제 2014 - 25799 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

KDC5/1-MA (5/1Ton) /14-AQ2AC-02275

인 증 기 준

고용노동부 고시 제2012 - 33호 (위험기계,기구 의무안전인증 고시)

인 증 조 건

인증유효기간 :

2014년 07월 11일

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)	KDC5/1-MA	용 량 (등 급)	5/1 Ton

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.

2014년 07월 07일

인증심사원 강성두 변명수 (서명 또는 인)

한국산업안전보건공단 경기서부지사장

서 면 심 사 서 류

형식 번호 : KDC5/1-MA

극 동 호 이 스 트 (주)

工場 : 경기도 안산시 단원구 해봉로 119 (성곡동)

電話 : 031) 491 - 5311

FAX : 031) 494 - 5315

동 일 형 식 일 람 표

사업장명	극동호이스트㈜	개정일자 및 번호	2014년6월23일	인증번호	
형식 및 모델		동일 형식 인정범위 및 내역			비 고
형식	모델	권상속도(m/min)	횡행속도(m/min)	양정(m)	횡행방식	
KDC5/1-C6/1-MA	KDC5/1-L12-MA	MAIN(5T) 고속: 5.6M/MIN CREEP: 0.56M/MIN AUX(1T) 고속: 12M/MIN CREEP: 1.2M/MIN	고속: 24M/MIN 저속: 16M/MIN	12	모터구동식	
	KDC5/1-L18-MA			18		
	KDC5/1-L24-MA			24		
	KDC5/1-L30-MA			30		

1. 사 양 서

1) 호이스트 설계 조건

호 이 스 트 설 계 조 건

항 목			내 용	
모 델 명			KDC5/1 – L12(18,24) –MA	
품 명			이중 레일식 와이어 호이스트	
정격하중	주 권	정격하중	5 TON	–
		시험하중	6.25 TON	–
	보 권	정격하중	–	1 TON
		시험하중	–	1.25 TON
달기구	종 류		SINGLE HOOK & DOUBLE HOOK	
	자체하중		0.05	0.01
양 정 (LIFT)			12,18,24 M	
호이스트 (HOIST)	HIGH	SPEED	5.6/0.56 M/MIN	12/1.2 M/MIN
		MOTOR	5.5/1.0 KW x 6P	2.4/0.4 KW x 4P
	BRAKE		D.C MAGNET DISC BRAKE	
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75KW x 4P	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.6KW x 6P	
	BRAKE		D.C MAGNET DISC BRAKE	
WIRE ROPE			(6x37) ø12.5 x 4 FALLS	ø8 x 2 FALLS
POWER SOURCE	MAIN		AC ø3 x 220V (380,415,440,460,480V) x 60Hz	
	CONTROL		AC ø1x 110V(220V) x 60Hz	
CONTROL METHOD			F.L 상 PUSH BUTTON 조작방식	
방 호 장 치			과부하방지장치,과권방지장치,HOOK 해지장치 횡행STOPPER,비상정지장치	
사 용 용 도			창고용 , 정비용 , 일반화물 인양작업	
설 치 위 치			☒옥 내	☒옥 외
하중을 받는 회수			$1.2x10^5$회	$2.5x10^5$회 미만
사 용 조 건			정격하중 63[illegible] 하의 하중용 HOIST	
주 위 온 도			–10 [illegible] 0℃ 이내	
방 폭 구 조 사 용 유 무			☐유	☒무

호 이 스 트 설 계 조 건

항 목			내 용	
모 델 명			KDC5/1 – L30 –MA	
품 명			이중 레일식 와이어 호이스트	
정격하중	주 권	정격하중	5 TON	–
		시험하중	6.25 TON	–
	보 권	정격하중	–	1 TON
		시험하중	–	1.25 TON
달기구	종 류		SINGLE HOOK & DOUBLE HOOK	
	자체하중		0.05	0.01
양 정 (LIFT)			30 M	
호이스트 (HOIST)	HIGH	SPEED	5.6/0.56 M/MIN	12/1.2 M/MIN
		MOTOR	5.5/1.0 KW x 6P	2.4/0.4 KW x 4P
	BRAKE		D.C MAGNET DISC BRAKE	
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75KW x 4P (2 UNIT)	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.5KW x 6P (2 UNIT)	
	BRAKE		D.C MAGNET DISC BRAKE	
WIRE ROPE			(6x37) ø12.5 x 4 FALLS	ø8 x 2 FALLS
POWER SOURCE	MAIN		AC ø3 x 220V (380,440,460,480V) x 60Hz	
	CONTROL		AC ø1x 110V(220V) x 60Hz	
CONTROL METHOD			F.L 상 PUSH BUTTON 조작방식	
방 호 장 치			과부하방지장치,과권방지장치,HOOK 해지장치, 횡행STOPPER,비상정지장치	
사 용 용 도			창고용 , 정비용 , 일반화물 인양작업	
설 치 위 치			☒옥 내	☒옥 외
하중을 받는 회수			$1.2x10^5$회	$2.5x10^5$회 미만
사 용 조 건			정격하중 63[illegible]하의 하중용 HOIST	
주 위 온 도			–10 [illegible]0℃ 이내	
방 폭 구 조 사 용 유 무			□유	☒무

5) 방호장치의 성능검사 합격증 사본

제 2012-BJ-0009 호

안 전 인 증 서

정호엔지니어링

경기도 광명시 노동사동 440-5

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

품 목

양중기용 과부하방지장치

형식·모델/용량·등급/인증번호

형식·모델	용량·등급	인증번호
JDL-100	J-2	12-AV2BJ-0009

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

아래 주소에서 생산되는 제품에 한함.

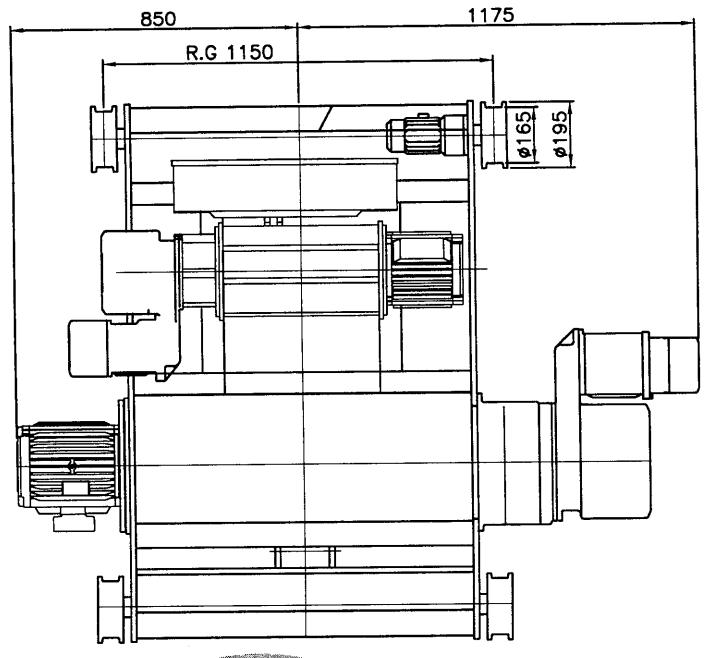
정호엔지니어링, 경기도 광명시 노동사동 440-5

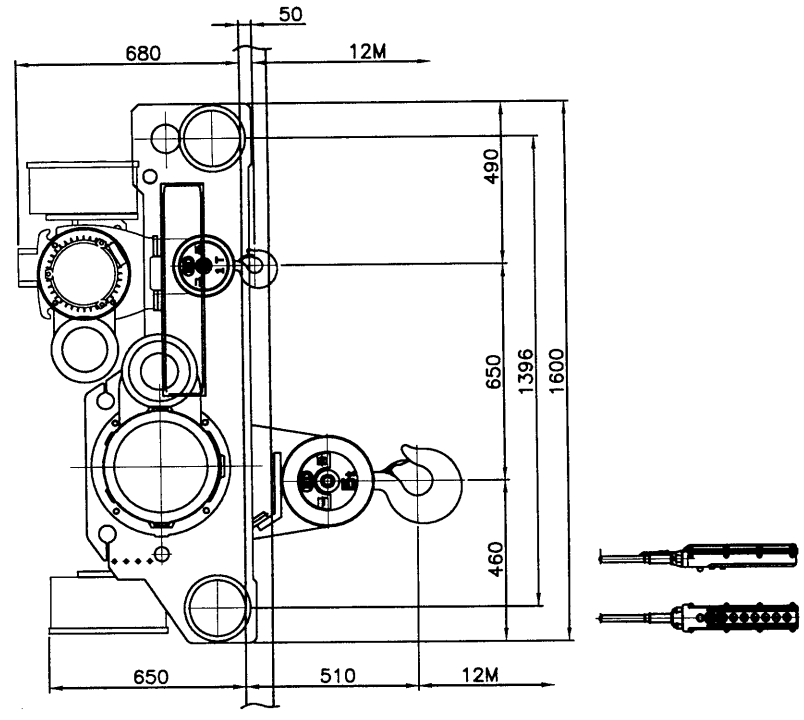
2012년 06월 11일

한국산업안전보건공단 이사장

2. 도 면

1) 기　　계





극동호이스트
제한하중
5000KG

VIEW A

극동호이스트
제한하중
1000KG

VIEW B

SPECIFICATION				
RATED LOAD		5000 KG		1000 KG
TESTING LOAD		6250 KG		1250 KG
LIFT		12 M		
HOISTING	HIGH	SPEED	5.6 / 0.56M/MIN	12 / 1.2M/MIN
		MOTOR	5.5/ 1.0 KWx6P	2.4 / 0.4 KWx4P
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75KW x 4P	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.5KW x 6P	
WIRE ROPE		(6x37) ø12.5x4FALLS		ø8x2FALLS
POWER SOURCE		AC#3 220,380,440,460,480V 60Hz		
TRAVERSING RAIL		15 KG/M		
GROSS WEIGHT		1350 KG		

NO.	DESCRIPTION	MT'L	SUB QTY	TOTAL QTY	SUB WEIGHT(Kg)	TOTAL WEIGHT(Kg)	REMARKS.
5	T/S RAIL	–		–			15KG/M
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	EMERGENCY S/W	–		1			
1	LOAD LIMITER	–		1			

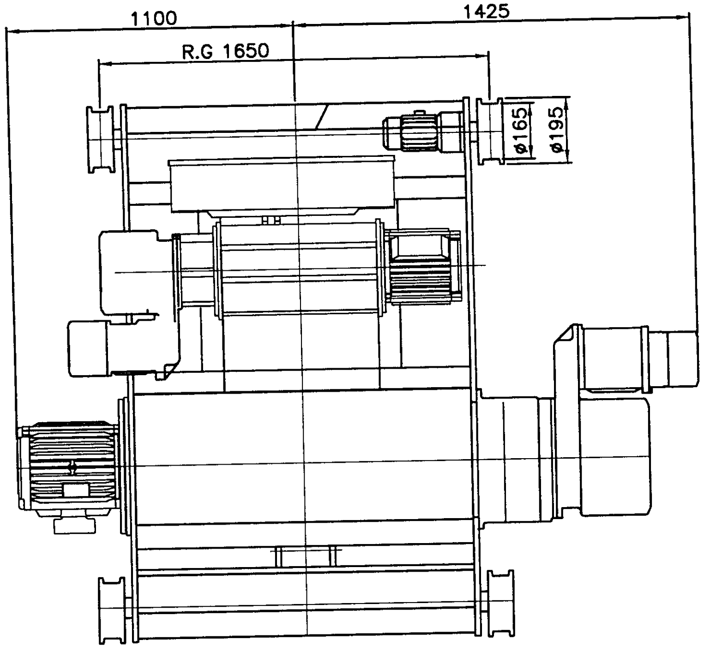
PROJECT		DATE	DIM
			mm
TITLE	KDC5/1-L12-MA ARIANGEMENT DRAWING FOR HOIST	SCALE A3/20	PROJECTION 3rd

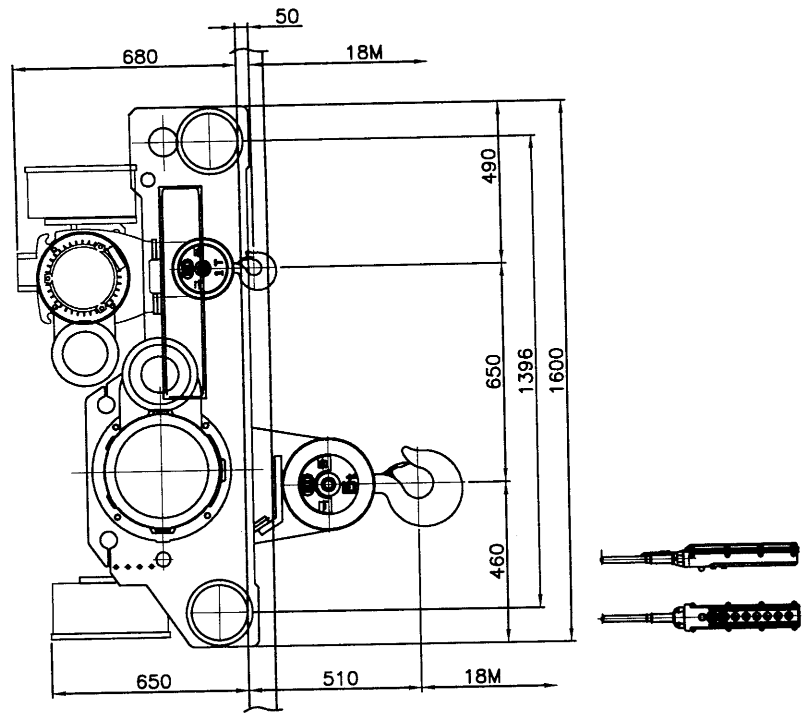
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET No.

DWG No. KDC51120





극동호이스트
제한하중
5000KG

VIEW A

극동호이스트
제한하중
1000KG

VIEW B

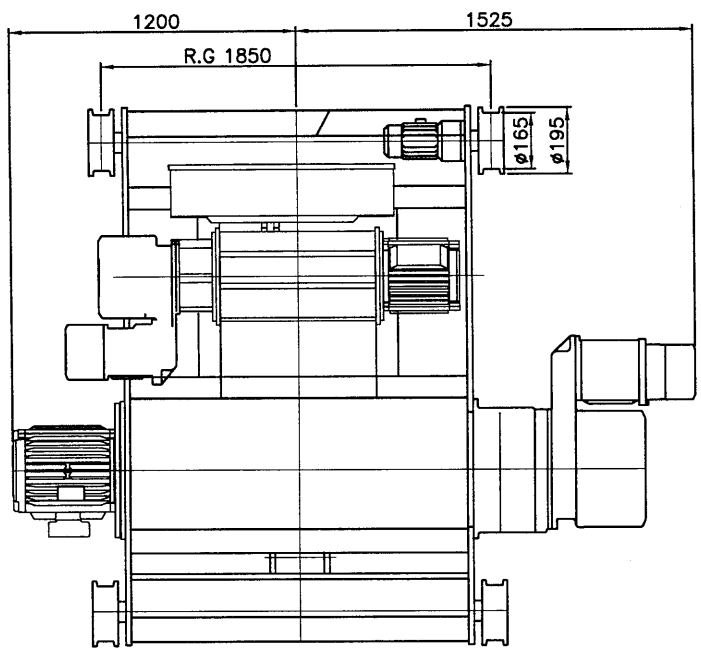
SPECIFICATION				
RATED LOAD			5000 KG	1000 KG
TESTING LOAD			6250 KG	1250 KG
LIFT			18 M	
HOISTING	HIGH	SPEED	5.6 / 0.56M/MIN	12 / 1.2M/MIN
		MOTOR	5.5/ 1.0 KWx6P	2.4 / 0.4 KWx4P
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75KW x 4P	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.5KW x 6P	
WIRE ROPE			(6x37) ø12.5x4FALLS	ø8x2FALLS
POWER SOURCE			AC ø3 220,380,440,460,480V 60Hz	
TRAVERSING RAIL			15 KG/M	
GROSS WEIGHT			1450 KG	

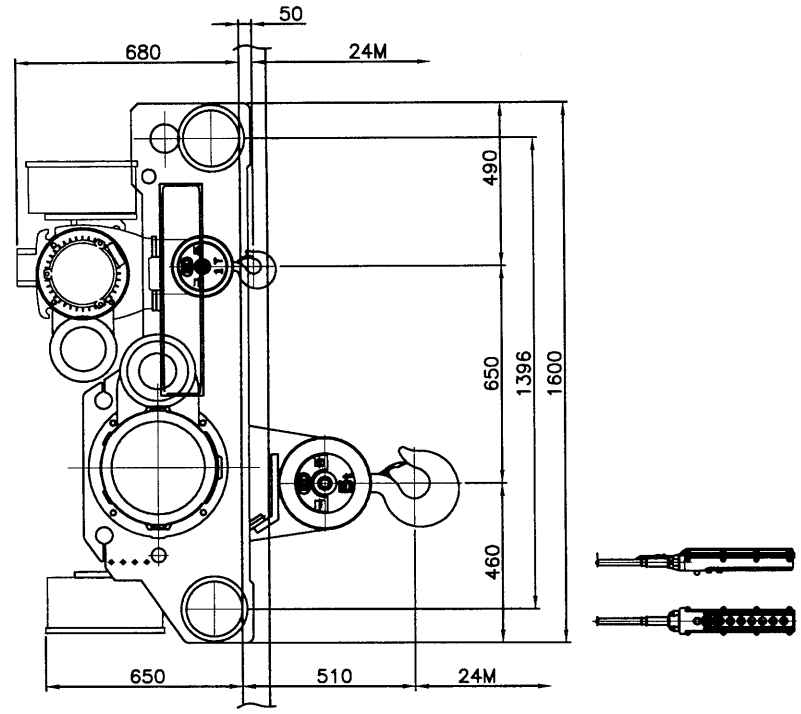
NO.	DESCRIPTION	MT'L	QTY SUB	QTY TOTAL	WEIGHT(Kg) SUB	WEIGHT(Kg) TOTAL	REMARKS.
5	T/S RAIL	–		–			15KG/M
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	EMERGENCY S/W	–		1			
1	LOAD LIMITER	–		1			

PROJECT		DATE	DIM
			mm
TITLE	KDC5/1-L18-MA ARIANGEMENT DRAWING FOR HOIST	SCALE	PROJECTION
		A3/20	3rd

DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET No.	DWG No. KDC51180





극동호이스트
제한하중
5000KG

VIEW A

극동호이스트
제한하중
1000KG

VIEW B

SPECIFICATION				
RATED LOAD		5000 KG		1000 KG
TESTING LOAD		6250 KG		1250 KG
LIFT		24 M		
HOISTING	HIGH	SPEED	5.6 / 0.56M/MIN	12 / 1.2M/MIN
		MOTOR	5.5/ 1.0 KWx6P	2.4 / 0.4 KWx4P
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75KW x 4P	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.5KW x 6P	
WIRE ROPE		(6x37) ø12.5x4FALLS		ø8x2FALLS
POWER SOURCE		AC#3 220,380,440,460,480V 60Hz		
TRAVERSING RAIL		15 KG/M		
GROSS WEIGHT		1600 KG		

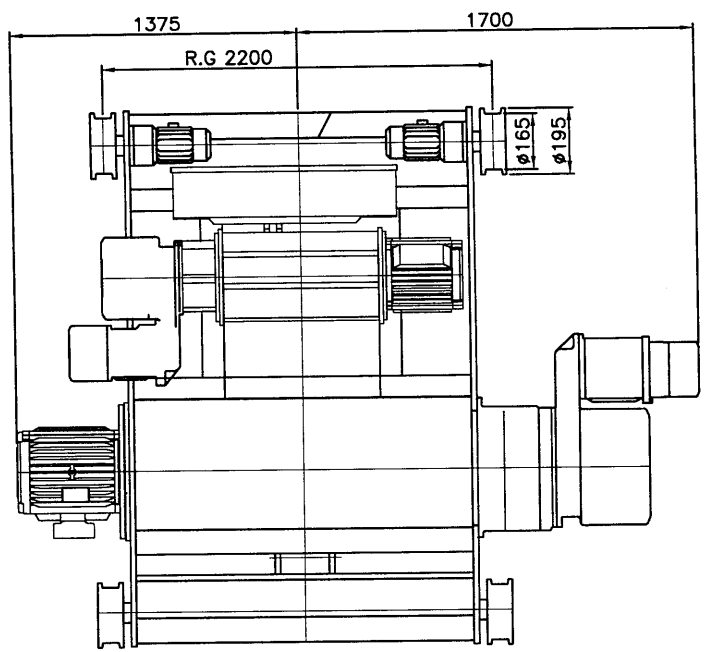
NO.	DESCRIPTION	MT'L	SUB QT'Y	TOTAL QT'Y	SUB WEIGHT(Kg)	TOTAL WEIGHT(Kg)	REMARKS.
5	T/S RAIL	–		–			15KG/M
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	EMERGENCY S/W	–		1			
1	LOAD LIMITER	–		1			

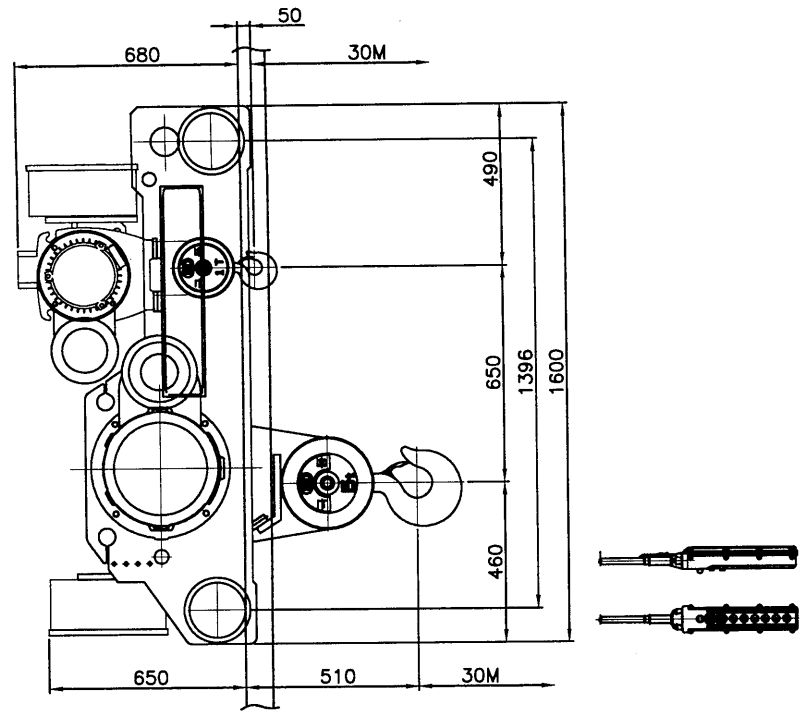
PROJECT		DATE	DIM
			mm
TITLE	KDC5/1–L24–MA ARIANGEMENT DRAWING FOR HOIST	SCALE	PROJECTION
		A3/20	3rd
DRAWN	DESIGNED / CHECKED / APPROVED	REF. DRAWING	

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

SHEET No.

DWG No. KDC51240





극동호이스트
제한하중
5000KG
VIEW A

극동호이스트
제한하중
1000KG
VIEW B

SPECIFICATION				
RATED LOAD		5000 KG		1000 KG
TESTING LOAD		6250 KG		1250 KG
LIFT		30 M		
HOISTING	HIGH	SPEED	5.6 / 0.56M/MIN	12 / 1.2M/MIN
		MOTOR	5.5/ 1.0 KWx6P	2.4 / 0.4 KWx4P
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75KW x 4P (2 UNIT)	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.5KW x 6P (2 UNIT)	
WIRE ROPE		(6x37) ø12.5x4FALLS		ø8x2FALLS
POWER SOURCE		AC3 220,380,440,460,480V 60Hz		
TRAVERSING RAIL		15 KG/M		
GROSS WEIGHT		1750 KG		

NO.	DESCRIPTION	MT'L	QTY SUB	QTY TOTAL	WEIGHT(Kg) SUB	WEIGHT(Kg) TOTAL	REMARKS.
5	T/S RAIL	–		–			15KG/M
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	EMERGENCY S/W	–		1			
1	LOAD LIMITER	–		1			

PROJECT		DATE	DIM
			mm
TITLE	KDC5/1-L30-MA ARIANGEMENT DRAWING FOR HOIST	SCALE A3/20	PROJECTION 3rd
DRAWN	DESIGNED / CHECKED / APPROVED	REF. DRAWING	

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

SHEET No.

DWG No. KDC51300

2) 전　　기

ELECTRICAL SYMBOL LIST

DESCRIPTION	SYMBOLS
3 PHASE SQUIRREL CAGE ROTOR INDUCTION MOTOR	IM
3 PHASE WOUND ROTOR INDUCTION MOTOR	
G. BRAKE DISK TYPE	
TOR BRAKE	B-TH
C MAG.	B-MD
SC BRAKE	B-SC
BRAKE	B-EC
RECTIFIER	
LOAD LI ELECTRIC E	

DESCRIPTION	SYMBOLS
NO FUSE BREAKER 2 PHASE	
NO FUSE BREAKER 3 PHASE	
EARTH LEAKAGE BREAKER 2 PHASE	
EARTH LEAKAGE BREAKER 3 PHASE	
TRANSFORMER	
CURRENT TRANSFORMER	
POTENTIAL TRANSFORMER	
FUSE	
FUSE WITH CONTACTOR	
THYRISTOR UNIT	

DESCRIPTION	SYMBOLS	
	MAKE	BREAK
MAGNETIC & RELAY CONTACTOR		
ON DELAY TIME CONTACTOR		
OFF DELAY TIME CONTACTOR		
EOCR OR THERMAL RELAY CONTACTOR		
THERMOSTAT		
LIMIT SWITCH		
PUSHBUTTON SWITCH		
EMERGENCY PUSHBUTTON SWITCH		
KEY SWITCH		
FOOT SWITCH		

DESCRIPTION	SYMBOLS	
	MAKE	BREAK
PUSHBUTTON SWITCH 1BUTTON 2STEP TYPE		
TOGGLE SWITCH OR SELLECTOR SWITCH		

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER	
DRAWING TITLE	SYMBOL LIST 1/2

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KDSM0001

ADR'S NO.

