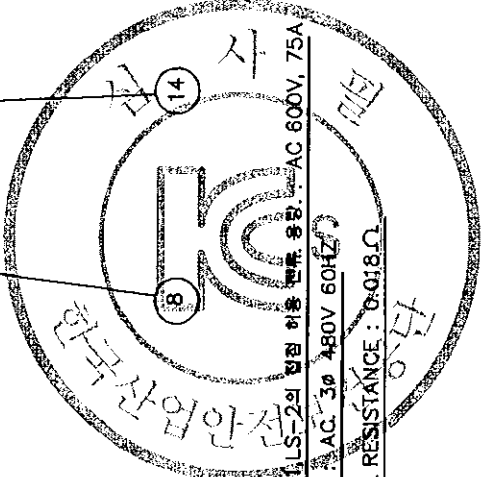
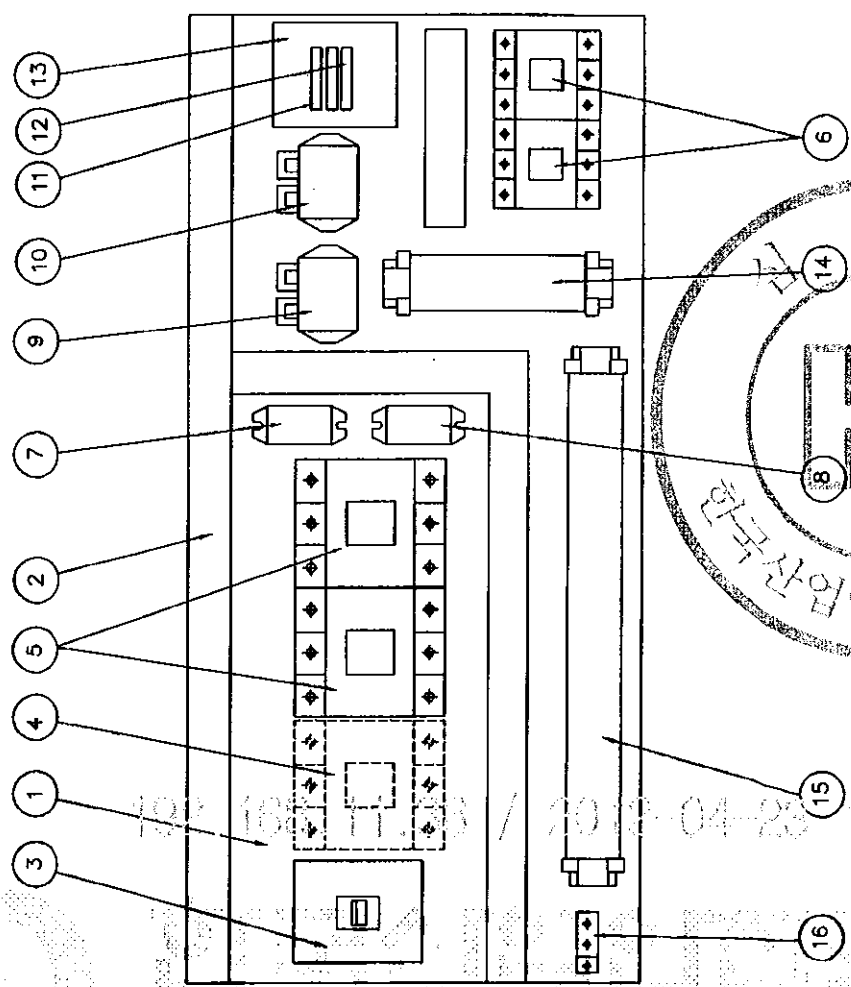
3. 제어용 전선 : 2.5mm KIV,HIV

4. 제라시 다스 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



NOTE

1. UPPER LIMIT LS-1 LS-2의 점접 허용 전류 : AC 600V, 75A

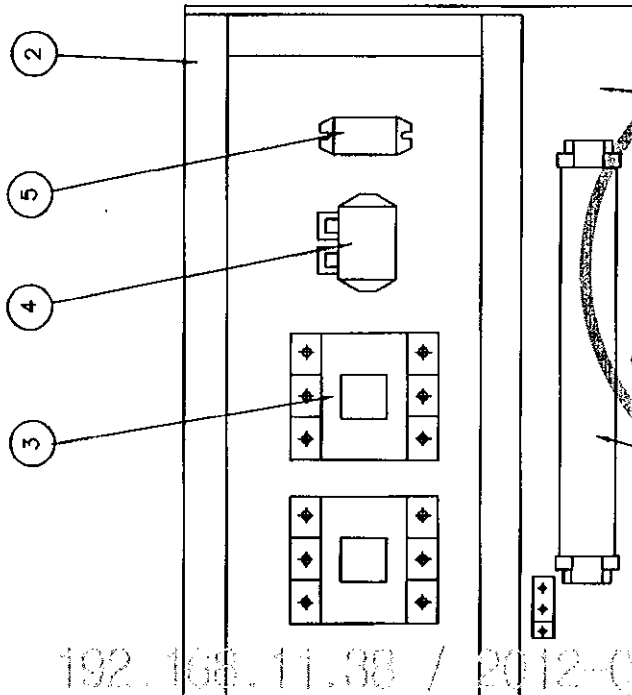
2. POWER SOURCE : AC 3φ 480V 60Hz

3. EARTH TERMINAL RESISTANCE : 0.018Ω



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
						KDC3BA61
HOIST CONTROL BOX						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS	CHK.	APP.				
DATE						

20.
ADR'S NO.



NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	이 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전선선로 5) 청 색 : 지류 제어회로

2) 파색 : 교류제어회로

3) 주황색 : 외부전원역에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

3. 제어용 전선 : 2.5mm KIV,HIV

4. 제어시 다소 변경 될수있음.

5. 외함 기방구조는 다음과 같을것.

1) 외함 기방시 중전부분이 차단되도록 할것.

2) 외함 기방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호기 되어있을것.

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 KUK DONG HOIST CO., LTD.				DWG. NO		KDC3bt62
CUSTOMER TRaversing POWER CONTROL BOX ARRANGEMENT DRAWING				REVISIONS DATE MK		CHK. APP. DATE MK

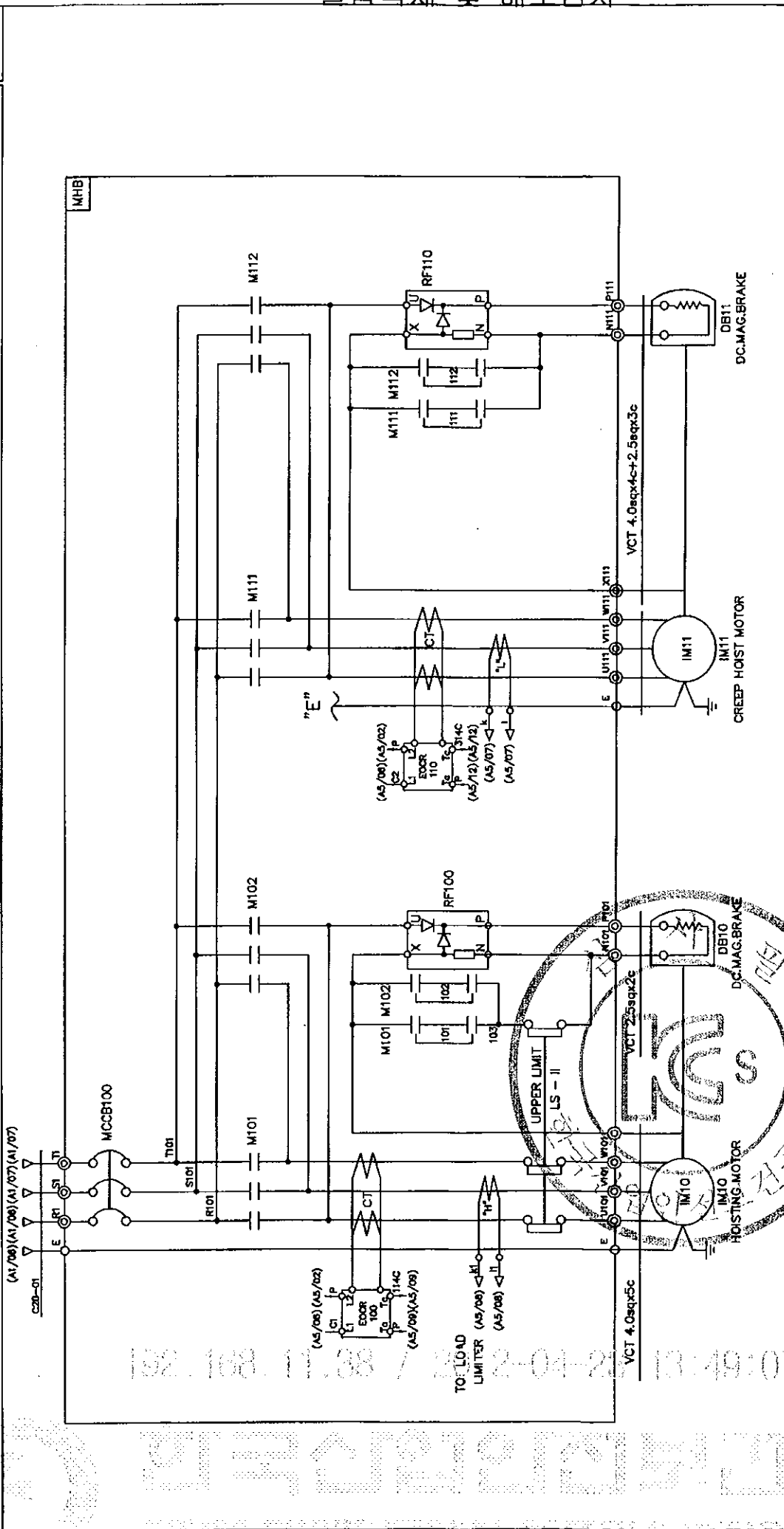


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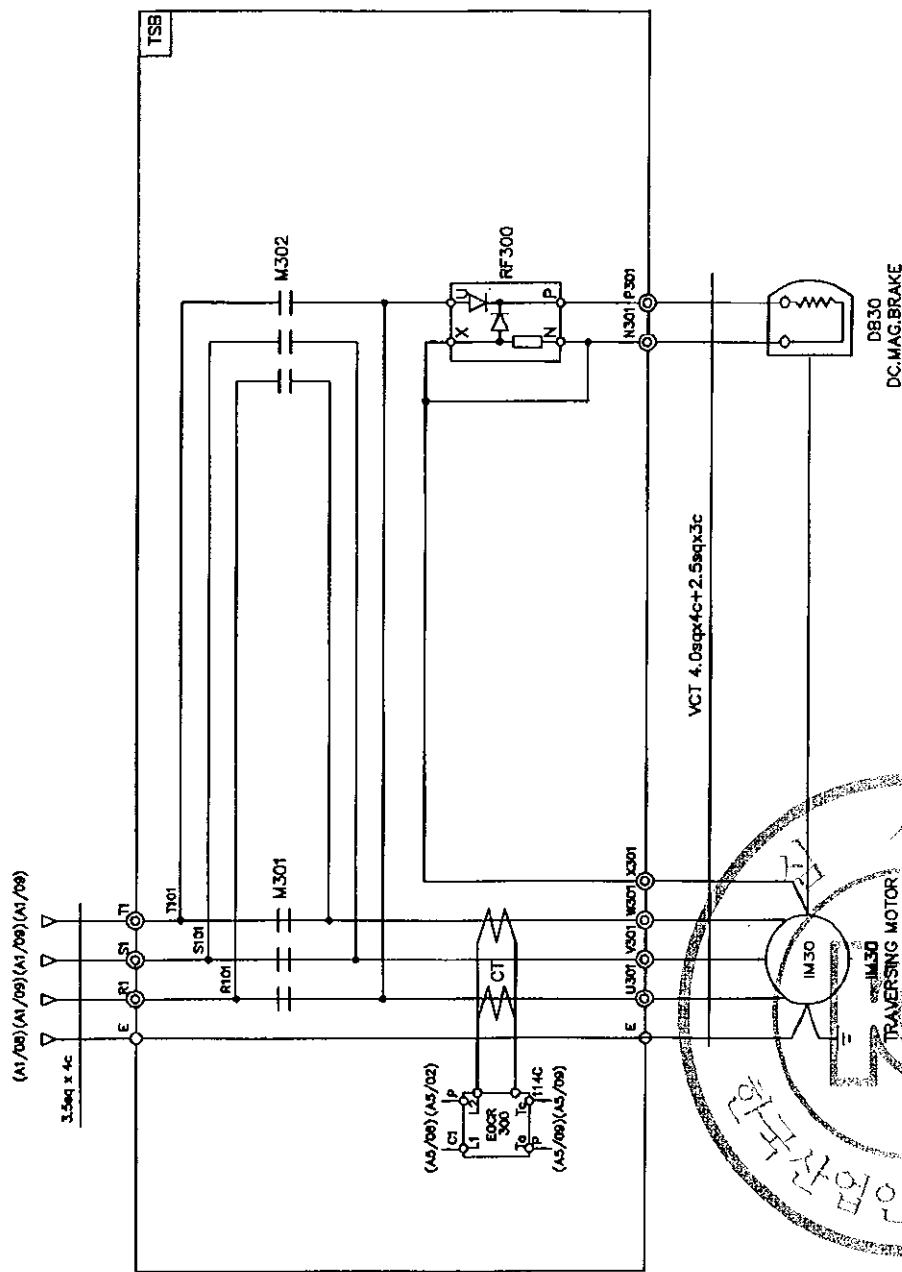
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POWER CIRCUIT										CREEP HOIST MOTION									
HOISTING MOTION										CREEP HOIST MOTION									
(A1/06)(A1/08)(A1/07)(A1/07)										CREEP HOIST MOTION									
C20-01										B1									



