



제 2013 - 73345 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소 재 지) (425-833)경기도 안산시 성곡동630-2 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 _____
KD10-S (10Ton) / 13-AQ2AC-04255

_____ 인 증 기 준 _____
고용노동부 고시 제2012 - 33호 (위험기계,기구 의무안전인증 고시)

_____ 인 증 조 건 _____

2013년 10월 04일



한국산업안전보건공단이사장



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

형 식 (규 격)

KD10-S

용 량 (등 급)

10 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☒ 서면심사

☐ 기술능력 및 생산체계 심사

결과가 ☒ 적 합

☐ 개별 제품심사

☐ 부적합

함을 통지합니다.

☐ 개별 제품심사(제작중)

☐ 형식별 제품심사

2013년 10월 01일

인증심사원

강성두 변명수

(서명 또는 인)

한국산업안전보건공단 경기서부지도원장



서 면 심 사 서 류

형식 번호 : KD10-S

극 동 호 이 스트 (주)

工場 : 경기도 안산시 단원구 성곡동 630-2 한월공단607-14

電話 : 031) 491 - 5311

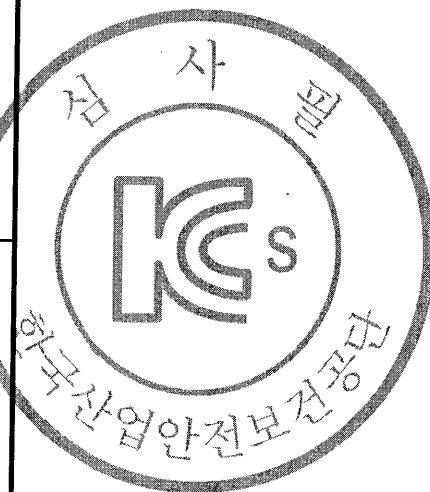
산업재해예방 FAX : 031) 494 - 5315

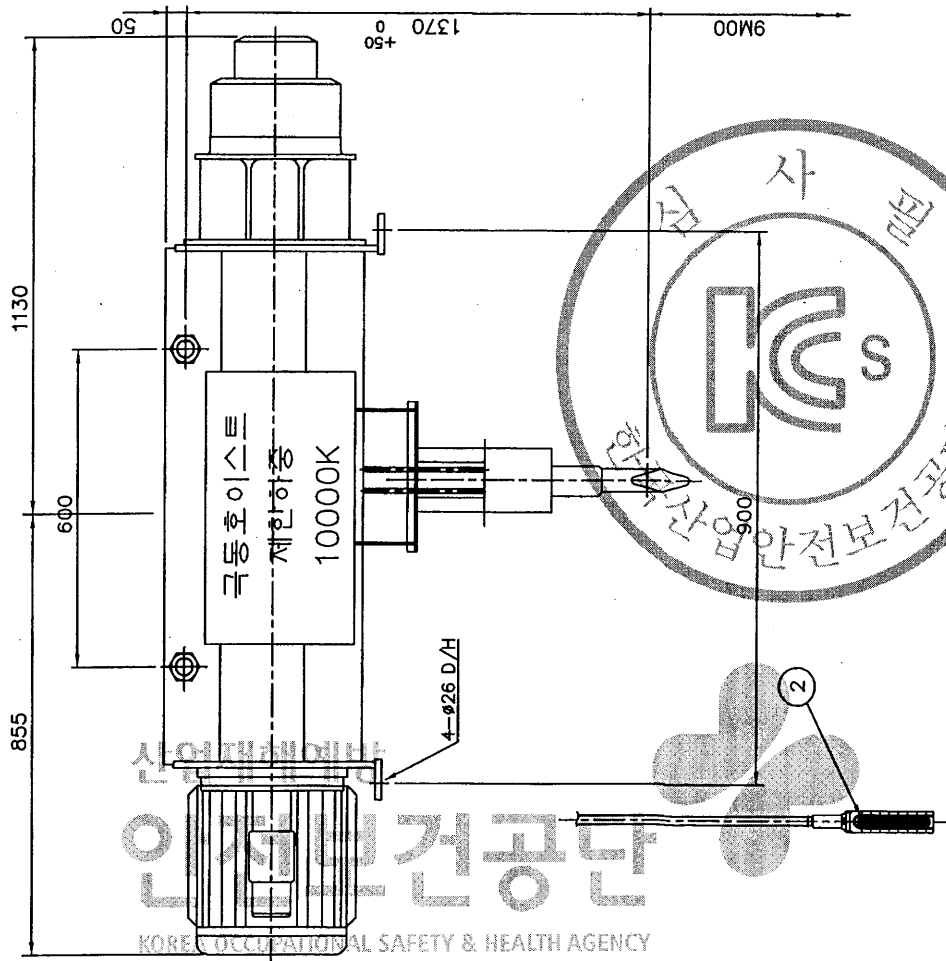
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

동 일 형 식 일 람 표

사업장명		구동호이스트(원)	개정일자 및 번호		2013.09.25	인증번호	비 고
형식 및 모델			동일 형식 인정범위 및 내역				
호	형식	모델	권상속도(m/min)	회행속도(m/min)	양정(m)	회행방식	
KD10-S	안전보건공단 산업재해예방	KD10-L9-S	6.0 4.5 3.0		9	없음 (정치식)	
		KD10-L12-S			12		
		KD10-L18-S			18		
		KD10-L24-S			24		
		KD10-L30-S			30		
		KDC10-L9-S	4.5/0.45		9		
		KDC10-L12-S			12		
		KDC10-L18-S			18		
		KDC10-L24-S			24		
		KDC10-L30-S			30		





4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SS400	1			
2	PUSH BUTTON S/W	-	1			
1	LOAD LIMITER	-	1			
NO.	DESCRIPTIONS	M'T'L	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS
PROJECT					DATE	
TITLE		KDC10-L9-S			SCALE	
		ARRANGEMENT DRAWING FOR HOIST			A3/15 /	
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.		
				KDC10S900		

KKD
극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET NO. DRAWING NO.

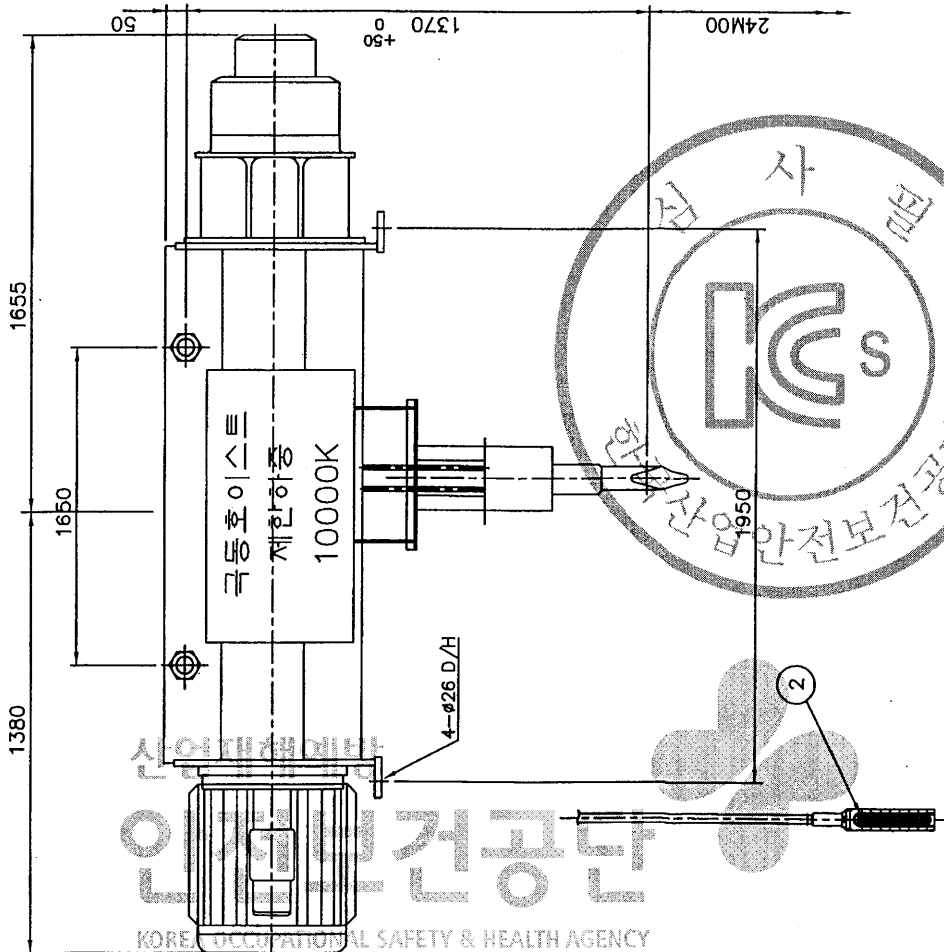
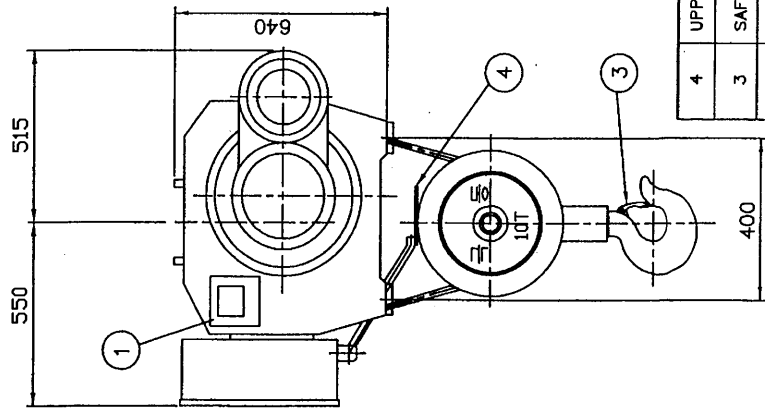
KDC10S900



4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SS400	1			
2	PUSH BUTTON S/W	-	1			
1	LOAD LIMITER	-	1			
NO.	DESCRIPTIONS	MT'L	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS
PROJECT		DATE				
TITLE		SCALE				
KDC10-L12-S		A3/15 /				
ARRANGEMENT DRAWING FOR HOIST		REF DRAWING				
DRAWN	DESIGNED	CHECKED	APPROVED			
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.		
				KDC10S1200		



4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SS400	1			
2	PUSH BUTTON S/W	-	1			
1	LOAD LIMITER	-	1			
NO.	DESCRIPTIONS	M'T'L	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS
PROJECT						DATE
TITLE		KDC10-L18-S				SCALE
		ARRANGEMENT DRAWING FOR HOIST				A3 / 15 /
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING		
						DRAWING NO.
						KDC10S1800
		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				SHEET NO.