ELECTRICAL SYMBOL LIST

DESCRIPTION	SYMBOLS
WIRE INTERNAL TO ENCLOSURE	
WIRE EXTERNAL TO ENCLOSURE	
NOT CONNECTED	
CONNECTED	
TERMINAL	
GROUND (EARTH)	
PLUG & RECEPTACLE	
MAGNETIC CONTACTOR COIL	M
AUX. RELAY	CR
T	T

DESCRIPTION	SYMBOLS
CONTROLLER OR REMOTE CONTROLLER CONTACTOR	
UPPER LIMIT SWITCH (LS-II)	
THERMAL RELAY	
PILOT(SIGNAL) LAMP	
ROTARY LAMP	
WARING SIREN	
BUZZER	
AMMETER	A AC / A DC
VOLT METER	V AC / V DC
FLUORESCENCE LAMP	

DESCRIPTION	SYMBOLS
SOLENOID COIL	
RESISTER	
VARIABLE RESISTOR	
SLIP RING	
CABLE REEL	
SPACE HEATER	
SURGE ABSORBER	
LOAD CELL	
BALLAST WITH RECEPTACLE	
FAN	

DESCRIPTION	SYMBOLS
FLOOD LIGHTING	
RECEPTACLE	

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER

DRAWING TITLE: SYMBOL LIST 2/2

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDSM0002

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 HIGH HOIST	MAIN	5.5KW x 6P 30 MIN	28.20 A	VCT 10sq	16.30 A	VCT 6sq	14.1 A	13.5 A	12.9 A	VCT 6sq	DC MAG. BRAKE	
	CREEP	1.0KW x 6P 30 MIN	6.70 A	VCT 4.0sq	3.90 A	VCT 4.0sq	3.3 A	3.2 A	3.1 A	VCT 4.0sq	DC MAG. BRAKE	
AUX HIGH HOIST	MAIN	2.4KW x 4P 30 MIN	10.00 A	VCT 4.0sq	5.80 A	VCT 4.0sq	5.0 A	4.8 A	4.6 A	VCT 4.0sq	DC MAG. BRAKE	
	CREEP	0.4KW x 4P 30 MIN	2.70 A	VCT 4.0sq	1.60 A	VCT 4.0sq	1.4 A	1.3 A	1.2 A	VCT 4.0sq	DC MAG. BRAKE	
TRAVERSING	HIGH	0.75KW x 4P 30 MIN	4.10 A	VCT 4.0sq	2.40 A	VCT 4.0sq	2.00 A	2.00 A	1.90 A	VCT 4.0sq	DC MAG. BRAKE	1 DRIVE
	LOW	0.5KW x 6P 30 MIN	3.40 A	VCT 4.0sq	2.00 A	VCT 4.0sq	1.70 A	1.70 A	1.60 A	VCT 4.0sq	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		
LIGHTI[illegible] ACC'Y CIRCUIT												
SUB [illegible]AD)	HIGH		[illegible]4.30 A	VCT 16sq	2[illegible].70 A	VCT 6sq	18.10 A	17.50 A	16.80 A	VCT 6sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL [illegible]MAL LOAD)	LOW		[illegible]3.6[illegible] A	VCT 16sq	2[illegible].30 A	VCT 6sq	17.80 A	17.20 A	16.50 A	VCT 6sq	I(A)=M/H + T/S + ASS'Y	

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

*. 위 계산은 LIFT 12,18,24M에 적용.

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 HIGH HOIST	MAIN	5.5KW x 6P 30 MIN	28.20 A	VCT 10sq	16.30 A	VCT 6sq	14.1 A	13.5 A	12.9 A	VCT 6sq	DC MAG. BRAKE	
	CREEP	1.0KW x 6P 30 MIN	6.70 A	VCT 4.0sq	3.90 A	VCT 4.0sq	3.3 A	3.2 A	3.1 A	VCT 4.0sq	DC MAG. BRAKE	
AUX HIGH HOIST	MAIN	2.4KW x 4P 30 MIN	10.00 A	VCT 4.0sq	5.80 A	VCT 4.0sq	5.0 A	4.8 A	4.6 A	VCT 4.0sq	DC MAG. BRAKE	
	CREEP	0.4KW x 4P 30 MIN	2.70 A	VCT 4.0sq	1.60 A	VCT 4.0sq	1.4 A	1.3 A	1.2 A	VCT 4.0sq	DC MAG. BRAKE	
TRAVERSING	HIGH	0.75KW x 4P 30 MIN	4.10 A	VCT 4.0sq	2.40 A	VCT 4.0sq	2.00 A	2.00 A	1.90 A	VCT 4.0sq	DC MAG. BRAKE	2 DRIVE
	LOW	0.5KW x 6P 30 MIN	3.40 A	VCT 4.0sq	2.00 A	VCT 4.0sq	1.70 A	1.70 A	1.60 A	VCT 4.0sq	DC MAG. BRAKE	2 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 (MAXIMAL LOAD)		HIGH	38.40 A	VCT 16sq	23.10 A	VCT 6sq	20.10 A	19.50 A	18.70 A	VCT 6sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (MINIMAL LOAD)		LOW	37.00 A	VCT 16sq	22.30 A	VCT 6sq	19.50 A	18.90 A	18.10 A	VCT 6sq	I(A)=M/H + T/S + ASS'Y	

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

*. 위 계산은 LIFT 30M에 적용.

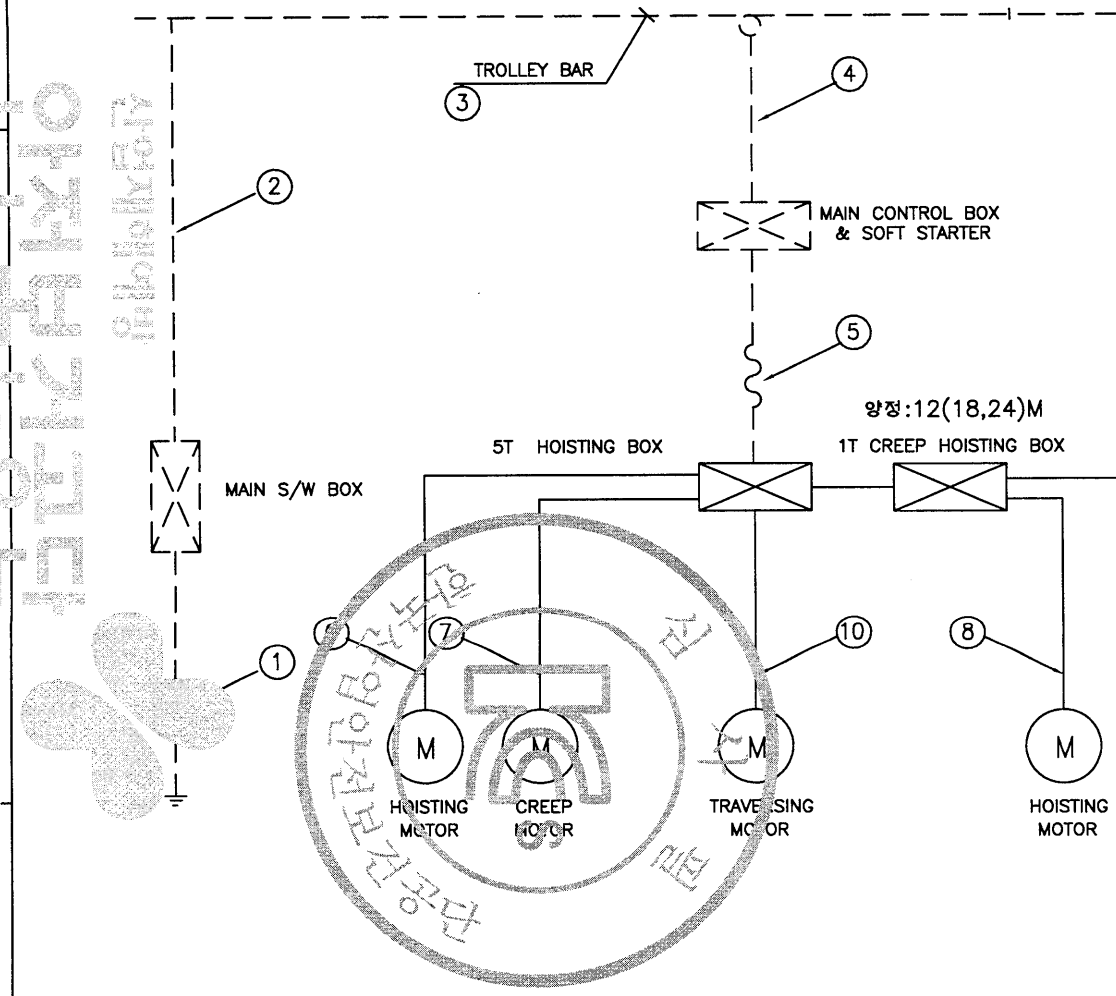
▣ 보호본딩회로의 연속성 확인

시험전선의 최소유효 단면적(㎟)	최고 전압 강하(V)
1.0	3.3
1.5	2.6
2.5	1.9
4.0	1.4
>6.0	1.0

①보호본딩회로의 연속성의 검증은 PELV전원(50/60Hz)에서 최소 10A 이상의 전류를 10초 이상의 인가에 의한다.
시험은 PE단자와 보호본딩회로의 여러지점 사이에서 이루어진다.
②PE단자와 시험 지점 사이에서 측정된 전압은(표 참조) 값을 초과 해서는 아니된다.

▣ 절연저항 시험
전원선과 보호본딩선 사이를 직류 500V로 측정한 절연저항 값은 1MΩ 이상이어야 한다.

▣ 압 시험
압에서 작동되도록, 설계된 전기장치의 회로를 제외한 모든 회로와 보호본딩회로의 전선 사이에 1초 이상 속되는 다음의 시험 전압에 견딜수 있어야 한다.
- 상치의 정격전압의 두배 또는 1,000V 중 큰값의 전압
②이 시험을 견딜수 없도록 설계된 부품은 시험이 진행되기 전에 차단하여야 한다.



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	HOIST POWER SOURCE WITH EARTH	VCT 16.0SQ x 1C
6	5T HOIST POWER SOURCE WITH EARTH	VCT 10.0SQ x 1C
7	5T CREEP HOISTING MOTOR WITH EARTH	VCT 4.0SQ x 1C
8	1T HOIST POWER SOURCE WITH EARTH	VCT 4.0SQ x 1C
9	1T CREEP HOISTING MOTOR WITH EARTH	VCT 4.0SQ x 1C
10	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 : 100오옴 이하일것.(3종 접지)
400V 이상 : 10오옴 이하일것.(특 3종접지)

2.MAIN S/W BOX는 3종 접지 요.

등전위접지

1.전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야함.

2. 보호본딩회로에는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

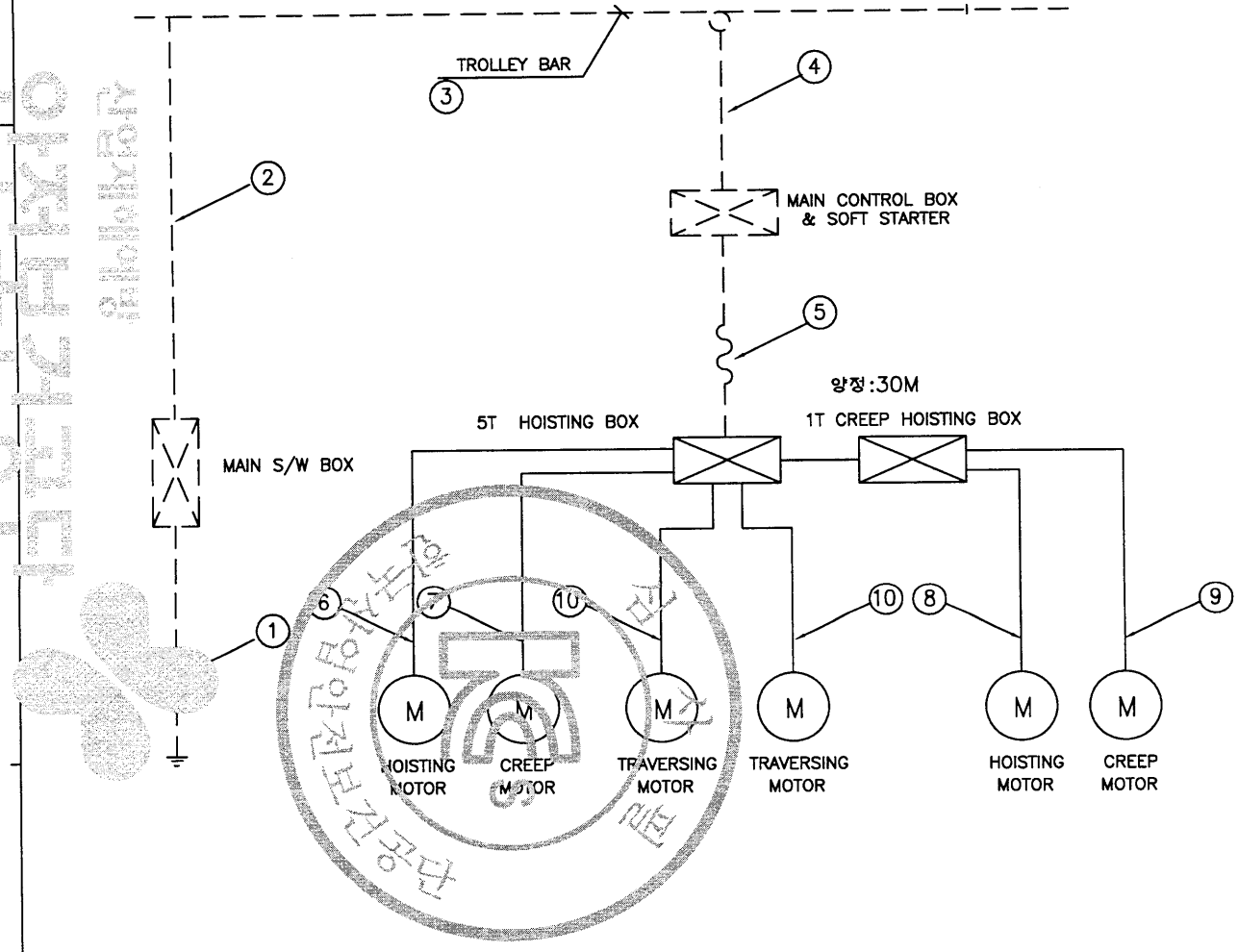
시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

— — — — USER SCOPE

——— KUKDONG SCOPE

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	EARTH DETAILS DRAWING					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC5,1–EC00	



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	HOIST POWER SOURCE WITH EARTH	VCT 16.0SQ x 1C
6	5T HOIST POWER SOURCE WITH EARTH	VCT 10.0SQ x 1C
7	5T CREEP HOISTING MOTOR WITH EARTH	VCT 4.0SQ x 1C
8	1T HOIST POWER SOURCE WITH EARTH	VCT 4.0SQ x 1C
9	1T CREEP HOISTING MOTOR WITH EARTH	VCT 4.0SQ x 1C
10	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 : 100오옴 이하일것.(3종 접지)
400V 이상 : 10오옴 이하일것.(특 3종접지)

2.MAIN S/W BOX는 3종 접지 요.

등전위접지

1.전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되야함.

2. 보호본딩회로에는 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

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

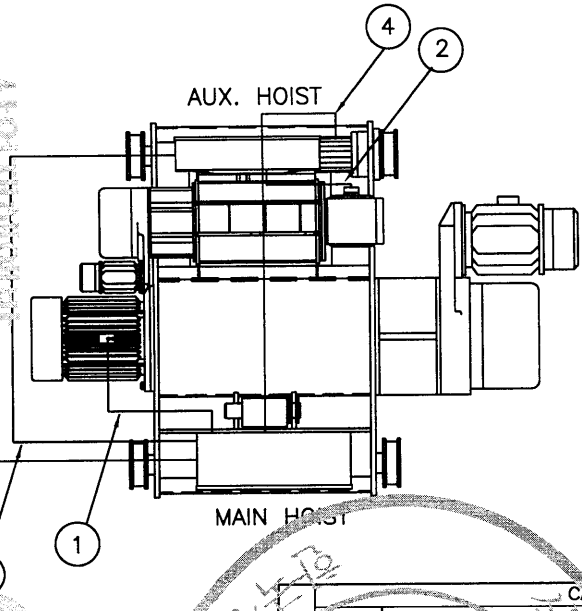
CUSTOMER	
DRAWING TITLE	EARTH DETAILS DRAWING

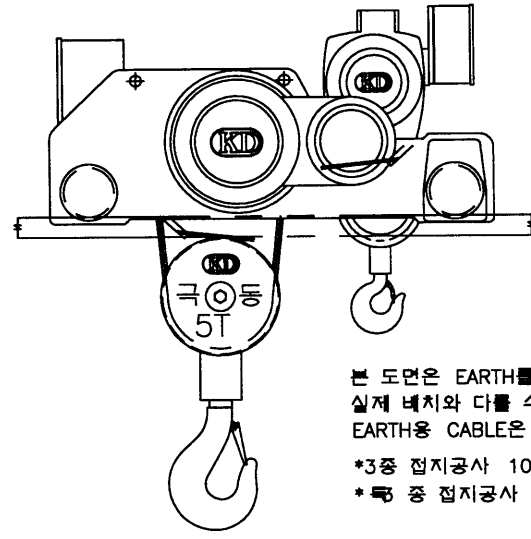
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KDC5,1-EC001

* MAIN POWER : AC 3PH 220(380,440,460,480)V 60Hz (LIFT 12,18,24M)





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

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

NO	TYPE	CABLE SIZE		TYPE	SIZE	REMARK
		220V	380V	440V,460V,480V		
1	VCT	HOIST	10sqx4c	6sqx4c	VCT	6sqx5c	M/H MOTOR WITH EARTH
		CREEP	4.0sqx4c	4.0sqx5c		4.0sqx5c	
2	VCT	HOIST	4.0sqx4c	4.0sqx5c	VCT	4.0sqx5c	A/H MOTOR WITH EARTH
		CREEP	4.0sqx4c	4.0sqx5c		4.0sqx5c	
3	VCT	4.0sqx4c		4.0sqx4c	VCT	4.0sqx4c	A/H POWER WITH EARTH
4	VCT	4.0sqx4c+2.5sqx3c					T/S MOTOR WITH EARTH
5	VCT	10sqx4c		6sqx4c	VCT	6sqx4c	MAIN POWER WITH EARTH

등전위접지

1.전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야함.
2. 보호본딩회로에는 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

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER
DRAWING TITLE: CABLE 사양 및 접지

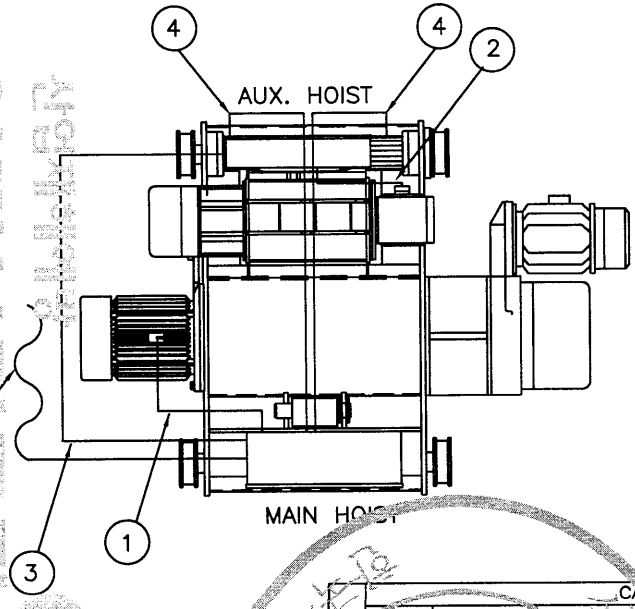
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

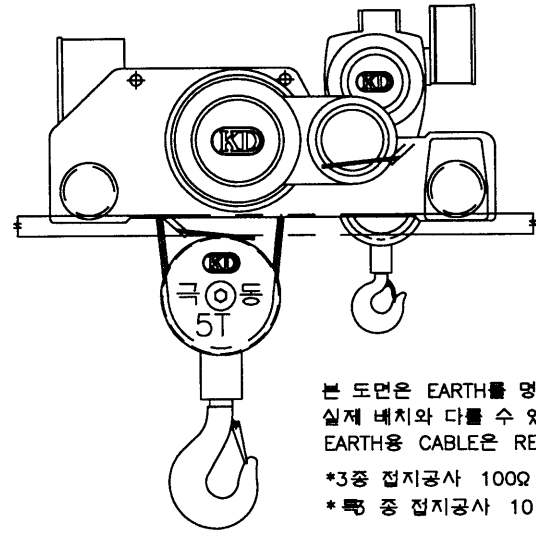
극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KDC5,1E233

물품제조 및 배포금지

* MAIN POWER : AC 3PH 220(380,440,460,480)V 60Hz (LIFT 30M)
* 양정 30M: 횡행모터 2UNIT





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

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

NO	TYPE	CABLE SIZE		TYPE	SIZE	REMARK
		220V	380V	440V,460V,480V		
1	VCT	HOIST 10sqx4c	6sqx5c	VCT	6sqx5c	M/H MOTOR WITH EARTH
		CREEP 4.0sqx4c	4.0sqx5c		4.0sqx5c	
2	VCT	HOIST 4.0sqx4c	4.0sqx5c	VCT	4.0sqx5c	A/H MOTOR WITH EARTH
		CREEP 4.0sqx4c	4.0sqx5c		4.0sqx5c	
3	VCT	4.0sqx4c	4.0sqx4c	VCT	4.0sqx4c	A/H POWER WITH EARTH
4	VCT	4.0sqx4c+2.5sqx3c				T/S MOTOR WITH EARTH
5	VCT	16sqx4c	6sqx4c	VCT	6sqx4c	MAIN POWER WITH EARTH

등전위접지

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

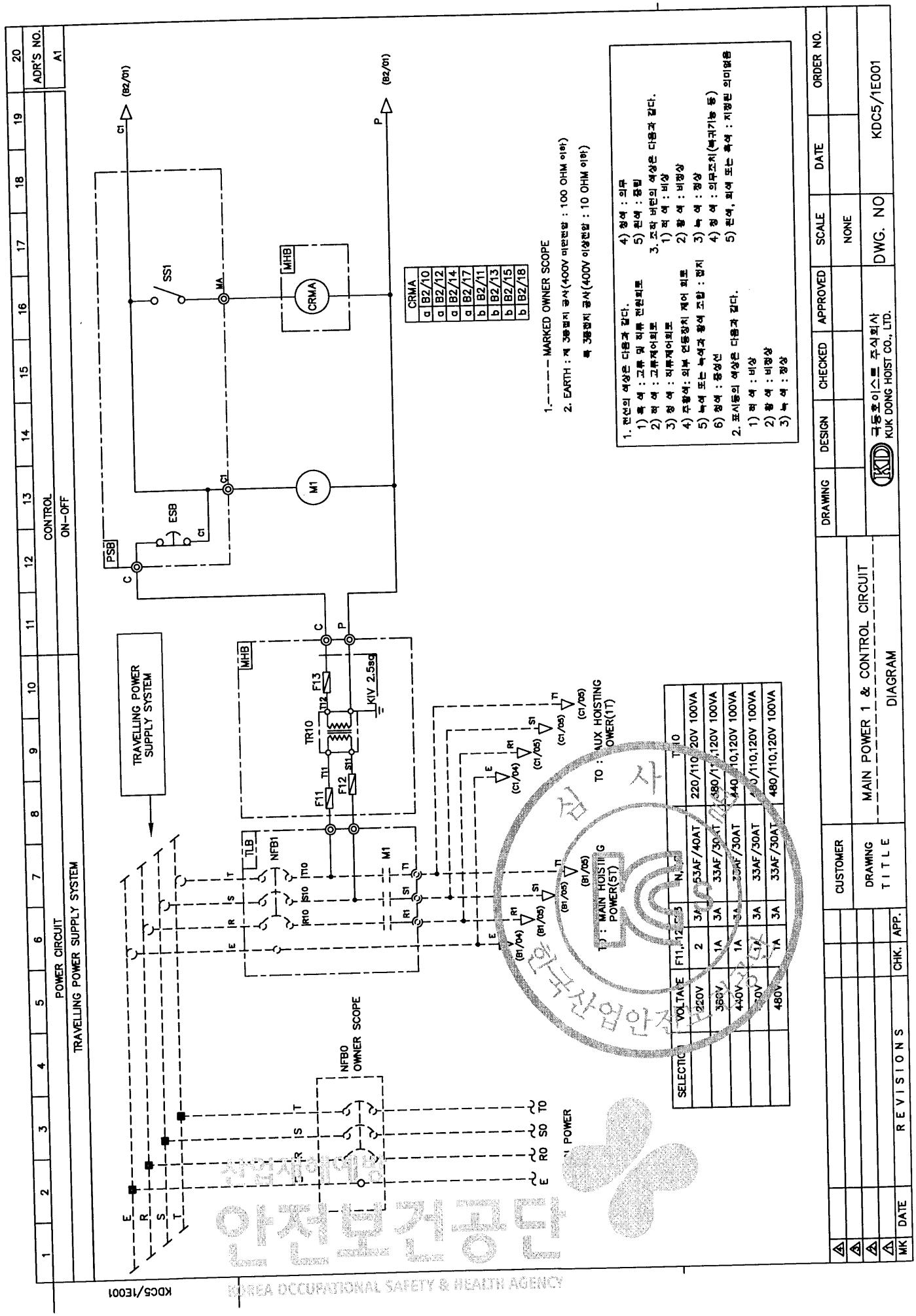
시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER
DRAWING TITLE: CABLE 사양 및 접지

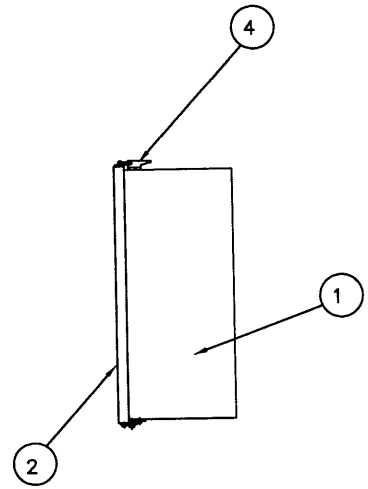
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

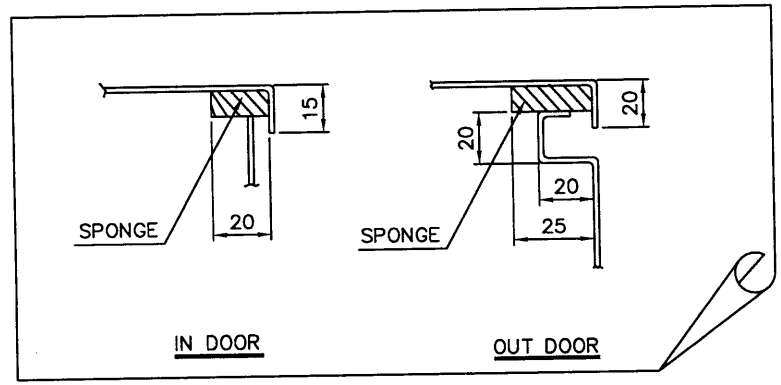
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.
DWG. NO: KDC5,1E234

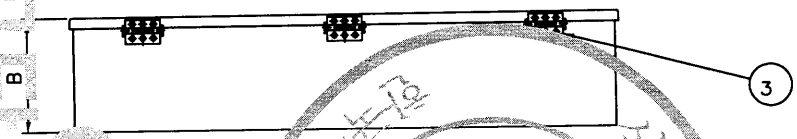


KDC5EB00

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'	







SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR A	B	L	OUT DOOR A	B	L	REMARK
	5 TON	NORMAL	360	170	790	360	170	810	
		CREEP	360	170	790	360	170	810	

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 개방 구조는 다음과 같다.