SPECIFICATION SYMBOLS	HOISTING POWER		HOISTING MOTOR		DC MAG. BRAKE		NO FUSE BREAKER		TRANSFORMER		FUSE		MAGNET CONTACTOR		UPPER LIMIT		ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER		CABLE	
	HOIST		IM 10		DB10-F1		MCCB100		TR 1		F11,F12		M101,M102		LS-I, LS-II		EOCR100		RF100		JDL-100		C20-01	
SELECTION MAKER	3TON AC 3PH 480V 60Hz		5.5KW 240V 1.5KVA		DC 100V		ABE-33AF/20AT		480/110V/120V/100VA		1A 3A		DMC40C		AC 600V 75A		SS-30		SR-60		JDL-100		VFCT 6.0sqx4C	
	KUKDONG		KUKDONG		KUKDONG		KUKDONG		SHINHAN		-		DONG-A		KUKDONG				ASAN		JUNGHO		DONGIL	
			CUSTOMER																					
			DRAWING																					
			TITLE		CREEP HOISTING POWER CONTROL CIRCUIT																			
			REVISIONS		CHK APP.		DIAGRAM																	
			DATE		KDC3E62		KDC3E62																	
			DWG. NO.		KDC3E62		KDC3E62																	
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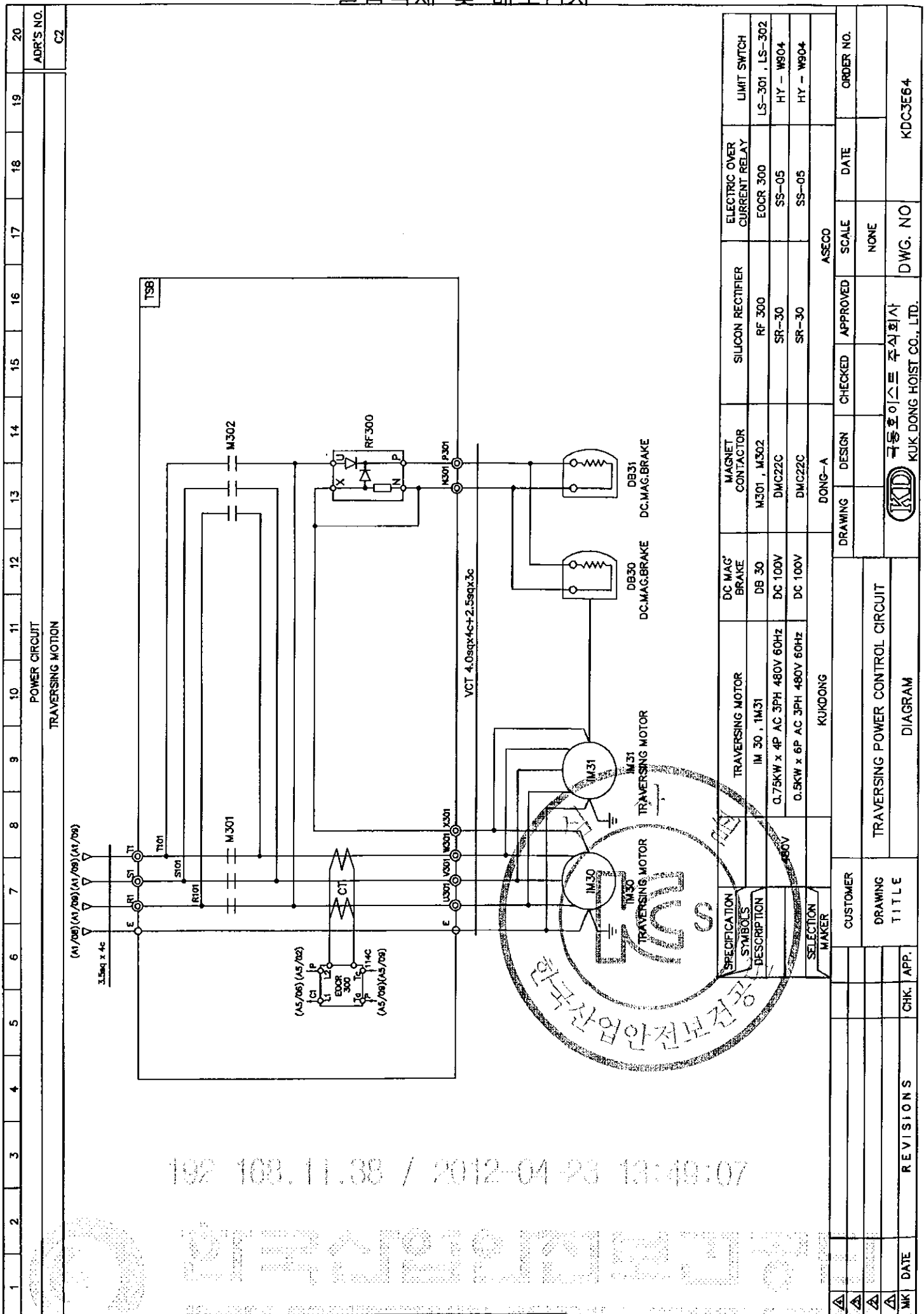
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POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C1



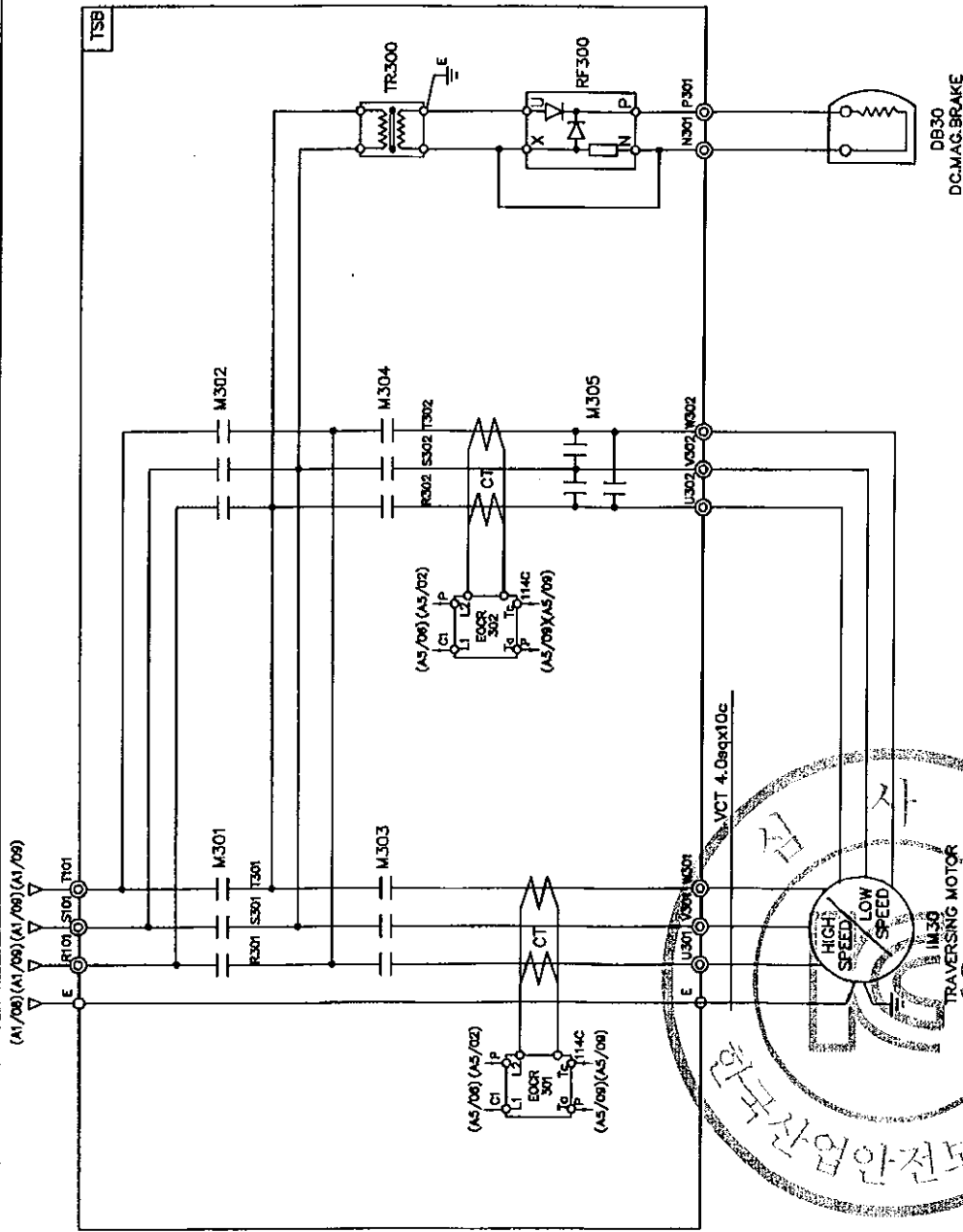
SPECIFICATION SYMBOLS		IM 30		DC MAG. BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		LIMIT SWITCH	
DESCRIPTION		TRAVERSING MOTOR		DB 30		M301, M302		RF 300		EOCR 300		LS-301, LS-302	
SELECTION		0.75KW x 4P AC 3PH 480V 60Hz		DC 100V		DMC22C		SR-30		SS-05		HY - W804	
MAKER		KUKDONG		DC 100V		DMC22C		SR-30		SS-05		HY - W804	
CUSTOMER		KUKDONG		DONG-A		ASECO		DATE		SCALE		ORDER NO.	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		DIAGRAM		DWG. NO		KDC3E63		KUK DONG HOIST CO., LTD.			
REVISIONS		CHK. APP.		DATE									

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POWER CIRCUIT																			ADR'S NO.
TRAVERSING MOTION																			C2

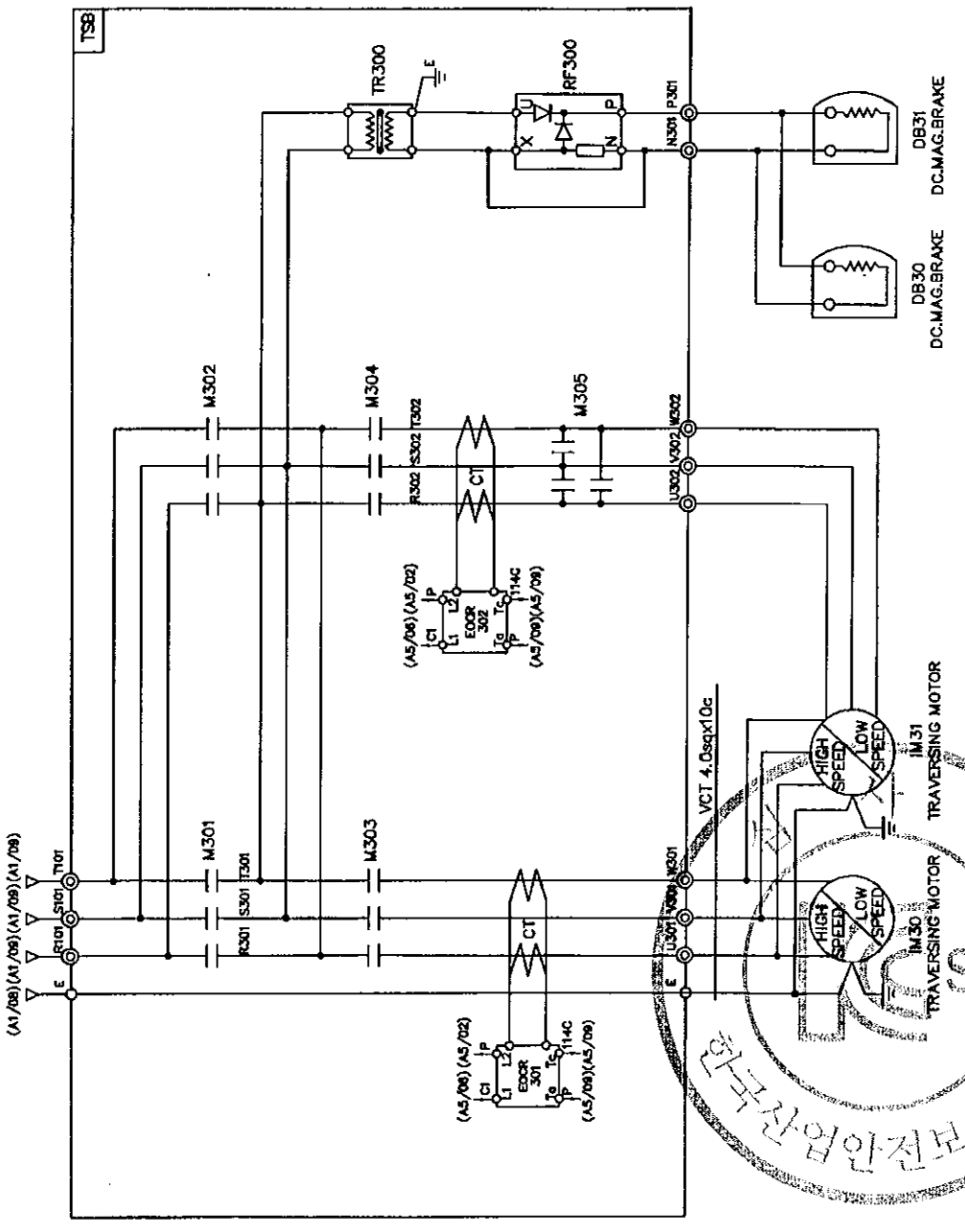


SPECIFICATION SYMBOLS		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
DESCRIPTION		DC MAG' BRAKE		M301, M302, M303, M304, M305		EOCR 301, 302		TR300	
480V		DB30		DMC22C		SS-05		AC480/220V, 300VA	
480V		DC 100V		DMC22C		SS-05		AC480/220V, 300VA	
480V		DC 100V		DMC22C		SS-05		AC480/220V, 300VA	
SELECTION MAKER		KUKDONG		DONG-A		ASECO		SHINHAN	
CUSTOMER		DRAWING		DESIGN		CHECKED		APPROVED	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		SCALE		DATE		ORDER NO.	
REVISIONS		CHK. APP.		DWG. NO		KDC3E65			
DATE		KUKDONG HOIST CO., LTD.							