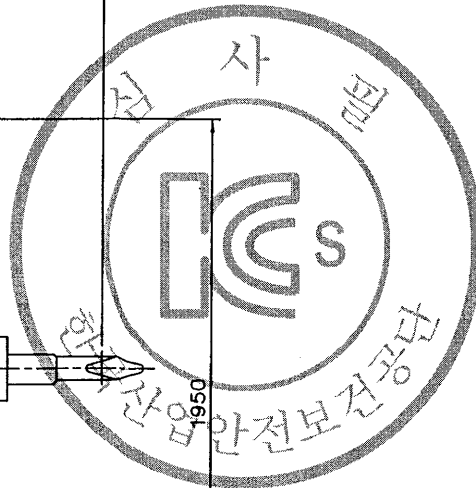


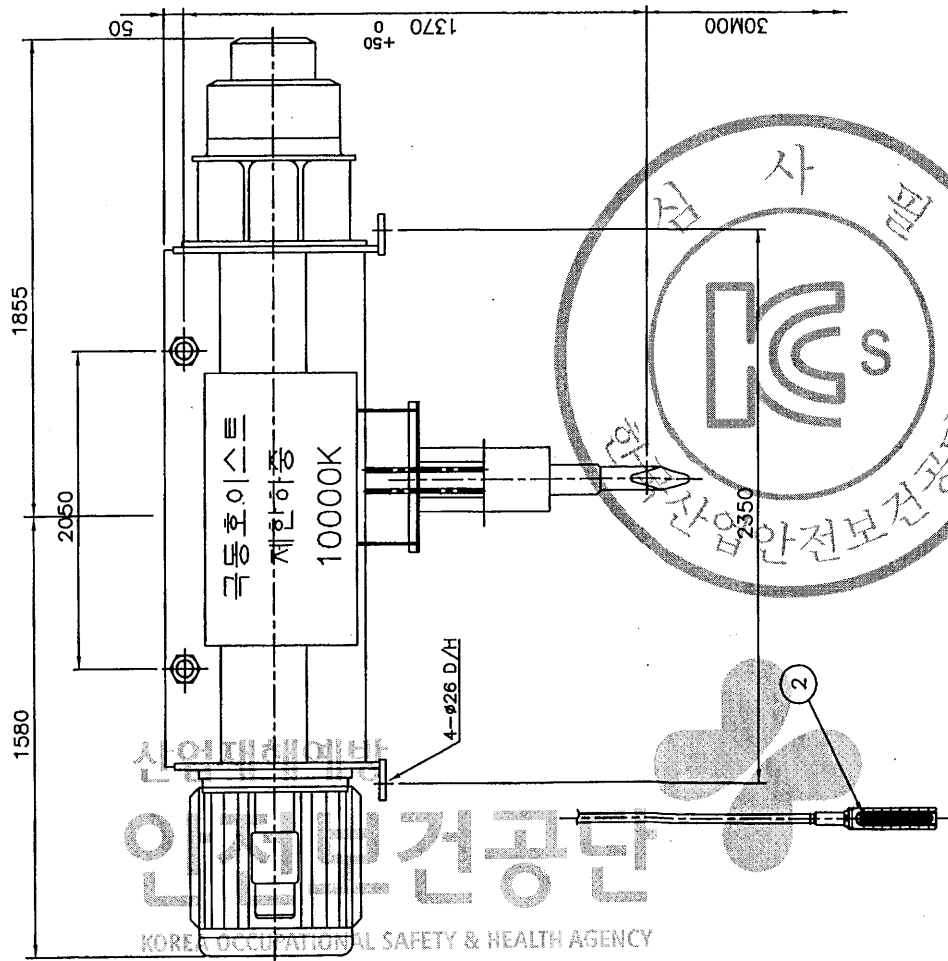
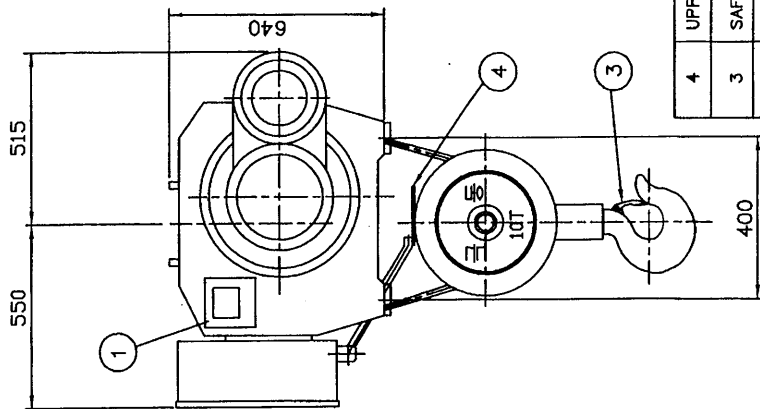
SPECIFICATION	
HOISTING LOAD	10000 KG
TESTING LOAD	12500 KG
LIFT	24 M
RATING	30 MIN
SPEED	4.5 / 0.45 M/MIN
HOISTING MOTOR	9 / 1.1 KW x 8 P
WIRE ROPE	(6x37) ø16 x 4FALLS
POWER SOURCE	AC3øx220V(380,440,460,480V)x60Hz
COLOR	10 B 3/5
WEIGHT	1370 KG

4	UPPER LIMIT S/W	SS400	1							
3	SAFETY LATCH	SS400	1							
2	PUSH BUTTON S/W	-	1							
1	LOAD LIMITER	-	1							
NO.	DESCRIPTIONS	M'T'L	SET	UNIT	TOTAL	REMARKS				
			QTY	WT	KG					
PROJECT						DATE				
TITLE	KDC10-L24-S					SCALE				
	ARRANGEMENT DRAWING FOR HOIST					A3/15 /				
DRAWN	DESIGNED	CHECKED	APPROVED			REF DRAWING				
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						SHEET NO.		DRAWING NO.		
								KDC10S2400		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

신원대해제반
인체보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY





SPECIFICATION			
HOISTING LOAD	10000	KG	
TESTING LOAD	12500	KG	
LIFT	30	M	
RATING	30	MIN	
HOISTING SPEED	4.5 / 0.45	M/MIN	
MOTOR	9 / 1.1	KW x 8 P	
WIRE ROPE	(6x37) ø16 x 4FALLS		
POWER SOURCE	AC3øx220V(380,440,460,480V)x60Hz		
COLOR	10 B 3/5		
WEIGHT	1530	KG	

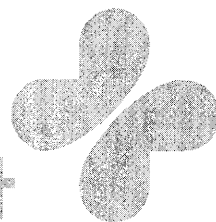
4	UPPER LIMIT S/W	SS400	1						
3	SAFETY LATCH	SS400	1						
2	PUSH BUTTON S/W	-	1						
1	LOAD LIMITER	-	1						
NO.	DESCRIPTIONS	M'T'L	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS			
PROJECT						DATE			
TITLE						SCALE			
KDC10-L30-S						A3 / 15 /			
ARRANGEMENT DRAWING FOR HOIST						REF DRAWING			
DRAWN	DESIGNED	CHECKED	APPROVED						
SHEET NO.						DRAWING NO.			
극동호이스트 주식회사						KDC10S3000			
KUK DONG HOIST CO., LTD.									



2) 전 기



산업재해예방
안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



ELECTRICAL SYMBOL LIST

DESCRIPTION	SYMBOLS	SYMBOLS		DESCRIPTION	SYMBOLS		DESCRIPTION	SYMBOLS	
		MAKE	BREAK		MAKE	BREAK		MAKE	BREAK
3 PHASE SQUIRREL CAGE ROTOR INDUCTION MOTOR				NO FUSE BREAKER 2 PHASE			MAGNETIC & RELAY CONTACTOR		
3 PHASE WOUND ROTOR INDUCTION MOTOR				NO FUSE BREAKER 3 PHASE			ON DELAY TIME CONTACTOR		
DC MAG. BRAKE DISK TYPE				EARTH LEAKAGE BREAKER 2 PHASE			OFF DELAY TIME CONTACTOR		
THRUSTOR BRAKE				EARTH LEAKAGE BREAKER 3 PHASE			EOCR OR THERMAL RELAY CONTACTOR		
AC-DC MAG. BRAKE				TRANSFORMER			THERMOSTAT		
SC BRAKE				CURRENT TRANSFORMER			LIMIT SWITCH		
EC BRAKE				POTENTIAL TRANSFORMER			PUSHBUTTON SWITCH		
RECTIFIER				FUSE			EMERGENCY PUSHBUTTON SWITCH		
LOAD LIMITER ELECTRICAL TYPE				FUSE WITH CONTACTOR			KEY SWITCH		
ELECTRONIC OVER CURRENT RELAY				THRISTOR UNIT			FOOT SWITCH		

[illegible]

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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ELECTRICAL SPECIFICATION

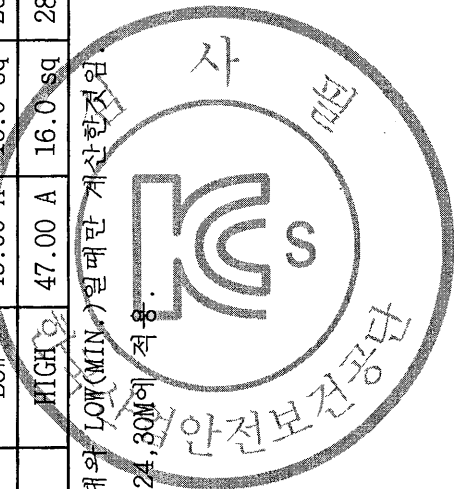
POWER SOURCE : AC 3Φ 220V, 380V, 440V, 460V, 480V 60Hz

CONTROL SOURCE : AC 1Φ 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	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	9KW x 8P 30 MIN	45.00 A	16.0 sq	26.00 A	16.0 sq	22.5 A	21.5 A	20.6 A	10.0 sq	DC MAG. BRAKE	
CREEP HOIST	1.1KW x 8P 30 MIN	8.00 A	4.0 sq	4.60 A	4.0 sq	4.0 A	3.8 A	3.6 A	4.0 sq	DC MAG. BRAKE	
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 (NORMAL LOAD)	LOW	45.00 A	16.0 sq	26.00 A	16.0 sq	22.5 A	21.50 A	20.60 A	10.0 sq	I(A)=M/H + ASS'Y	
SUB TOTAL (PEAK LOAD)	HIGH	47.00 A	16.0 sq	28.00 A	16.0 sq	24.5 A	23.50 A	22.60 A	10.0 sq	I(A)=M/H + ASS'Y	

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

*. 위 계산은 LIFT 9, 12, 18, 24, 30M에 적용.