1) 외함 개방시 충전부분이 차단되도록 한다.

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

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER

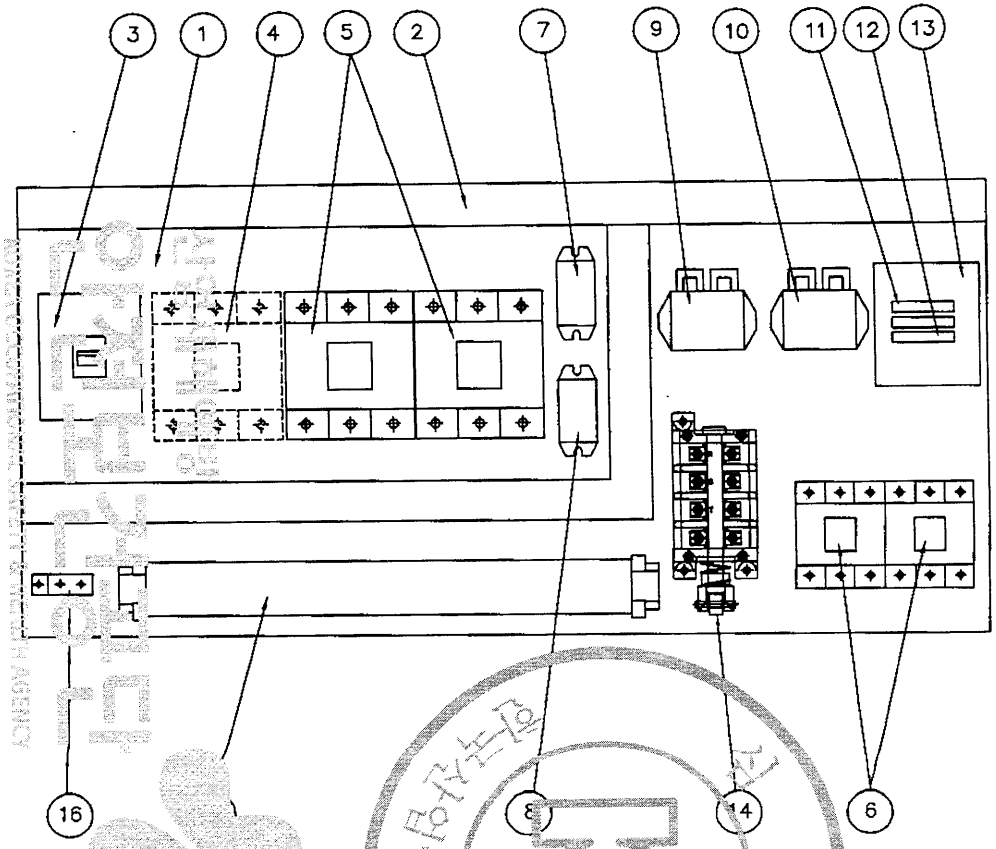
DRAWING TITLE: HOISTING CONTROL BOX

LAY-OUT

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC5EB00



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	53AF/40AT	1	HOISTING
4	MAGNET CONTACTOR	DMC48C	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 LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

1. LIMIT LS-1 LS-2의 연점 허용 [illegible] AC 600V, 75A
2. POWER SOURCE : AC. 3Φ 220 / 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

NOTE 1. 전선의 색상은 다음과 같다.

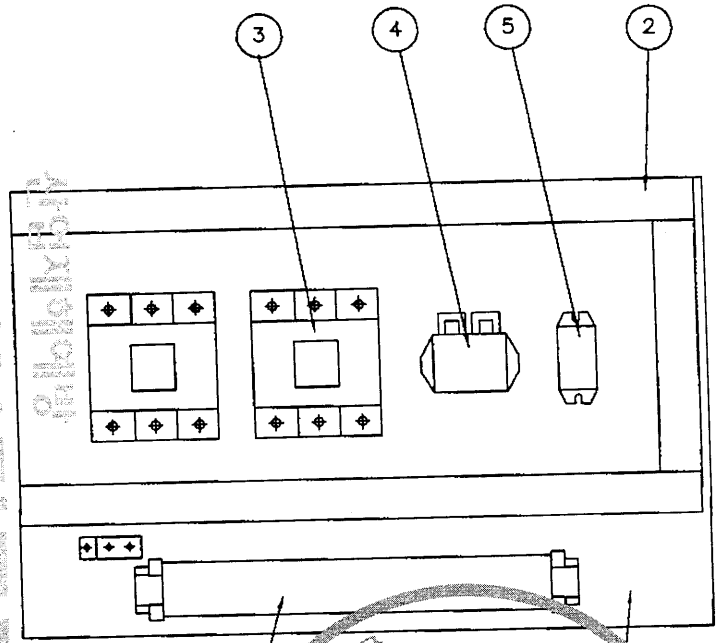
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
└ MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

MK	DATE	REVISIONS	CHK.	APP.

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	CREEP HOIST CONTROL BOX					NONE		
	ARRANGEMENT DRAWING	국동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC5BA21	

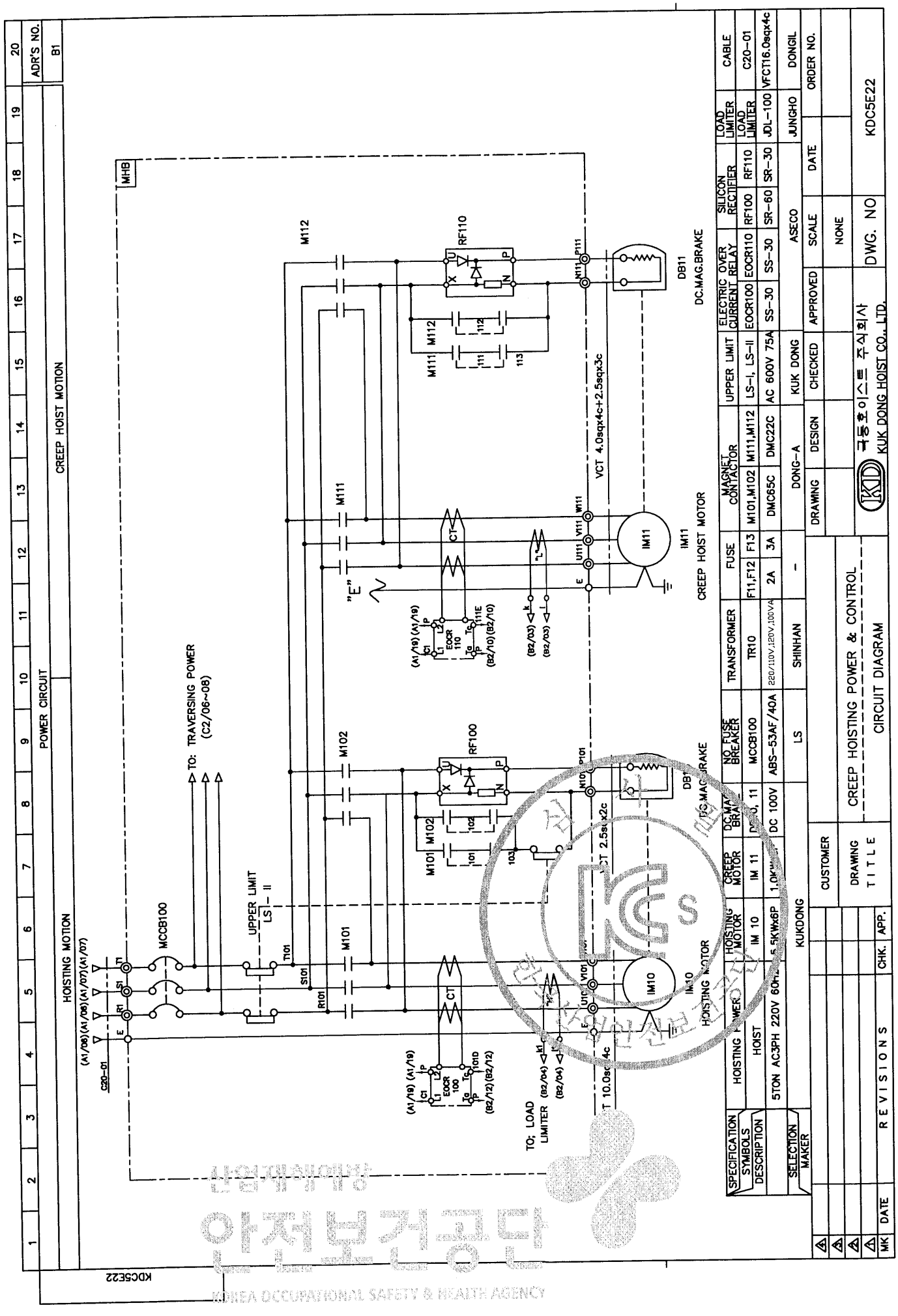
불법복제 및 배포금지

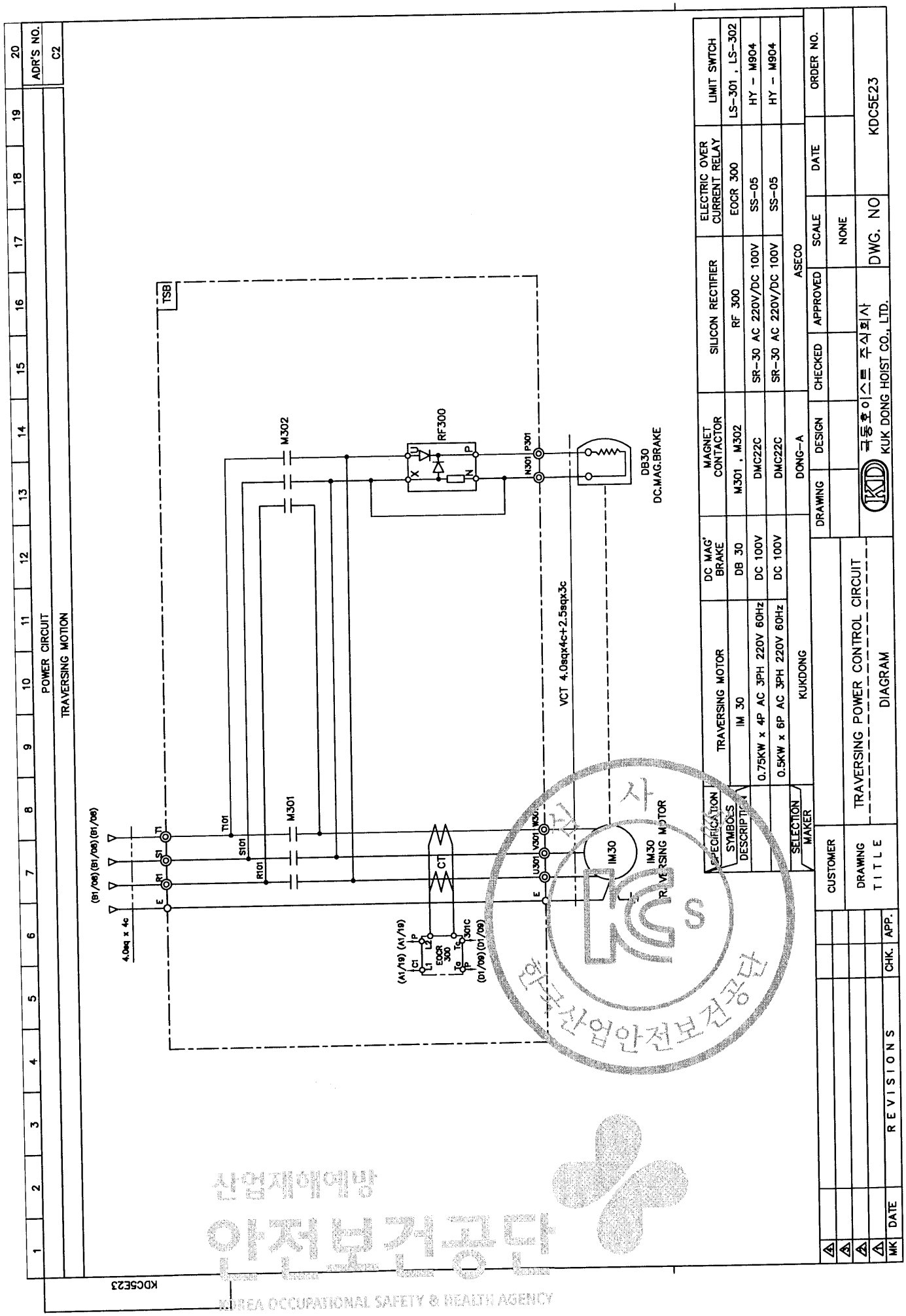


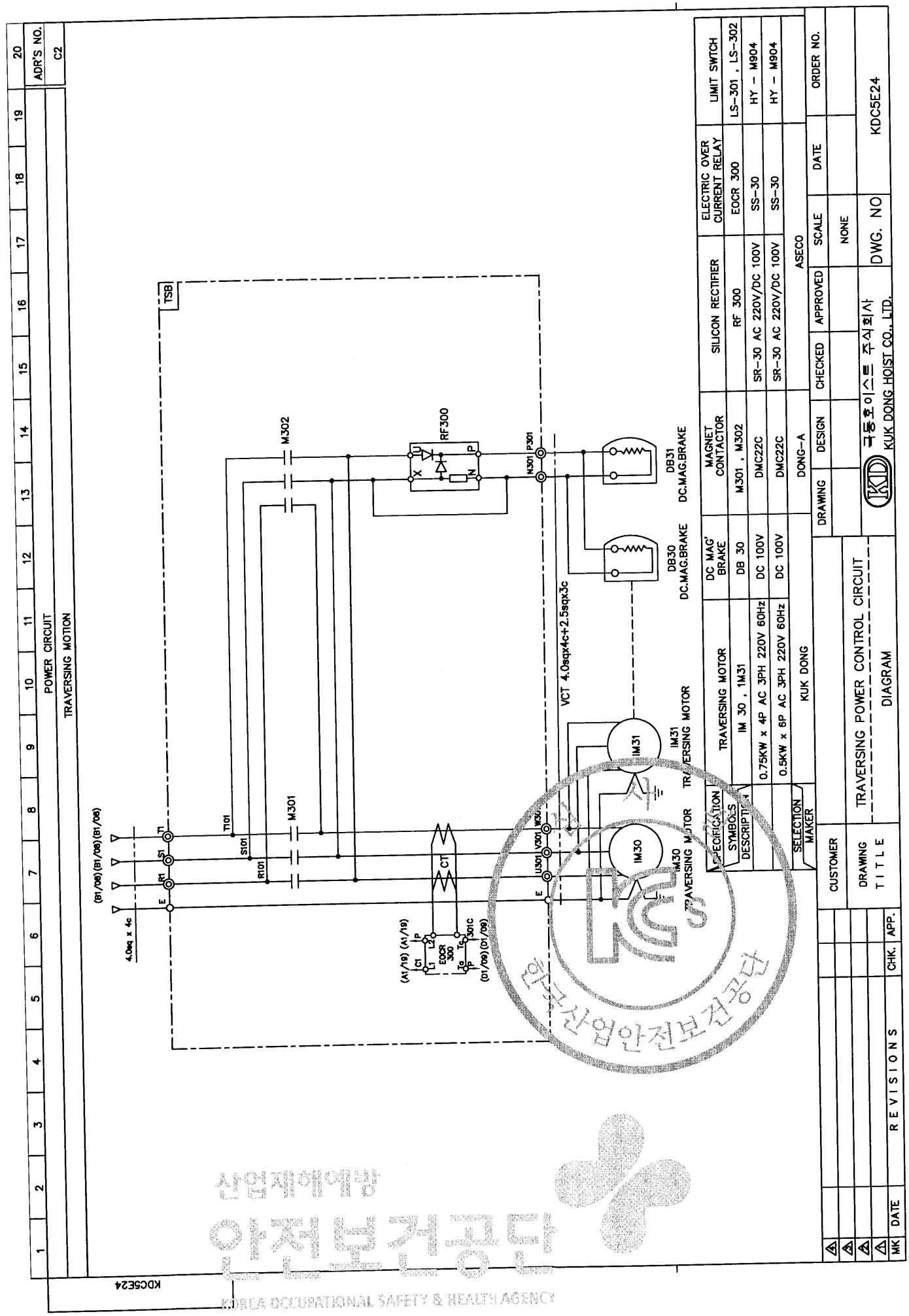
NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	–	1	아 연 도 금
2	CABLE DUCT	–	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

MK	DATE	REVISIONS	CHK.	APP.

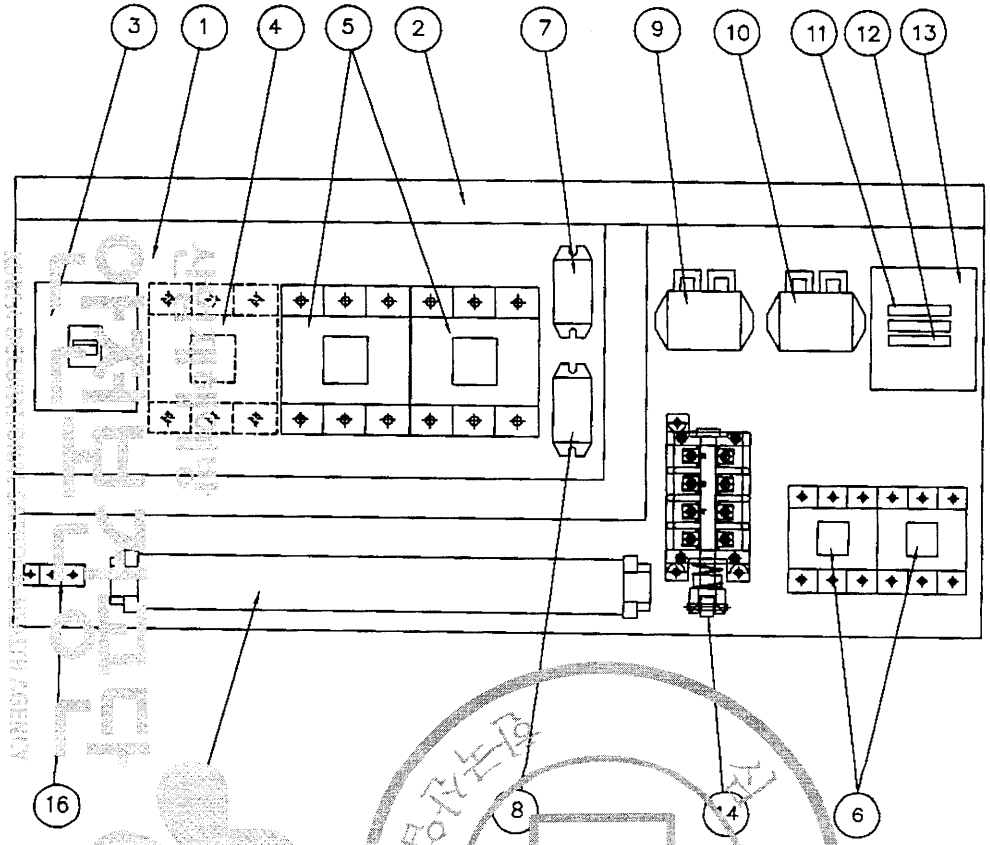
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
						NONE		
DRAWING TITLE	TRAVERSING POWER CONTROL BOX	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDc5bt22	
	ARRANGEMENT DRAWING							







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/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	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 LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

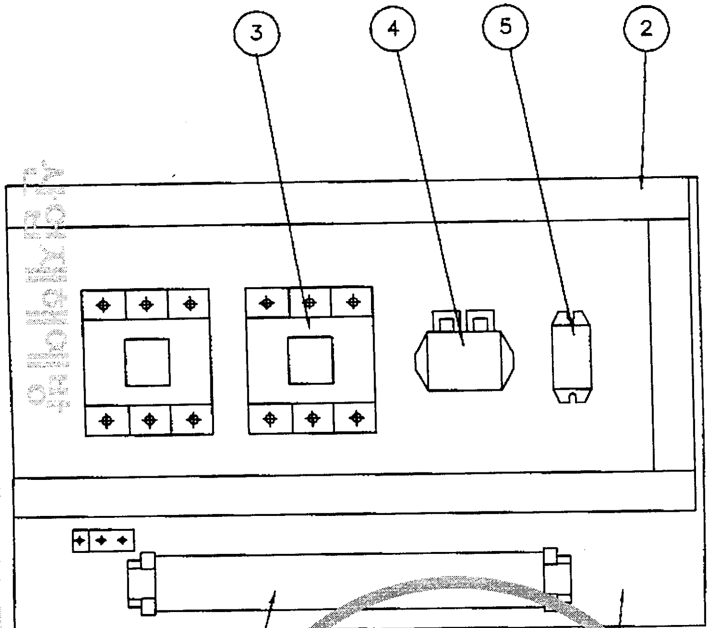
NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

1. LIMIT LS–1,LS–2의 접점 허용 [illegible] : AC 600V, 75A
2. [illegible] SOURCE : AC 3ø 380V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	CREEP HOIST CONTROL BOX					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC5BA31	



NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	–	1	아 연 도 금
2	CABLE DUCT	–	1	
3	MAGNET CONTACTOR	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

ADR'S NO.