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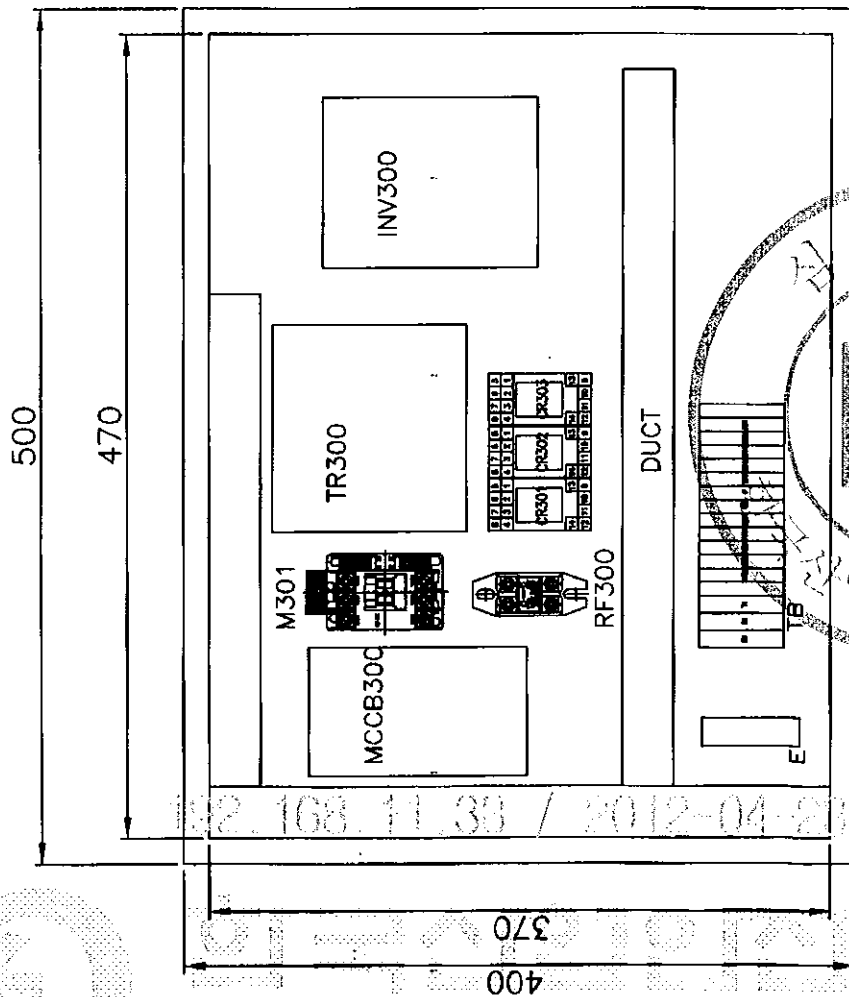
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POWER CIRCUIT																			
TRaversing Motion																			
C2																			ADR'S NO.



SPECIFICATION		SYMBOLS		DESCRIPTION		DC MAG. BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30		IM 30		DB30, DB31		M301, M302, M303		RF 300		EOCR 301, 302		TR300	
TRAVERSING MOTOR		IM 31		IM 31		DC 100V		DMC22C		SR-30		SS-05		AC480/220V, 300VA	
TRAVERSING MOTOR		IM 32		IM 32		DC 100V		DMC22C		SR-30		SS-05		AC480/220V, 300VA	
SELECTION MAKER		KUKDONG		KUKDONG		DONG-A		DONG-A		ASECO		SHINHAN			
CUSTOMER															
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT													
CHK. APP.															
REVISIONS															
DATE															
DWG. NO															
KDC3E66															

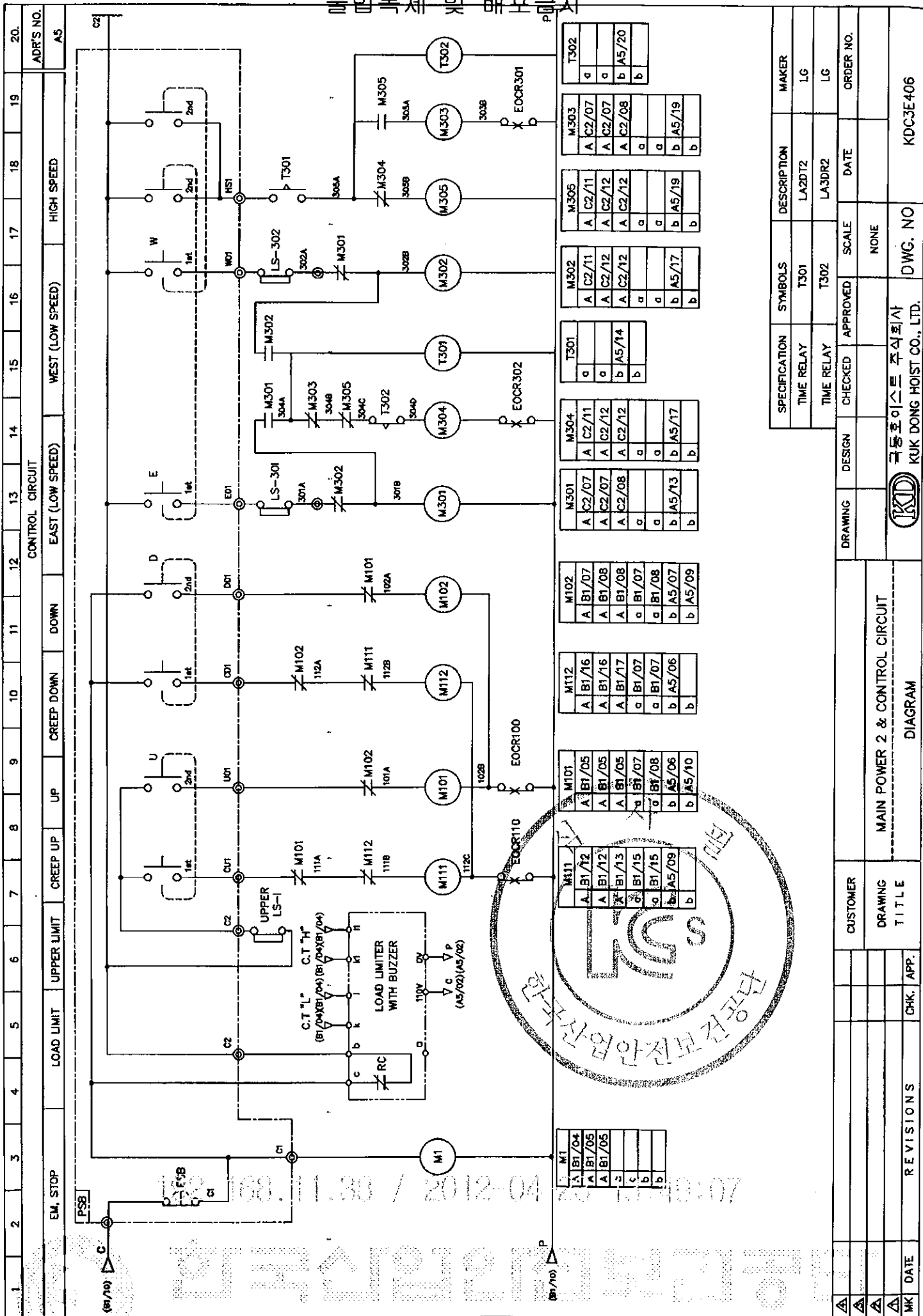
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2	출판	SS400	1					
1	T/S BOX	PUR	1					
NO.	DESCRIPTION	M/TL	QTY	SUB TOTAL	SUB WEIGHT(KG)	TOTAL	REMARKS.	
PROJECT				DATE		DIM		
						mm		
TITLE		T/S CONTROL PANEL(INVERTER)		SCALE		PROJECTION		
						3rd		
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING				
 KUD KUK DONG HOIST CO., LTD.				SHEET No.		DWC No.		
						KD2E1001		

11	EARTH BUS BAR	PUR	1		
10	DUCT	PUR	1		
9	TERMINAL BLOCK	PUR	1		
8	INVERTER	PUR	1		
7	TR	PUR	1		
6	RELAY & SCOKET	PUR	1		
5	RF	PUR	1		
4	MC	PUR	1		
3	MCCB	PUR	1		



MAIN POWER 2 & CONTROL CIRCUIT

DIAGRAM

CUSTOMER

DRAWING TITLE

REVISIONS

CHK. APP.

DATE

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SPECIFICATION

TIME RELAY

TIME RELAY

SYMBOLS

T301

T302

DESCRIPTION

LA2DT2

LA3DR2

MAKER

LG

LG

ORDER NO.

DATE

SCALE

APPROVED

CHECKED

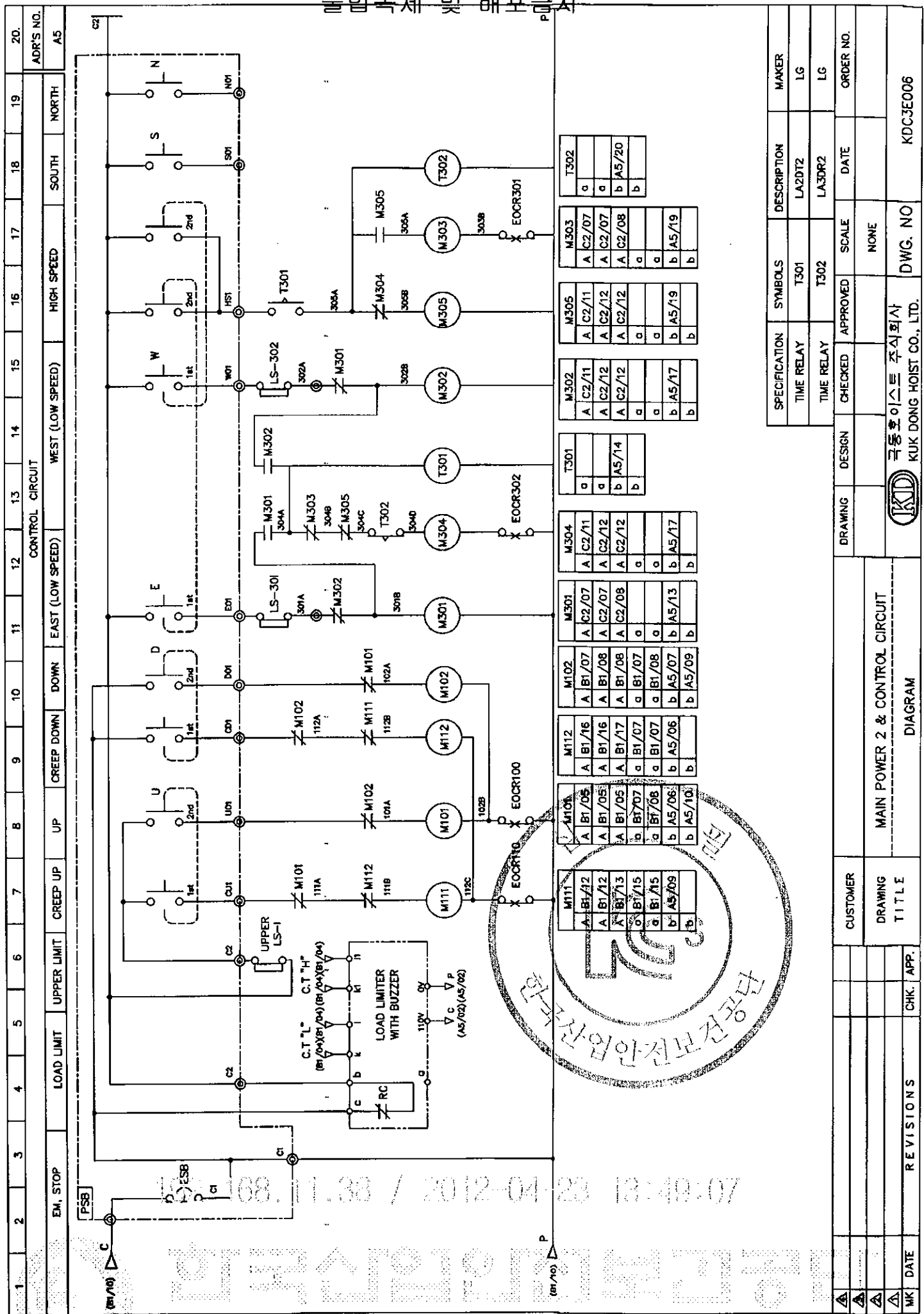
DESIGN

DWG. NO

KDC3E406

KUK DONG HOIST CO., LTD.

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SPECIFICATION	SYMBOLS	DESCRIPTION	MAKER
TIME RELAY	T301	LA2DT2	LG
TIME RELAY	T302	LA3DR2	LG

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

CUSTOMER	DRAWING TITLE	REVISIONS	CHK.	APP.
	MAIN POWER 2 & CONTROL CIRCUIT			

DATE	REVISIONS	CHK.	APP.

DATE	REVISIONS	CHK.	APP.

KDC3E006

DWG. NO

극동호이스트 주식회사

KUK DONG HOIST CO., LTD.

DIAGRAM

CUSTOMER

DRAWING TITLE

REVISIONS

CHK.

APP.