□ 보호본딩회로의 연속성 확인

시험전선의 최소유호 단면적(mm ²)	최고 전압 강하(V)
1.0	3.3
1.5	2.6
2.5	1.9
4.0	1.4
>6.0	1.0

① 보호본딩회로의 연속성의 검증은 PELV전원(50/60Hz)에서 최소 10A 이상의 전류를 10초 이상의 인가에 의한다.
시험은 PE단자와 보호본딩회로의 여러지점 사이에서 이루어진다.

② PE단자와 시험 지점 사이에서 측정된 전압은(표 참조) 값을 초과해서는 아니된다.

□ 절연저항 시험

전원선과 보호본딩선 사이를 직류 500V로 측정된 절연저항 값은 1MΩ 이상이어야 한다.

□ 내전압 시험

① PELV 전압에서 작동되도록 설계된 전기장치의 회로를 제외한 모든 회로와 보호본딩회로의 전선 사이에 1초 이상 지속되는 다음의 시험 전압에 견딜수 있어야 한다.

- 장치의 정격전압의 두배 또는 1,000V 중 큰값의 전압

② 이 시험을 견딜수 없도록 설계된 부품은 시험이 진행되기 전에 차단하여야 한다.

[illegible]

2.MAIN S/W BOX는 3종 접지 요.

KUKDONG SCOPE

2. 보호본영회로는 계폐기, 과전류보호장치가 부착되지 않아야 한다.

[illegible]

The image contains two technical drawings of a mechanical assembly. The top drawing is a front view, showing a cylindrical body with a central shaft and a flange. The bottom drawing is a side view, showing the same assembly from a different angle. Callouts 1, 2, and 3 are used to identify specific components in the side view: 1 points to the central shaft, 2 points to the flange, and 3 points to the base of the assembly.

본 도면은 EARTH를 명기하기 위한 도면으로서
실제 배치와 다를 수 있으며 HOIST 본체와의
EARTH용 CABLE은 REFERENCE임

*3종 접지공사 100Ω 이하 (AC 3PH 400V 미만)
*부 중 접지공사 10Ω 이하 (AC 3PH 400V 이상)

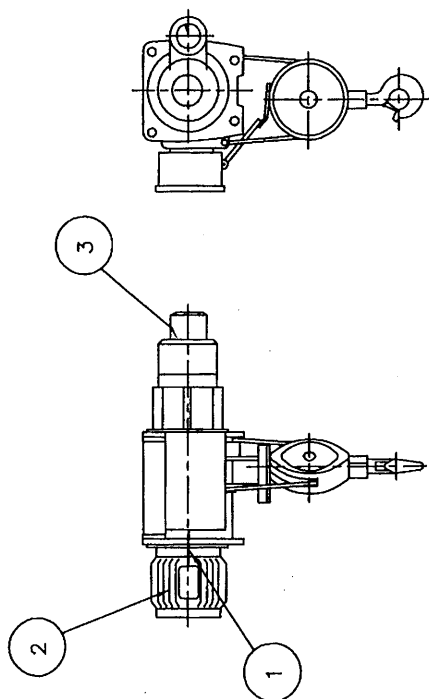
통전위접지

1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속 기능이 유지되어야함.
2. 보호본딩회로에는 개폐기, 과전류보호장치기 부착되지 않아야 한다.

NO	CABLE			REMARK			
	TYPE	SIZE					
		220V	380V		TYPE		
1	VCT	16sq	16sq	VCT	440V, 460V, 480V	10sq	HOISTING MOTOR WITH EARTH
2	VCT	4.0sq	4.0sq	VCT	4.0sq	4.0sq	CREEP MOTOR WITH EARTH
3	VFCT	16sq	16sq	VFCT	16sq	10sq	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

[illegible]



산업재해예방

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

ELECTRIC WIRE ROPE HOIST			
MODEL	RATING	min	
CAPACITY	LIFT	m	
HOIST SPEED	POWER SOURCE	V-Hz	
HOIST MOTOR	AMP.S R&T HOIST	A	
TRAV.SPEED	AMP.S R&T TRAV.	A	
TRAV.MOTOR	WIRE ROPE	Ø	
WIDTH OF RAIL	WEIGHT	Kg	
DATE	SERIAL		

3 PHASE INDUCTION MOTOR			
	KW	P	TENV
	VOLTS	V	RATING
	AMP.S	A	AMP.TEMP
	HEARTS		INS.CLASS
	R.P.M		BEARING
	ROTOR	C	BEARING
	SERIAL		DATE
KUKDONG HOIST CO.,LTD			

[illegible]

1. --- MARKED OWNER SCOPE

2. EARTH : 제 3종접지 공사(400V 미만전압 : 100 OHM 이하)

특 3중접지 공사(400V 이상전압 : 10 OHM 이하)

[illegible]

- 1) स :: म/स
- 2) क :: म/स
- 3) ख :: म/स

1. 원자의 구성 요소이다.

- 1) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
- 2) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
- 3) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

4) 복식 또는 복식회계 : 집지 4) 복식, 회계 또는 회계 : 지정된 의미 없음

2. 표시등의 색상은 다음과 같다.

- 1) स य : मः
- 2) क य : मः
- 3) न य : मः
- 4) त य : मः
- 5) प य : मः

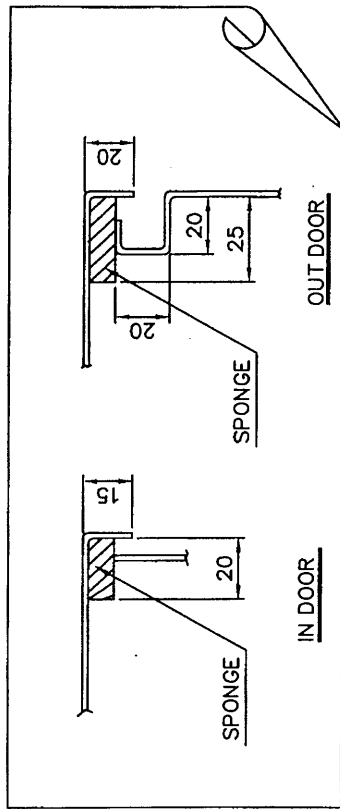
SELECTION	VOLTAGE	F11 F12	F13	MCCB100	TR10
	220V	2A	3A	103AF/15AT	220/110,120V 200VA
	380V	1A	3A	53AF/50AT	360/110,120V 200VA
	440V	1A	3A	53AF/40AT	440/110,120V 200VA
	480V	1A	3A	53AF/40AT	460/110,120V 200VA
	480V	1A	3A	53AF/40AT	480/110,120V 200VA

[illegible]

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

1.PROTECTION DEGREE;

A. INDOOR TYPE : DUST PROOF

B. OUT DOOR TYPE : SPLASH PROOF

2.FINAL PAINTING COLOR (MUNSELL NO.)

A. IN SIDE : 10B 3/5

B. OUT SIDE : 10B 3/5

3.PAINTING THICKNESS: ABOVE 40 um

4.APPLICATION VOLTAGE : 220V,380V,440V,460V,480V

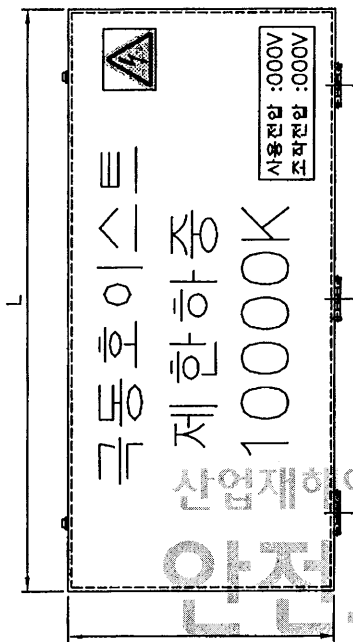
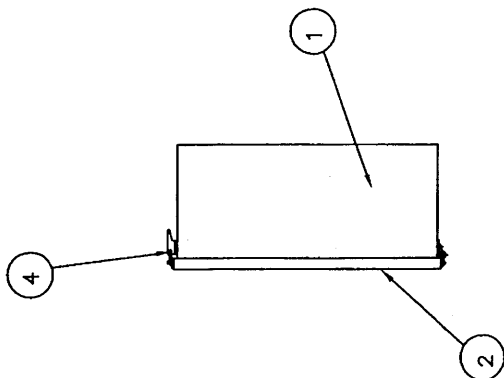
5.제어용 전선 : 2.5sq KIV,HIV

6.외함 개방시 충전부분이 차단되도록 한다.

1) 외함 개방시 충전부분이 차단되도록 한다.

2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의

직접접촉 방호가 되어있을것.



안전보건공단

산업재해예방

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR		OUT DOOR			REMARK
			A	B	L	A	B	L
	10 TON	NORMAL	450	200	690	650	200	690
	10 TON	CREEP	450	200	690	650	200	690

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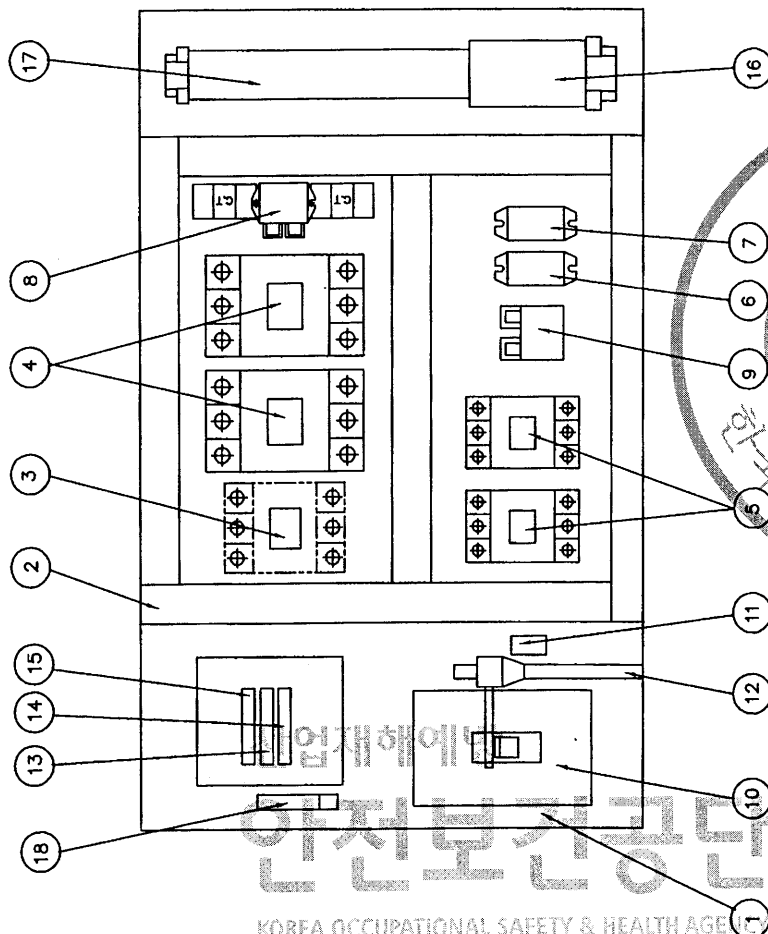
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ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	QTY	REMARK
1	CHASSIS PLATE		1	이 면 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC65C	1	M1, MAIN MAG.
4	MAGNET CONTACT	MC-130a	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	CREEP
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-30	1	CREEP
10	MCCB100	103AF/75AT	1	LS-2
11	UPPER LIMIT	AC 600V/3A	1	LS-1
12	LIMIT LEVER	SS-400	1	
13	FUSE (F11,F12)	3 A	2	
14	FUSE (F13)	5 A	1	
15	TRANSFORMER	220V/110,120V, 200VA	1	
16	TERMINAL BLOCK	60A, 25A		
17	TERMINAL BLOCK	15A		
18	EARTH TERMINAL	5t25x50	1	