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

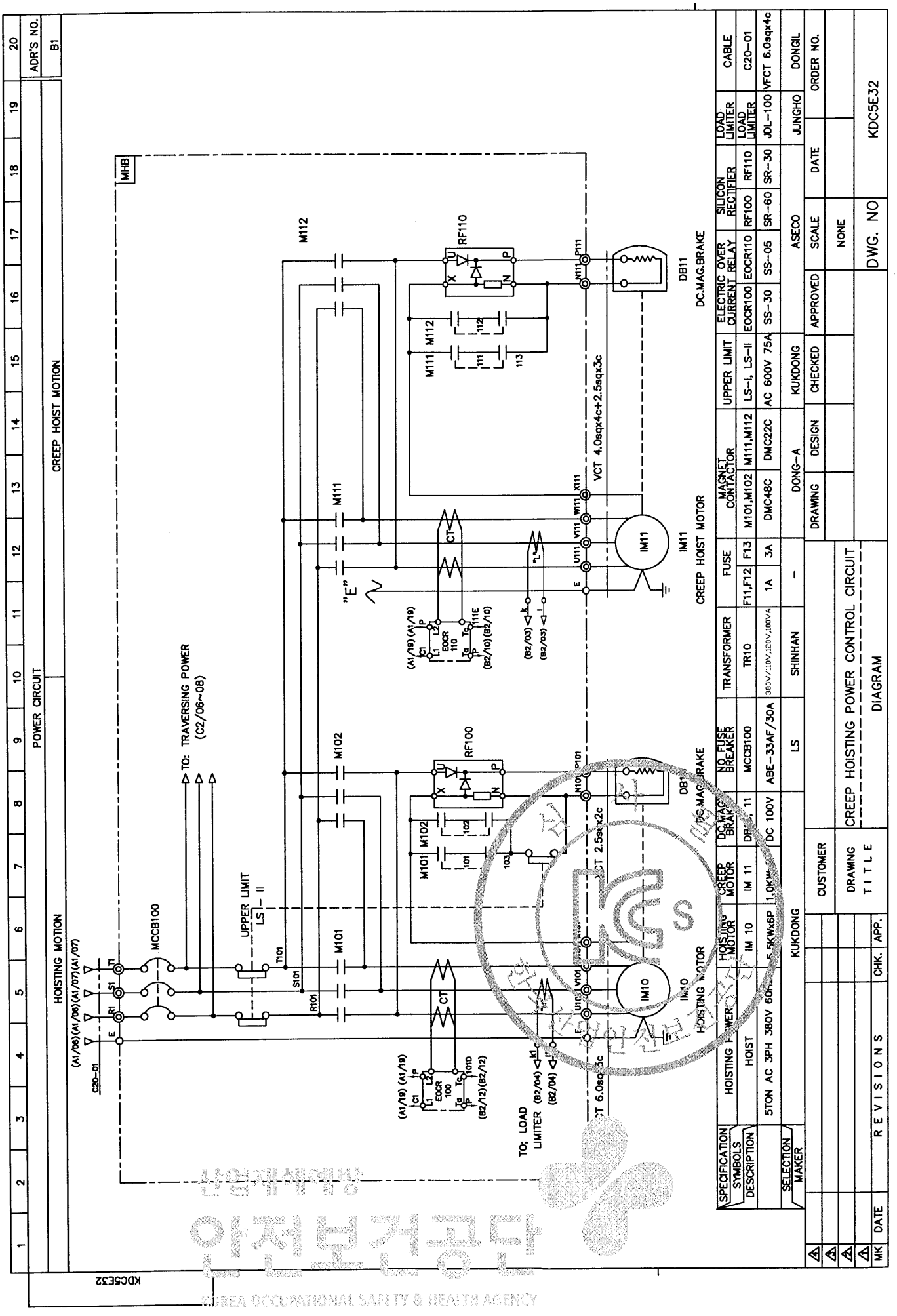
CUSTOMER

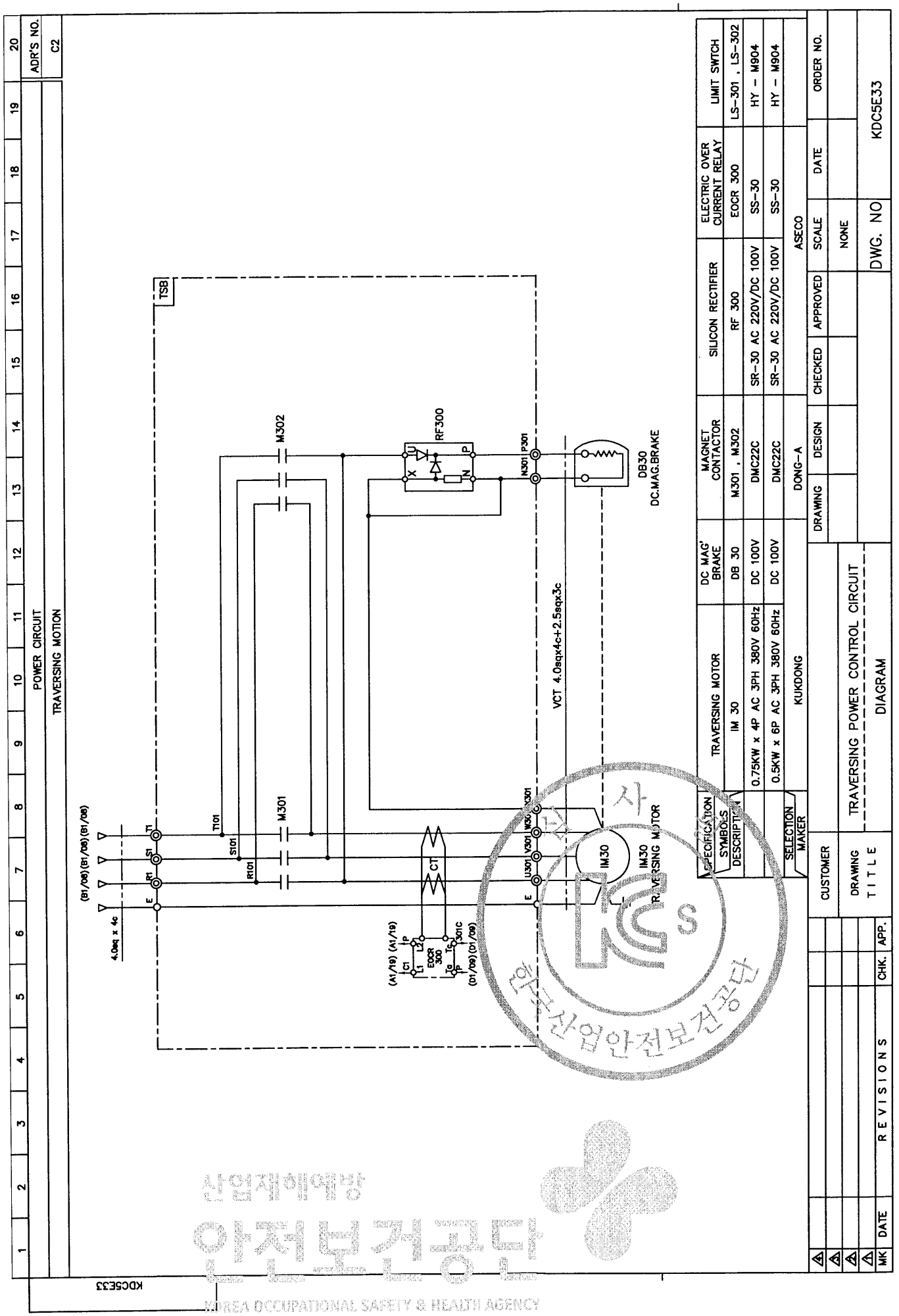
DRAWING TITLE: TRAVERSING POWER CONTROL BOX ARRANGEMENT DRAWING

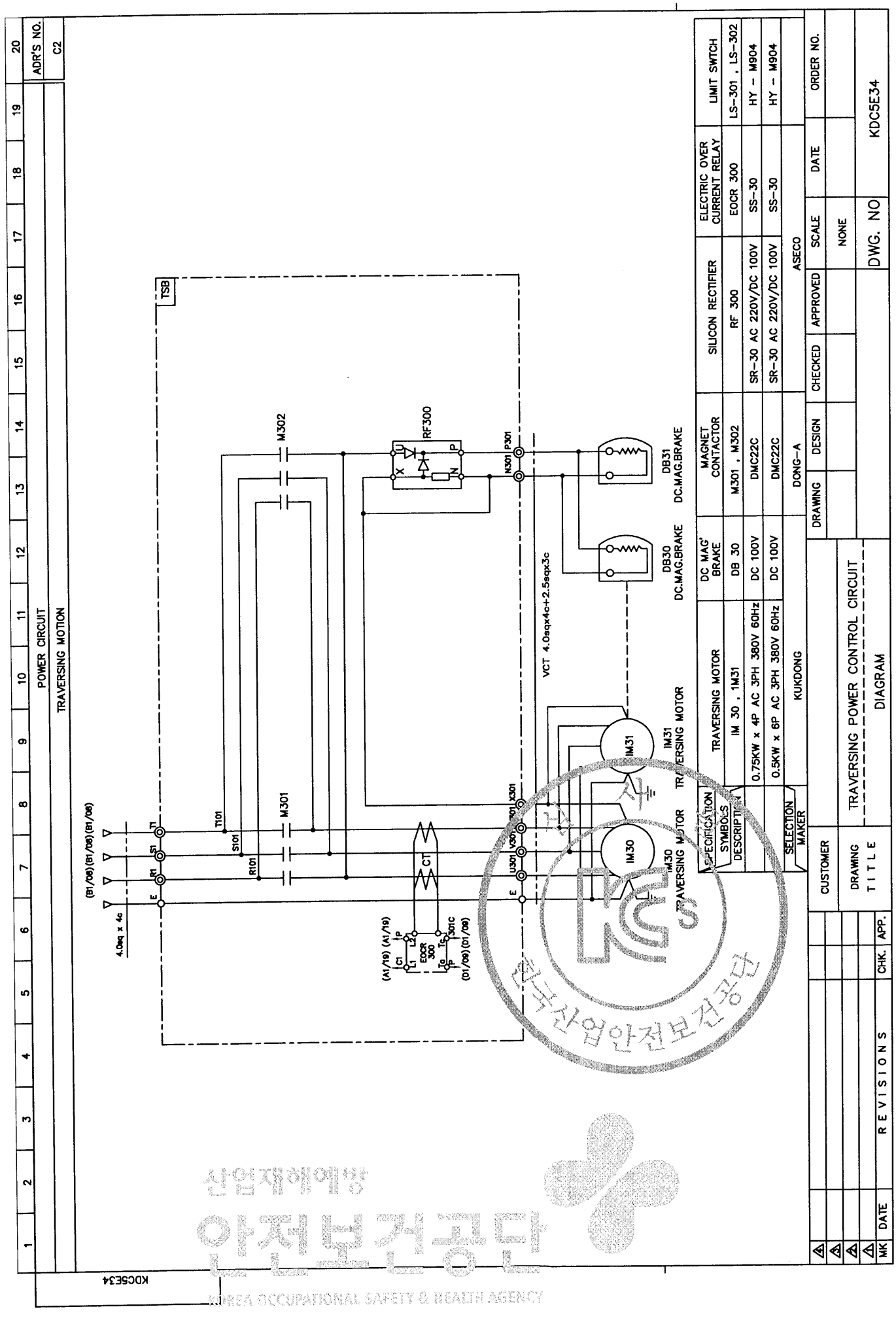
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

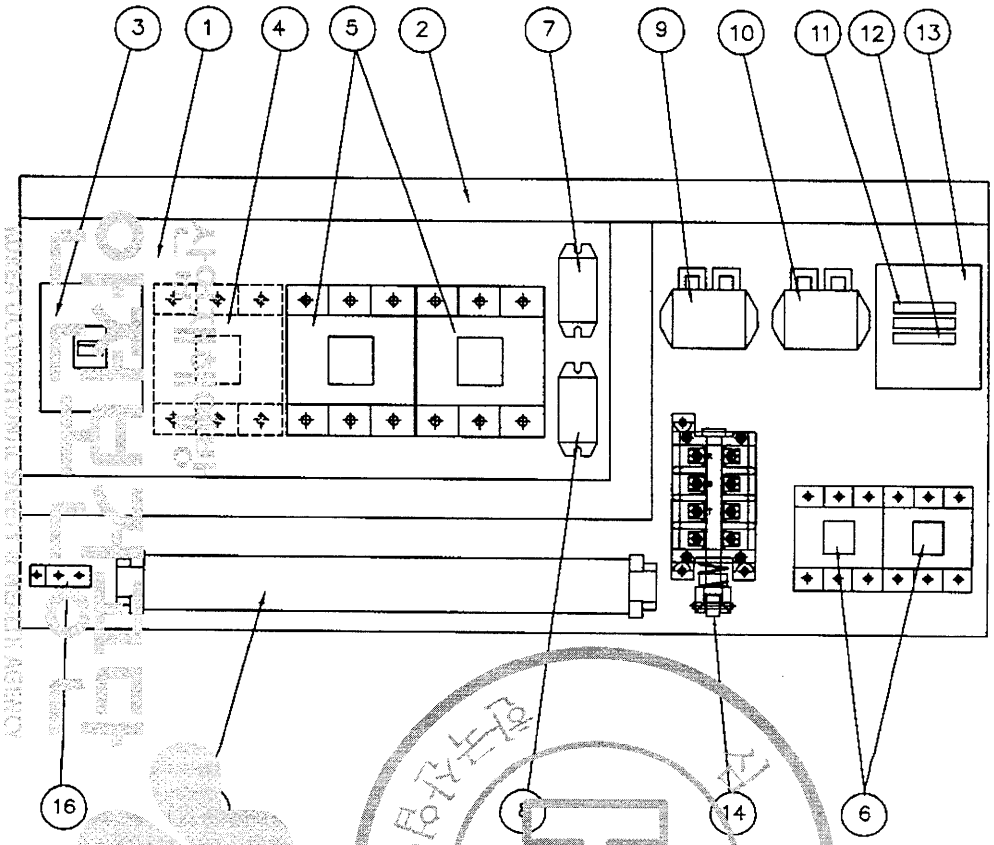
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDc5bt32









NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	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 LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

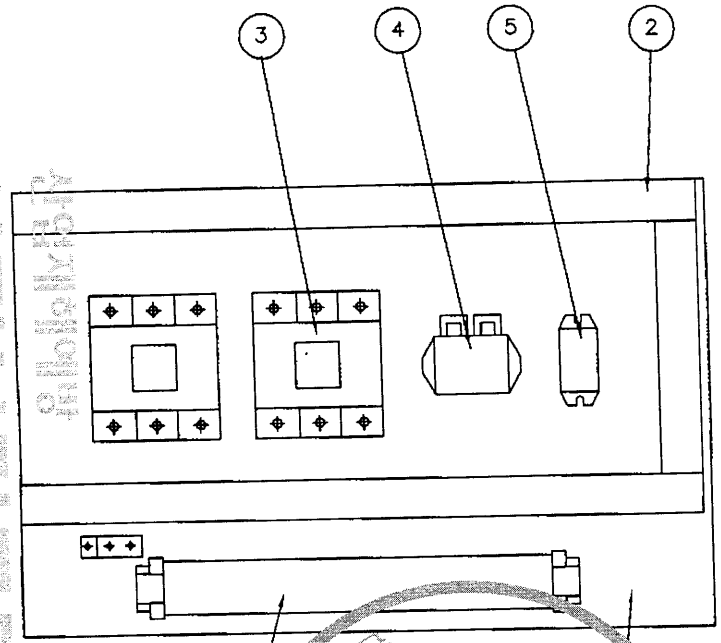
1. LIMIT LS-1 LS-2의 접점 허용 전류 용량. AC 600V, 75A
2. POWER SOURCE : AC. 3Φ 440V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	CREEP HOIST CONTROL BOX					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC5BA41	

승인표시 및 배포금지



NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	–	1	아 연 도 금
2	CABLE DUCT	–	1	
3	MAGNET CONTACTOR	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

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

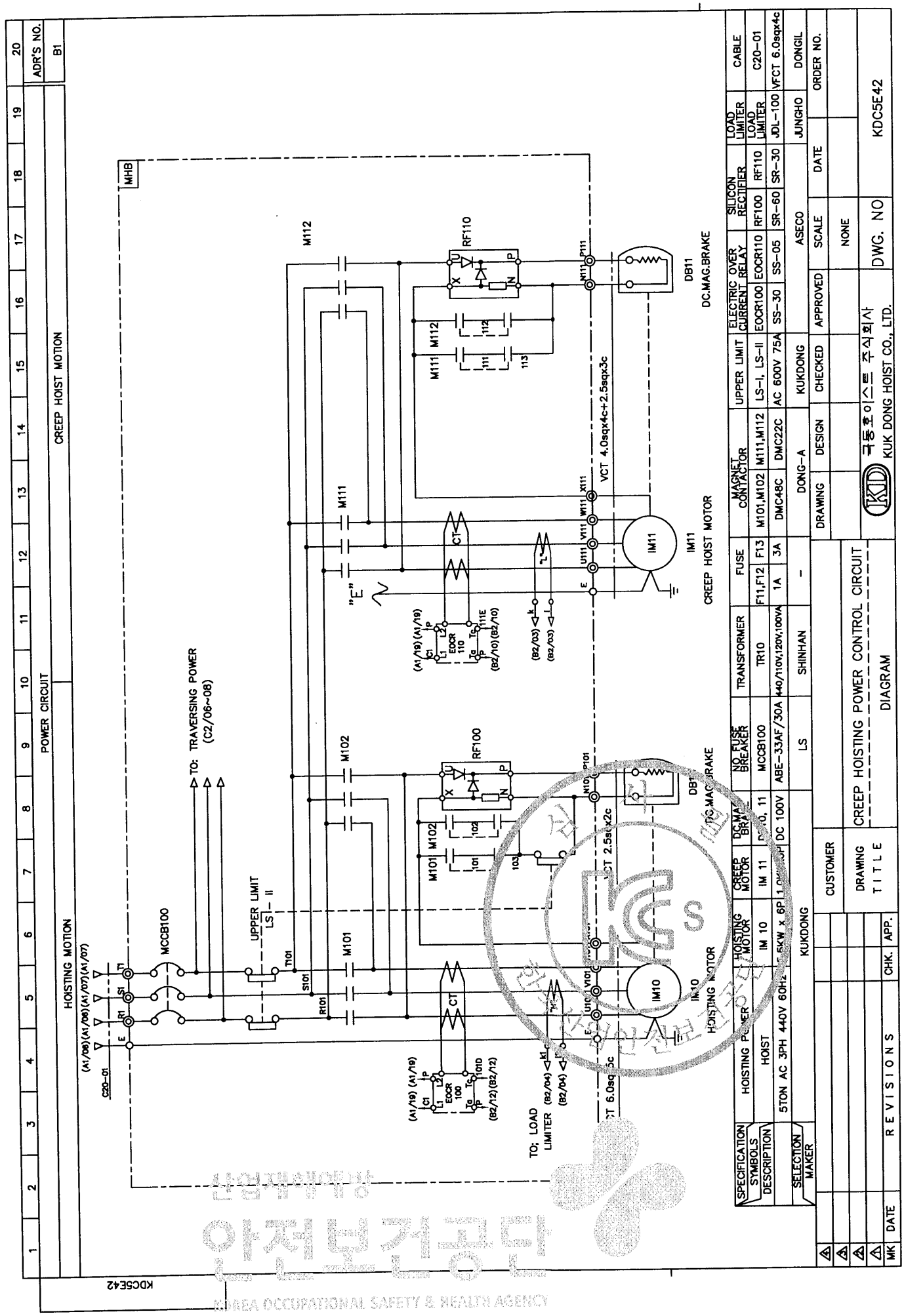
CUSTOMER

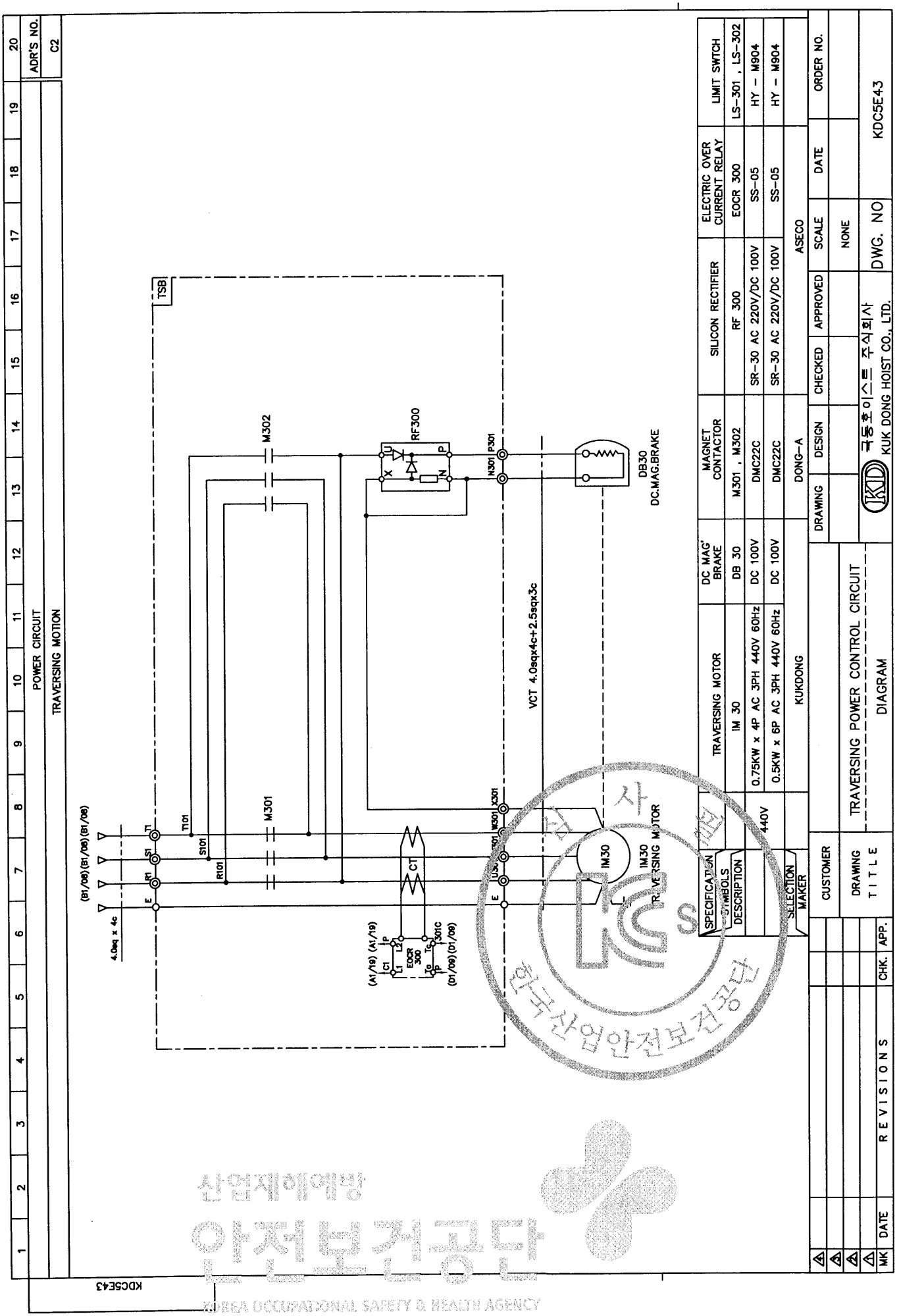
DRAWING TITLE: TRAVERSING POWER CONTROL BOX / ARRANGEMENT DRAWING

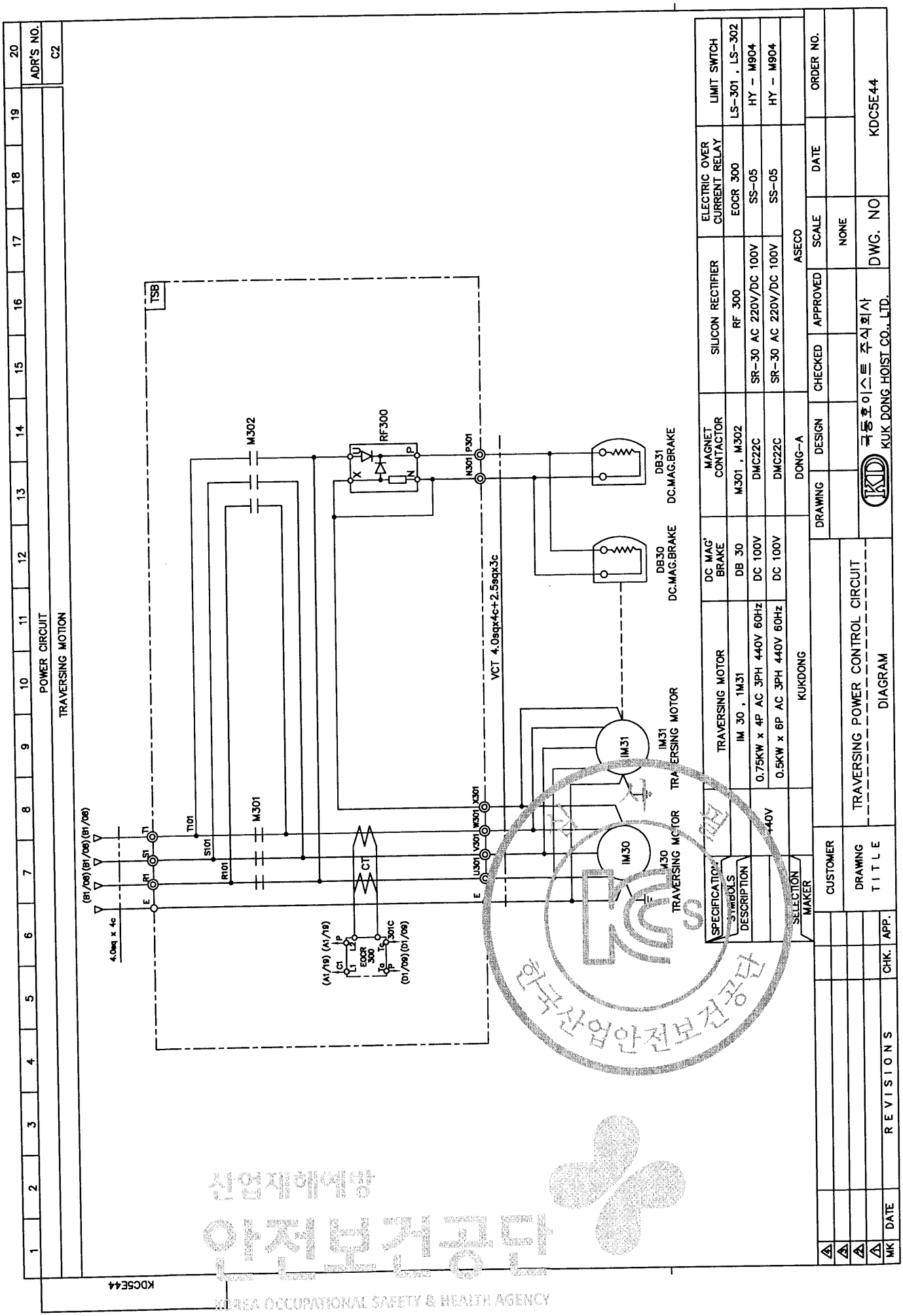
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