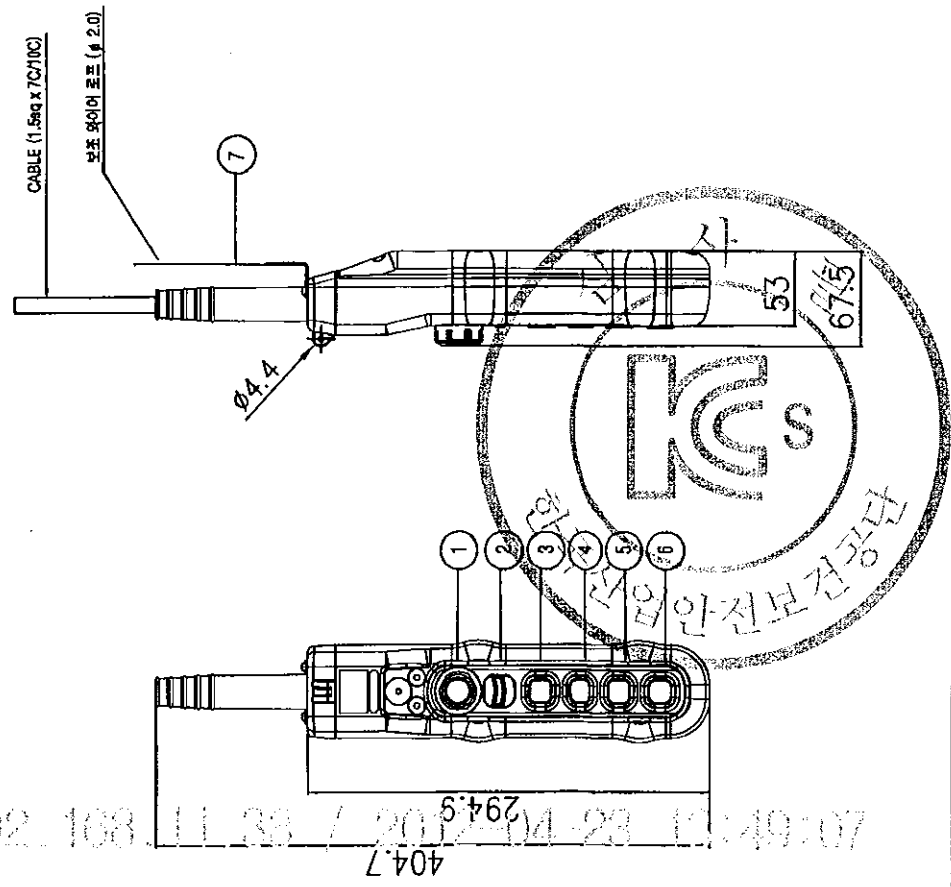
DATE

REVISIONS

색상	구분	조작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색 - 흑색		지정된의미없음	기타

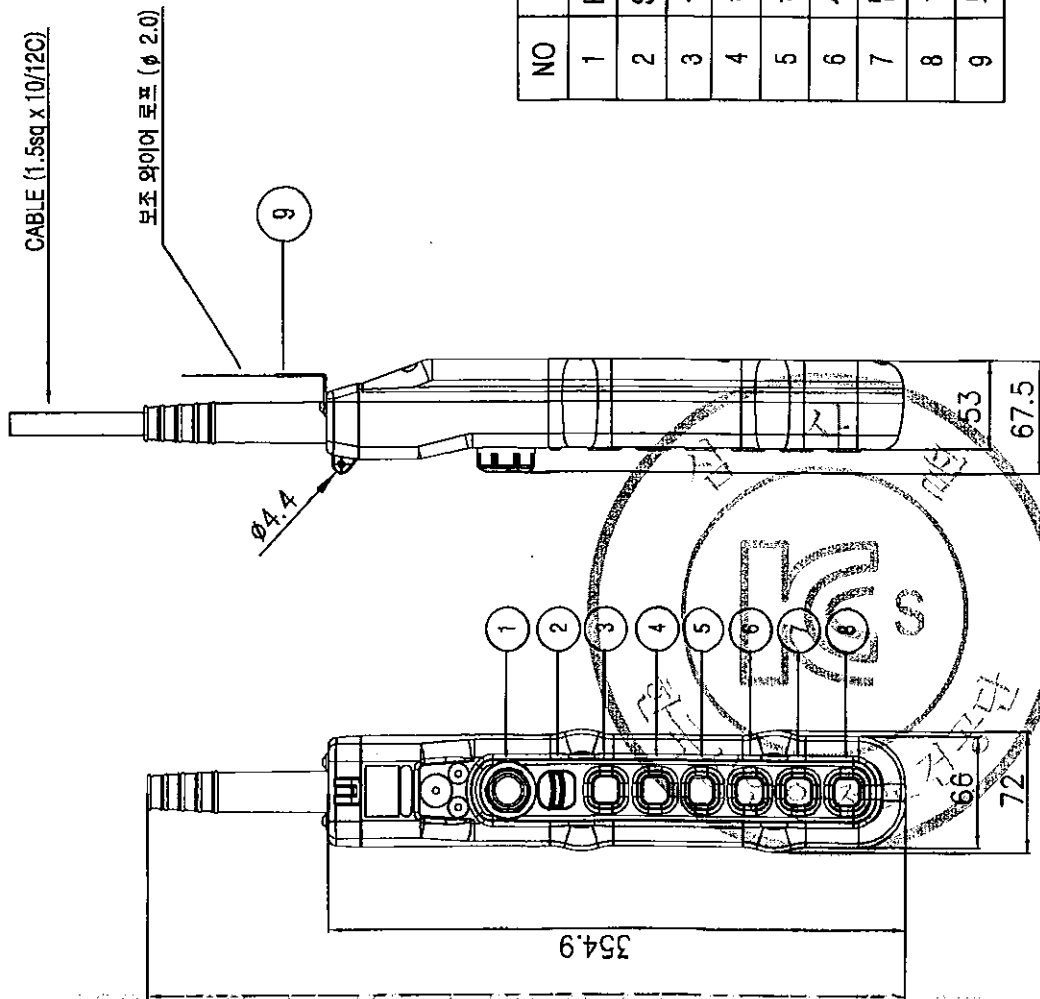
* MATERIAL : POLYCARBONATE(PLASTIC)
* BODY COLOR : YELLOW, BLACK
* IP : 55 이상

NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			
3	상	1PUSH BUTTON 2STEP		BLACK
4	하	1PUSH BUTTON 2STEP		
5	동(전)	1PUSH BUTTON 1STEP		
6	서(후)	1PUSH BUTTON 1STEP		
7	보조 와이어	φ 2.0		



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색상	구분	조작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색-흑색		지정된의미없음	기타

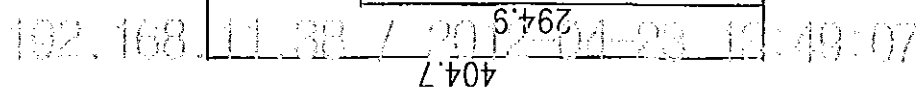
- * MATERIAL : POLYCARBONATE(PLASTIC)
- * BODY COLOR : YELLOW, BLACK
- * IP : 55 이상

NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			BLACK
3	상	1PUSH BUTTON 2STEP		
4	하	1PUSH BUTTON 2STEP		
5	등 (좌)	1PUSH BUTTON 1STEP		
6	서 (우)	1PUSH BUTTON 1STEP		
7	남 (전)	1PUSH BUTTON 1STEP		
8	북 (후)	1PUSH BUTTON 1STEP		
9	보조 WIRE	φ 2.0		

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
PENDANT PUSH BUTTON SWITCH					
LAY OUT					
KUK DONG HOIST CO., LTD. DWG. NO					

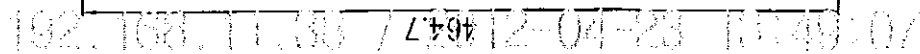
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* MATERIAL : POLYCARBONATE(PLASTIC)
* BODY COLOR : YELLOW, BLACK
* IP : 55 이상

<u>A</u>					CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
<u>A</u>					DRAWING TITLE	PENDANT PUSH BUTTON SWITCH						
<u>A</u>						LAY OUT						
MK	DATE	REVISIONS	CHK.	APP.								
					KUK DONG HOIST CO., LTD. DWG. NO							

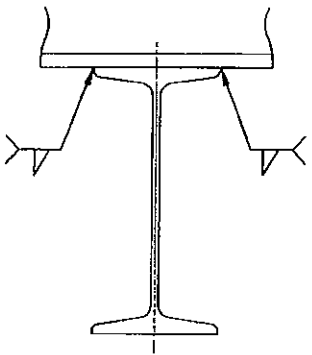
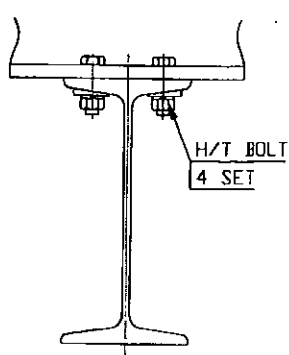
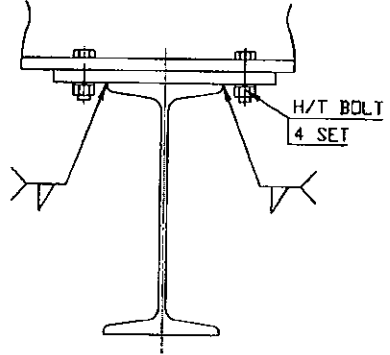


NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	BLACK
2	SPARE			
3	상	1PUSH BUTTON 2STEP		
4	하	1PUSH BUTTON 2STEP		
5	동 (좌)	1PUSH BUTTON 2STEP		
6	서 (우)	1PUSH BUTTON 2STEP		
7	남 (전)	1PUSH BUTTON 1STEP		
8	북 (후)	1PUSH BUTTON 1STEP		
9	보조 WIRE			

[illegible]

I-4. I-BEAM의 고정방법 및 사양

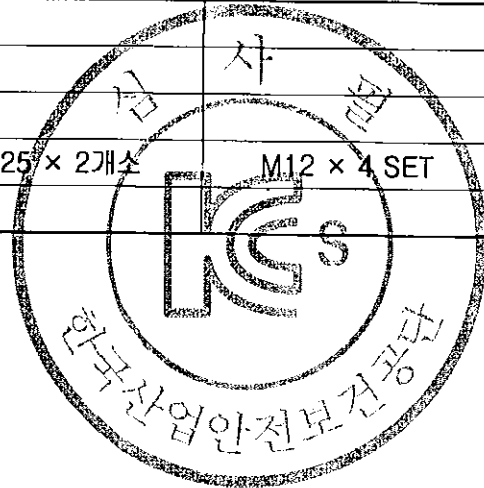
1. I-BEAM의 고정방법

용접구조	BOLT 체결구조	복합구조
	 H/T BOLT 4 SET	 H/T BOLT 4 SET

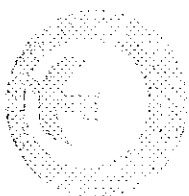
2. 기본조건 및 사양

- * 동하중에 의한 용접이음의 허용응력 (필릿용접 효율 80% 포함) : 560 kg/cm²
- * H/T BOLT의 허용 인장응력 : 2500kg/cm²

정격하중 (TON)	용접구조 (mm)		BOLT 체결구조
	용접두께	최소 용접길이	최소 BOLT SIZE
→ 3.0	6	125 × 2개소	M12 × 4 SET



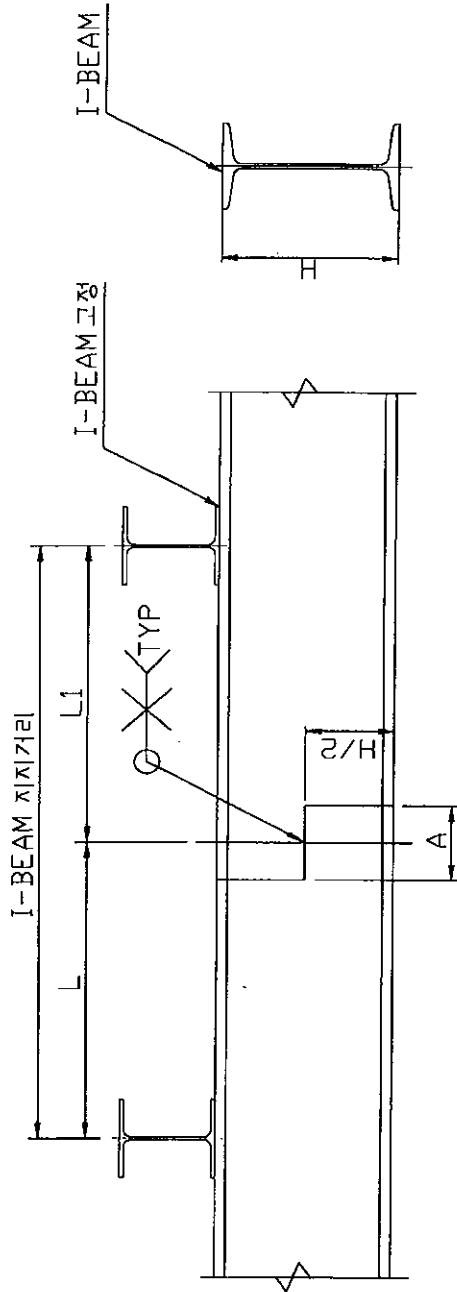
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3. I-BEAM의 연결방법



구조 (단위 : mm)

* I-BEAM의 용접 연결부위는 I-BEAM 고정 지점과 동일 선상에 위치하지 않도록 한다.

* 고정-지점 사이 중앙에 용접 연결부위가 일치하지 않도록 한다.