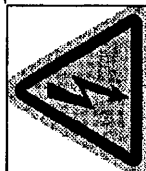
NOTE

- 전선의 색상은 다음과 같다.
 - 회색 : 교류 및 직류 전원선으로 5) 청색 : 직류 제어선으로
 - 회색 : 교류 제어회로
 - 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 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 변경될수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 충전부분이 차단되도록 할것.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



NOTE

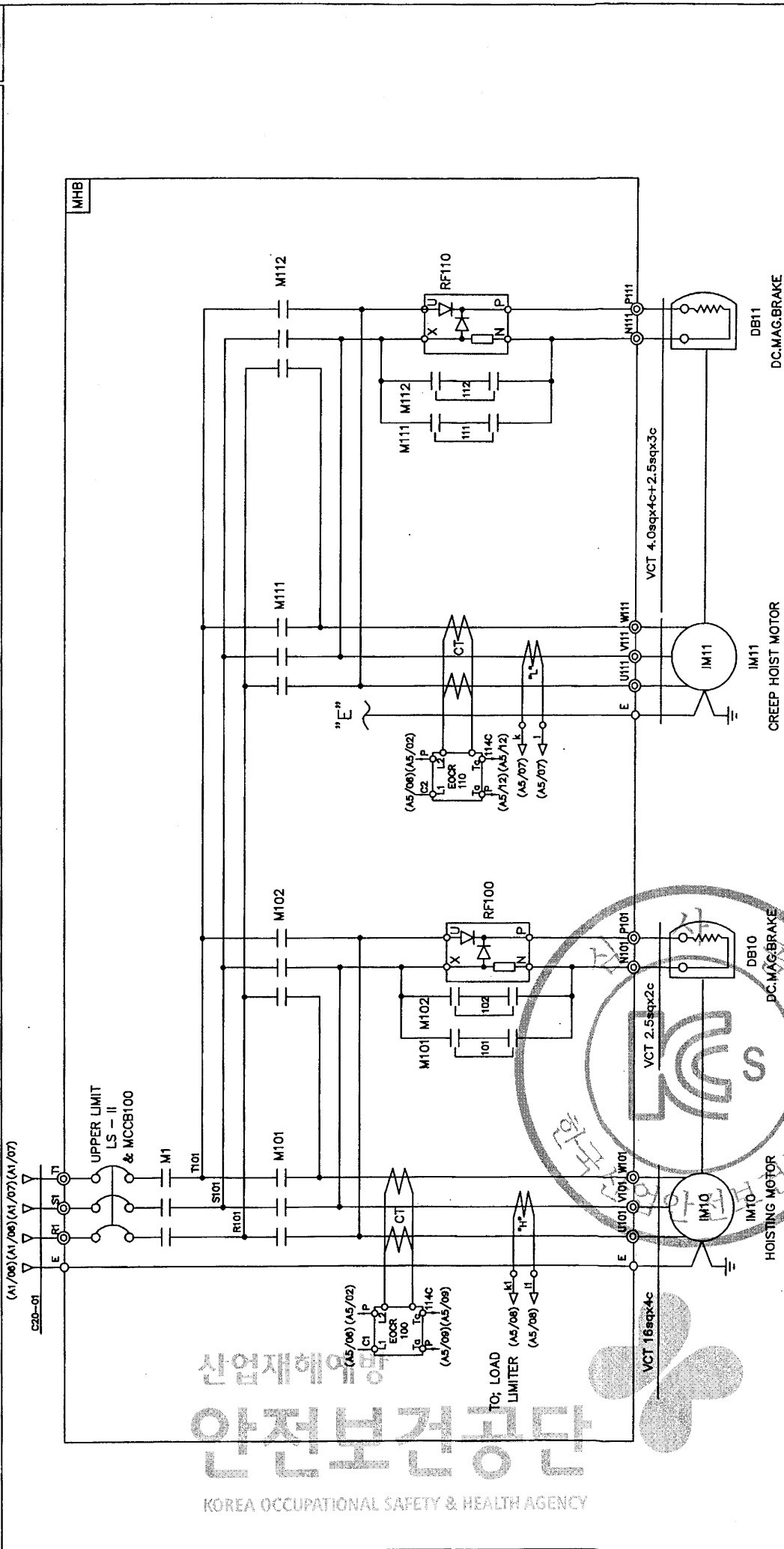
- UPPER LIMIT LS-1의 전원 허용 전류 용량 : AC-600V, 3A
- UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
- EARTH TERMINAL RESISTANCE : 0.018 Ω
- POWER SOURCE : AC 3φ 220V 60HZ



KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUD KUK DONG HOIST CO., LTD.						KD10BA02
ARRANGEMENT DRAWING						
HOISTING CONTROL BOX						
TITLE						
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										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
							F11,F12	F13							
DESCRIPTION	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M1	M101,M102	LS-I, LS-II	EOCR100	RF100	LOAD LIMITER	C20-01
	10TON AC3PH 220V 60Hz	9KWx8P	1.1KWx8P	DC 100V	ABS-103AF / 75AT	220V/110V,120V,200VA	3A	5A	DMC65C	MC-130g	AC 600V 3A	SS-60	SR-60	JDL-100	VCT 16sqx4c
SELECTION															
MAKER	KUK DONG														
DATE	REVISIONS	CHK.	APP.	CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.			
				DRAWING											
				CREEP HOISTING POWER & CONTROL											
				TITLE											
DATE	REVISIONS	CHK.	APP.	CIRCUIT DIAGRAM						국동호이스트 주식회사		DWG. NO	KDC10E21		
								KUK DONG HOIST CO., LTD.							

산업재해예방
안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

20.
ADR'S NO.

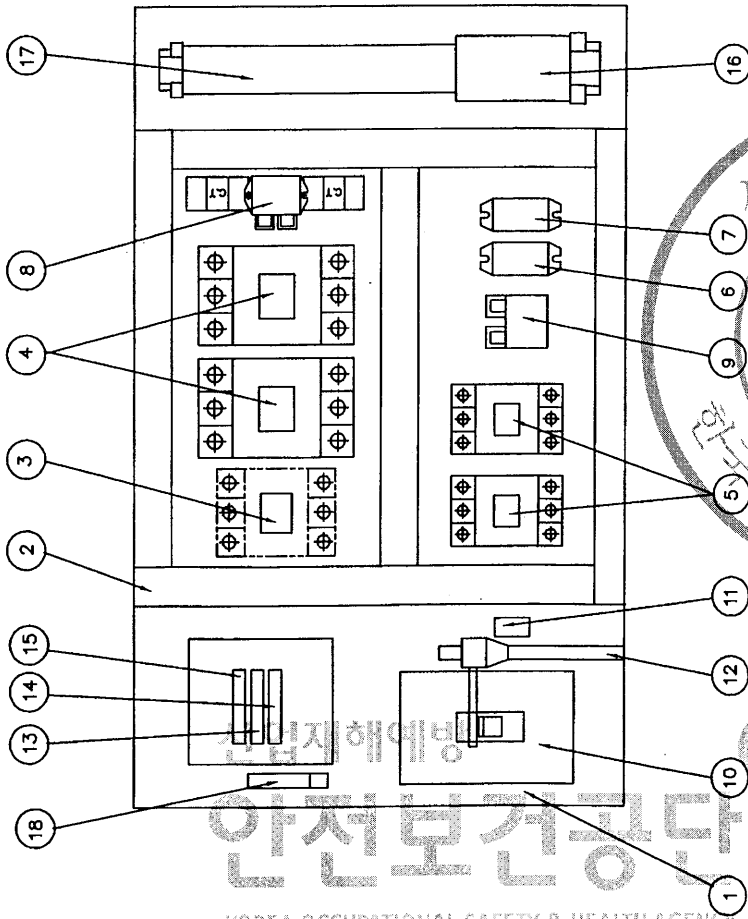
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NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC65C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	CREEP
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-05	1	CREEP
10	MCB100	53AF/50AT	1	LS-2
11	UPPER LIMIT	AC 600V/3A	1	LS-1
12	LIMIT LEVER	SS-400	1	
13	FUSE (F11,F12)	2 A	2	
14	FUSE (F13)	5 A	1	
15	TRANSFORMER	380V/110,120V, 200VA	1	
16	TERMINAL BLOCK	60A,25A		
17	TERMINAL BLOCK	15A		
18	EARTH TERMINAL	51x25x50	1	

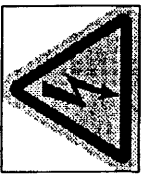
NOTE

- 전선의 색상은 다음과 같다.
 - 축색 : 교류 및 직류 전원선으로
 - 좌색 : 교류제어회로
 - 주합색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 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 변경될수있음.
5. 외함 개방구조는 다음과 같을것.
- 외함 개방시 충전부분이 차단되도록 할것.
 - 외함 개방후 충전되어있는 부분은 IP2X 이상의 피점 접촉 방호가 되어있을것.