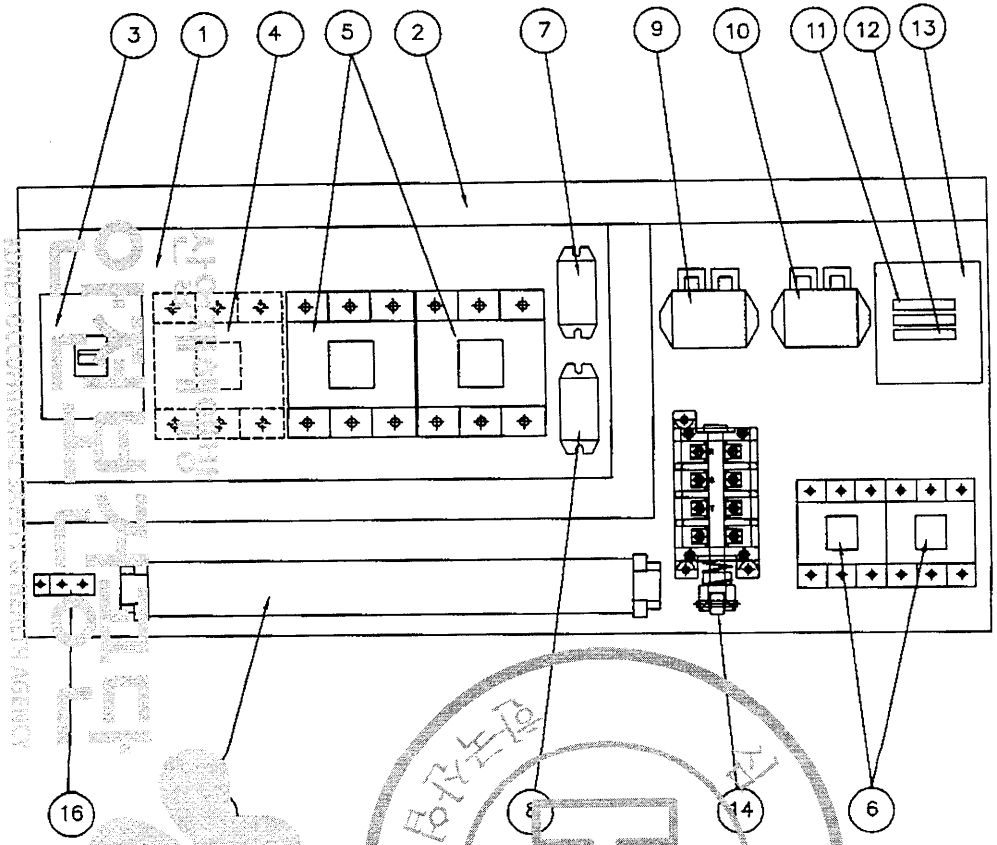
KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDc5bt42





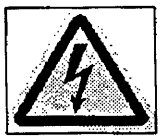




NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR–60	1	HOISTING
8	SILICON RECTIFIER	SR–30	1	CREEP 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	460V/110V(120V), 100VA	1	
14	UPPER LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

N
1. [illegible]R LIMIT LS–1 LS–2의 접점 허용 [illegible] 용량. [illegible]C 600V, 75A
2. POWER SOURCE : A[illegible]. 3φ 460V 60HZ
3. EARTH TERMINAL RE[illegible]STANCE : 0.018Ω



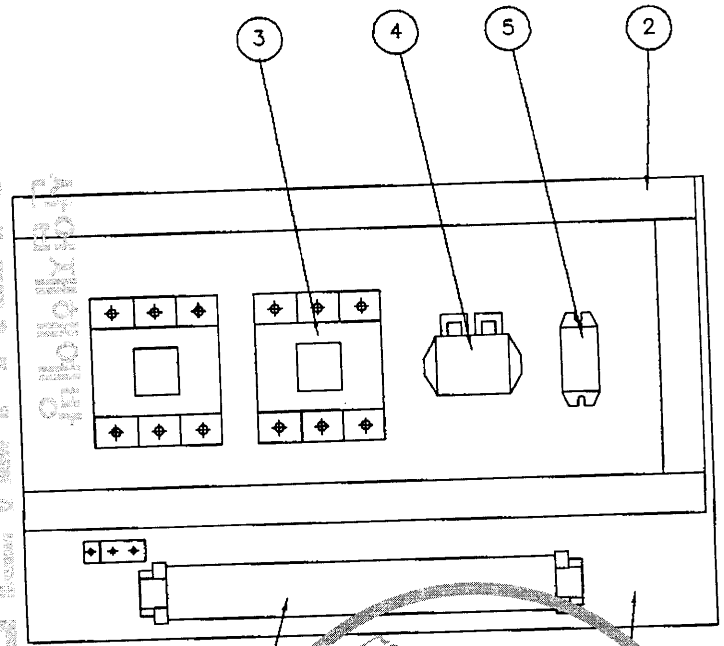
MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER
DRAWING TITLE
CREEP HOIST CONTROL BOX
ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

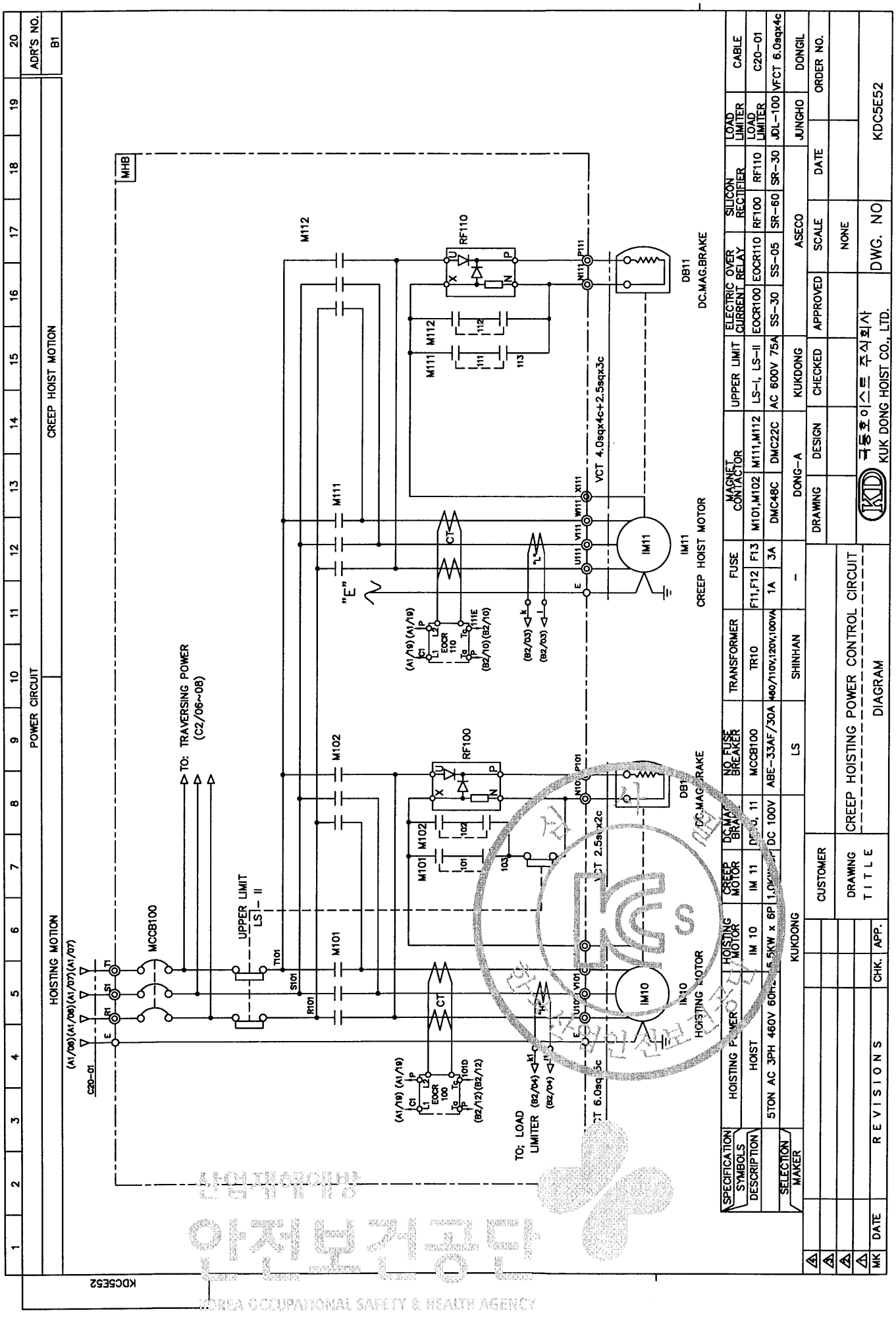
DWG. NO KDC5BA51

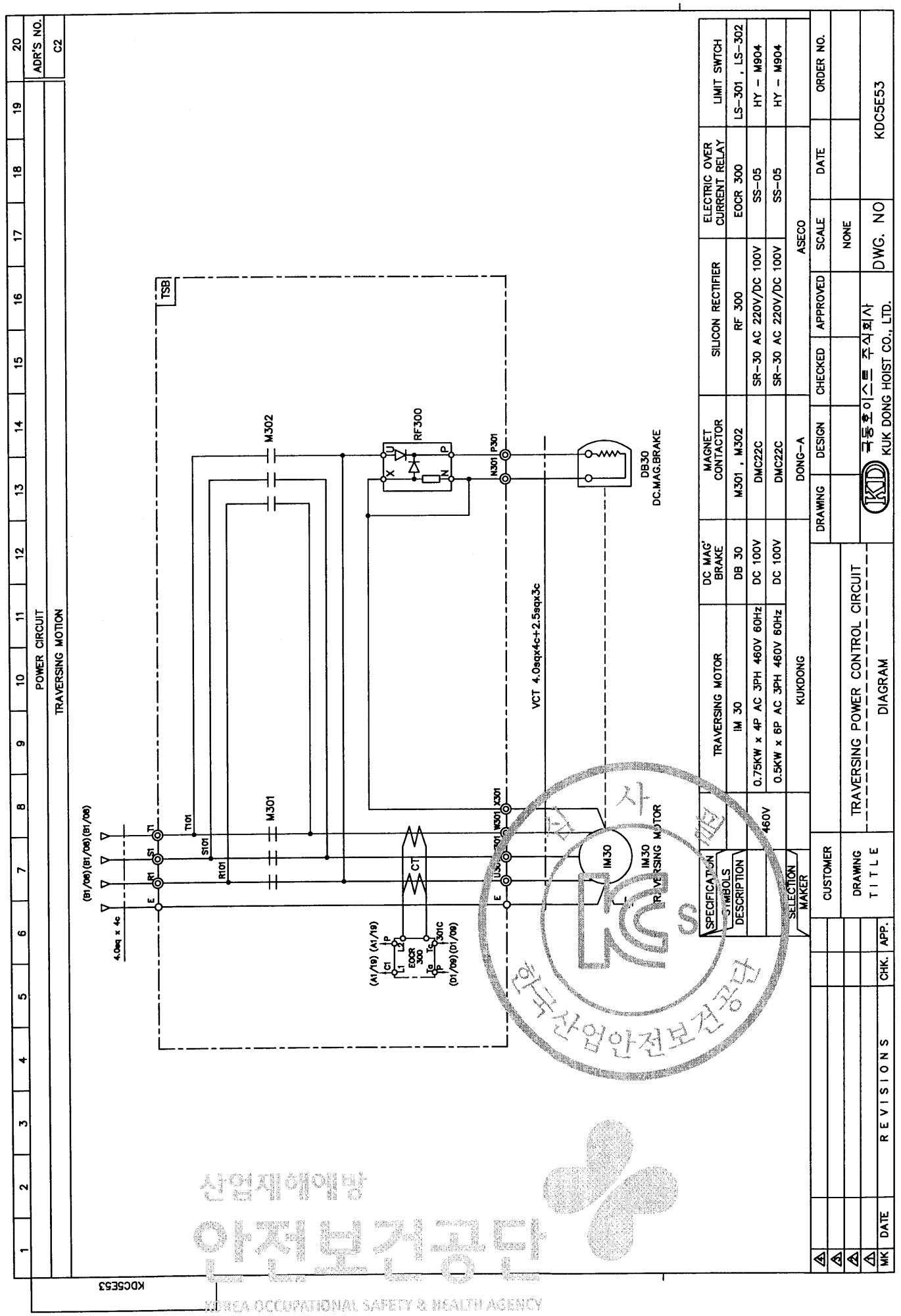


NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	–	1	아 연 도 금
2	CABLE DUCT	–	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS–05	1	TRAVERSING
5	SILICON RECTIFIER	SR–30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

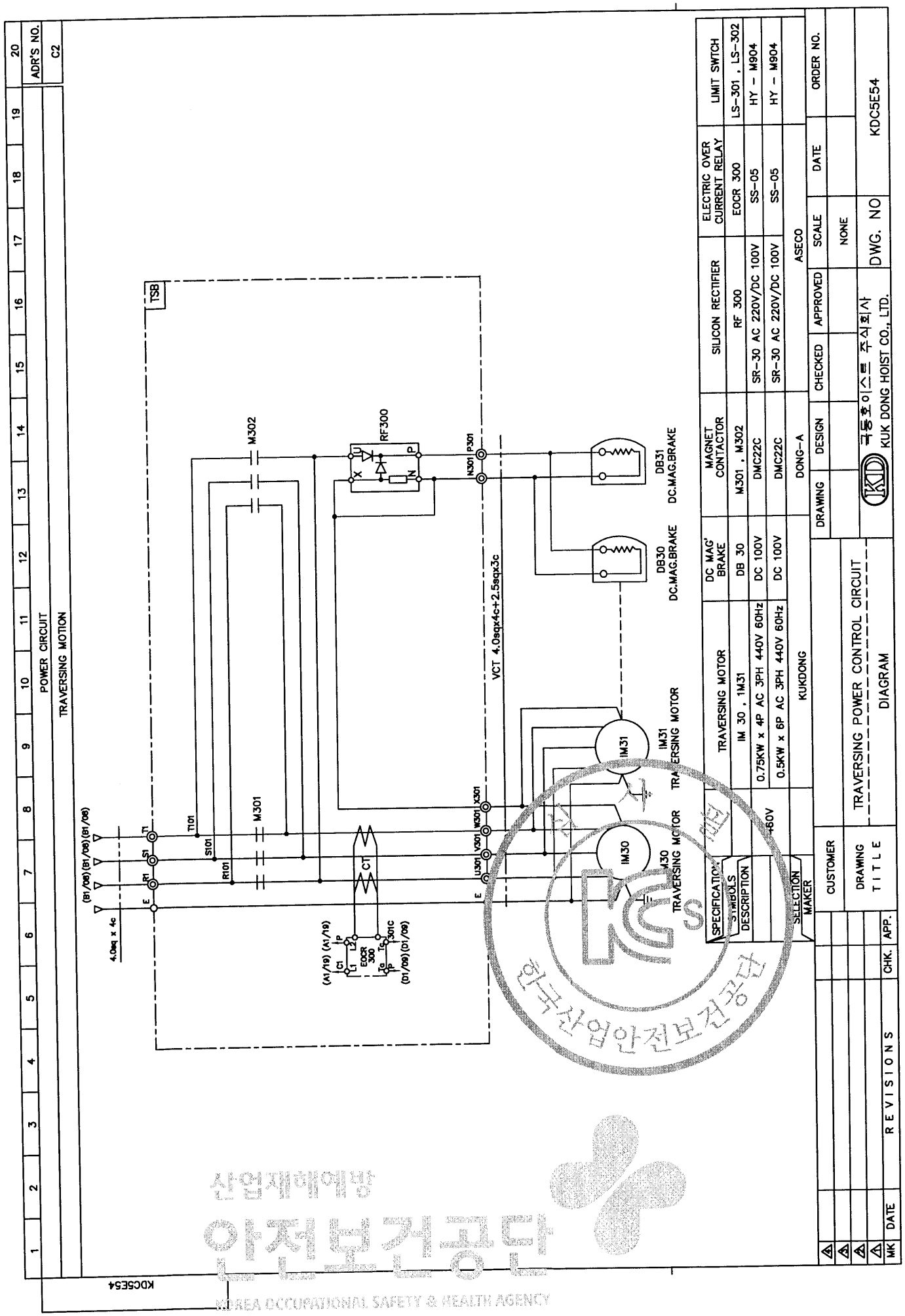
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL BOX / ARRANGEMENT DRAWING	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				NONE / DWG. NO	KDc5bt52	

MK	DATE	REVISIONS	CHK.	APP.

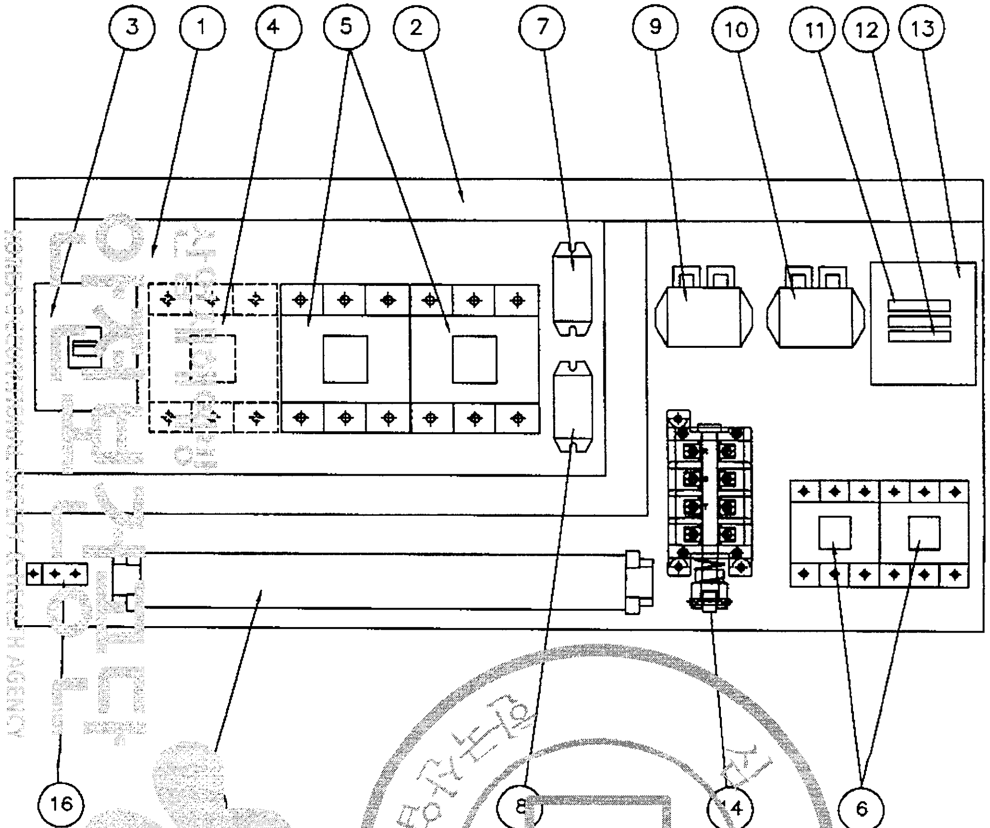




SPECIFICATION SYMBOLS DESCRIPTION	TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWTCH
	IM 30	DB 30	M301 , M302	RF 300	EOCR 300	LS-301 , LS-302
460V	0.75KW x 4P AC 3PH 460V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - M904
	0.5KW x 6P AC 3PH 460V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - M904
SELECTION MAKER	KUKDONG		DONG-A	ASECO		



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/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	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 LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE
1. 전선의 색상은 다음과 같다.
   1) 흑색 : 교류 및 직류 전원선로
   2) 적색 : 교류제어선
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
   5) 청색 : 직류 제어선로
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

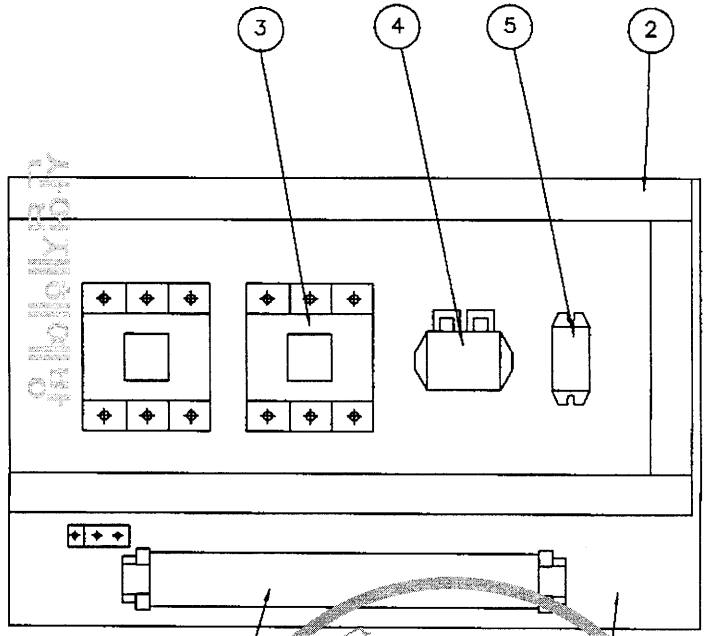
N
1. ...R LIMIT LS–1, LS–2의 접점 허용 전류용량 : AC 600V, 75A
2. POWER SOURCE : AC 3Ø 480V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

MK	DATE	REVISIONS	CHK.	APP.
△				
△				
△				
△				

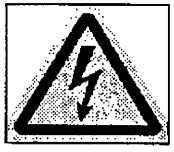
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	CREEP HOIST CONTROL BOX / ARRANGEMENT DRAWING					NONE		
		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC5BA61	

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

ADR'S NO.

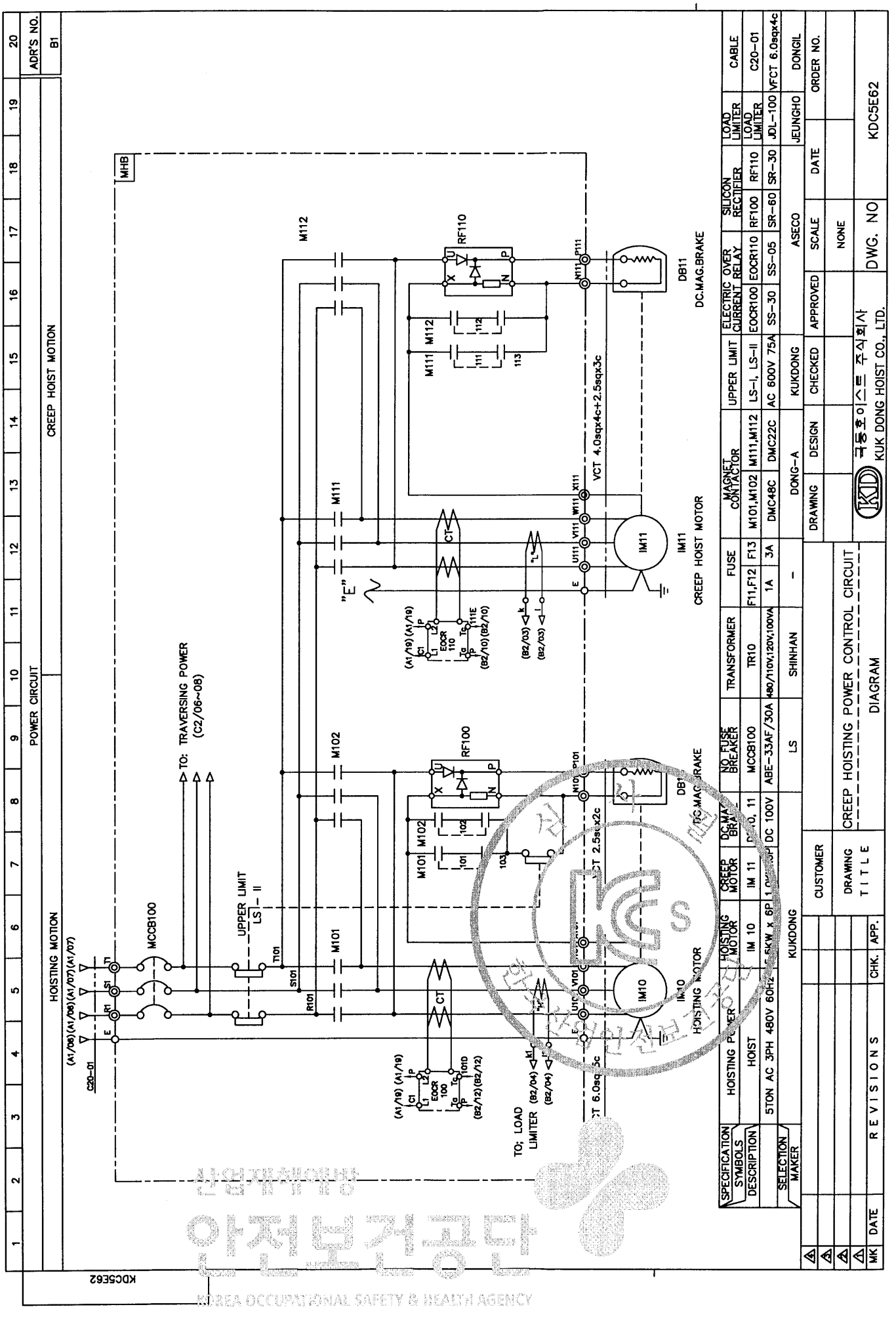


NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	–	1	아연도금
2	CABLE DUCT	–	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING



MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	TRAVERSING POWER CONTROL BOX					NONE		
	ARRANGEMENT DRAWING	KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDc5bt62	