사용 I-BEAM	A	H	H/2	최대 지지거리				
				1 T	2 T	2.8 T	3 T	5 T
250×125×7.5/12.5	200	250	125				3700	
300×150×10/18.5	300	300	150				5800	
350×150×9/15	300	350	175				6000	
400×150×10/18	300	400	200				7700	
450×175×11/20	300	450	225				9900	

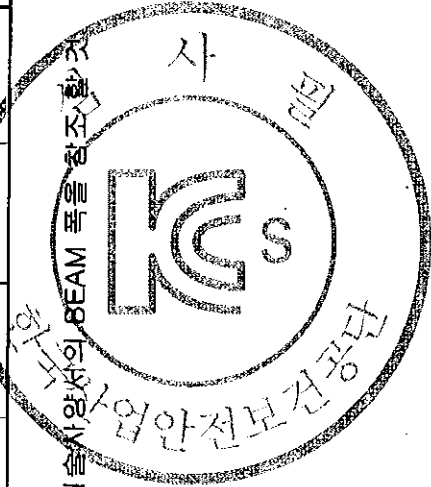
단, 사용 I-BEAM은 MODEL별 기술사항서의 BEAM 폭을 참조 할 것

* I-BEAM 고정 방법 중 용접 구조의 용접 강도

$$\text{용접부 강도 } \sigma = 1.14 \times \frac{\text{I-BEAM자중} + 1.25 \times (\text{정격하중} + \text{Hoist자중})}{0.707 \times \text{용접두께} \times \text{용접길이}} \leq 560 \text{ kg/cm}^2$$

↓

I-BEAM 규격	I-BEAM 자중 (kg/m)	용접 두께 (cm)	최소 용접길이 (cm)	1 T		2 T		2.8 T		3 T		5 T	
				HOIST 자중 (kg)	용접강도 (kg/cm ²)	HOIST 자중 (kg)	용접강도 (kg/cm ²)	HOIST 자중 (kg)	용접강도 (kg/cm ²)	HOIST 자중 (kg)	용접강도 (kg/cm ²)	HOIST 자중 (kg)	용접강도 (kg/cm ²)
250x125x7.5/12.5	38.3	0.6	12.5x2										
300x150x10/18.5	65.5	0.6	15.0x2							460	469.0		
350x150x19/15	58.5	0.6	15.0x2							460	393.3		
400x150x10/18	72.0	0.8	15.0x2							460	392.7		
450x175x11/20	91.7	0.8	17.5x2							460	393.9		
										460	339.1		



사용 I-BEAM은 MODEL 별 기술사항서의 BEAM 폭을 참조하십시오

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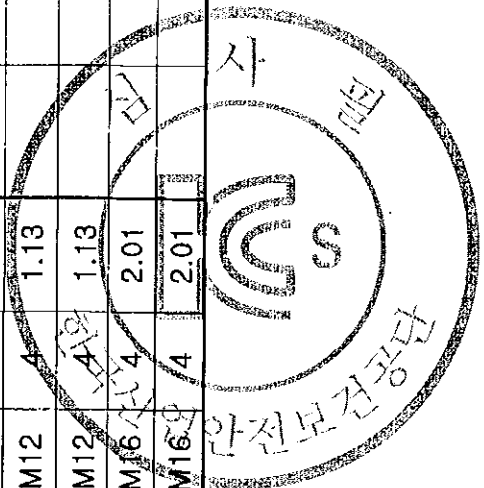
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★ I-BEAM 고정 방법 중 BOLT 고정 강도

$$\text{BOLT 강도 } \alpha = 1.14 \frac{\text{I-BEAM자중} + 1.25 \times (\text{정격하중} + \text{Hoist자중})}{\text{BOLT 단면적} \times \text{BOLT 수}} \leq 2500 \text{ kg/cm}^2$$



I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규격	BOLT 수	BOLT 단면적 (cm ²)	1 T		2 T		2.8 T		3 T		5 T	
					HOIST 자중(kg)	BOLT강도 (kg/cm ²)	HOIST 자중(kg)	BOLT강도 (kg/cm ²)	HOIST 자중(kg)	BOLT강도 (kg/cm ²)	HOIST 자중(kg)	BOLT강도 (kg/cm ²)	HOIST 자중(kg)	BOLT강도 (kg/cm ²)
250×125×7.5/12.5	38.3	M12	4	1.13										
300×150×10/18.5	65.5	M12	4	1.13							460	1100.5		
350×150×19/15	58.5	M12	4	1.13							460	1107.3		
400×150×10/18	72.0	M16	4	2.01							460	1105.6		
450×175×11/20	91.7	M16	4	2.01							460	623.5		
											460	626.2		



I-5. I-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

$$\text{BEAM 자중에 의한 MOMENT : } M_s = \frac{M \times \text{I-BEAM 자중} \times (\text{지지거리})^2}{8} \quad \text{kg-cm}$$

$$M_s = \frac{1.05 \times 38.3 \times 370^2}{8} = 6882 \quad \text{kg-cm}$$

$$\text{이동하중에 의한 MOMENT : } M_d = F \times \frac{(\text{정격하중} + \text{호이스트 자중}) \times \text{지지거리}}{4} \quad \text{kg-cm}$$

$$M_d = 1.254 \times \frac{(3000 + 460) \times 370}{4} = 401343 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 460 \text{ KG} \quad \text{용 량 : } 3000 \text{ KG}$$

$$\text{* DYNAMIC COEFFICIENT : } F = 1.254$$

$$\text{* STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 6882 + 401343 = 408224 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

$$\text{풍하중에 의한 MOMENT : } M_w = \frac{\text{풍하중}(W) \times \text{지지거리}}{2}$$

$$M_w = \frac{35.46 \times 370}{2} = 7206.5 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 1.372 = 38.95 \text{ (kg)} \end{aligned}$$

$$\text{속도압 : } q = 8.5 \times \sqrt[4]{h} \text{ (kg/m}^2\text{)} = 8.5 \times \sqrt[4]{60} = 23.66 \text{ (kg/m}^2\text{)}$$

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 0.925 + 0.447 = 1.372 \text{ (m}^2\text{)} \end{aligned}$$

$$\text{* 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
250×125×t7.5/12.5	38.3	370	6882	401343	408224	38.95	7206.5	1.37
300×150×t10/18.5	65.5	580	28920	629132	658052	62.09	18007.1	2.187
350×150×t9/15	53.5	600	27641	650820	678467	52.81	15842.7	1.87
400×150×t10/18	72.0	770	56029	835227	891256	100.14	38553.4	3.527
450×175×t11/20	91.7	990	117961	1073863	1191824	75.81	37524.3	2.67

단, 사용 I-BEAM은 MODEL별 기술사양서의 BEAM 폭을 참조 할 것

5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{408224}{414} = 986.0 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{7206.5}{53.9} = 133.7 \quad (\text{kg/cm}^2) \end{aligned}$$

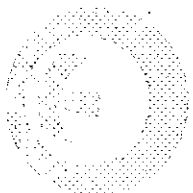
2. 풍하중에 의한 굽힘 응력

$$* \Sigma \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면 계수 Z_x	단면 계수 Z_y	ΣM_v (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
⇒ 250×125×t7.5/12.5	414	53.9	408224	7206.5	986.0	133.7	1119.8
300×150×t10/18.5	849	118	658052	18007.1	775.1	152.6	927.7
350×150×t9/15	870	93.5	678467	15842.7	779.8	169.4	949.3
400×150×t10/18	1200	115	891256	38553.4	742.7	335.2	1078.0
450×175×t11/20	1740	173	1191824	68892.9	685.0	218.9	901.9

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 38.3 \times 370^3}{384 \times 2100000 \times 5180} = 0.0232 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(3000 + 460) \times 370^3}{48 \times 2100000 \times 5180} = 0.336 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.336}{370} = \frac{1}{1102} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0232 + 0.336}{370} = \frac{1}{1031} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.336	1 / 1102	1 / 1031
300×150×t10/18.5	12700	65.5	0.0624	0.527	1 / 1100	1 / 983
350×150×t9/15	15200	58.5	0.0515	0.488	1 / 1230	1 / 1112
400×150×t10/18	24100	72	0.0846	0.650	1 / 1184	1 / 1048
450×175×t11/20	39200	91.7	0.1407	0.850	1 / 1165	1 / 1000

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-6. I-BEAM의 최대 지지거리

6-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

$$\text{BEAM 자중에 의한 MOMENT : } M_s = \frac{M \times \text{I-BEAM 자중} \times (\text{지지거리})^2}{8} \quad \text{kg-cm}$$

$$M_s = \frac{1.05 \times 65.5 \times 580^2}{8} = 28920 \quad \text{kg-cm}$$

$$\text{이동하중에 의한 MOMENT : } M_d = F \times \frac{(\text{점격하중} + \text{호이스트 자중}) \times \text{지지거리}}{4} \quad \text{kg-cm}$$

$$M_d = 1.254 \times \frac{(3000 + 460) \times 580}{4} = 629132 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 460 \text{ KG} \quad \text{용량 : } 3000 \text{ KG}$$

$$\text{* DYNAMIC COEFFICIENT : } F = 1.254$$

$$\text{* STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 28920 + 629132 = 658052 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

$$\text{풍하중에 의한 MOMENT : } M_w = \frac{\text{풍하중}(W) \times \text{지지거리}}{2}$$

$$M_w = \frac{58.6 \times 580}{2} = 18007.1 \quad \text{kg-cm}$$

$$\text{풍하중 : } W = \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \quad (\text{kg})$$

$$= 23.66 \times 1.2 \times 2.187 = 62.09 \quad (\text{kg})$$

$$\text{속도압 : } q = 8.5 \times \sqrt[4]{h} \quad (\text{kg/m}^2) = 8.5 \times \sqrt[4]{60} = 23.66 \quad (\text{kg/m}^2)$$

$$\text{속도계수 : } C = 1.2 \quad (\text{크레인 제작기준 참조})$$

$$\text{풍압을 받는 면적 } A = \text{I-BEAM의 면적} + \text{HOIST의 면적} \quad (\text{m}^2)$$

$$= 1.74 + 0.447 = 2.187 \quad (\text{m}^2)$$

$$\text{* 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
250×125×t7.5/12.5	38.3	370	6882	401343	408224	38.95	7206.5	1.37
300×150×t10/18.5	65.5	580	28920	629132	658052	62.09	18007.1	2.187
350×150×t9/15	58.5	600	27641	650826	678467	52.81	15842.7	1.87
400×150×t10/18	72.0	770	56029	835227	891256	100.05	38519.3	3.527
450×175×t11/20	91.7	990	117961	1073863	1191824	75.81	37524.3	2.67

단, 사용 I-BEAM은 MODEL별 기술사항서의 BEAM 폭을 참조 할 것

6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{658052}{849} = 775.1 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{18007.1}{118} = 152.6 \quad (\text{kg/cm}^2) \end{aligned}$$

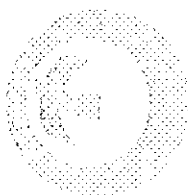
2. 풍하중에 의한 굽힘 응력

$$* \sum \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면 계수 Z_x	단면 계수 Z_y	$\sum M_v$ (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\sum \sigma$ (kg/cm ²)
250×125×t7.5/12.5	414	53.9	408224	7206.5	986.0	133.7	1119.8
→ 300×150×t10/18.5	849	118	658052	18007.1	775.1	152.6	927.7
350×150×t9/15	870	93.5	678467	15842.7	779.8	169.4	949.3
400×150×t10/18	1200	115	891256	38519.3	742.7	335.0	1077.7
450×175×t11/20	1740	173	1191824	37524.3	685.0	216.9	901.9

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 65.5 \times 580^3}{384 \times 2100000 \times 5180} = 0.0624 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(3000 + 460) \times 580^3}{48 \times 2100000 \times 5180} = 0.527 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} &\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000} \\ &= \frac{0.527}{580} = \frac{1}{1100} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} &\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800} \\ &= \frac{0.0624 + 0.527}{580} = \frac{1}{983} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.336	1 / 1102	1 / 1031
300×150×t10/18.5	12700	65.5	0.0624	0.527	1 / 1100	1 / 983
350×150×t9/15	15200	58.5	0.0515	0.488	1 / 1230	1 / 1112
400×150×t10/18	24100	72	0.0846	0.650	1 / 1184	1 / 1048
450×175×t11/20	33200	91.5	0.1407	0.850	1 / 1155	1 / 1000

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-7. I-BEAM의 최대 지지거리

7-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

$$\text{BEAM 자중에 의한 MOMENT : } M_s = \frac{M \times \text{I-BEAM 자중} \times (\text{지지거리})^2}{8} \quad \text{kg-cm}$$

$$M_s = \frac{1.05 \times 58.5 \times 600^2}{8} = 27641 \quad \text{kg-cm}$$

$$\text{이동하중에 의한 MOMENT : } M_d = F \times \frac{(\text{정격하중} + \text{호이스트 자중}) \times \text{지지거리}}{4} \quad \text{kg-cm}$$

$$M_d = 1.254 \times \frac{(3000 + 460) \times 600}{4} = 650826 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 460 \text{ KG} \quad \text{용량 : } 3000 \text{ KG}$$

$$\text{* DYNAMIC COEFFICIENT : } F = 1.254$$

$$\text{* STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 27641 + 650826 = 678467 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

$$\text{풍하중에 의한 MOMENT : } M_w = \frac{\text{풍하중}(W) \times \text{지지거리}}{2}$$

$$M_w = \frac{51.11 \times 600}{2} = 15842.7 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 1.86 = 52.81 \text{ (kg)} \end{aligned}$$

$$\text{속도압 : } q = 8.5 \times \sqrt[4]{h} \text{ (kg/m}^2\text{)} = 8.5 \times \sqrt[4]{60} = 23.66 \text{ (kg/m}^2\text{)}$$

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 1.41 + 0.447 = 1.86 \text{ (m}^2\text{)} \end{aligned}$$

$$\text{* 호이스트의 풍압을 받는 면적} \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
250×125×t7.5/12.5	38.3	370	6882	401343	408224	38.95	7206.5	1.37
300×150×t10/18.5	65.5	580	28920	629132	658052	62.09	18007.1	2.187
350×150×t9/15	58.5	600	27641	650826	678467	52.81	15842.7	1.87
400×150×t10/16	72.0	770	56029	835227	891256	100.14	38553.4	3.527
450×175×t11/20	91.7	990	117961	1073863	1191824	75.81	37524.3	2.67

단, 사용 I-BEAM은 MODEL별 기술사양서의 BEAM 폭을 참조 할 것

7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{678467}{870} = 779.8 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{15842.7}{93.5} = 169.4 \quad (\text{kg/cm}^2) \end{aligned}$$

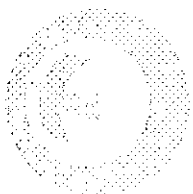
2. 풍하중에 의한 굽힘 응력

$$* \Sigma \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면 계수 Zx	단면 계수 Zy	ΣM_v (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
250×125×t7.5/12.5	414	53.9	408224	7206.5	986.0	133.7	1119.8
300×150×t10/18.5	849	118	658052	18007.1	775.1	152.6	927.7
→ 350×150×t9/15	870	93.5	678467	15842.7	779.8	169.4	949.3
400×150×t10/18	1200	115	891256	38553.4	742.7	335.2	1078.0
450×175×t11/20	1740	173	1191824	37524.3	685.0	216.9	901.9

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 58.5 \times 600^3}{384 \times 2100000 \times 15200} = 0.0515 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(3000 + 460) \times 600^3}{48 \times 2100000 \times 15200} = 0.488 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.488}{600} = \frac{1}{1230} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0515 + 0.488}{600} = \frac{1}{1112} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.336	1 / 1102	1 / 1031
300×150×t10/18.5	12700	65.5	0.0624	0.527	1 / 1100	1 / 983
350×150×t9/15	15200	58.5	0.0515	0.488	1 / 1230	1 / 1112
400×150×t10/16	24100	72	0.0846	0.650	1 / 1184	1 / 1048
450×175×t11/20	39200	91.7	0.1407	0.850	1 / 1165	1 / 1000