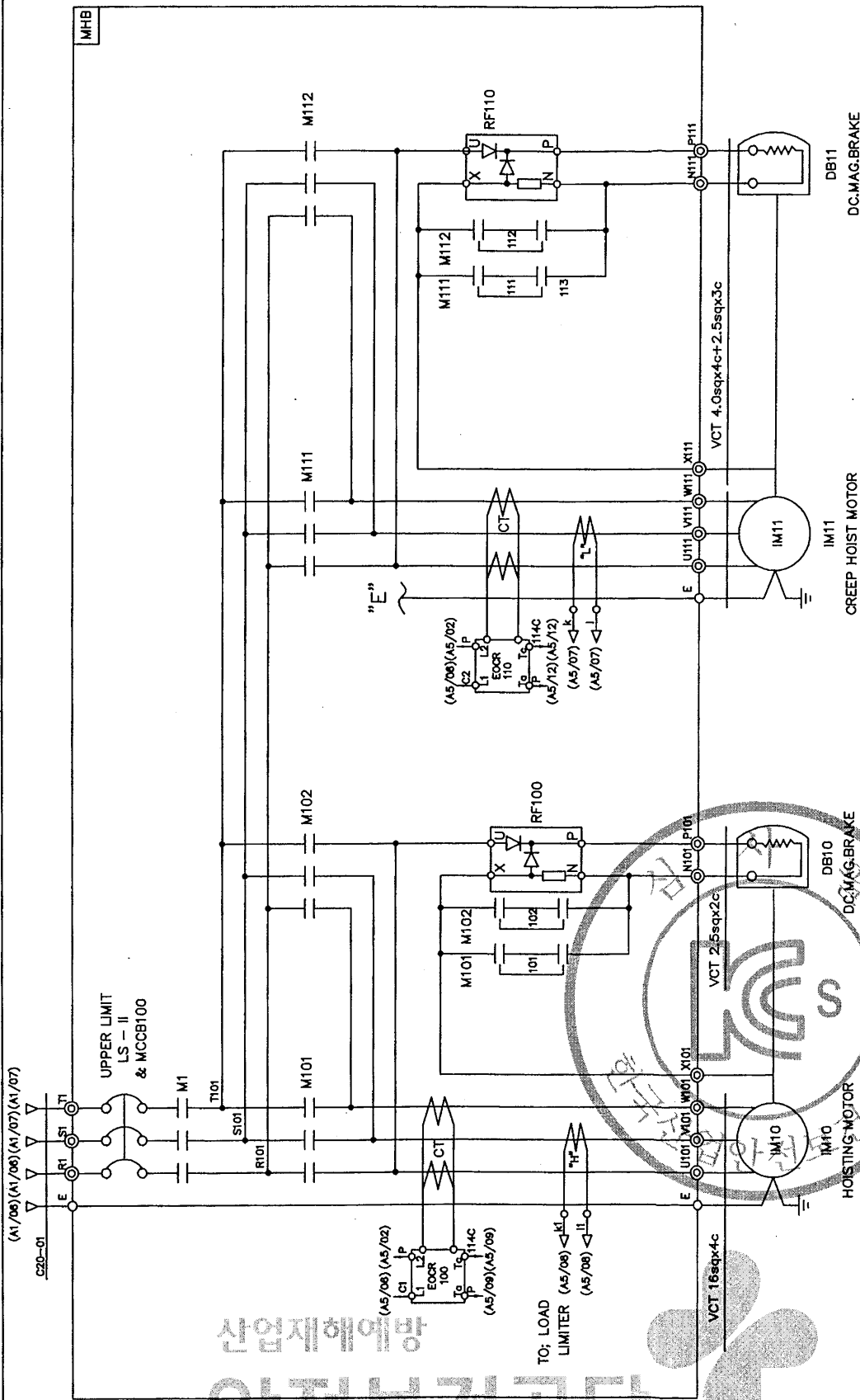
NOTE

- UPPER LIMIT LS-1의 접점 허용 전류 용량: AC 600V, 3A
- UPPER LIMIT LS-2의 접점 허용 전류 용량: NFB 53AF
- EARTH TERMINAL RESISTANCE: 0.018 Ω
- POWER SOURCE: AC 380V 60HZ



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KID KUK DONG HOIST CO., LTD.						KD10BA03
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
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										CREEP HOIST MOTION									
HOISTING MOTION										CREEP HOIST MOTION									
C20-01										B1									
ADR'S NO.										B1									



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	HOISTING 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	10TON AC 3PH 380V 60Hz	IM 10	IM 11	DB10, 11	LS-11 & MCCB100	TR 1	F11, F12	M1	M101, M102	LS-1, LS-11	EOCR100	RF100	LDL-100	C20-01
SELECTION MAKER														
DATE														
REVISIONS														
CHK.														
APP.														
CUSTOMER	KUK DONG													
DRAWING TITLE	CREEP HOISTING POWER & CONTROL													
DWG. NO	KDC10E31													
ORDER NO.	KDC10E31													

산업재해예방
안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

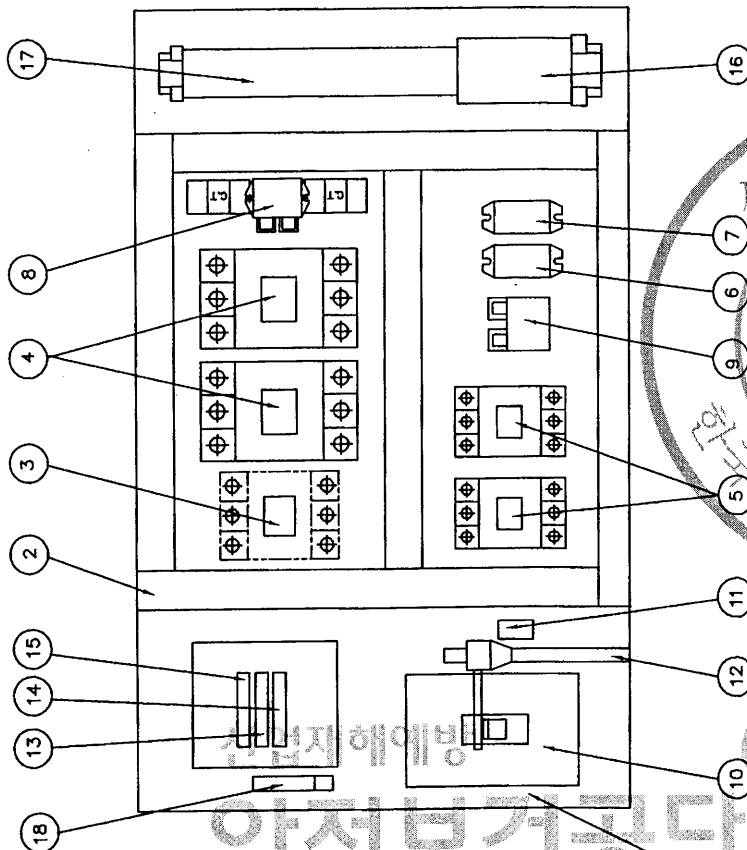
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ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC65C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	CREEP
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-05	1	CREEP
10	MCCB100	53AF/40AT	1	LS-2
11	UPPER LIMIT	AC 600V/3A	1	LS-1
12	LIMIT LEVER	SS-400	1	
13	FUSE (F11,F12)	2 A	2	
14	FUSE (F13)	5 A	1	
15	TRANSFORMER	440V/110V,120V, 200VA	1	
16	TERMINAL BLOCK	60A,25A		
17	TERMINAL BLOCK	15A		
18	EARTH TERMINAL	5tX25X50	1	

NOTE

- 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로 5) 황색 : 직류 제어선로
 - 좌색 : 교류제어회로
 - 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
- 제어용 전선 : 2.5mm KIV,HIV
 - 제작시 다소 변경될수있음.
 - 외함 개방시 충전부분이 차단되도록 할것.
 - 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



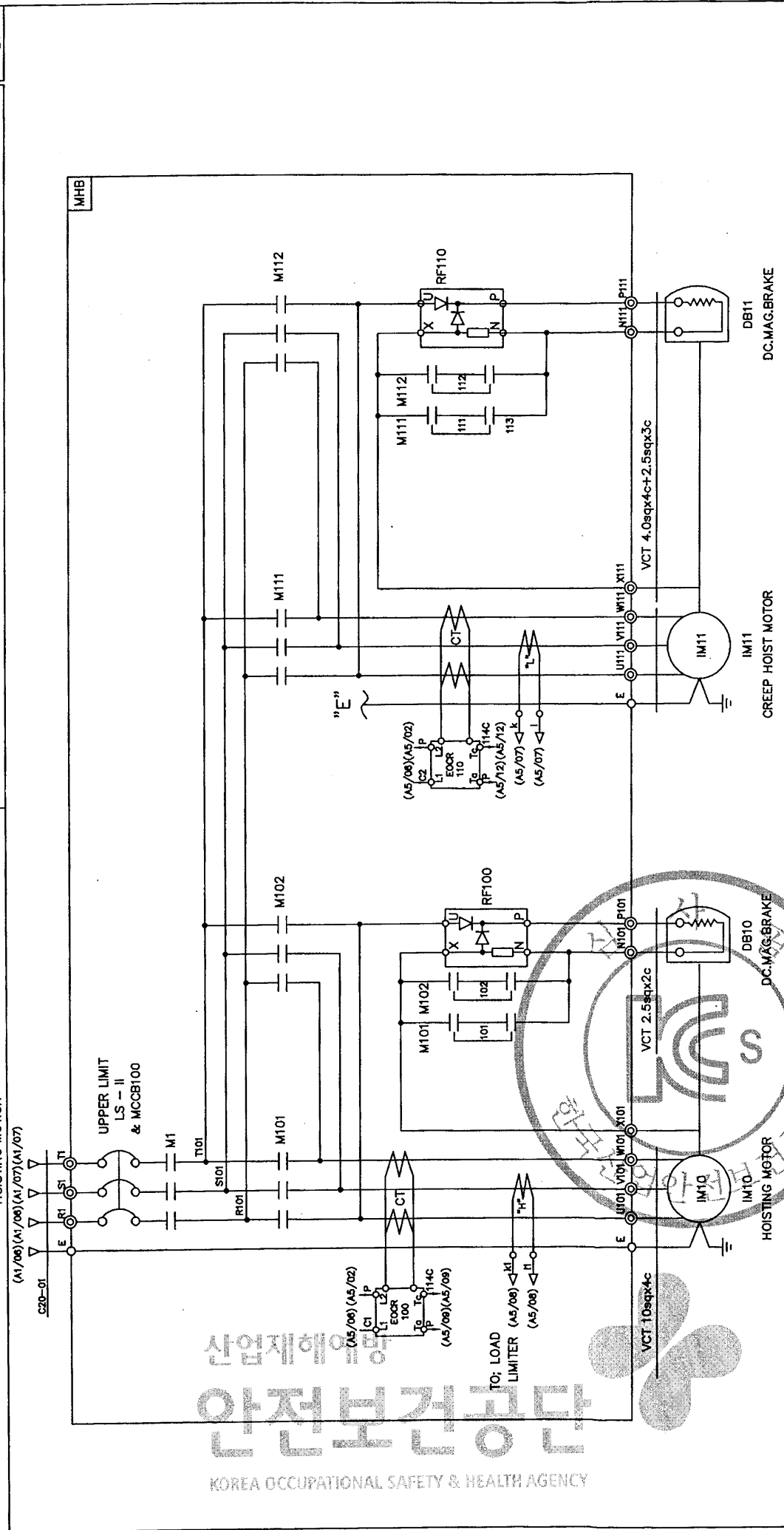
NOTE

- UPPER LIMIT LS-1의 전선 허용 전류 용량 : AC 600V, 3A
- UPPER LIMIT LS-2의 전선 허용 전류 용량 : NFB 53AF
- EARTH TERMINAL RESISTANCE : 0.018 Ω
- POWER SOURCE : AC 3Φ 440V 60HZ



KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
HOISTING CONTROL BOX						KD10BA04
ARRANGEMENT DRAWING						
MK	DATE	REVISIONS	CHK.	APP.		