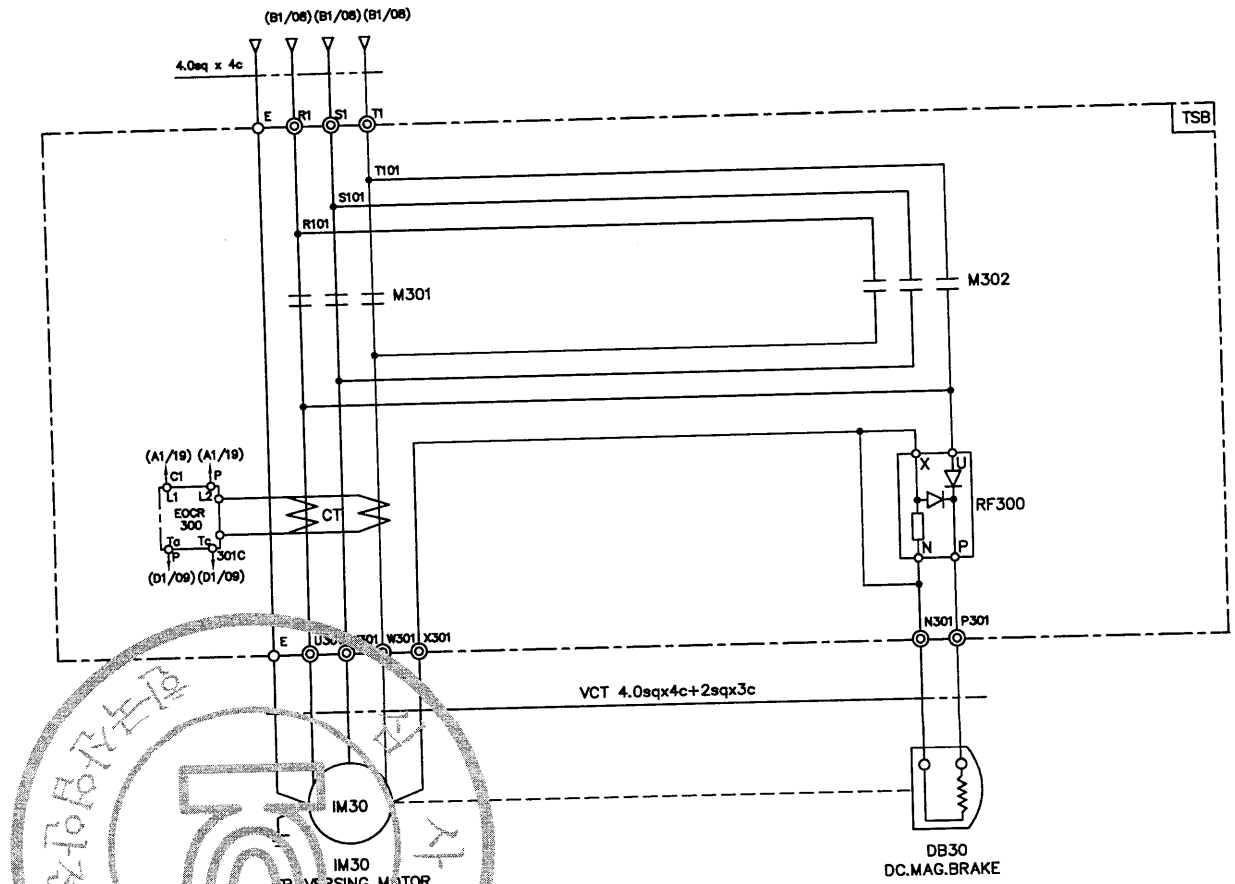
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. C2

POWER CIRCUIT

TRAVERSING MOTION

KDC5E63



SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWTCH
		IM 30	DB 30	M301 , M302	RF 300	EOCR 300	LS-301 , LS-302
	480V	0.75KW x 4P AC 3PH 480V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - M904
		0.5KW x 6P AC 3PH 480V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - M904
SELECTION / MAKER		KUKDONG		DONG-A	ASECO		

MK	DATE	REVISIONS	CHK.	APP.
⚠4				
⚠3				
⚠2				
⚠1				

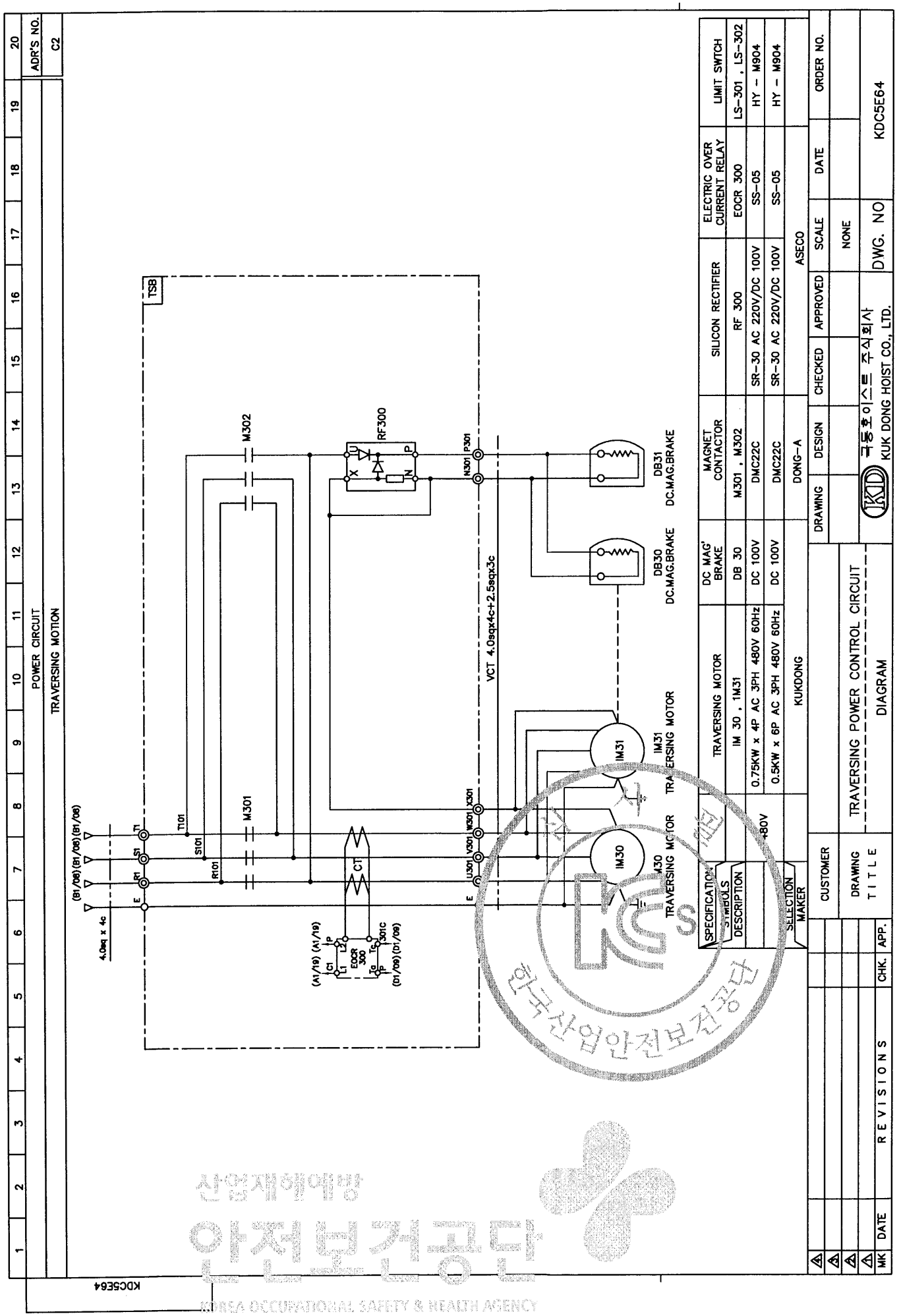
CUSTOMER

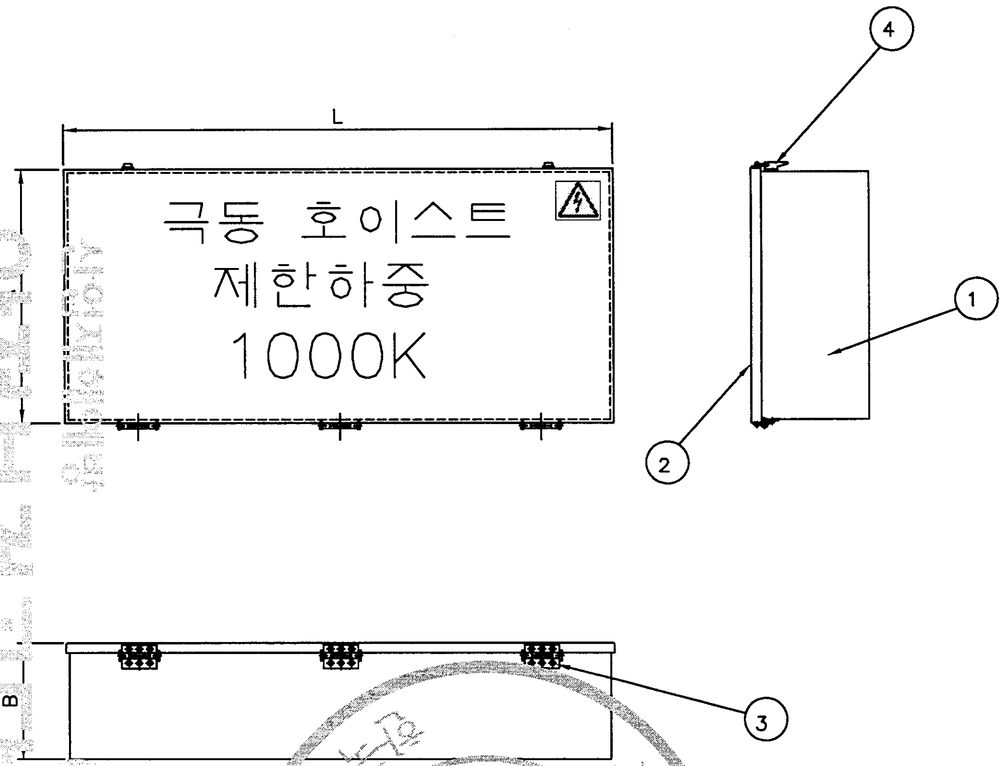
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

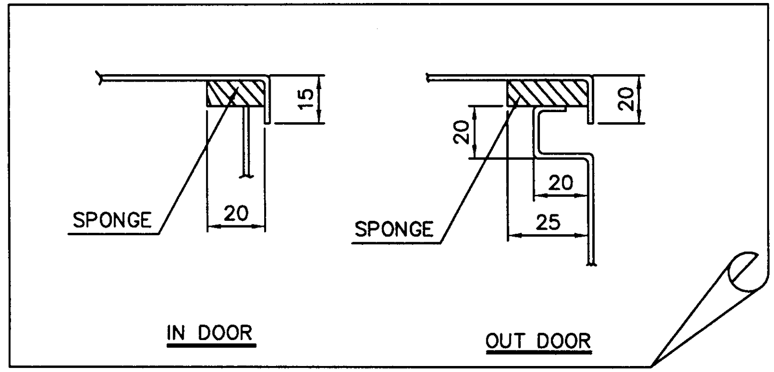
KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC5E63





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'	



N O T E

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 개방 구조는 다음과 같다.

1) 외함 개방시 충전 부분이 차단되도록 한다.

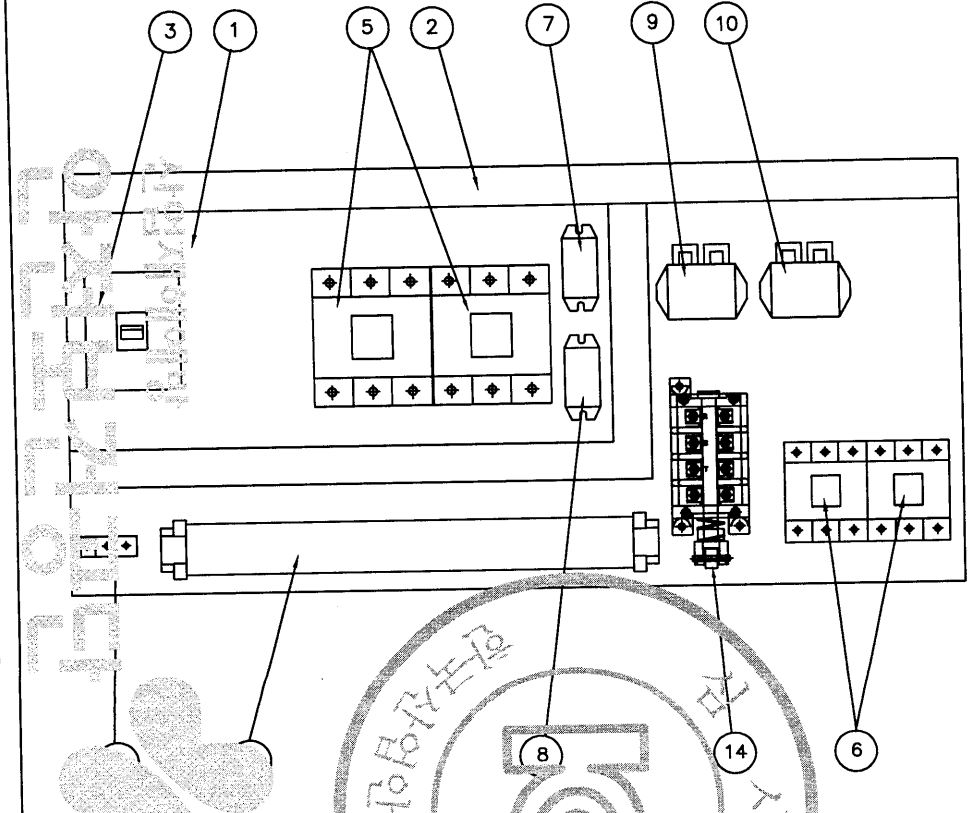
2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR			OUT DOOR			REMARK
			A	B	L		B	L	
	1 TON	NORMAL	320	150	640	320	150	660	
		CREEP	320	150	6[illegible]0	320	150	660	

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING CONTROL BOX LAY-OUT					NONE		
		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC01EB00	

KDC01EB00



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				
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR–30	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				
12				
13				
14	UPPER LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

1. UPPER LIMIT LS–1,LS–2의 접점 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC. 3ø 220V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

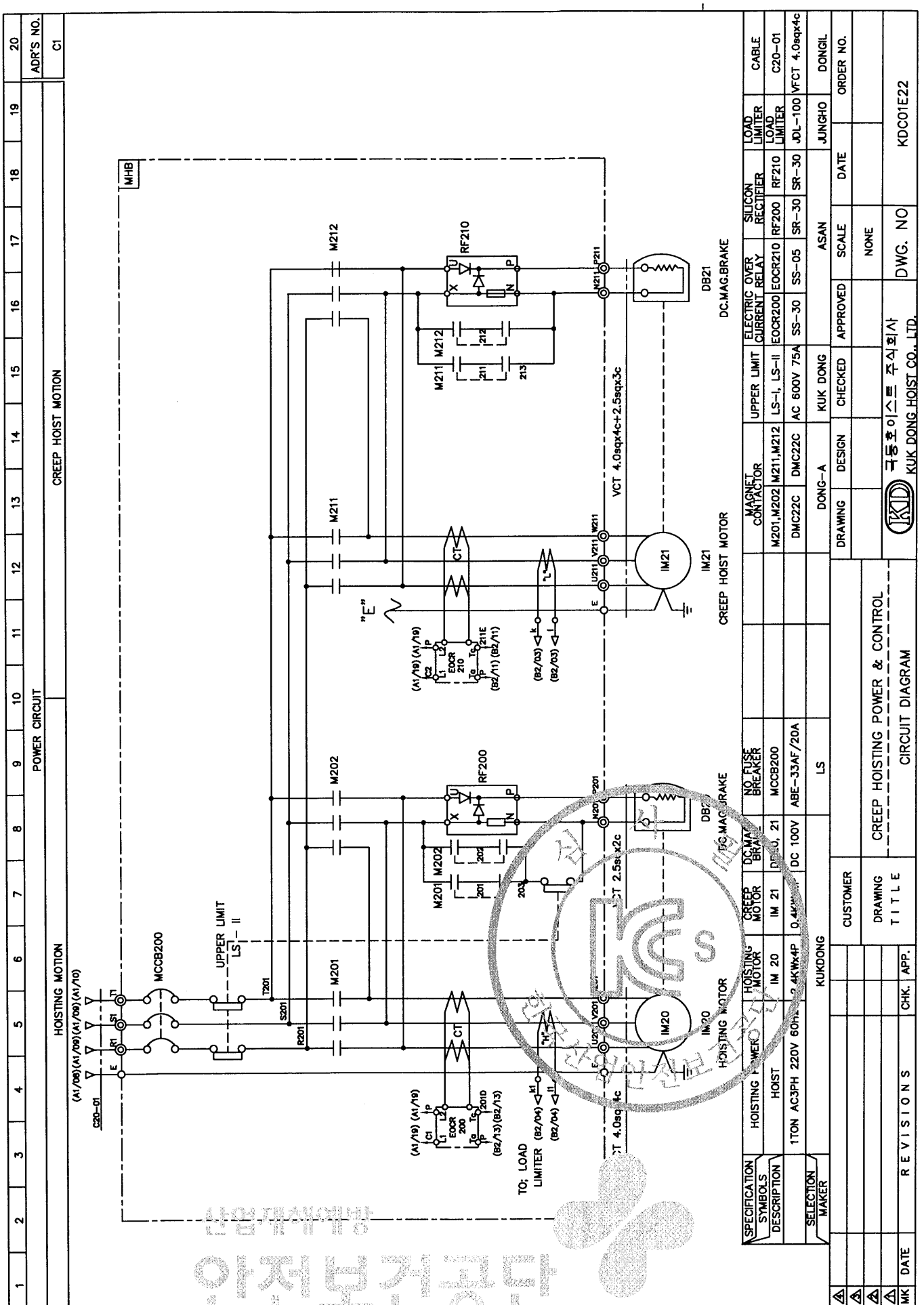
NOTE 1. 전선의 색상은 다음과 같다.

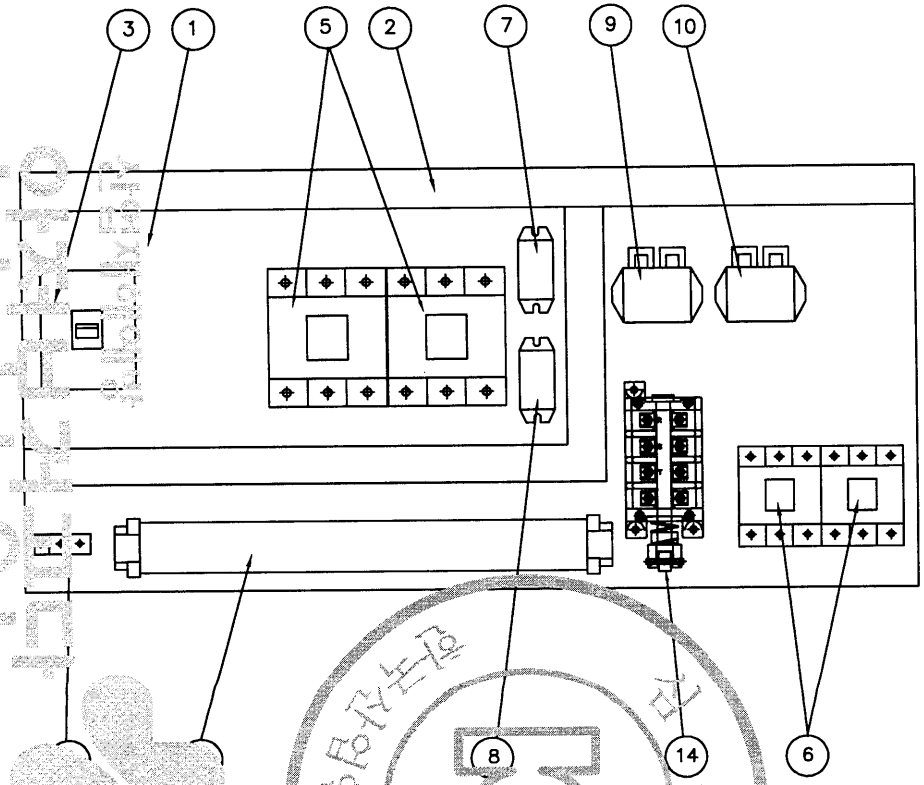
1) 흑색 : 고류 및 직류 전원선로
2) 적색 : 고류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

2. CABLE MATERIAL : KIV OR EQUIVALENT, MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	CREEP HOIST CONTROL BOX					DWG. NO	KDC1BA21	
	ARRANGEMENT DRAWING							





NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/10AT	1	HOISTING
4				
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR–30	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				
12				
13				
14	UPPER LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

1. UPPER LIMIT LS–1,LS–2의 접점 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC 3ø 380V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

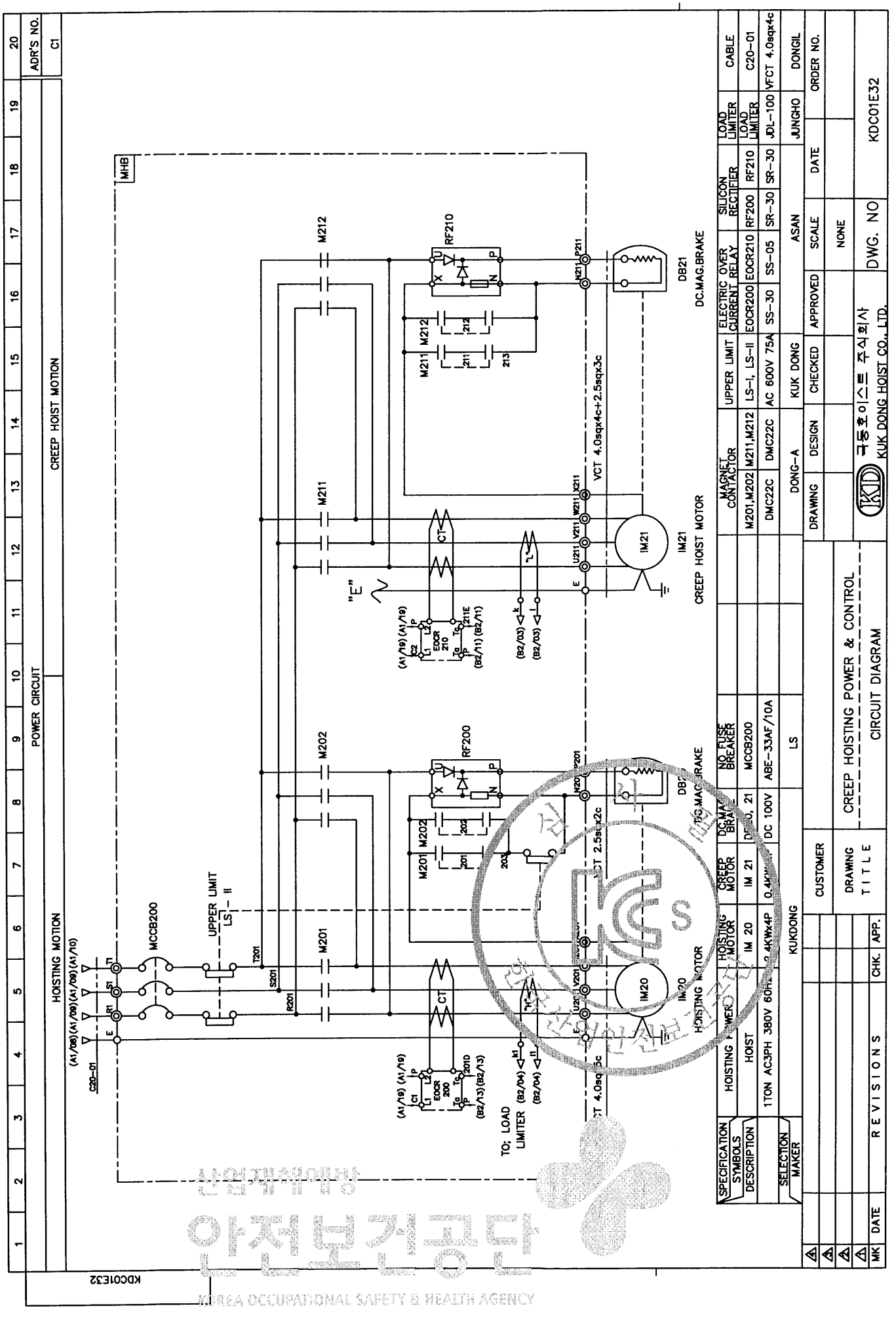
NOTE 1. 전선의 색상은 다음과 같다.