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-8. I-BEAM의 최대 지지거리

8-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

$$\text{BEAM 자중에 의한 MOMENT : } M_s = \frac{M \times \text{I-BEAM 자중} \times (\text{지지거리})^2}{8} \quad \text{kg-cm}$$

$$M_s = \frac{1.05 \times 72 \times 770^2}{8} = 56029 \quad \text{kg-cm}$$

$$\text{이동하중에 의한 MOMENT : } M_d = F \times \frac{(\text{정격하중} + \text{호이스트 자중}) \times \text{지지거리}}{4} \quad \text{kg-cm}$$

$$M_d = 1.254 \times \frac{(3000 + 460) \times 770}{4} = 835227 \quad \text{kg-cm}$$

$$\star \text{ 호이스트 자중} = 460 \text{ KG} \quad \text{용량} : 3000 \text{ KG}$$

$$\star \text{ DYNAMIC COEFFICIENT : } F = 1.254$$

$$\star \text{ STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 56029 + 835227 = 891256 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

$$\text{풍하중에 의한 MOMENT : } M_w = \frac{\text{풍하중}(W) \times \text{지지거리}}{2}$$

$$M_w = \frac{100.05 \times 770}{2} = 38553.4 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 3.527 = 100.14 \text{ (kg)} \end{aligned}$$

$$\text{속도압 : } q = 8.5 \times \sqrt{h} \text{ (kg/m}^2\text{)} = 8.5 \times \sqrt{60} = 23.66 \text{ (kg/m}^2\text{)}$$

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 3.08 + 0.447 = 3.527 \text{ (m}^2\text{)} \end{aligned}$$

$$\star \text{ 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
250×125×t7.5/12.5	38.3	370	6882	401343	408224	38.95	7206.5	1.37
300×150×t10/18.5	65.5	580	28920	629132	658052	62.09	18007.1	2.187
350×150×t9/15	58.5	600	27641	650826	678467	52.31	15842.7	1.87
400×150×t10/16	72.0	770	56029	835227	891256	100.14	38553.4	3.527
450×175×t11/20	91.7	990	117961	1073863	1191824	75.81	37524.3	2.67

단, 사용 I-BEAM은 MODEL별 기술사양서의 BEAM 폭을 참조할 것

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{891256}{1200} = 742.7 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{38553.4}{115} = 335.2 \quad (\text{kg/cm}^2) \end{aligned}$$

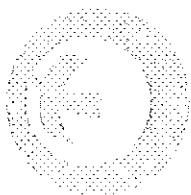
2. 풍하중에 의한 굽힘 응력

$$* \Sigma \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣM_v (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
250×125×t7.5/12.5	414	53.9	408224	7206.5	986.0	133.7	1119.8
300×150×t10/18.5	849	118	658052	18007.1	775.1	152.6	927.7
350×150×t9/15	870	93.5	678467	15842.7	779.8	169.4	949.3
400×150×t10/18	1200	115	891256	38553.4	742.7	335.2	1078.0
450×175×t11/20	1740	173	1191824	37524.3	685.0	216.9	901.9

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 72 \times 770^3}{384 \times 2100000 \times 24100} = 0.0846 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(3000 + 460) \times 770^3}{48 \times 2100000 \times 24100} = 0.650 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} &\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000} \\ &= \frac{0.650}{770} = \frac{1}{1184} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} &\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000} \\ &= \frac{0.0846 + 0.65}{770} = \frac{1}{1048} < \frac{1}{1000} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.336	1 / 1102	1 / 1031
300×150×t10/18.5	12700	65.5	0.0624	0.527	1 / 1100	1 / 983
350×150×t9/15	15200	58.5	0.0515	0.488	1 / 1230	1 / 1112
400×150×t10/13	24100	72	0.0846	0.650	1 / 1184	1 / 1048
450×175×t11/20	39200	91.7	0.1407	0.850	1 / 1165	1 / 1000

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I -9. I-BEAM의 최대 지지거리

9-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

$$\text{BEAM 자중에 의한 MOMENT : } M_s = \frac{M \times \text{I-BEAM 자중} \times (\text{지지거리})^2}{8} \quad \text{kg-cm}$$

$$M_s = \frac{1.05 \times 91.7 \times 990^2}{8} = 117961 \quad \text{kg-cm}$$

$$\text{이동하중에 의한 MOMENT : } M_d = F \times \frac{(\text{정격하중} + \text{호이스트 자중}) \times \text{지지거리}}{4} \quad \text{kg-cm}$$

$$M_d = 1.254 \times \frac{(3000 + 460) \times 990}{4} = 1073863 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 460 \text{ KG} \quad \text{용 량 : } 3000 \text{ KG}$$

$$\text{* DYNAMIC COEFFICIENT : } F = 1.254$$

$$\text{* STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 117961 + 1073863 = 1191824 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

$$\text{풍하중에 의한 MOMENT : } M_w = \frac{\text{풍하중}(W) \times \text{지지거리}}{2}$$

$$M_w = \frac{136.96 \times 990}{2} = 68892.9 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 4.902 = 139.18 \text{ (kg)} \end{aligned}$$

$$\text{속도압 : } q = 8.5 \times \sqrt{h} \text{ (kg/m}^2\text{)} = 8.5 \times \sqrt{60} = 23.66 \text{ (kg/m}^2\text{)}$$

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 4.455 + 0.447 = 4.902 \text{ (m}^2\text{)} \end{aligned}$$

$$\text{* 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
250×125×t7.5/12.5	38.3	370	6882	401343	408224	38.95	7206.5	1.37
300×150×t10/18.5	65.5	580	28920	629132	658052	62.09	18007.1	2.187
350×150×t9/15	58.5	600	27641	650823	678467	52.81	15842.7	1.87
400×150×t10/18	72.0	770	56029	835227	891256	100.14	38553.4	3.527
450×175×t11/20	91.7	990	117961	1073863	1191824	139.18	68892.9	4.902

단, 사용 I-BEAM은 MODEL별 기술사양서의 BEAM 쪽을 참조 할 것

9-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{1191824}{1740} = 685.0 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{68892.9}{173} = 398.2 \quad (\text{kg/cm}^2) \end{aligned}$$

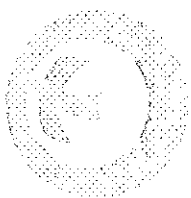
2. 풍하중에 의한 굽힘 응력

$$* \Sigma \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면 계수 Zx	단면 계수 Zy	ΣM_v (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
250×125×t7.5/12.5	414	53.9	408224	7206.5	986.0	133.7	1119.8
300×150×t10/18.5	849	118	658052	8007.1	775.1	152.6	927.7
350×150×t9/15	870	93.5	678467	15842.7	779.8	169.4	949.3
400×150×t10/18	1200	115	891256	38553.4	742.7	335.2	1078.0
⇒ 450×175×t11/20	1740	173	1191824	68892.9	685.0	398.2	1083.2

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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9-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 91.7 \times 990^3}{384 \times 2100000 \times 39200} = 0.1407 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(3000 + 460) \times 990^3}{48 \times 2100000 \times 39200} = 0.850 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} &\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000} \\ &= \frac{0.850}{990} = \frac{1}{1165} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} &\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800} \\ &= \frac{0.1407 + 0.85}{990} = \frac{1}{1000} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I_x	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.336	1 / 1102	1 / 1031
300×150×t10/18.5	12700	65.6	0.0625	0.527	1 / 1100	1 / 983
350×150×t9/15	15200	58.5	0.0515	0.488	1 / 1230	1 / 1112
400×150×t10/18	24100	72.3	0.0546	0.650	1 / 1184	1 / 1048
450×175×t11/20	39200	91.7	0.1407	0.850	1 / 1165	1 / 1000

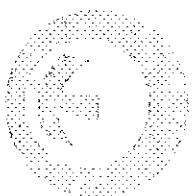
단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

IV. 참 고 도 서

- 1 LOAD LIMITER 권고 SETTING 치
- 2 E.O.C.R 권고 SETTING치
- 3 MOTOR DATA SHEET
- 4 WIRE ROPE 성적서
- 5 SUB VENDOR LIST
- 6 HOIST 취급설명서
- 7 과부하 방지장치 취급설명서
- 8 INVERTER 취급설명서



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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.1 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.4 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.1 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	24.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	24.3 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	30.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	8.1 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	30.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	8.1 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	45.0 A	49.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.6 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

1. 상기 TABLE의 속치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	5.8 A	6.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	2.1 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	2.1 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	5.3 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	5.3 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	26.0 A	28.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.6 A	6.1 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	7.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	10.5 A	13.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	13.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	18.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	18.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	22.5 A	24.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.0 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.3 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.3 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	21.5 A	23.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	3.8 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.0 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.2 A	1.35 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.2 A	1.35 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.1 A	3.5 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.1 A	3.5 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	20.6 A	22.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	3.6 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	0.4KW x 4P	2.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	2.7 A	
C2 TON	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
	0.4KW x 4P	2.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	2.7 A	
C2.8 TON	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
	1.5KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C3 TON	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
	1.5KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C5 TON	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	1.0KW x 6P	6.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.7 A	
C7.5 TON	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	1.0KW x 6P	6.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.7 A	
C10 TON	9.0KW x 8P	45.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	45.0 A	
	1.1KW x 8P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	

NOTE

1. 상기 TABLE의 순치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60HZ

극동하이스트(주)

HOIST	MOTOR 용량	1 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.6 A%	
C2 TON	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.6 A	
C2.8 TON	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	1.5KW x 4P	4.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.2 A	
C3 TON	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	1.5KW x 4P	4.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.2 A	
C5 TON	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	1.0KW x 6P	3.9 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.9 A	
C7.5 TON	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	1.0KW x 6P	3.9 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.9 A	
C10 TON	9.0KW x 8P	26.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.0 A	
	1.1KW x 8P	4.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.6 A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2 TON	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2.8 TON	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	1.5KW x 4P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.7 A	
C3 TON	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	1.5KW x 4P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.7 A	
C5 TON	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	1.0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.3 A	
C7.5 TON	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	1.0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.3 A	
C10 TON	9.0KW x 8P	22.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.5 A	
	1.1KW x 8P	4.0 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.0 A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	4.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.8 A	
	0.4KW x 4P	1.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2 TON	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	0.4KW x 4P	1.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2.8 TON	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C3 TON	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.2 A	
C7.5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.2 A	
C10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 A	
	1.1KW x 8P	13.8 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.8 A	

NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

E.O.C.R 권고 SETTING

* POWER SOURCE : AC 3Φ 480V 60HZ

극동하이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.6 A	
	0.4KW x 4P	1.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2 TON	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
	0.4KW x 4P	1.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2.8 TON	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
	1.5KW x 4P	3.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.4 A	
C3 TON	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
	1.5KW x 4P	3.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.4 A	
C5 TON	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	1.0KW x 6P	3.1 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.1 A	
C7.5 TON	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	1.0KW x 6P	3.1 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.1 A	
C10 TON	9.0KW x 8P	20.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.6 A	
	1.1KW x 8P	3.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.6 A	

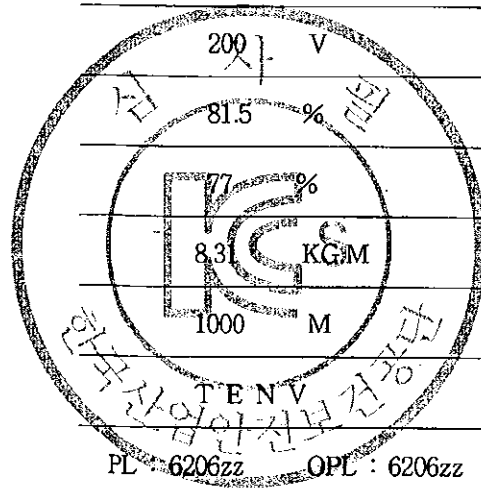
NOTE

1. 상기 TABLE의 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

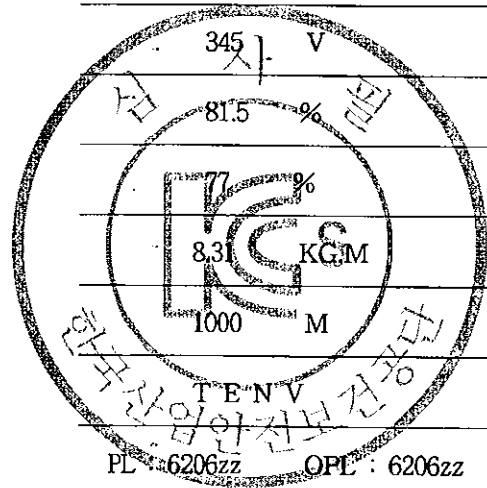
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	28.8 A
12. LOCKED ROTOR CURRENT	136.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KG·M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

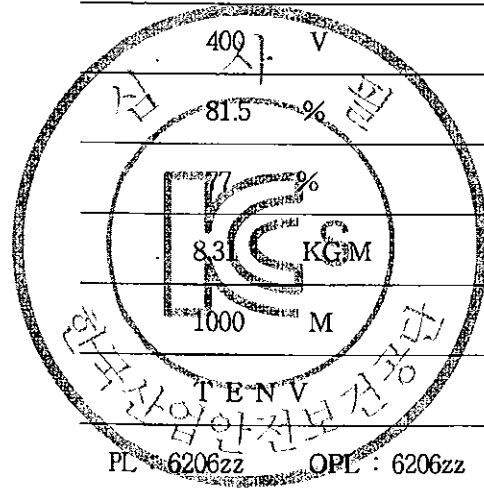
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2. MANUFACTURE	국동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	12.2 A
12. LOCKER ROTOR CURRENT	72.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

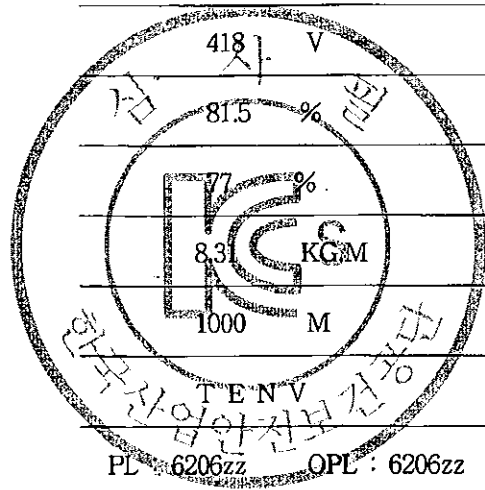
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.5 A
12. LOCKER ROTOR CURRENT	63.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