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING 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	DB10, 11	LS-II & MCCB100	TR 1	F11,F12 F13	M1	M101,M102 M111,M112	LS-I, LS-II	EOCR100 EOCR110	RF100 RF110	LOAD LIMITER	C20-01	
DESCRIPTION	10TON AC3PH 440V 60Hz	9KWxBP	1.1KWxBP	DC 100V	ABS-53AF/40AT	2A 5A	DMC40C	DMC65C	DMC22C	AC 600V 3A	SS-60 SR-30	JDL-100	VCT 10sqx4c	
	KUK DONG													
SELECTION MAKER	LS				SHINHAN	-		DONG-A	DONG-A	KUK DONG	ASECO		JUNGHO	DONGIL
	CUSTOMER													
	DRAWING TITLE				CREEP HOISTING POWER & CONTROL									
	REVISIONS	CHK.	APP.	CIRCUIT DIAGRAM										
	DATE	KDD KUK DONG HOIST CO., LTD. DWG. NO KDC10E41												

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.																		
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NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC65C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	CREEP
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-05	1	CREEP
10	MC3100	53AF/40AT	1	LS-2
11	UPPER LIMIT	AC 800V/3A	1	LS-1
12	LIMIT LEVER	SS-41	1	
13	FUSE (F11,F12)	2 A	2	
14	FUSE (F13)	5 A	1	
15	TRANSFORMER	460V/110V,120V,200VA	1	
16	TERMINAL BLOCK	60A,25A		
17	TERMINAL BLOCK	15A		
18	EARTH TERMINAL	5t25x50	1	

NOTE

1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선으로 5) 청색 : 직류 제어선으로

2) 적색 : 교류 제어회로

3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

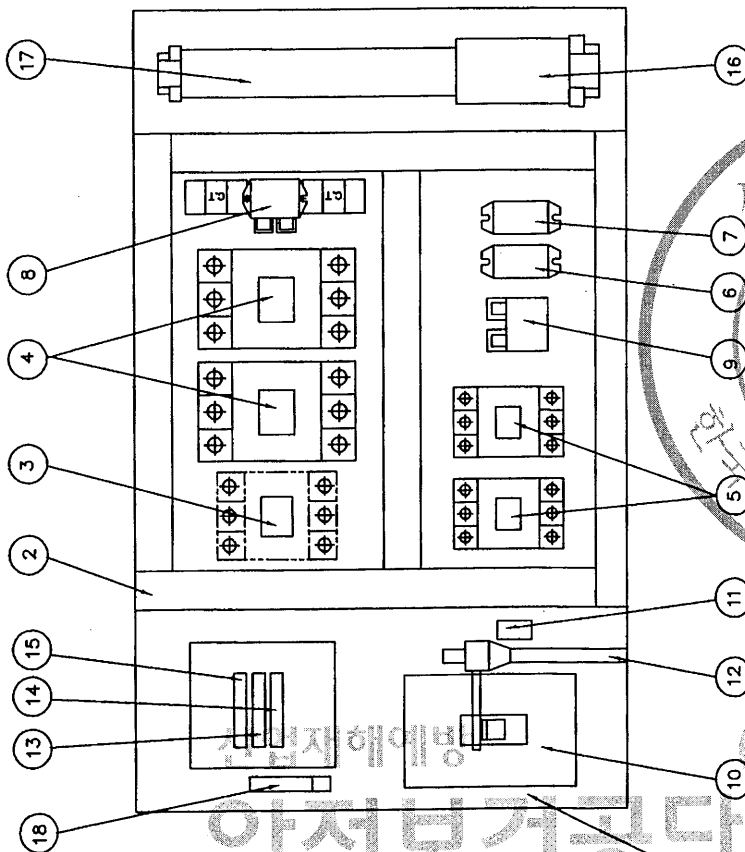
3. 제어용 전선 : 2.5mm KIV/HIV

4. 제작시 다소 변경될수있음.

5. 외함 개방후 총전부본이 차단되도록 함것.

1) 외함 개방시 총전부본이 차단되도록 함것.

2) 외함 개방후 총전부본이 차단되있는 부분은 IP2X 이상의 적접 접촉 방호가 되어있을것.



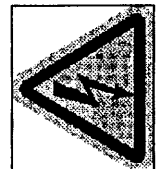
NOTE

1. UPPER LIMIT LS-1의 점접 허용 전류 용량 : AC 600V, 3A

2. UPPER LIMIT LS-2의 점접 허용 전류 용량 : NFB 53AF

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

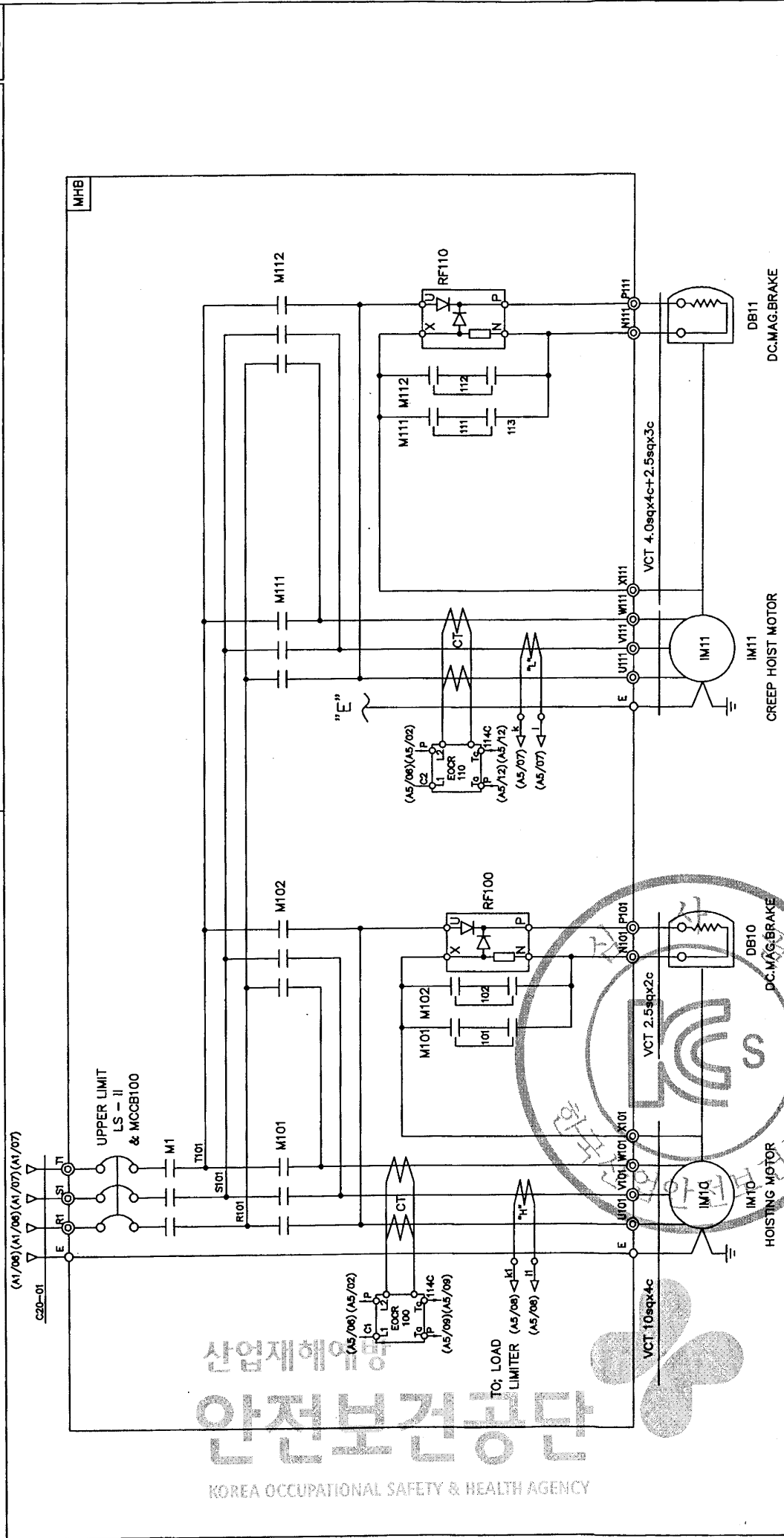
4. POWER SOURCE : AC 3φ 460V 60HZ



안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOISTING CONTROL BOX				NONE		
ARRANGEMENT DRAWING						
 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
						KD10BA05

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									



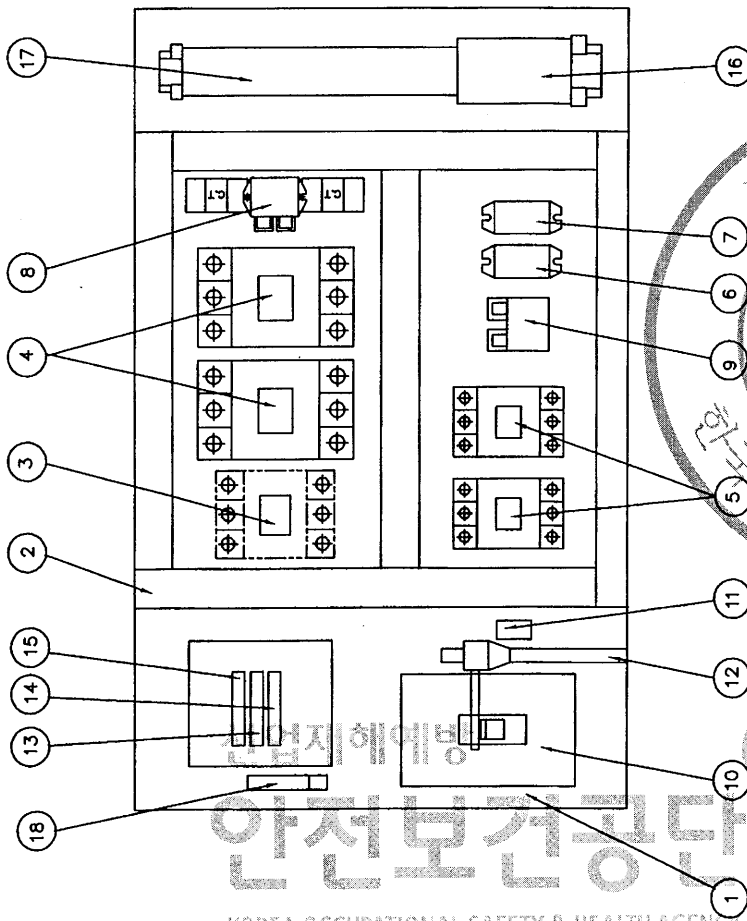
SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	10TON AC3PH 460V 60Hz	IM 10	IM 11	IM 12	TR 1	F1, F2	M1	M101, M102	LS-II, LS-III	EOCR100	RF100	LOAD LIMITER	C20-01
SELECTION MAKER													
DATE													
REVISIONS													
CHK.													
APP.													
CUSTOMER	KUK DONG												
DRAWING TITLE	CREEP HOISTING POWER & CONTROL												
DWG. NO	KDC10E51												
DATE													
ORDER NO.													