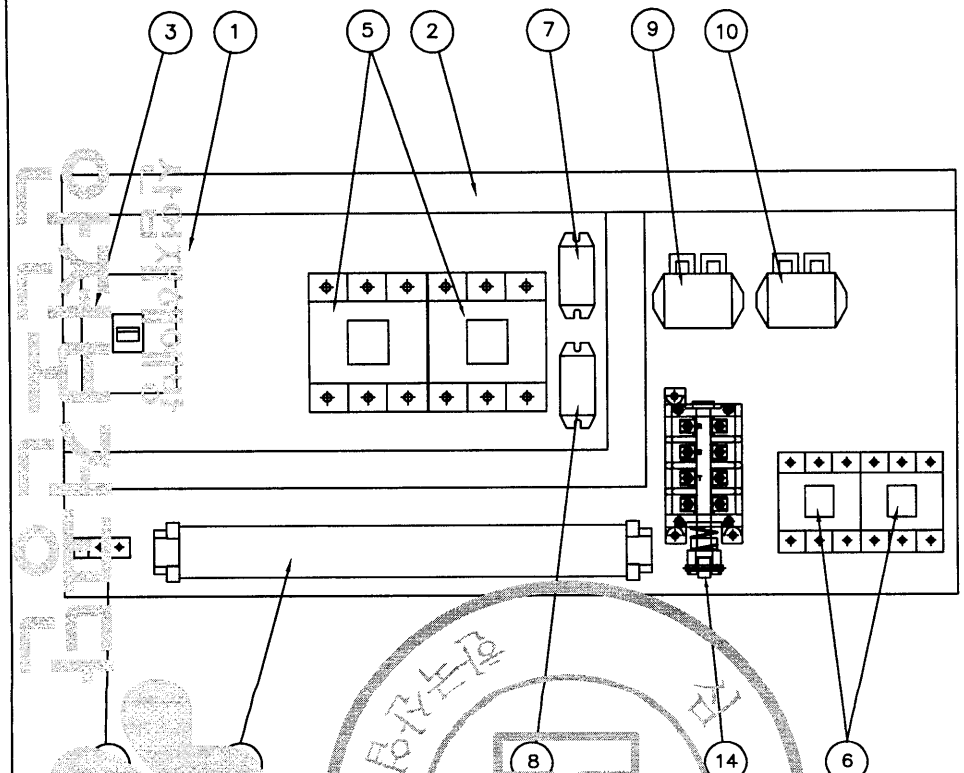
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

MK	DATE	REVISIONS	CHK.	APP.
⚠4				
⚠3				
⚠2				
⚠1				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	CREEP HOIST CONTROL BOX					DWG. NO	KDC1BA31	
	ARRANGEMENT DRAWING							





NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/10AT	1	HOISTING
4				
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR–30	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				
12				
13				
14	UPPER LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

1. UPPER LIMIT LS–1,LS–2의 접점 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC 3ø 440V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

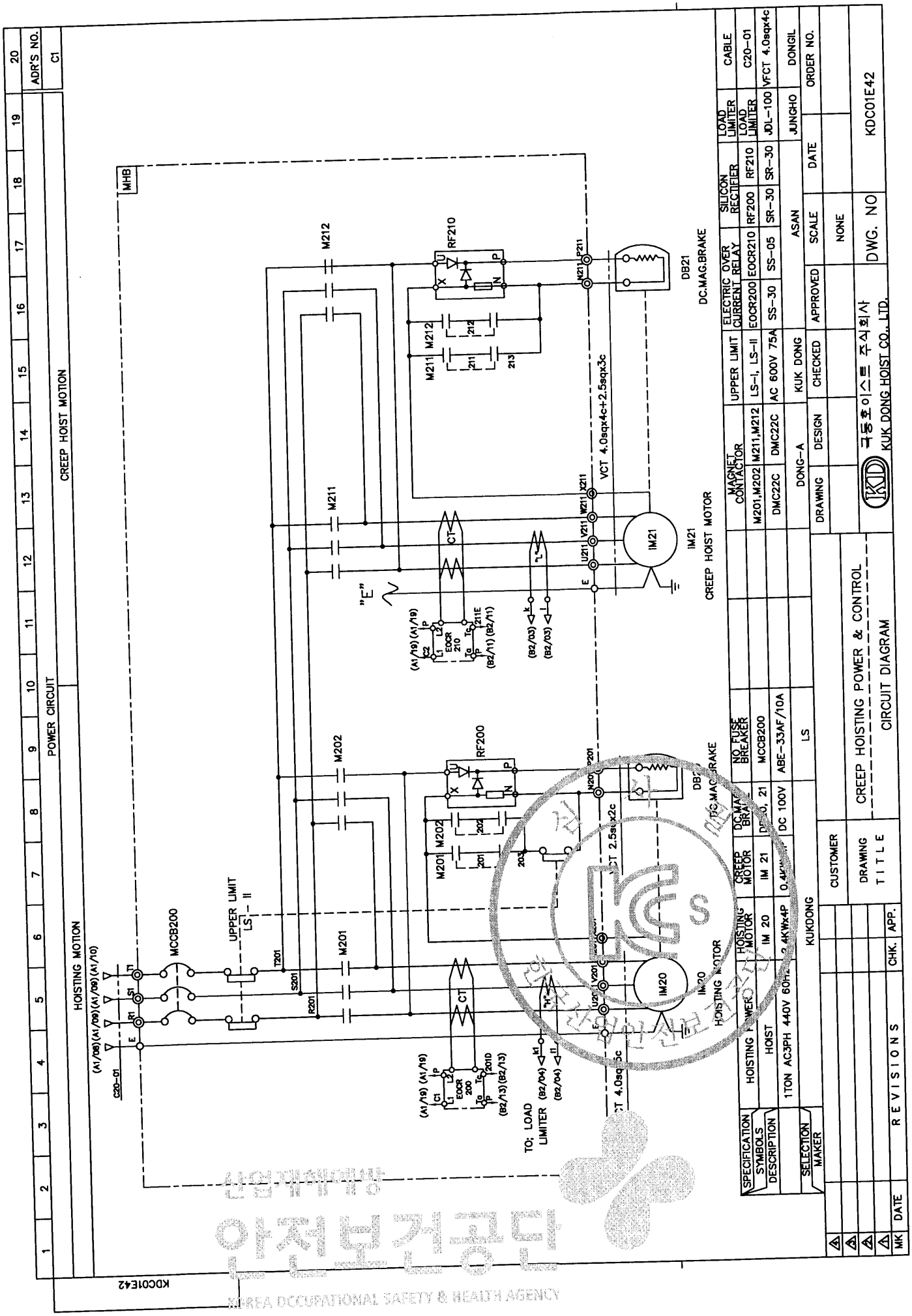
NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 고류 및 직류 전원선로
2) 적색 : 고류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

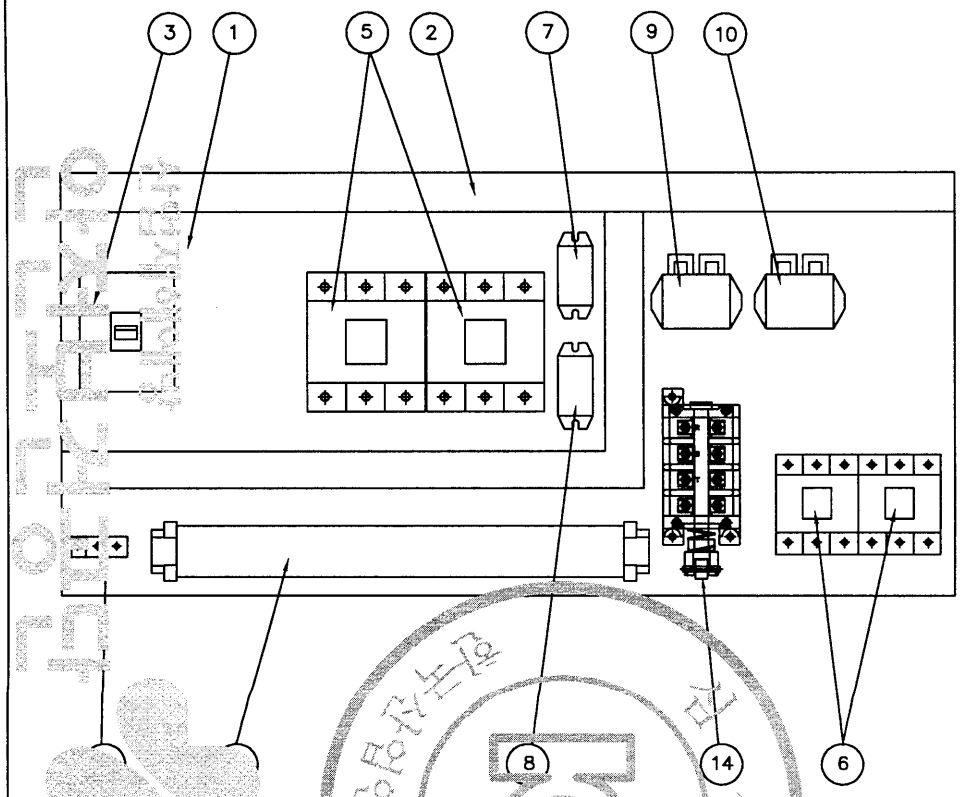
MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	CREEP HOIST CONTROL BOX					DWG. NO	KDC1BA41	
	ARRANGEMENT DRAWING							



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/10AT	1	HOISTING
4				
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR–30	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				
12				
13				
14	UPPER LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

1. UPPER LIMIT LS–1,LS–2의 접점 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC. 3ø 460V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

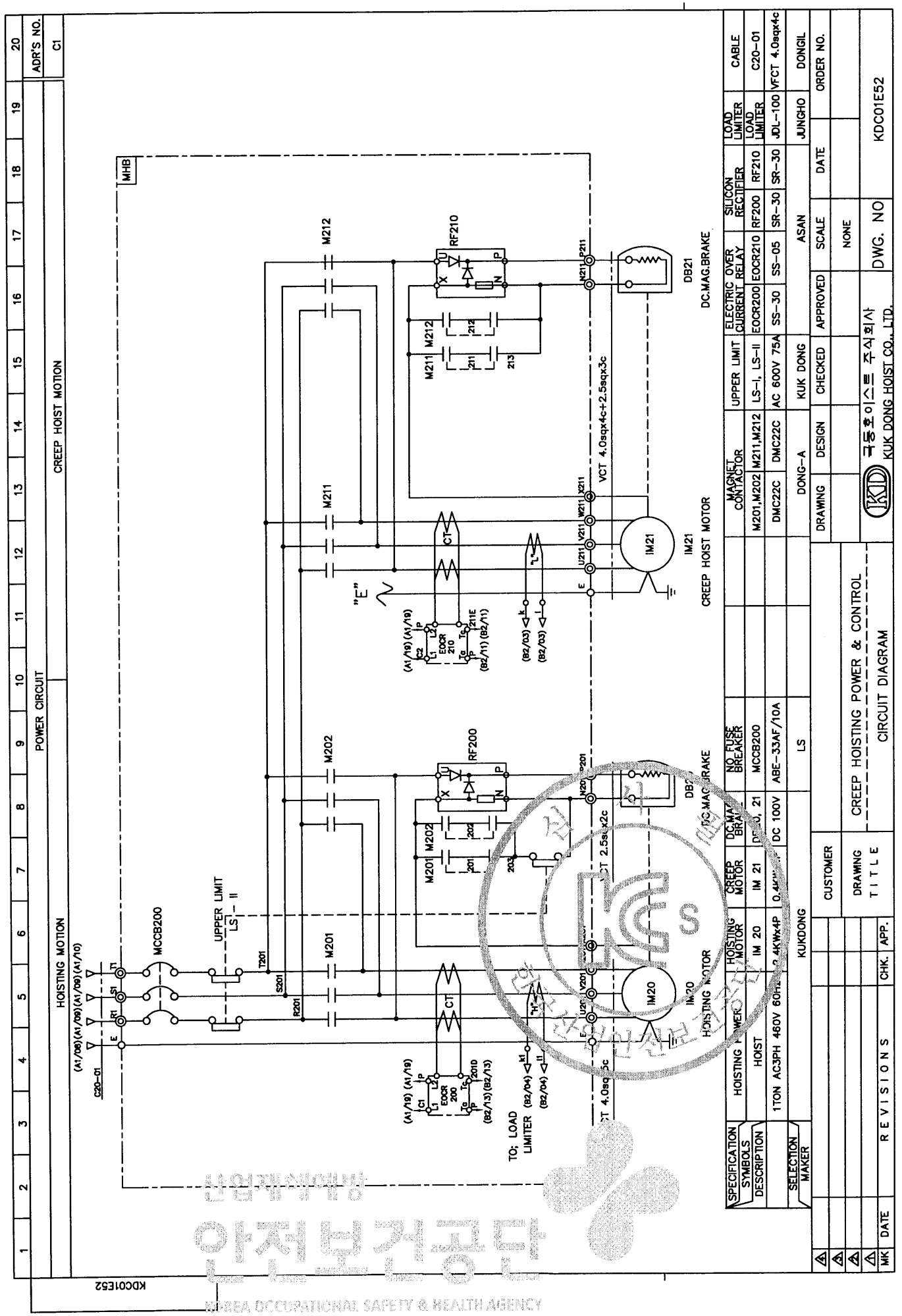
NOTE 1. 전선의 색상은 다음과 같다.

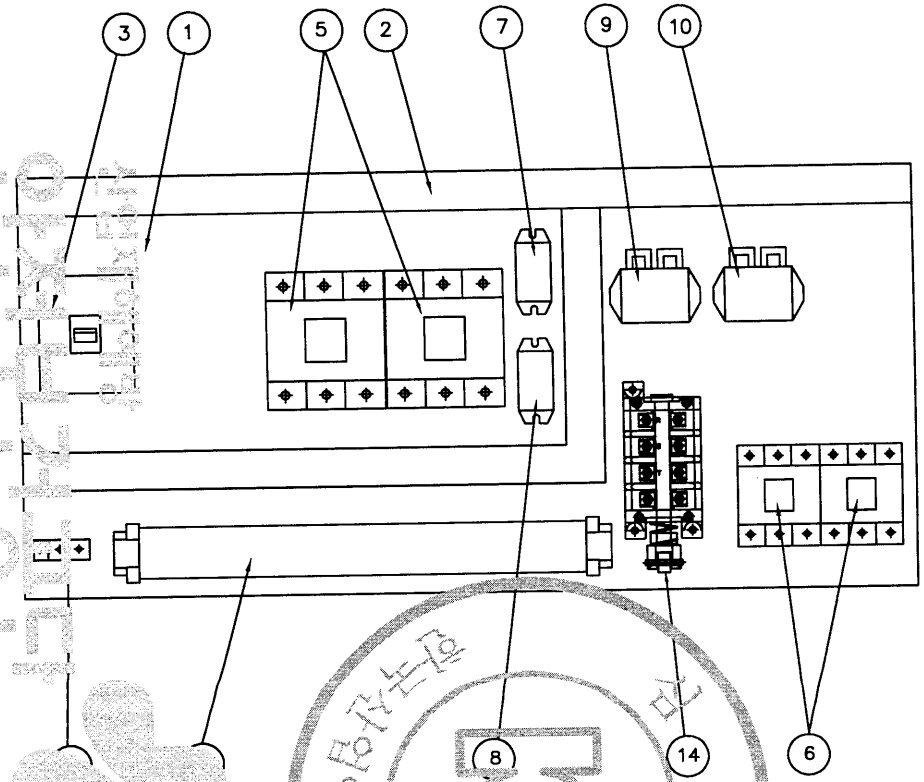
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
   └ MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 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.

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	CREEP HOIST CONTROL BOX					NONE		
	ARRANGEMENT DRAWING					DWG. NO	KDC1BA51	





NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/10AT	1	HOISTING
4				
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR–30	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				
12				
13				
14	UPPER LIMITER	AC 600V, 75A	1	LS–1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

ADR'S NO.

NOTE

1. UPPER LIMIT LS–1,LS–2의 접점 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC. 3ø 480V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

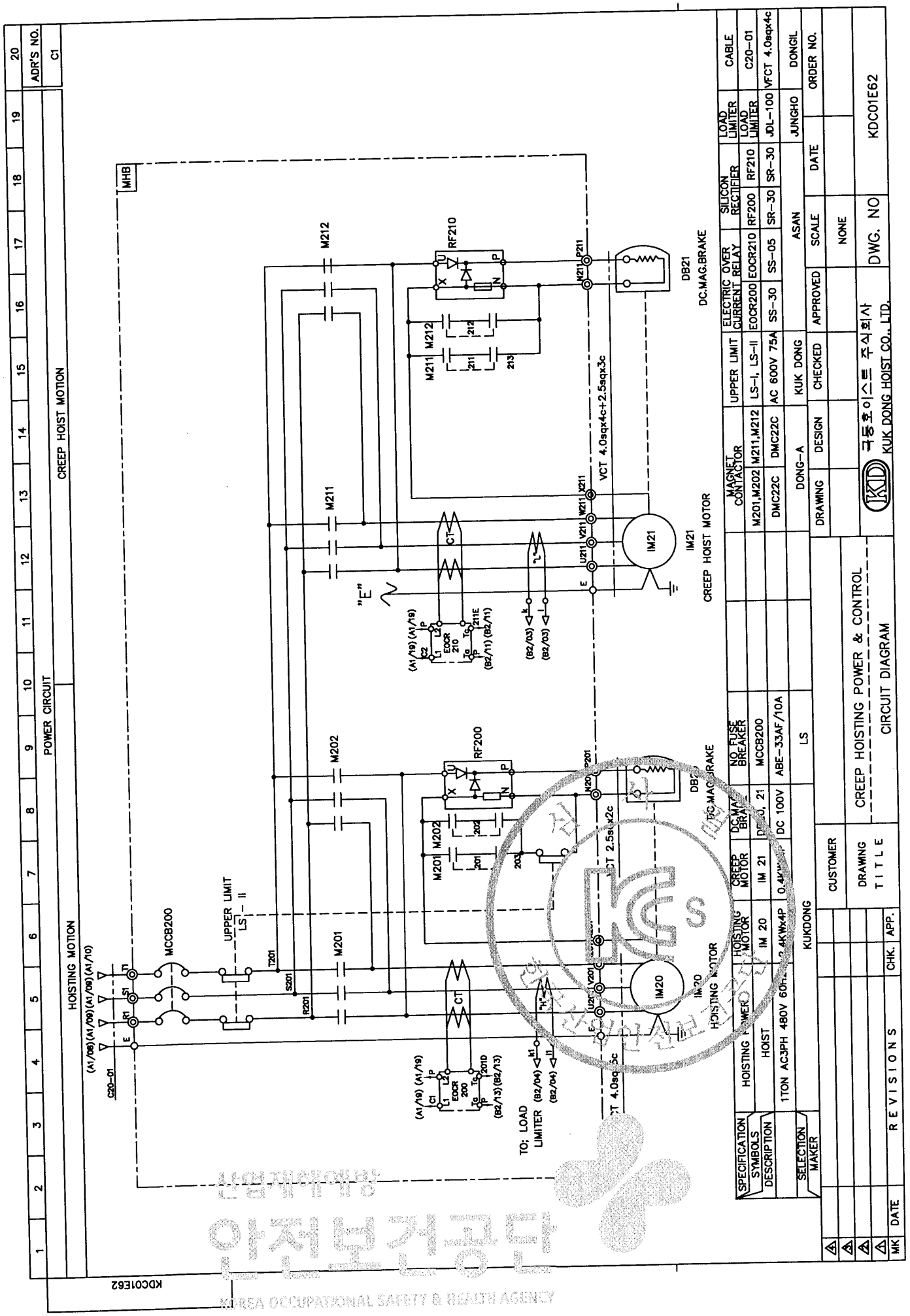
NOTE 1. 전선의 색상은 다음과 같다.

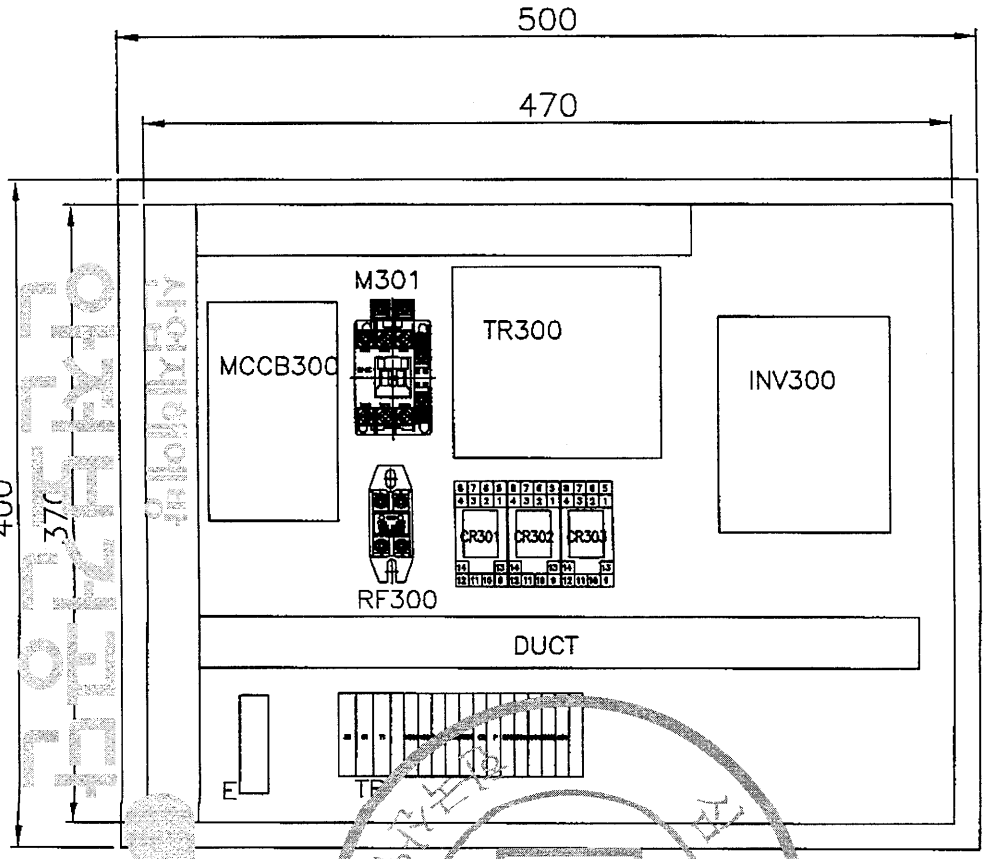
1) 흑색 : 고류 및 직류 전원선로
2) 적색 : 고류제어선
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
5) 청색 : 직류 제어선로

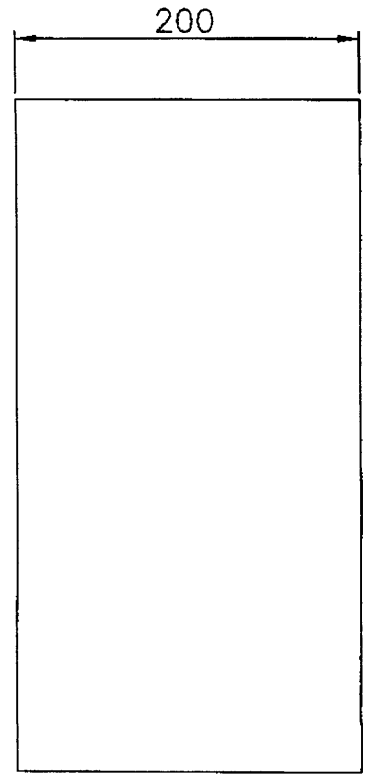
2. CABLE MATERIAL : KIV OR EQUIVALENT, MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
   1) 외함 개방시 충전부분이 차단되도록 할것.
   2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	CREEP HOIST CONTROL BOX					DWG. NO	KDC1BA61	
	ARRANGEMENT DRAWING							







NO.	DESCRIPTION	MT'L	SUB QTY	TOTAL QTY	SUB WEIGHT(Kg)	TOTAL WEIGHT(Kg)	REMARKS.
2	속판	SS400		1			
1	T/S BOX	PUR		1			

NO.	DESCRIPTION	MT'L					
11	EART[illegible] BUS BAR	PUR		1			
10	D[illegible]CT	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			

PROJECT				DATE	DIM
					mm
TITLE	T/S CONTROL PANEL(INVERTER)			SCALE	PROJECTION
				A3/3	3rd
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING	

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET No.

DWG No.
KD05EJ001

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

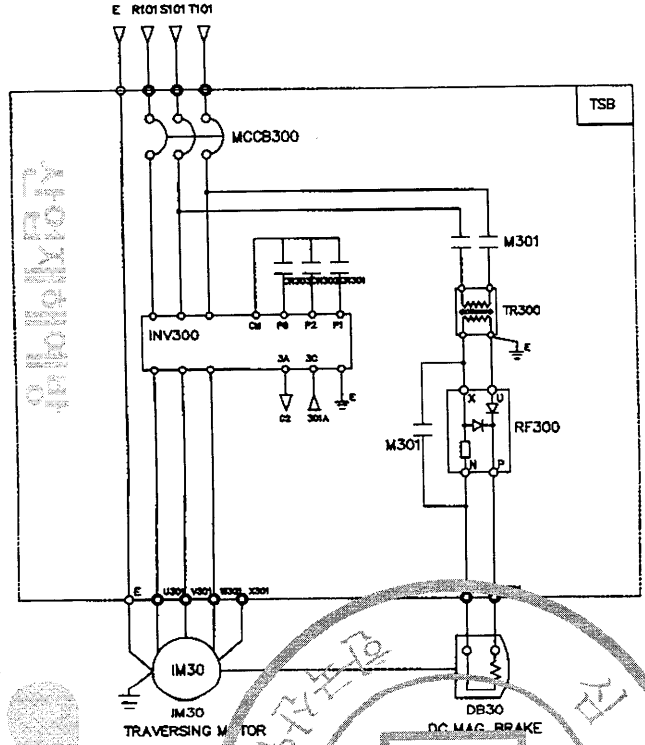
TRAVERSING MOTION

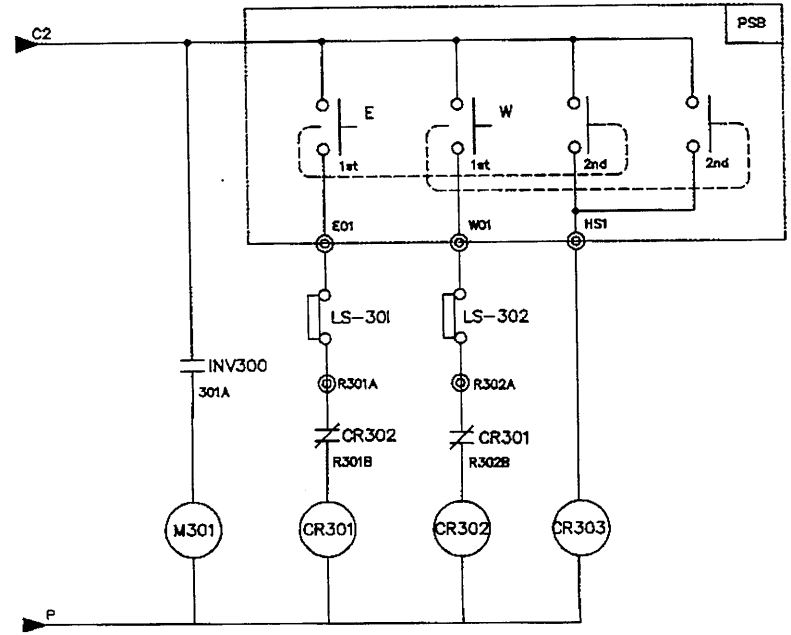
ADR'S NO.

POWER CIRCUIT DIAGRAM

CONTROL CIRCUIT DIAGRAM

BRAKE	EAST	WEST	HIGH SPEED





SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING POWER	TRAVERSING MOTOR	DC MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER
		M 30	DB30	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300
	AC 3PH 220V 60Hz	0.75KW x 4P	DC 100V	ABE-33AF/10AT	220/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015iG5A-2	SR-30
	AC 3PH 380(440,460,480)V 60Hz	0.75KW x 4P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015iG5A-4	SR-30
	AC 3PH 220V 60Hz	0.5KW x 6P	DC 100V	ABE-33AF/10AT	220/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015iG5A-2	SR-30
	AC 3PH 380(440,460,480)V 60Hz	0.5KW x 6P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015iG5A-4	SR-30
SELECTION / MAKER	KUK DONG HOIST							LS	ASAN

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER	INVERTER CONTROL							
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD05EI004	

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

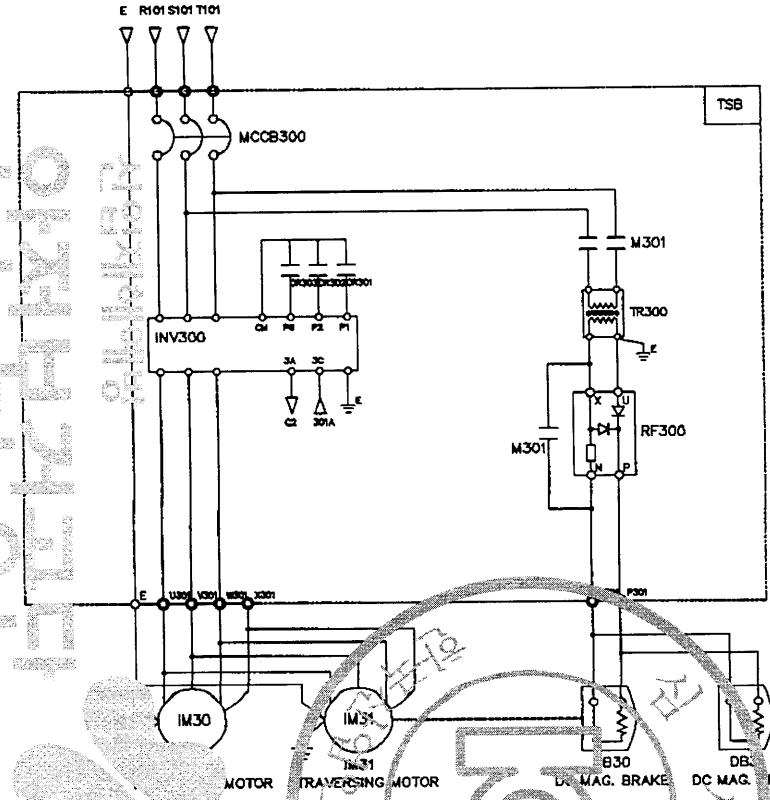
TRAVERSING MOTION

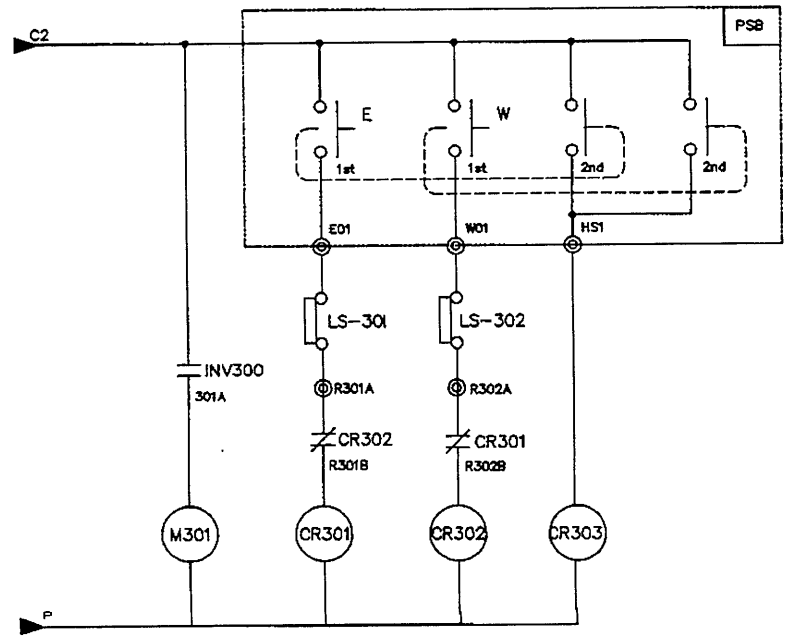
ADR'S NO.

POWER CIRCUIT DIAGRAM

CONTROL CIRCUIT DIAGRAM

BRAKE	EAST	WEST	HIGH SPEED

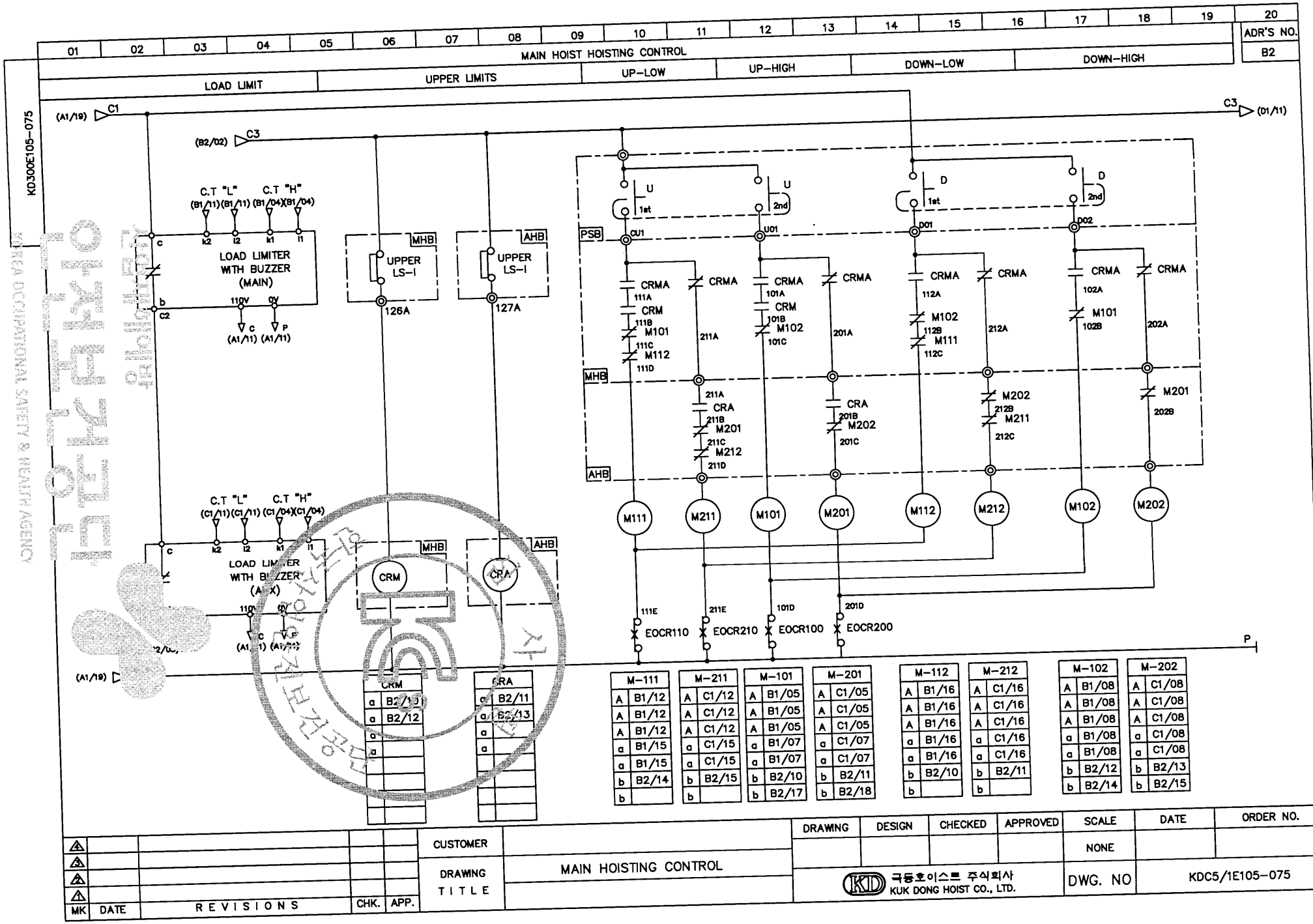


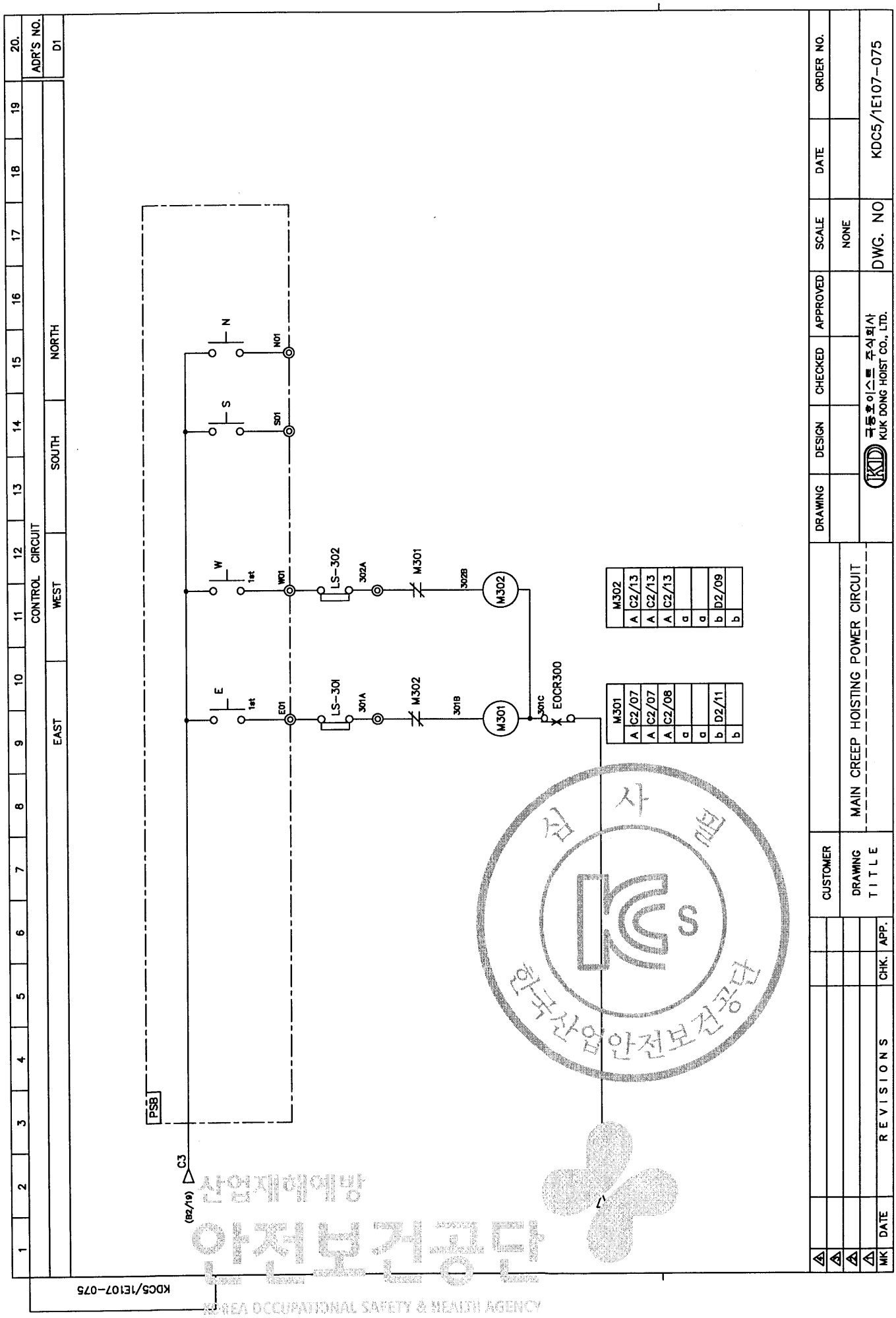


SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING POWER	TRAVERSING MOTOR	D.C MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER	
		IM 30,31	B30,31	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300	
	A 3PH 220V 60Hz	0.75KW x 4P	DC 100V	ABE-33AF/15AT	220/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV037iG5A-2	SR-30	
	AC 3PH 3[illegible](440,460,480)V 60Hz	0.75KW x 4	DC 100V	ABE-33AF/10AT	380(440,460,480)/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV037iG5A-4	SR-30	
	AC 3PH [illegible]20V 60Hz	0.5KW[illegible] 6P	DC 100V	ABE-33AF/15AT	220/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV022iG5A-2	SR-30	
	AC 3PH 380(440,460,[illegible]	0.5KW x 6P	DC 100V	ABE-33AF/10AT	380(440,460,480)/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV022iG5A-4	SR-30	
SELECTION / MAKER	KUK DONG HOIST							LS	ASAN	

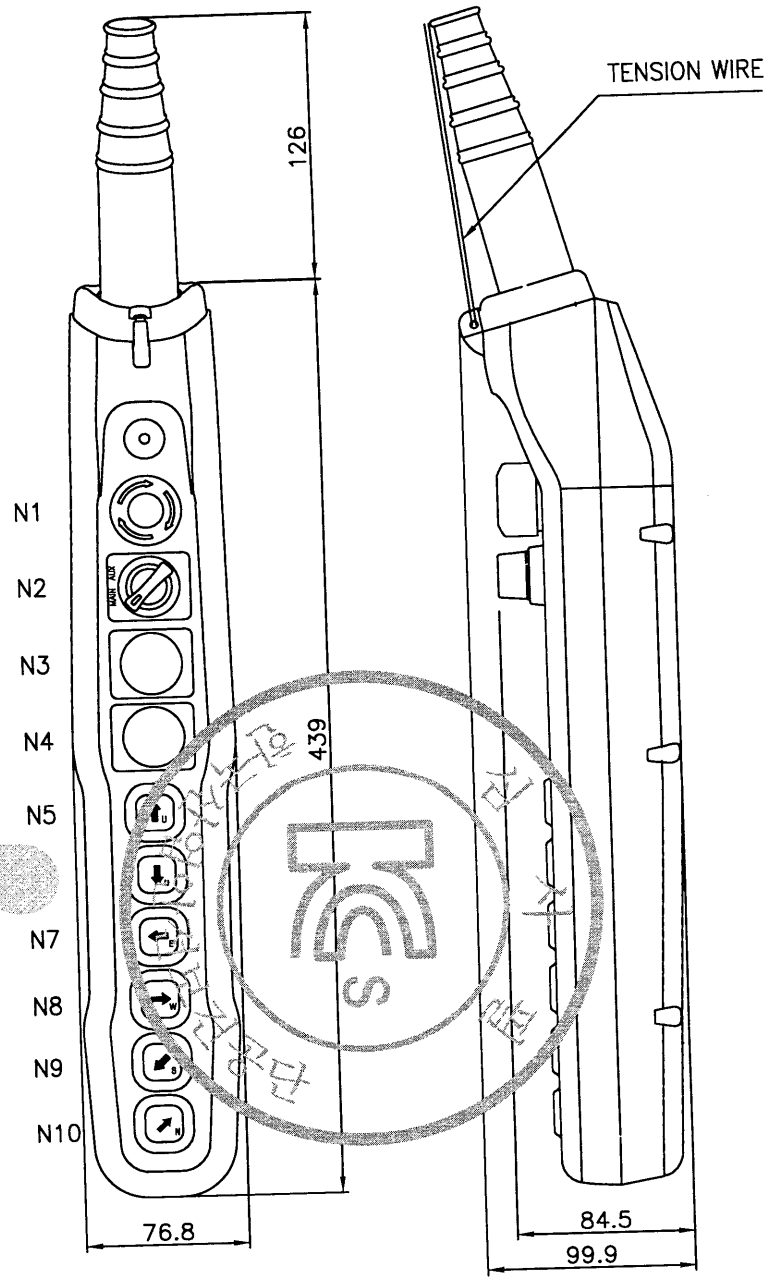
MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER	INVERTER CONTROL							
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD05EI005	





NO	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
1	PUSH BUTTON SWITCH	PUR.	1		



NOTE:

1. MATERIAL: ABS
2. COLOR: YELLOW
3. CONTACTOR: AC250V 6A
4. CABLE: VCT1.5sq
5. IP55 이상

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

NO	NAME	DESCRIPTION	REMARK
N10	N	NORTH(1STEP or 2STEP)	
N9	S	SOUTH(1STEP or 2STEP)	
N8	W	WEST(1STEP or 2STEP)	
N7	E	EAST(1STEP or 2STEP)	
N6	D	DOWN(2STEP)	
N5	U	UP(2STEP)	
N4	–	SPARE	
N3	–	SPARE	
N2	MAIN-AUX	MAIN-AUX	
N1	EBS	EMERGENCY STOP	

No.	DATE	REVISION RECORD	DWG.	CHK.	APP.
1	14.06.01	FIRST ISSUE	M.H.Kim		

Scale N/S | Projection 3rd ANGLES | Mass Kg | OWNER

Title: ELECTRIC WIRE HOIST / KDC5/1-MA / PENDANT CONTROL SWITCH

극동호이스트 주식회사 KUK DONG HOIST CO., LTD. | DWG No.

4. 참 고 도 서

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 220V 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%				
CT 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	
C 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	
	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 수치는 권고 SETTING 수치이며 MOTOR의 특성 및 현장 조건에 따라 변경 가능함.

LOAD LIMITER 권고 SETTING치

극동호이스트(주)

* POWER SOURCE : AC 3¢ 380V 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%				
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	
C[illegible] 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	
[illegible] 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 3¢ 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	
C[illegible]ON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	18.5 A	CT-2	K-K1, L-L1	5 V.A	
[illegible]	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 A	CT-1	K-K1, L-L1	5 V.A	
[illegible]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

극동호이스트(주)

* POWER SOURCE : AC 3¢ 460V 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%				
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	
C[illegible]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	
	9.0KW x 8P	110%	1 SEC	1 SEC	21.5 A	23.7 A	CT-2	K-K1, L-L1	5 V.A	
[illegible]TON	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 3¢ 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	
C 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	
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	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.

E.O.C.R 권고 SETTING치

극동호이스트(주)

* POWER SOURCE : AC 3¢ 220V 60Hz

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

E.O.C.R 권고 SETTING치

극동호이스트(주)

* POWER SOURCE : AC 3¢ 380V 60Hz

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	[illegible] 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	
[illegible] 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

극동호이스트(주)

* POWER SOURCE : AC 3¢ 440V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치 DELAY TIME	권고 SETTING 치 OPERATION TIME	권고 SETTING 치 CURRENT	REMARK
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	
[illegible].5 TON	5.[illegible]KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	[illegible].0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.3 A	
[illegible]	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

극동호이스트(주)

* POWER SOURCE : AC 3∅ 460V 60Hz

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	1.4 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	
[illegible] 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	
[illegible]	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 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 3¢ 480V 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	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.6 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	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	
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	
	9.0KW x 8P	20.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.6 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.

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	28.2 A
12. LOCKED ROTOR CURRENT	155.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	85.4 %
16. FULL LOAD TORQUE	11.39 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307ZZ OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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	16.3 A
12. LOCKER ROTOR CURRENT	89.8 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	83.4 %
16. FULL LOAD TORQUE	1.50 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6307ZZ OPL : 6207zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	℃
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 M
4. RATED POWER	5.5 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	14.1 A
12. LOCKED ROTOR CURRENT	77.6 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	83.4 %
16. FULL LOAD TORQUE	11.59 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T.E.N.V.
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
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 L
4. RATED POWER	5.5 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 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	13.5 A
12. LOCKED ROTOR CURRENT	74.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	83.4 %
16. FULL LOAD TORQUE	4.59 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307ZZ OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	12.9 A
12. LOCKED ROTOR CURRENT	71.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	80.4 %
16. FULL LOAD TORQUE	4.59 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	6.7 A
12. LOCKED ROTOR CURRENT	23.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	/
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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	1152 RPM
11. FULL LOAD CURRENT	3.9 A
12. LOCKED ROTOR CURRENT	13.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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	1152 RPM
11. FULL LOAD CURRENT	3.3 A
12. LOCKED ROTOR CURRENT	11.9 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	6[illegible] %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	[illegible] ℃
22. BEARING LUBRICATION	G R [illegible] S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	3.2 A
12. LOCKED ROTOR CURRENT	11.4 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	3.1 A
12. LOCKED ROTOR CURRENT	10.9 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	6 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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	%
16. FULL LOAD TORQUE	KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	℃
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

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	7[illegible]5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	[illegible] ℃
22. BEARING LUBRICATION	G R [illegible] S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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	7[illegible]5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205ZZ OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	[illegible] ℃
22. BEARING LUBRICATION	G R [illegible] S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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	3.5 %
16. FULL LOAD TORQUE	02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6203zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	0 ℃
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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	[illegible]%
16. FULL LOAD TORQUE	[illegible] KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	[illegible] ℃
22. BEARING LUBRICATION	G R [illegible] S E
23. STARTING METHOD	F U L L V O L T A G E

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	0.8 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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	%
16. FULL LOAD TORQUE	KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	℃
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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	9.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205ZZ OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	0 ℃
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

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 ℃
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	[illegible] %
16. FULL LOAD TORQUE	[illegible] KG.M
17. SITE ALTTITUDE(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	[illegible] ℃
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	112 S
4. RATED POWER	2.4 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 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	10 A
12. STARTING CURRENT AT RATED VOLTAGE	59 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	7[illegible] %
16. STARTING TORQUE	2.88 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	[illegible]
22. BEARING LUBRICATION	G I S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 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	1692 RPM
11. FULL LOAD CURRENT	5.8 A
12. STARTING CURRENT AT RATED VOLTAGE	34.2 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	7[illegible] %
16. STARTING TORQUE	2.88 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H[illegible] Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	[illegible]
22. BEARING LUBRICATION	G R [illegible] S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 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	1692 RPM
11. FULL LOAD CURRENT	5.0 A
12. STARTING CURRENT AT RATED VOLTAGE	29.5 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	7 %S
16. STARTING TORQUE	2.88 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H ZONTAL
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G SE
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	112 S
4. RATED POWER	2.4 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	1692 RPM
11. FULL LOAD CURRENT	4.8 A
12. STARTING CURRENT AT RATED VOLTAGE	28.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	7[illegible] %
16. STARTING TORQUE	2.88 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 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	1692 RPM
11. FULL LOAD CURRENT	4.6 A
12. STARTING CURRENT AT RATED VOLTAGE	27.1 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	7 %
16. STARTING TORQUE	2.88 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 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 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	2.7 A
12. STARTING CURRENT AT RATED VOLTAGE	14.2 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	6..5 %
16. STARTING TORQUE	0.7 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G I S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 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	1692 RPM
11. FULL LOAD CURRENT	1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	8.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 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	1692 RPM
11. FULL LOAD CURRENT	1.4 A
12. STARTING CURRENT AT RATED VOLTAGE	7.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	6[illegible] %
16. STARTING TORQUE	0.7 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N-V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H[illegible]IZONTAL
21. MAXIMUM AMBIENT TEMPURE	[illegible]
22. BEARING LUBRICATION	GI[illegible]SE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 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	1692 RPM
11. FULL LOAD CURRENT	1.3 A
12. STARTING CURRENT AT RATED VOLTAGE	6.8 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	
22. BEARING LOCATION	G F S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 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	1692 RPM
11. FULL LOAD CURRENT	1.2 A
12. STARTING CURRENT AT RATED VOLTAGE	6.6 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	/
22. BEARING LUBRICATION	G R S E
23. STARTING METHOD	F U L L V O L T A G E

ORIGINAL

KISWIRE QINGDAO LTD.
No.600 Chuangye 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/m^2 MAX. g/m^2

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	5

DATE OF SAMPLE TEST *Jan. 15, 2010*

CHIEF INSPECTOR D.S.NA
KISWIRE QINGDAO LTD.

KISWIRE

INVOICE NO. 2010 - 10 - 256 / PW10061 DATE *26. Oct, 2010*

MILL TEST CERTIFICATE

THIS IS TO CERTIFY THAT THE MATERIAL DESCRIBED BELOW WAS MANUFACTURED IN ACCORDANCE WITH KISWIRE SPECIFICATION AND APPLICABLE SECTIONS

OF KSD 3514 - 2002 (B Grade)

TO MESSRS KISWIRE LTD

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06 x 36(WS) + PP 1,000.00 M x 10 REEL

TYPE KSD 3514-1997

EX NO. PW10105-8

ORDER NO. SMW1010-6/SAMJIN REEL NO. 41 - 50 SAMPLING NO. 41

DIAMETER OF ROPE 08.00 mm TYPE OF CORE POLYPROPYLENE

SPECIFIED NOMINAL

BREAKING STRENGTH 37.90 kN SAMPLE BROKE AT 42.96 kN

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

ROPE LAY RHRL LAY LENGTH 85.15 mm

LUBRICATION A-3

CHEMICAL ANALYSIS OF WIRE ROD

CHARGE NO.	C X 100	Si X 100	Mn X 100	P X 1000	S X 1000
SA21063591	72	21	57	8	12

ISO 9001 REGISTERED

ABS TYPE APPROVAL PROGRAM

DATE OF SAMPLE TEST 21. Oct, 2010

Q. MANAGER

KISWIRE