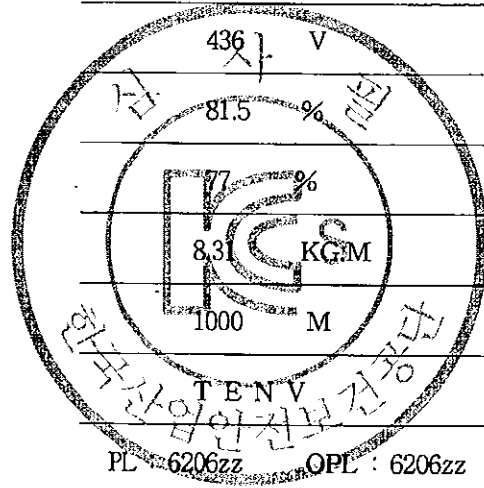
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.0 A
12. LOCKER ROTOR CURRENT	60.0 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.3 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

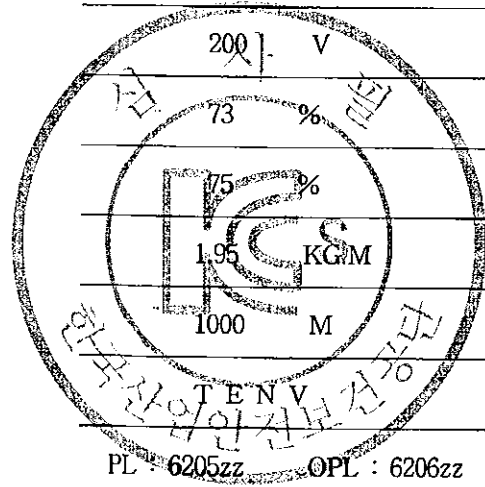
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	9.6 A
12. LOCKER ROTOR CURRENT	57.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KG·M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

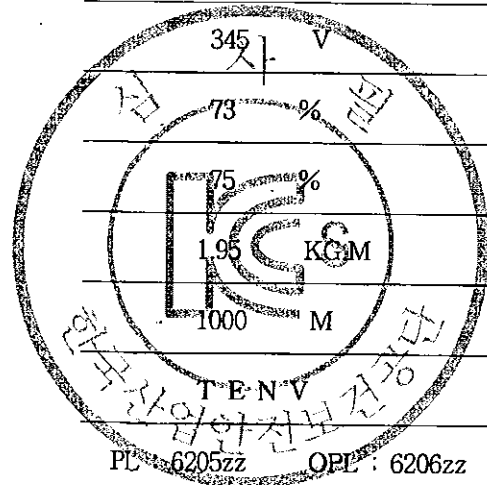
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	7.3 A
12. LOCKED ROTOR CURRENT	41.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	73 %
15. POWER FACTOR AT 100% RATED LOAD	75 %
16. FULL LOAD TORQUE	1.95 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

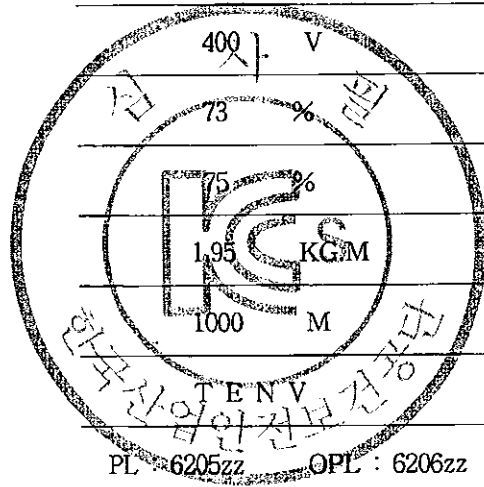
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2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	4.2 A
12. LOCKED ROTOR CURRENT	24.2 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	73 %
15. POWER FACTOR AT 100% RATED LOAD	75 %
16. FULL LOAD TORQUE	1.95 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	3.7 A
12. LOCKED ROTOR CURRENT	20.9 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	73 %
15. POWER FACTOR AT 100% RATED LOAD	75 %
16. FULL LOAD TORQUE	1.95 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



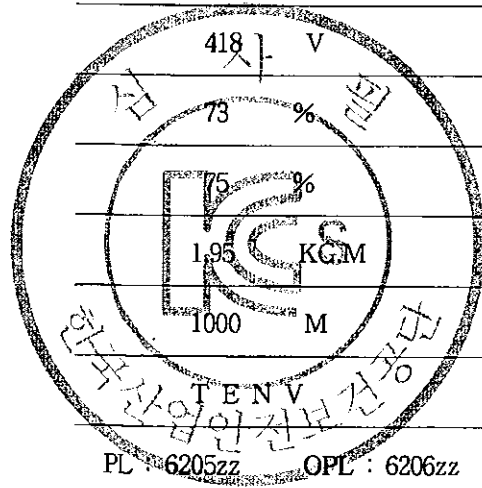
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

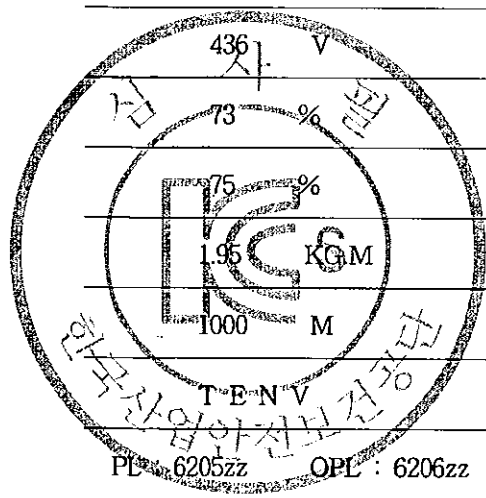
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2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	3.5 A
12. LOCKED ROTOR CURRENT	20.0 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	73 %
15. POWER FACTOR AT 100% RATED LOAD	75 %
16. FULL LOAD TORQUE	1.95 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

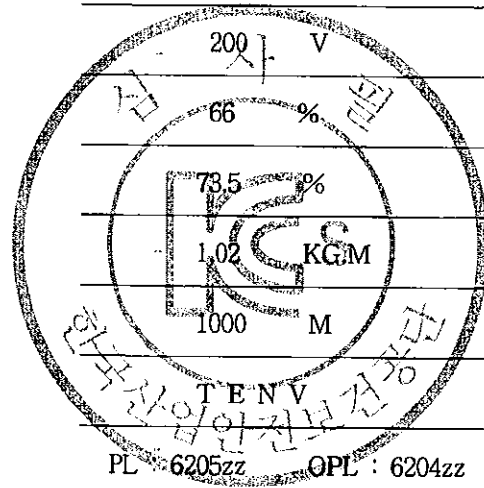
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	3.4 A
12. LOCKED ROTOR CURRENT	19.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	73 %
15. POWER FACTOR AT 100% RATED LOAD	75 %
16. FULL LOAD TORQUE	1.95 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

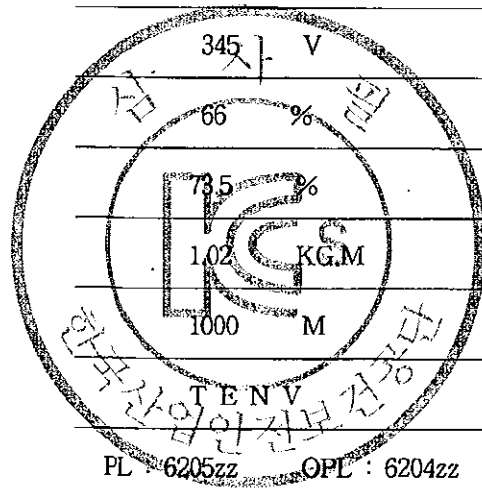
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	4.1 A
12. LOCKED ROTOR CURRENT	22.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

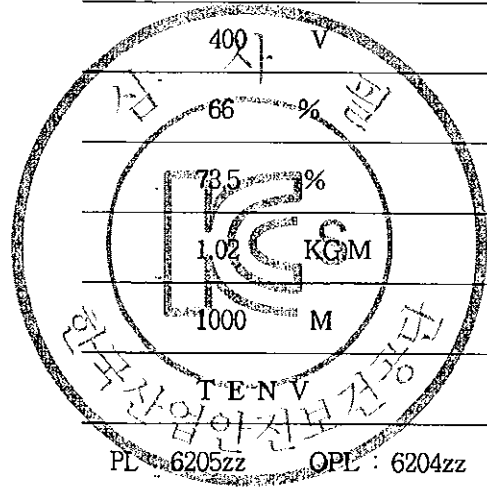
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.4 A
12. LOCKED ROTOR CURRENT	12.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	102 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

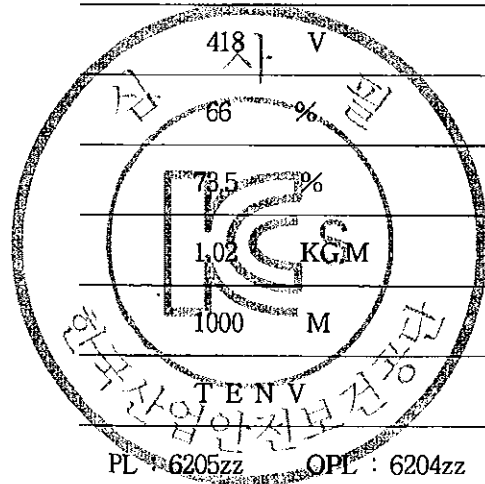
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	11.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T-E-N-V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	G-R E A S E
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

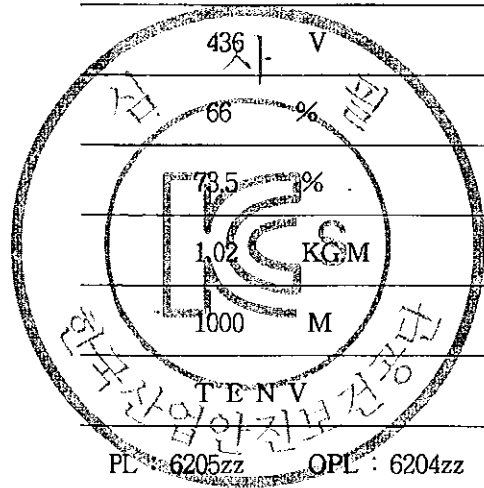
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	10.6 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

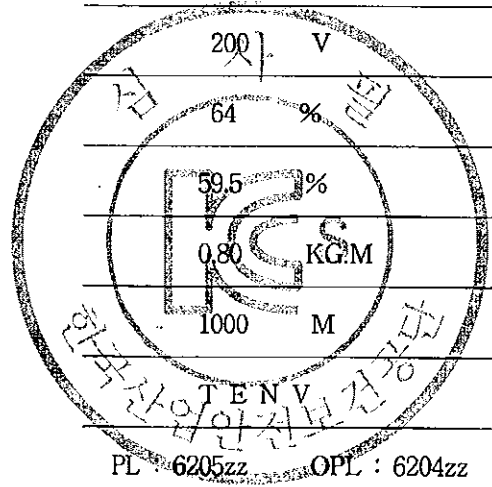
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	1.9 A
12. LOCKED ROTOR CURRENT	10.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

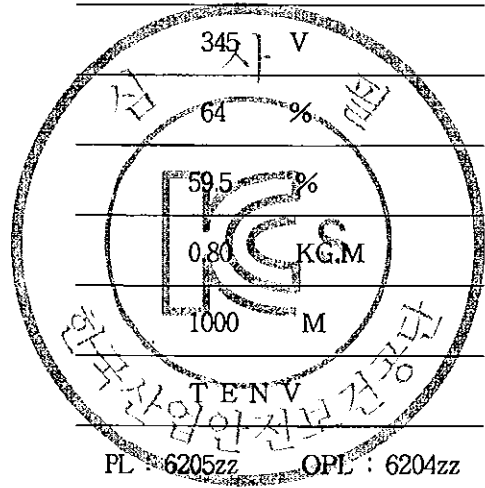
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	3.4 A
12. LOCKED ROTOR CURRENT	16.4 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

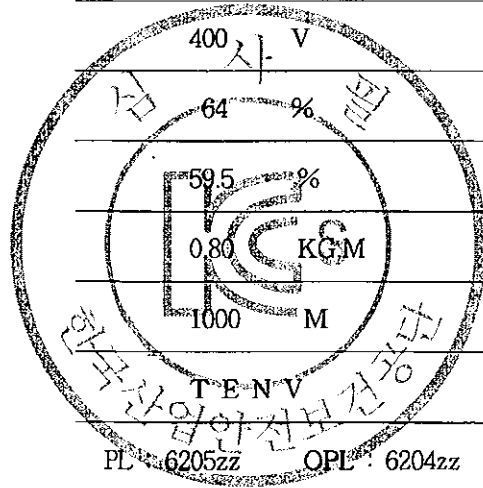
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	9.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

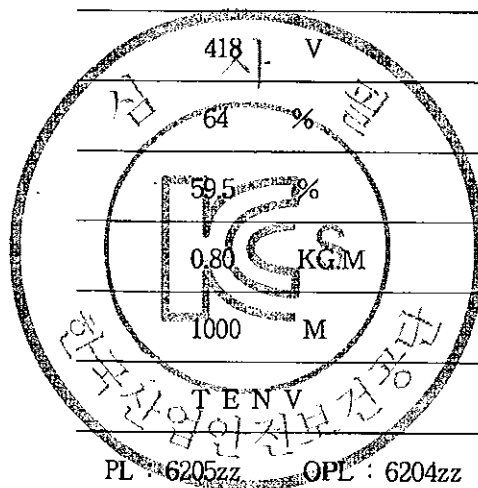
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. LOCKED ROTOR CURRENT	8.2 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. LOCKED ROTOR CURRENT	7.9 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

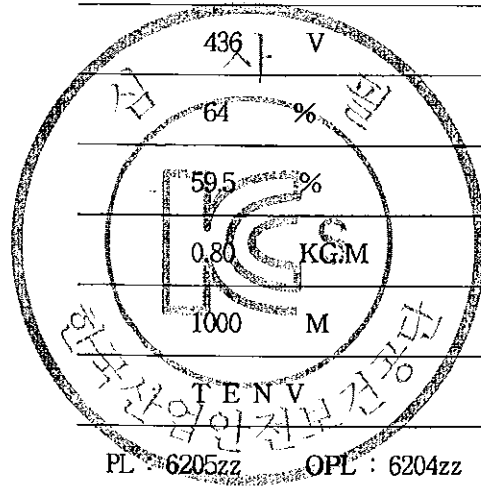


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.6 A
12. LOCKED ROTOR CURRENT	7.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG·M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



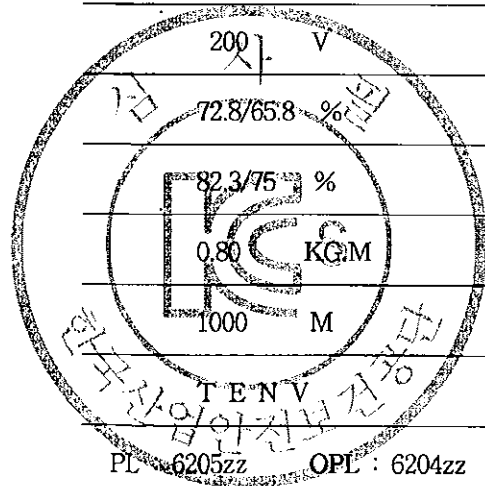
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

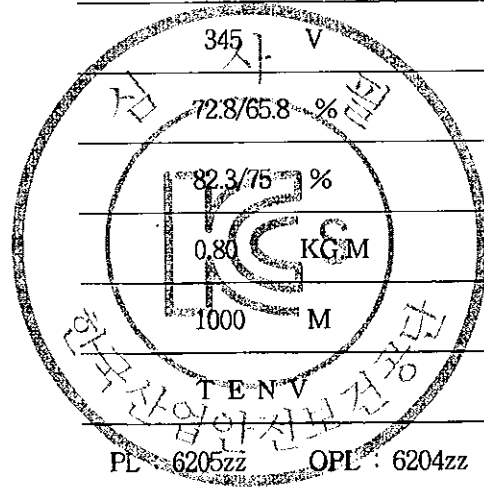
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	4.8/4.25 A
12. LOCKED ROTOR CURRENT	14.2/13.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

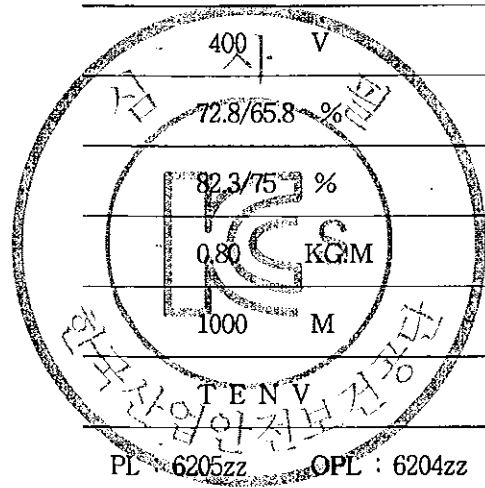
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.78/2.63 A
12. LOCKED ROTOR CURRENT	9.2/6.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD.	82.3/75 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

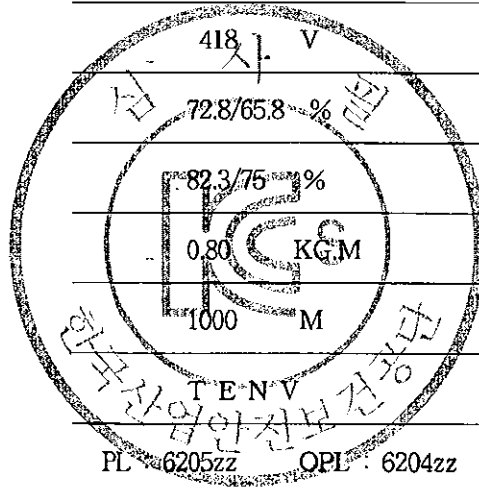
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.4/2.27 A
12. LOCKED ROTOR CURRENT	8.6/6.21 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

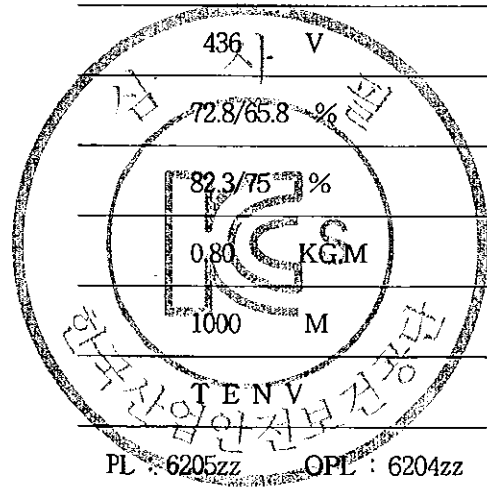
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3/2.17 A
12. LOCKED ROTOR CURRENT	8.5/6.18 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75.4 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

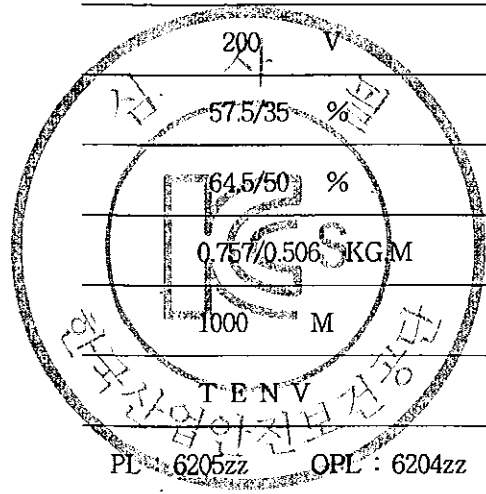
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3/2.1 A
12. LOCKED ROTOR CURRENT	8.4/6.15 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

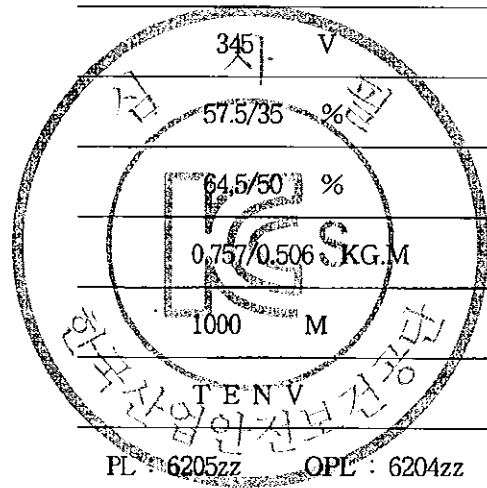
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.2/3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	12.8/10.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.75/0.506 KG·M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL: 6205zz OPL: 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

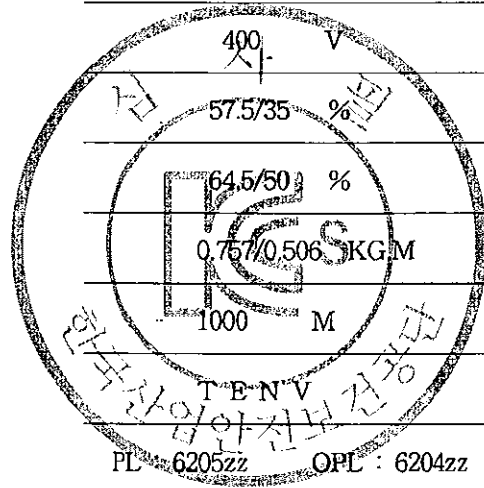
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.85/2.08 A
12. STARTING CURRENT AT RATED VOLTAGE	7.41/6.25 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.75/0.506 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

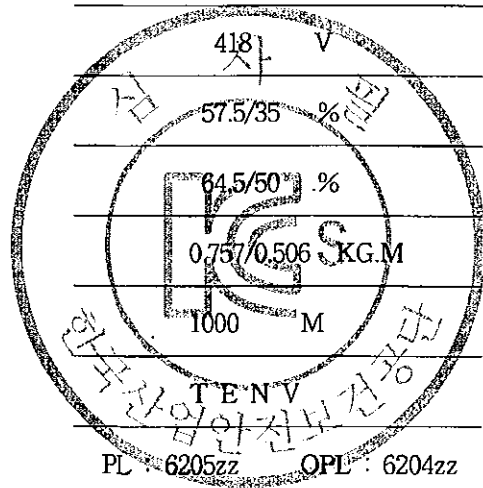
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.6/1.8 A
12. STARTING CURRENT AT RATED VOLTAGE	6.4/5.4 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.75/0.506 KG·M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T·E·N·V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

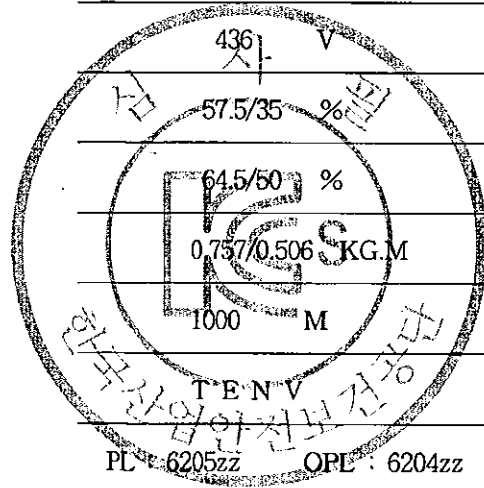
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.5/1.72 A
12. STARTING CURRENT AT RATED VOLTAGE	6.2/5.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.75/0.506 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.4/1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	5.82/4.93 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE





No.600 Chuangyu Road, Qingdao Development Zone, Shangdong,P.R.China
Tel : 86-532-86821916, Fax :86-532-86821949 www.kiswire.com

ISSUE NO. PW9034

DATE Jan. 29, 2010

MILL TEST CERTIFICATE

THIS IS TO CERTIFY THAT THE MATERIAL DESCRIBED BELOW WAS MANUFACTURED
IN ACCORDANCE WITH KISWIRE LTD SPECIFICATION AND APPLICABLE SECTIONS
OF KSD 3514 (B Grade)

TO MESSRS

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06 X 37 + FC 1000M X 5 REEL

EX NO. PW9034

T/T NO.

ORDER NO. REEL NO. 1~5 SAMPLING NO. 1

DIAMETER OF ROPE 12.5 mm TYPE OF CORE Fiber Core

SPECIFIED BREAKING LOAD 88.5 kN SAMPLE BROKE AT 91.7 kN

WT. OF ZINC COATING OF OUTER WIRE MIN. g/m² MAX. g/m²

ROPE LAY RHRL LAY LENGTH 81.9 mm

LUBRICATION A-2

CHEMICAL ANALYSIS OF WIRE ROD

CHARGE NO.	C×100	Si×100	Mn×100	P×1000	S×1000
050697E	70	23	72	15	38

DATE OF SAMPLE TEST Jan. 15, 2010

CHIEF INSPECTOR D.S.NA
KISWIRE QINGDAO LTD.

192.168.11.38 / 2012-04-23 13:49:07

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SUB VENDOR LIST

구분	NO	DESCRIPTION	SUB VENDOR	TEL NO.	REMARK
기 계	1	WIRE ROPE	만호 로우프(주)	051-332-3131	
			고려제강 (주)	02-776-4131	
	2	MAGNET CORE	극동호이스트(주)	031-491-5311	
	3	DRUM	극동호이스트(주)	031-491-5311	
	4	GEAR	극동호이스트(주)	031-491-5311	
	5	HOOK ASS'Y	제 일 단 철	032-527-2817	
			대 흥 단 조	032-561-0541	
	6	MIDDLE SHAFT	극동호이스트(주)	031-491-5311	
전 기	8	MAG CONTACTOR	L.G 전선 (주)	02-273-4140	전 품
			(주) 대 룩	02-242-4141	한국공업협회
			(주) 대성디에스	055-338-3125	
	9	E.O.C.R	삼화기연 (주)	032-62-1331	K.S
			아산 전기	02-2636-8035	
	10	PUSH BUTTON	한영전기 (주)	02-742-0430	전 품
			(주)케이지오토	02-247-3131	전 품
			반도기계 (주)	031-495-8353-4	전 품
	11	LOAD LIMITER	보 창 기 전	032-431-0150	산 안 검
			반도기계 (주)	031-495-8353-4	산 안 검
			정호 엔지니어링	02-681-0553	산 안 검
	12	SILICON	반도기계 (주)	031-495-8353-4	
			아산 전기	02-2636-8035	
			보 창 기 전	032-431-0150	

EN 60 947-5-1			
Clause	Requirement - Test	Result - Remark	Verdict

Annex C of IEC 60947-1			P
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Annex C	Degree of protection of enclosed control circuit-devices		P
C.1	Scope		
	This annex applies to degrees of protection of enclosed switchgear and control gear at rated voltages not exceeding 1000 V a.c. or 1500 V d.c. hereafter referred as "equipment"		
C.2	Object		
	Clause 2 of IEC 60529 applies with additional requirements of this annex		
C.3	Definitions		
	Clause 3 of IEC 60529 applies except that "Enclosure" is replaced by the following:		
	"A part providing a specified degree of protection of equipment against certain external influences and a specified degree of protection against approach to or contact with live parts and moving parts"		
C.4	Designation		
	Clause 4 of IEC 60529 applies except for letters H, M and S		N/A
C.5	Degrees of protection against access to hazardous parts and against ingress of solid foreign objects indicated by the first characteristic numeral		
	Clause 5 of IEC 60529 applies	6	P
C.6	Degrees of protection against ingress of water indicated by the second characteristic numeral		
	Clause 6 of IEC 60529 applies	5	Sp
C.7	Degrees of protection against access to hazardous parts indicated by the additional letter		
	Clause 7 of IEC 60529 applies		N/A
C.8	Supplementary letters		
	Clause 8 of IEC 60529 applies		N/A
C.9	Examples of designations with IP Code		
	Clause 9 of IEC 60529 applies		P
C.10	Marking		P

TRF-No.: IEC60947_5_1A

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C.5, C.6항이 IP65 PASS를 뜻함.

192.168.11.38 / 2012-04-23 13:49:07