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	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC65C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	CREEP
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-05	1	CREEP
10	MCCB100	53AF/40AT	1	LS-2
11	UPPER LIMIT	AC 800V/3A	1	LS-1
12	LIMIT LEVER	SS-400	1	
13	FUSE (F11,F12)	2 A	2	
14	FUSE (F13)	5 A	1	
15	TRANSFORMER	480V/110V,120V, 200VA	1	
16	TERMINAL BLOCK	60A,25A		
17	TERMINAL BLOCK	15A		
18	EARTH TERMINAL	5tx25x50	1	

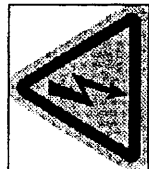
NOTE

- 전선의 색상은 다음과 같다.
 - 폭색 : 교류 및 직류 전원선으로
 - 적색 : 교류 제어회로
 - 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
- 제어용 전선 : 2.5mm KIV,HIV
 - 제작시 다소 변경될수있음.
 - 외함 개방구조는 다음과 같을것.
 - 외함 개방시 충전부분이 차단되도록 할것.
 - 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



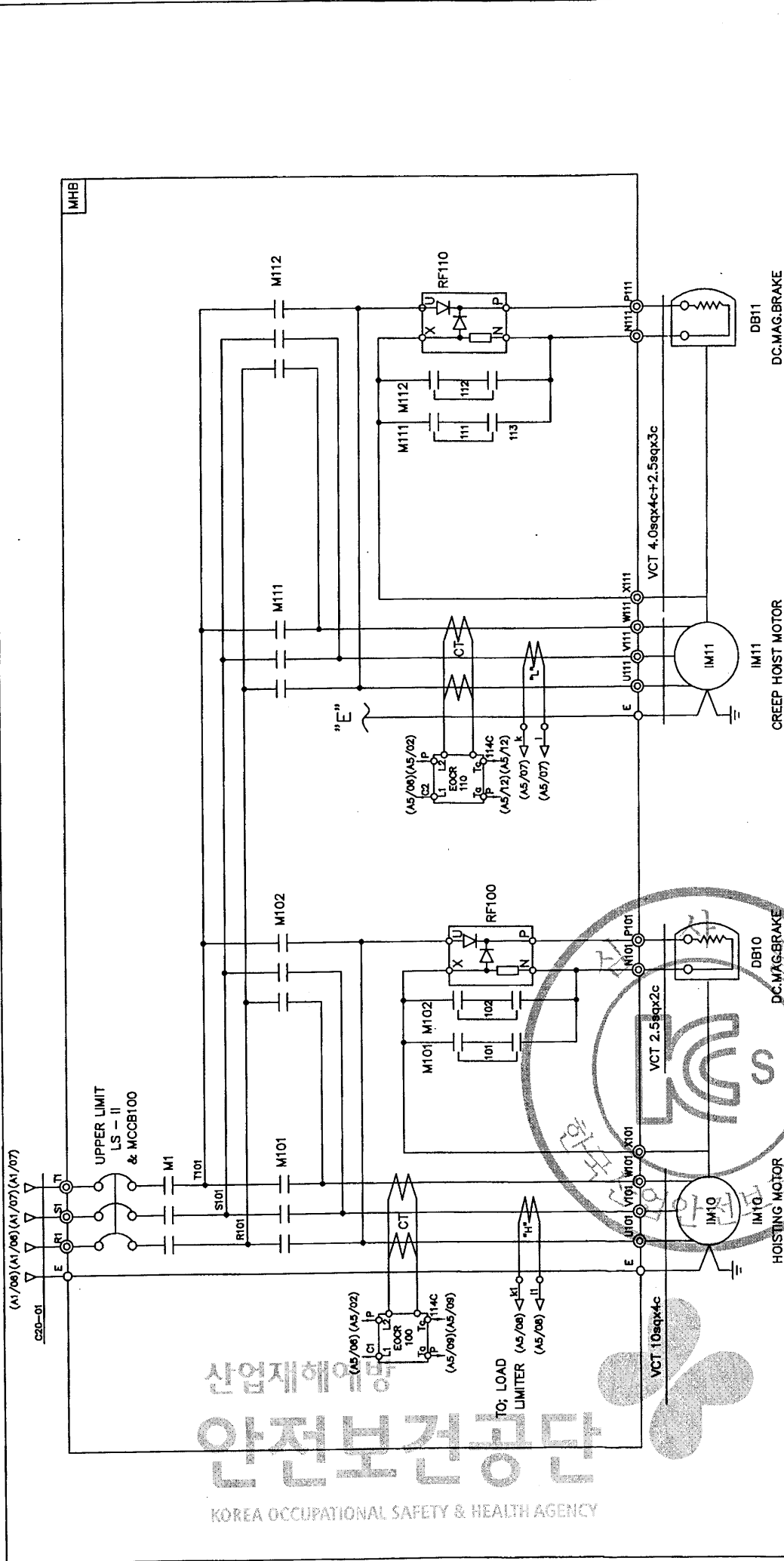
NOTE

- UPPER LIMIT LS-1의 전선 허용 전류 용량 : AC 600V, 3A
- UPPER LIMIT LS-2의 전선 허용 전류 용량 : NFB 53AF
- EARTH TERMINAL RESISTANCE : 0.018 Ω
- POWER SOURCE : AC 3φ 480V 60HZ



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
HOISTING CONTROL BOX						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
MK	DATE	CHK.	APP.			
국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO KD10BA06

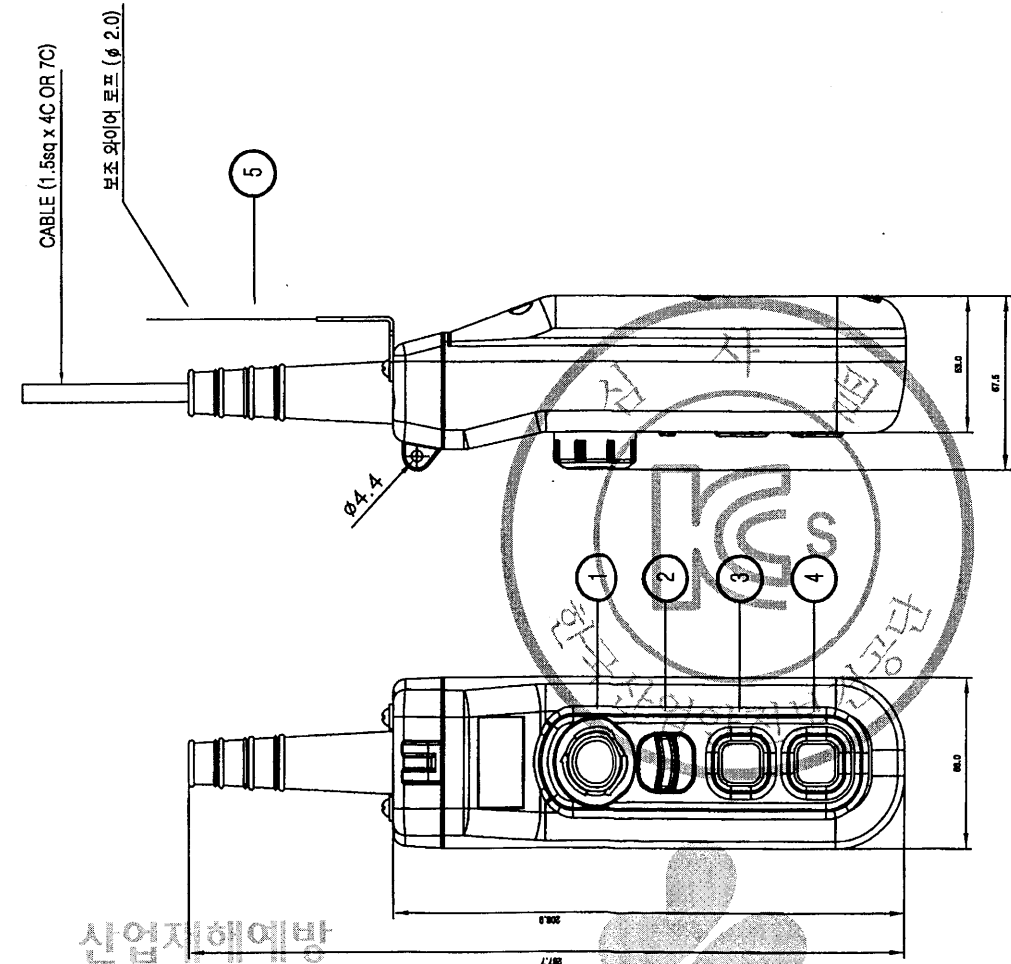
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20	
HOISTING MOTION										POWER CIRCUIT										CREEP HOIST MOTION										B1									
																														ADR'S NO.									



SPECIFICATION SYMBOLS	DESCRIPTION	HOISTING POWER	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR	HOISTING MOTOR
DESCRIPTION	HOIST	10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
SELECTION	MAKER	10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
MAKER		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
DATE		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
REVISIONS		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
CHK.		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
APP.		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
CUSTOMER		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
DRAWING TITLE		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
CREEP HOISTING POWER & CONTROL		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
CIRCUIT DIAGRAM		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
DWG. NO		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10
ORDER NO.		10TON AC3PH 480V 60Hz	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10	IM 10

■ PUSH BUTTON SWITCH (KG-H02EA)

KD



NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			
3	UP	PUSH BUTTON 2STEP		
4	DOWN	PUSH BUTTON 2STEP		
5	보조 WIRE	φ 2.0		BLACK

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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

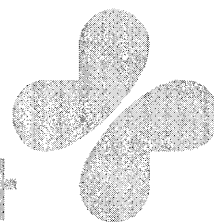
NO	DESCRIPTION	MATERIAL	QTY	SIZE	UNIT	TOTAL WEIGHT(Kg)	REMARK
Scale 1/8	DWG. CHK. APP.						PUSH BUTTON SWITCH & EMERGENCY BUTTON SWITCH KG-H02EA
Projection 3ANGLES	K.M.Seo	M.H.Kim					
Mass	Kg						
KUK DONG HOIST CO., LTD.							DWG No.

산업재해예방
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

IV. 참 고 도 서

- 1 LOAD LIMITER 권고 SETTING 치
- 2 E.O.C.R 권고 SETTING치
- 3 MOTOR DATA SHEET
- 4 사용방법 설명서 (HOIST, OLP)
- 5 PUSH BUTTON 카다록 및 IP 성적서
- 6 WIRE ROPE 성적서
- 7 SUB VENDOR LIST
- 8 INVERTER 취급설명서



LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

국동호이스트(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%				
10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	45.0 A	49.5 A	CT-2	K-K1, L-L1	5 V.A	
	6KW x 12P	110%	1 SEC	1 SEC	45.5 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	58.6 A	64.4 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	59.0 A	64.9 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	70.8 A	77.9 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	84.3 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	93.2 A	100.4 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	11.5KW x 12P	110%	1 SEC	1 SEC	70.8 A	77.9 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	84.3 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	93.2 A	100.4 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 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 380V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T. MODEL	연결 단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	26.3 A	28.9 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	33.9 A	38.3 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	34.2 A	38.8 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	41.0 A	46.8 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	23KW x 6P	110%	1 SEC	1 SEC	54.0 A	60.2 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	41.0 A	46.8 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	54.0 A	60.2 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 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

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%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	22.7 A	24.9 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	29.3 A	33.4 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	29.5 A	33.6 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	35.4 A	39.7 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	38.3 A	42.1 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	23KW x 6P	110%	1 SEC	1 SEC	46.6 A	50.3 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	35.4 A	39.7 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	17KW x 8P	110%	1 SEC	1 SEC	38.3 A	42.1 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	46.6 A	50.3 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

(카)시이아바다

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	SHOCK TIME	ADJ START TIME	100%	110%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	21.9 A	24.1 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	28.1 A	32.0 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	28.4 A	32.1 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	33.9 A	37.7 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.5 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	23KW x 6P	110%	1 SEC	1 SEC	44.5 A	48.3 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	33.9 A	37.7 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.5 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	44.5 A	48.3 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	

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

국동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	21.0 A	23.1 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	26.9 A	31.1 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	27.2 A	31.4 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	32.5 A	36.9 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	39.6 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	23KW x 6P	110%	1 SEC	1 SEC	42.6 A	46.9 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	32.5 A	36.9 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	39.6 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	42.6 A	46.9 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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



안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	45.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	45.0 A	
	6KW x 12P	45.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	45.5 A	
15 TON	8.5KW x 12P	58.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.6 A	
	13KW x 8P	59.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	59.0 A	
20 TON	11.5KW x 12P	70.8 A	1 DRAVE	SS-100	3 SEC	1 SEC	70.8 A	
	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 A	
30 TON	23KW x 6P	93.2 A	1 DRAVE	SS-100	3 SEC	1 SEC	93.2 A	
	11.5KW x 12P	70.8 A	1 DRAVE	SS-100	3 SEC	1 SEC	70.8 A	
35 TON	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 A	
	23KW x 6P	93.2 A	1 DRAVE	SS-100	3 SEC	1 SEC	93.2 A	
40 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
50 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
60 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
70 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	

NOTE

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



안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	26.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.0 A	
	6KW x 12P	26.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	26.3 A	
15 TON	8.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
	13KW x 8P	34.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	34.2 A	
20 TON	11.5KW x 12P	41.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	41.0 A	
	17KW x 8P	44.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.3 A	
	23KW x 6P	54.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	54.0 A	
	11.5KW x 12P	41.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	41.0 A	
30 TON	17KW x 8P	43.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	43.3 A	
	23KW x 6P	54.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	54.0 A	
	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
40 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
50 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
60 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
70 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 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

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	22.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.5 A	
	6KW x 12P	22.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.7 A	
15 TON	8.5KW x 12P	29.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.3 A	
	13KW x 8P	29.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.5 A	
20 TON	11.5KW x 12P	35.4 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.4 A	
	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	23KW x 6P	44.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.6 A	
	11.5KW x 12P	35.4 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.4 A	
30 TON	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	23KW x 6P	44.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.6 A	
	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
40 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
50 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
60 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
70 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 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	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 A	
	6KW x 12P	21.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.9 A	
15 TON	8.5KW x 12P	28.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.1 A	
	13KW x 8P	28.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.4 A	
20 TON	11.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
	17KW x 8P	36.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	36.7 A	
	23KW x 6P	44.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.5 A	
30 TON	11.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
	17KW x 8P	36.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	36.7 A	
	23KW x 6P	44.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.5 A	
35 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
40 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
50 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
60 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
70 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	

NOTE

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

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60HZ

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	20.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.6 A	
	6KW x 12P	21.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.0 A	
15 TON	8.5KW x 12P	26.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.9 A	
	13KW x 8P	27.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	27.2 A	
	11.5KW x 12P	32.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	32.5 A	
20 TON	17KW x 8P	35.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.2 A	
	23KW x 6P	42.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	42.6 A	
	11.5KW x 12P	32.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	32.5 A	
30 TON	17KW x 8P	35.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.2 A	
	23KW x 6P	42.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	42.6 A	
	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
40 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
50 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
60 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
70 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 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 HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 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 deg °C
10. FULL LOAD CURRENT	53.0 A
11. LOCKED MOTOR CURRENT	318.0 A
12. MINIMUM STARTING VOLTAGE	200 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 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 deg °C
10. FULL LOAD CURRENT	30.7 A
11. LOCKED MOTOR CURRENT	184.1 A
12. MINIMUM STARTING VOLTAGE	345 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

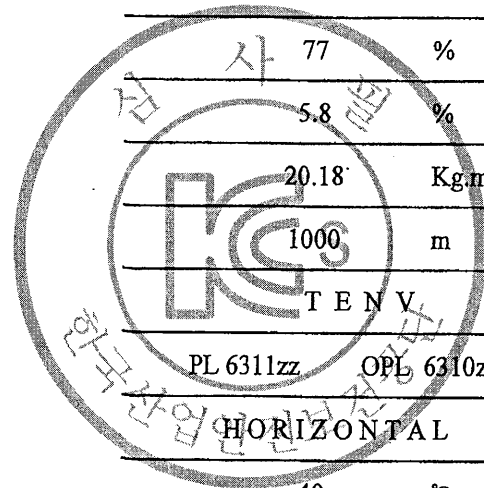
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 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 deg °C
10. FULL LOAD CURRENT	26.5 A
11. LOCKED MOTOR CURRENT	159.0 A
12. MINIMUM STARTING VOLTAGE	400 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTNG HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 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 deg °C
10. FULL LOAD CURRENT	25.4 A
11. LOCKED MOTOR CURRENT	152.4 A
12. MINIMUM STARTING VOLTAGE	418 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	



산업재해예방
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTNG HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 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 deg °C
10. FULL LOAD CURRENT	24.3 A
11. LOCKED MOTOR CURRENT	146.1 A
12. MINIMUM STARTING VOLTAGE	436 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	

산업안전보건공단

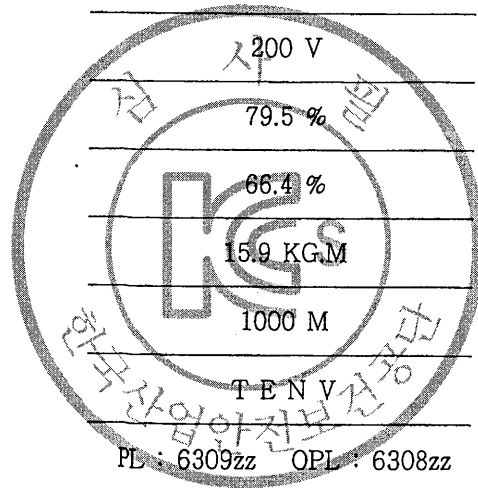
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 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 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	45.0 A
12. STARTING CURRENT AT RATED VOLTAGE	213 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 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	846 RPM
11. FULL LOAD CURRENT	26.0 A
12. STARTING CURRENT AT RATED VOLTAGE	122.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PD : 6309zz OPL : 6308zz
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	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 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 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	22.5 A
12. STARTING CURRENT AT RATED VOLTAGE	106.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FÁCTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

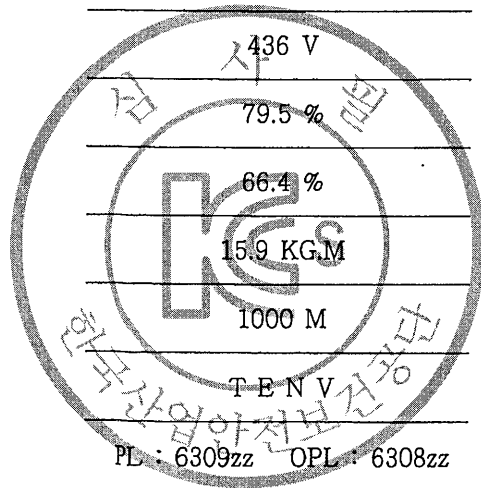
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 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	846 RPM
11. FULL LOAD CURRENT	21.5 A
12. STARTING CURRENT AT RATED VOLTAGE	102.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
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	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 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 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	20.6 A
12. STARTING CURRENT AT RATED VOLTAGE	97.97 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 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 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	45.4 A
12. STARTING CURRENT AT RATED VOLTAGE	192.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
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	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 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 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	26.3 A
12. STARTING CURRENT AT RATED VOLTAGE	11.62 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
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	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 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 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	22.7 A
12. STARTING CURRENT AT RATED VOLTAGE	96.4 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
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	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 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	564 RPM
11. FULL LOAD CURRENT	21.9 A
12. STARTING CURRENT AT RATED VOLTAGE	92.12 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
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	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 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	564 RPM
11. FULL LOAD CURRENT	21.2 A
12. STARTING CURRENT AT RATED VOLTAGE	88.36 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE