제 2015 - 49861 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

KDC20-M (20Ton) /15-AE2AC-02194

인 증 기 준

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

인 증 조 건

2015년 02월 16일

한국산업안전보건공단이사장

심 사 결 과 통 지 서

신청인	사 업 장 명	극동호이스트(주)	사업장관리번호 (사업자등록번호)	134-81-013350 134-81-01335
	소 재 지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		
	대표자 성명	최성찬		
안전인증대상 기계 · 기구명		호이스트		
형 식 (규 격)		KDC20-M	용 량 (등 급)	20 Ton
인 증 심 사 원		이영진		

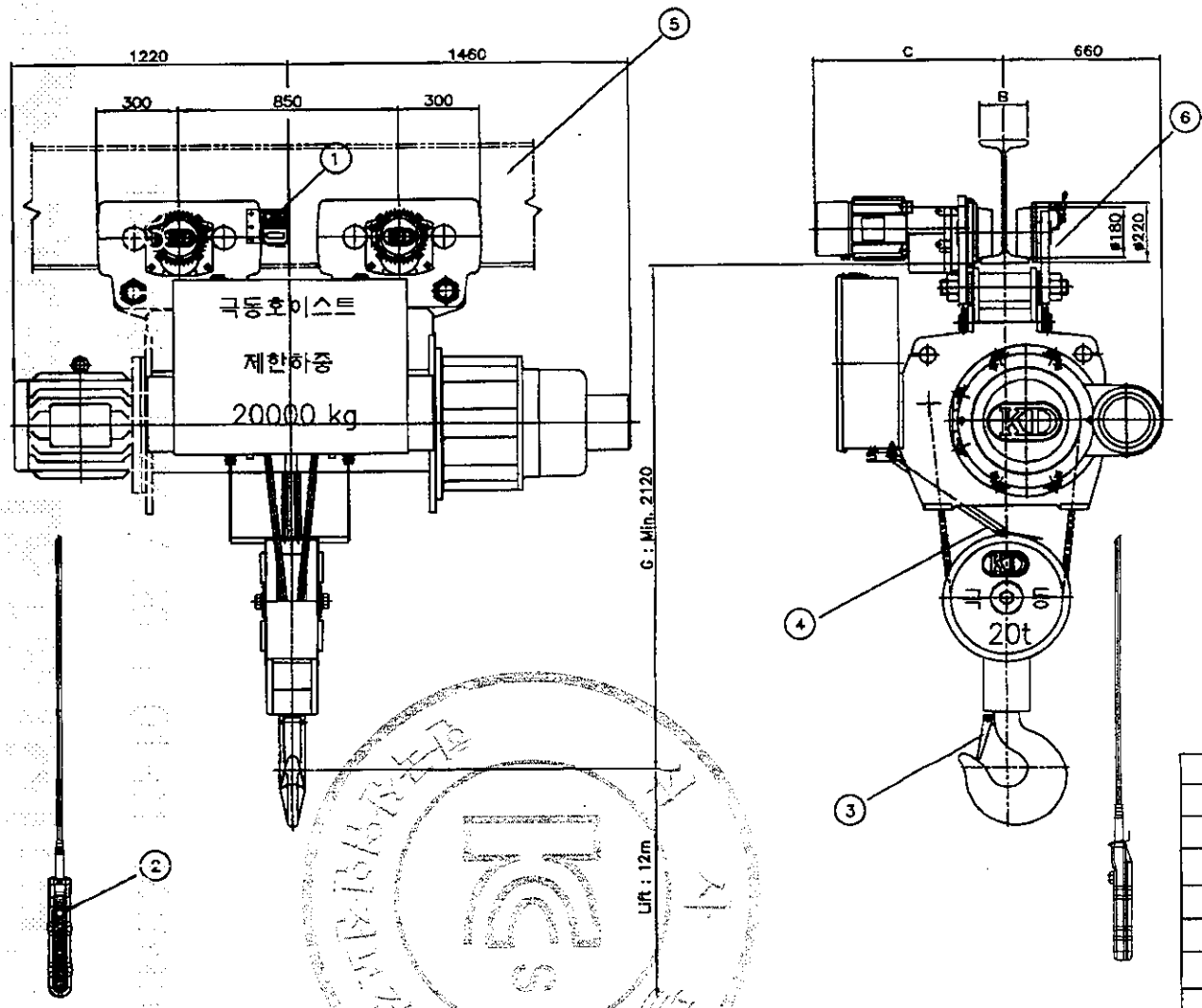
산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한 서면심사 결과가 적합 함을 통지합니다.

2011 년 01 월 19 일

한국산업안전보건공단 서울지역본부장

동일 형식 일람표

사업장명	극동호이스트㈜	개정일자 및 번호			인증번호	비 고
형식 및 모델		동일 형식 인정범위 및 내역				
형식	모델	권상속도(m/min)	횡행속도(m/min)	양정(m)	횡행방식	
KDC20-M	KDC20-L12-M	고속:4.2M/MIN CREEP:0.42M/MIN	고속:15M/MIN 저속:10M/MIN 듀얼고속:15/7.5M/MIN 듀얼저속:10/5M/MIN	12	모터구동식	
	KDC20-L18-M			18		
	KDC20-L24-M			24		
	KDC20-L30-M			30		
	-			-		

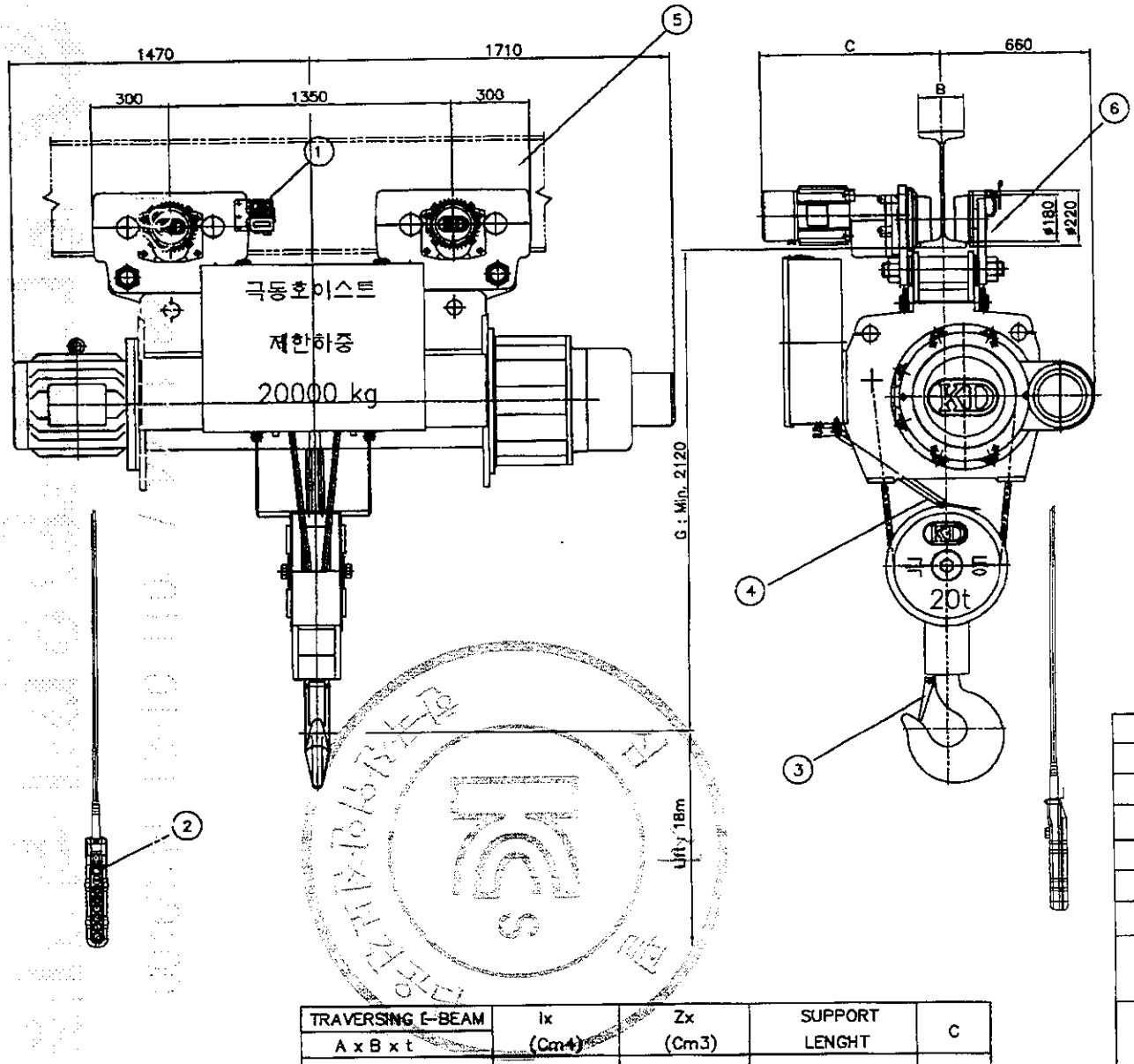


SPECIFICATION			
HOISTING LOAD			20000 KG
TESTING LOAD			25000 KG
LIFT			12 M
RATING			30 MIN
HOISTING		SPEED	4.2/0.42 M/MIN
		MOTOR	17/1.8 KWx8P
TRAVERSING	SPEED	HIGH	15 M/MIN
		LOW	10 M/MIN
	MOTOR (2UNIT)	HIGH	1.5 KWx4P
		LOW	1.0 KWx6P
	SPEED	DUAL HIGH	15/7.5 M/MIN
		DUAL LOW	10/5 M/MIN
	MOTOR (2UNIT)	DUAL HIGH	1.5/0.75 KWx4/8P
		DUAL LOW	1.0/0.5 KWx6/12P
WIRE ROPE			(6x37) ø22.4x4FALLS
POWER SOURCE			AC 3ø 220, 380, 440, 460, 480V 60Hz
COLOR			10 B 3/5
WEIGHT			2520 KG

NO.	DESCRIPTIONS	MT'L	SET QTY	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
6	TRAVERSING LIMIT S/W	PUR.		2			
5	I-BEAM	SS400		–			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	PUSH BUTTON S/W	–		1			
1	LOAD LIMITER	–		1			

TRAVERSING G-BEAM A x B x t	Ix (Cm4)	Zx (Cm3)	SUPPORT LENGHT	C
I 450x175x13t	48800	2170	MAX. 3.3M	580
I 600x190x13t	94800	3280	MAX. 4.8M	590

PROJECT		DATE	. . 19 . . .
TITLE	KDC20 – L12 – M ARRANGEMENT DRAWING FOR HOIST	SCALE	A3/15 /
DRAWN	DESIGNED / CHECKED / APPROVED	REF DRAWING	
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET NO.	DRAWING NO.	KDC20M1200

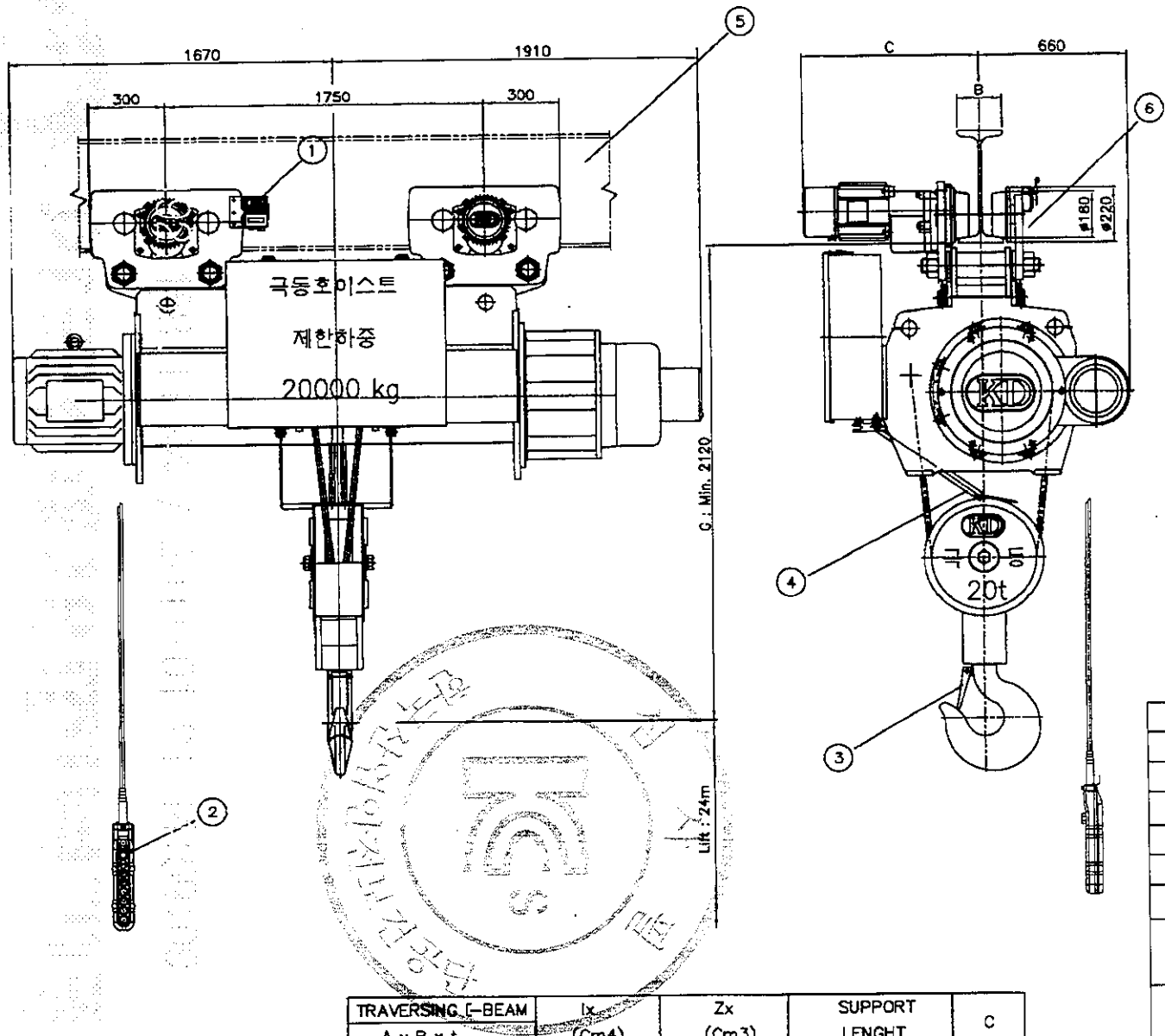


SPECIFICATION			
HOISTING LOAD			20000 KG
TESTING LOAD			25000 KG
LIFT			18 M
RATING			30 MIN
HOISTING		SPEED	4.2/0.42 M/MIN
		MOTOR	17/1.8 KWx8P
TRAVERSING	SPEED	HIGH	15 M/MIN
		LOW	10 M/MIN
	MOTOR (2UNIT)	HIGH	1.5 KWx4P
		LOW	1.0 KWx6P
	SPEED	DUAL HIGH	15/7.5 M/MIN
		DUAL LOW	10/5 M/MIN
	MOTOR (2UNIT)	DUAL HIGH	1.5/0.75 KWx4/8P
		DUAL LOW	1.0/0.5 KWx6/12P
WIRE ROPE			(6x37) ø22.4x4FALLS
POWER SOURCE			AC 3ø 220, 380, 440, 460, 480V 60Hz
COLOR			10 B 3/5
WEIGHT			2930 KG

NO.	DESCRIPTIONS	MTL	SET QTY	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
6	TRAVERSING LIMIT S/W	PUR.		2			
5	I-BEAM	SS400		-			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	PUSH BUTTON S/W	-		1			
1	LOAD LIMITER	-		1			

TRAVERSING I-BEAM A x B x t	Ix (Cm4)	Zx (Cm3)	SUPPORT LENGHT	C
I 450x175x13t	48800	2170	MAX. 3.3M	580
I 600x190x13t	94800	3280	MAX. 4.8M	590

PROJECT		DATE
		19 . . .
TITLE	KDC20 – L18 – M ARRANGEMENT DRAWING FOR HOIST	SCALE A3 / 15 /
DRAWN	DESIGNED / CHECKED / APPROVED	REF DRAWING
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET NO.	DRAWING NO. KDC20M1800

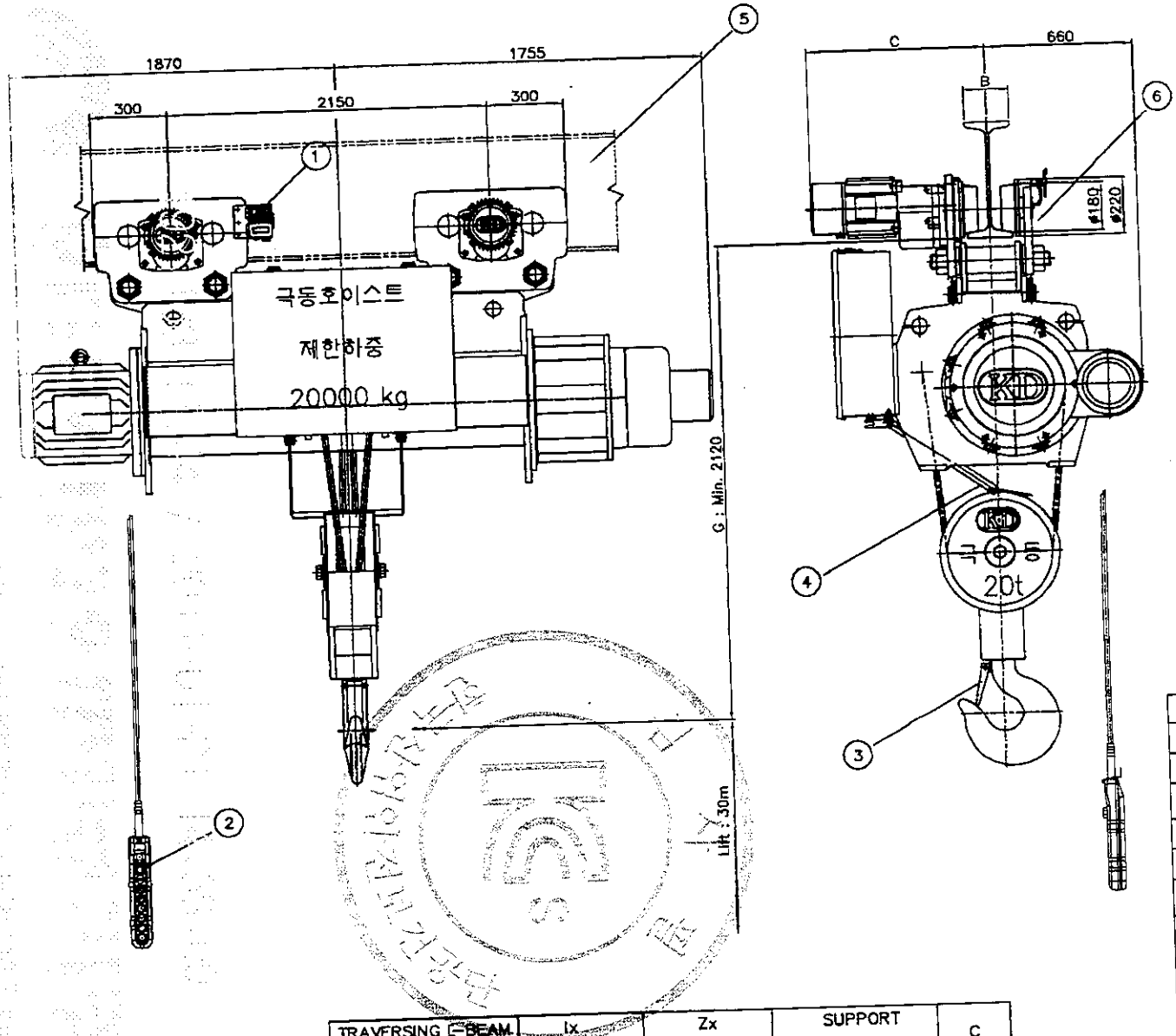


SPECIFICATION			
HOISTING LOAD		20000 KG	
TESTING LOAD		25000 KG	
LIFT		24 M	
RATING		30 MIN	
HOISTING		SPEED	4.2/0.42 M/MIN
		MOTOR	17/1.8 KWx8P
TRAVERSING	SPEED	HIGH	15 M/MIN
		LOW	10 M/MIN
	MOTOR (2UNIT)	HIGH	1.5 KWx4P
		LOW	1.0 KWx6P
	SPEED	DUAL HIGH	15/7.5 M/MIN
		DUAL LOW	10/5 M/MIN
	MOTOR (2UNIT)	DUAL HIGH	1.5/0.75 KWx4/8P
		DUAL LOW	1.0/0.5 KWx6/12P
WIRE ROPE		(6x37) ø22.4x4FALLS	
POWER SOURCE		AC 3ø 220, 380, 440, 460, 480V 60Hz	
COLOR		10 B 3/5	
WEIGHT		3300 KG	

TRAVERSING I-BEAM A x B x t	Ix (Cm4)	Zx (Cm3)	SUPPORT LENGHT	C
I 450x175x13t	48800	2170	MAX. 3.3M	580
I 600x190x13t	94800	3280	MAX. 4.8M	590

NO.	DESCRIPTIONS	MT'L	SET QTY	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
6	TRAVERSING LIMIT S/W	PUR.		2			
5	I-BEAM	SS400		-			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	PUSH BUTTON S/W	-		1			
1	LOAD LIMITER	-		1			

PROJECT		DATE	19 . . .
TITLE	KDC20 - L24 - M ARRANGEMENT DRAWING FOR HOIST	SCALE	A3 1/5
DRAWN	DESIGNED / CHECKED / APPROVED	REF DRAWING	
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.	DRAWING NO. KDC20M2400



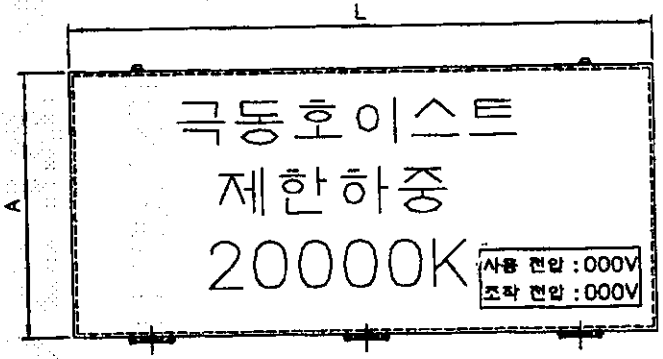
SPECIFICATION			
HOISTING LOAD			20000 KG
TESTING LOAD			25000 KG
LIFT			30 M
RATING			30 MIN
HOISTING		SPEED	4.2/0.42 M/MIN
		MOTOR	17/1.8 KWx8P
TRAVERSING	SPEED	HIGH	15 M/MIN
		LOW	10 M/MIN
	MOTOR (2UNIT)	HIGH	1.5 KWx4P
		LOW	1.0 KWx6P
	SPEED	DUAL HIGH	15/7.5 M/MIN
		DUAL LOW	10/5 M/MIN
	MOTOR (2UNIT)	DUAL HIGH	1.5/0.75 KWx4/8P
		DUAL LOW	1.0/0.5 KWx6/12P
WIRE ROPE			(6x37) ø22.4x4FALLS
POWER SOURCE			AC 3ø 220, 380, 440, 460, 480V 60Hz
COLOR			10 B 3/5
WEIGHT			3670 KG

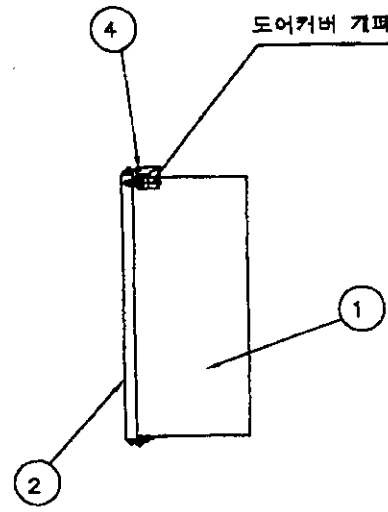
TRAVERSING I-BEAM A x B x t	Ix (Cm4)	Zx (Cm3)	SUPPORT LENGHT	C
I 450x175x13t	48800	2170	MAX. 3.3M	580
I 600x190x13t	94800	3280	MAX. 4.8M	590

NO.	DESCRIPTIONS	M'TL	SET QT'Y	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
6	TRAVERSING LIMIT S/W	PUR.		2			
5	I-BEAM	SS400		-			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SS400		1			
2	PUSH BUTTON S/W	-		1			
1	LOAD LIMITER	-		1			

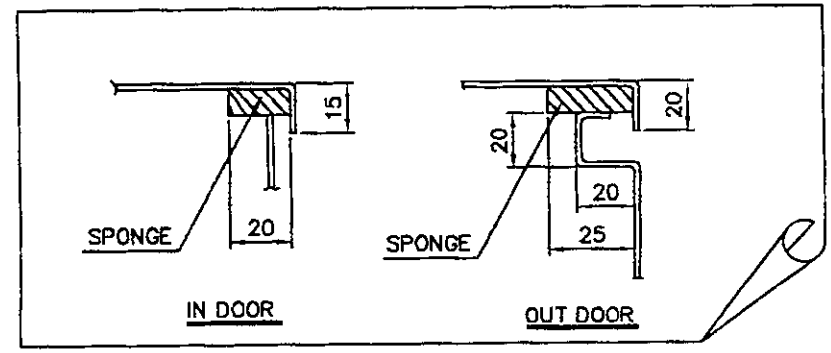
PROJECT		DATE . . 19 . . .
TITLE	KDC20 – L30 – M ARRANGEMENT DRAWING FOR HOIST	SCALE A3 / 5 /
DRAWN	DESIGNED / CHECKED / APPROVED	REF DRAWING
KID 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET NO.	DRAWING NO. KDC20M3000

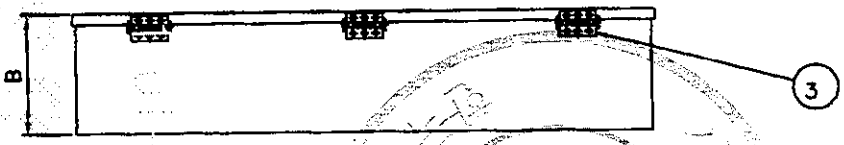
ADR'S NO.





NO	DESCRIPTION	MT'L	REMARKS
1	PANEL CASE	SPC	1.6t
2	PANEL COVER	SPC	1.6t
3	HINGE	PUR'	
4	CLAMP	PUR'	
5	SPONGE	PUR'	
6	MIRCO S/W	PUR'	도어커버 개폐시 ON/OFF





SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR			OUT DOOR			REMARK
			A	B	L	A	B	L	
	20 TON	NORMAL	650	220	850	660	220	860	
	20 TON	CREEP	650	220	850	660	220	860	

NOTE

1.PROTECTION DEGREE ;
- A, INDOOR TYPE : DUST PROOF
- B, OUT DOOR TYPE : SPLASH PROOF

2.FINAL PAINTING COLOR (MANSELL 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 : 2.0sq KIV,HIV

6.외함 개방구조는 다음과 같다.
- 1) 외함 개방시 충전부분이 차단되도록 한다.
- 2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의 직접접촉 방호가 되어있을것.

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING CONTROL BOX

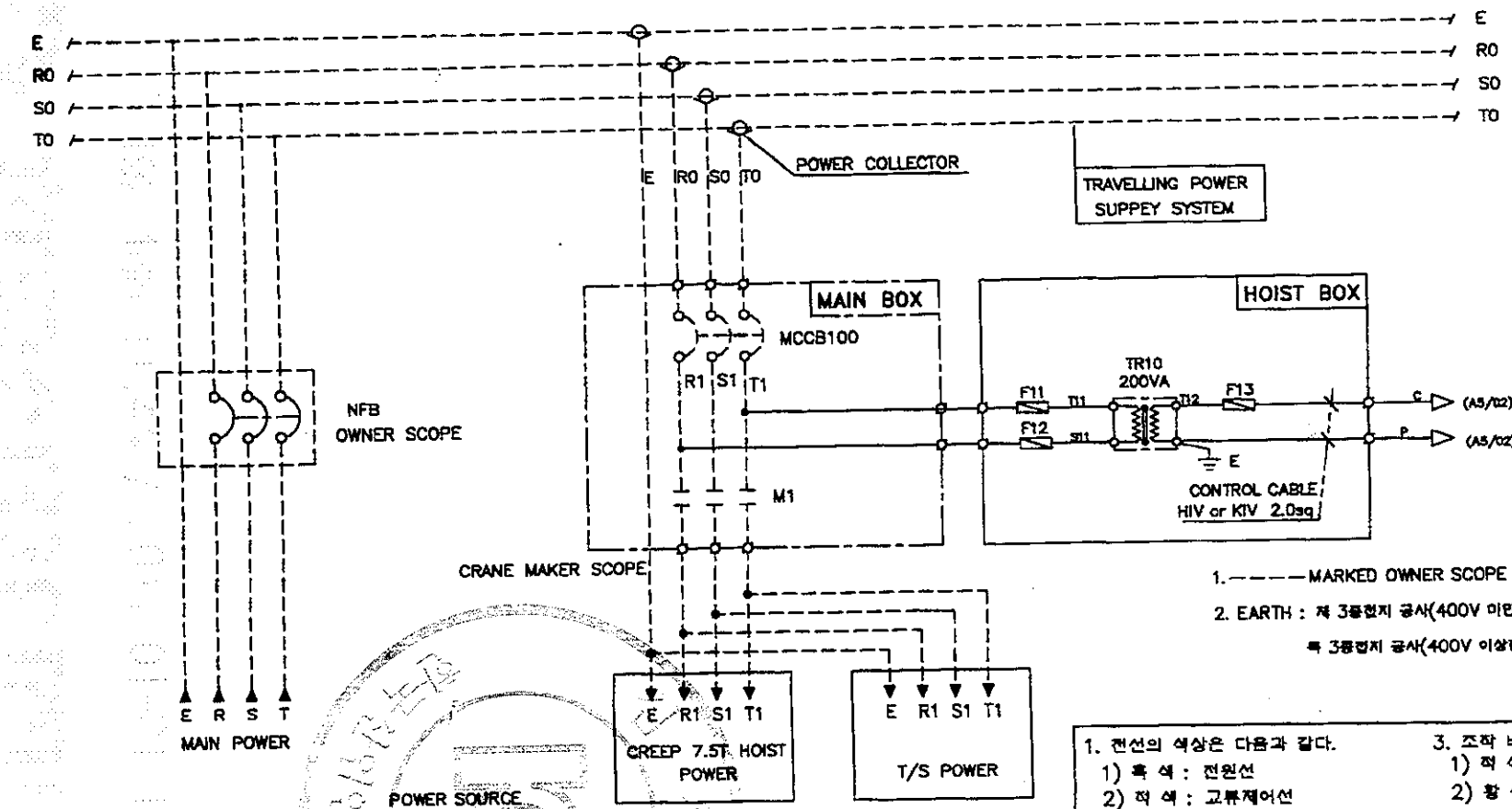
LAY-OUT

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KDC20EB00

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



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

POWER SOURCE
AC 3φ 60Hz

SELECTION	VOLTAGE	F11 F12	F13	MCCB100
	220V	3A	5A	225AF/125AT
	380V	2A	5A	103AF/75AT
	440V	2A	5A	103AF/60AT
	460V	2A	5A	103AF/60AT
	480V	2A	5A	103AF/60AT

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 고듀제어선
   3) 청 색 : 직류제어선
   4) 녹색 또는 녹색과 황색 혼용 : 접지
2. 표시등의 색상은 다음과 같다.
   1) 적 색 : 비상
   2) 황 색 : 비정상
   3) 녹 색 : 정상
   4) 청색 : 의무
   5) 흰색 : 중립
3. 조작 버튼의 색상은 다음과 같다.
   1) 적 색 : 비상
   2) 황 색 : 비정상
   3) 청 색 : 의무
   4) 흰색, 회색 또는 흑색 : 지정된 의미없음

MK	DATE	REVISIONS	CHK.	APP.
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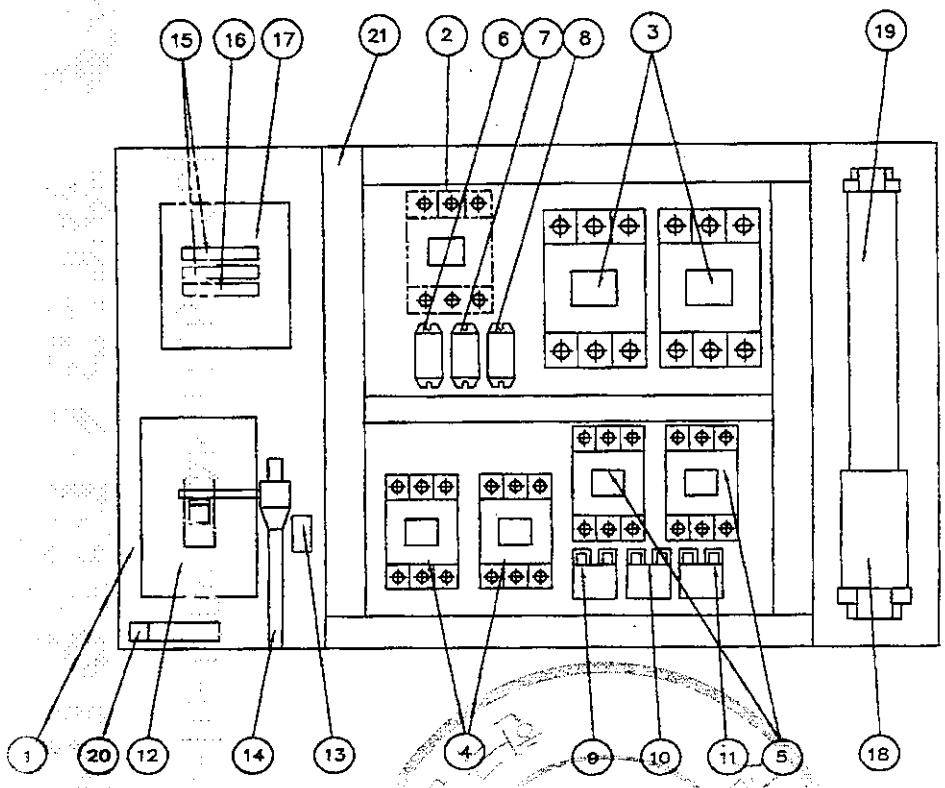
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	MAIN POWER CIRCUIT 1 DIAGRAM					NONE		
	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.					DWG. NO	KDC20E001	

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연도금
2	MAGNET CONTACT	GMC-100P	1	MAIN MAG.
3	MAGNET CONTACT	GMC-180P	2	HOISTING
4	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
5	MAGNET CONTACT	DOC-22P	2	TRAVERSING
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-100	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOISTING
11	E.O.C.R	SS-30	1	TRAVERSING
12	N.F.B	225AF/125AT	1	LS-2
13	UPPER LIMIT	AC 600V/3A	1	LS-1
14	LIMIT LEVER	SS-400	1	
15	FUSE (F11,F12)	3 A	2	
16	FUSE (F13)	5 A	1	
17	TRANSFORMER	220V/110,120V, 200VA	1	
18	TERMINAL BLOCK	100A,25A		
19	TERMINAL BLOCK	15A		
20	EARTH TERMINAL	5tx25x50	1	
21	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 225AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC 3φ 220V 60HZ
5. - - - - : USER SCOPE(MONO RAIL용)

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 교류 및 직류 전원선로
   2) 적색 : 교류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.
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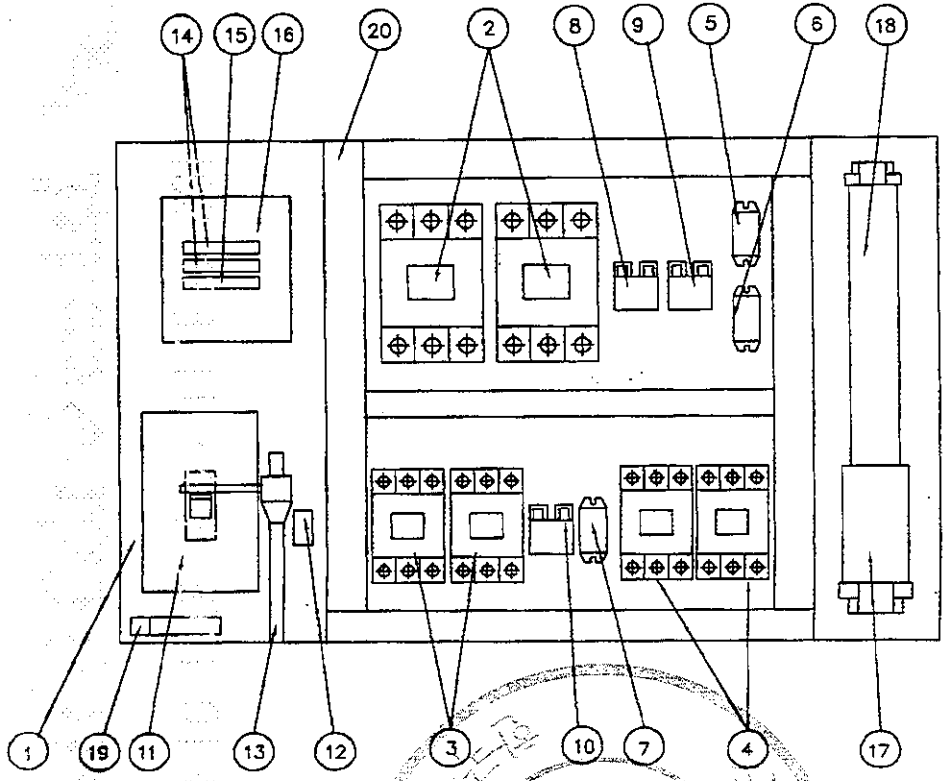
		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	HOISTING CONTROL BOX					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC20BA21	

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연도금
2	MAGNET CONTACT	GMC-180P	2	HOISTING
3	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
4	MAGNET CONTACT	DOC-22P	2	TRAVERSING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
7	SILICON RECTIFIER	SR-30	1	TRAVERSING
8	E.O.C.R	SS-100	1	HOISTING
9	E.O.C.R	SS-30	1	CREEP HOISTING
10	E.O.C.R	SS-30	1	TRAVERSING
11	N.F.B	225AF/125AT	1	LS-2
12	UPPER LIMIT	AC 600V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F11,F12)	3 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	220V/110,120V, 200VA	1	
17	TERMINAL BLOCK	100A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5tx25x50	1	
20	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 225AF
3. EARTH TERMINAL RESISTANCE : 0.018Ω
4. POWER SOURCE : AC 3φ 220V 60HZ

NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : KIV OR EQUIVALENT, MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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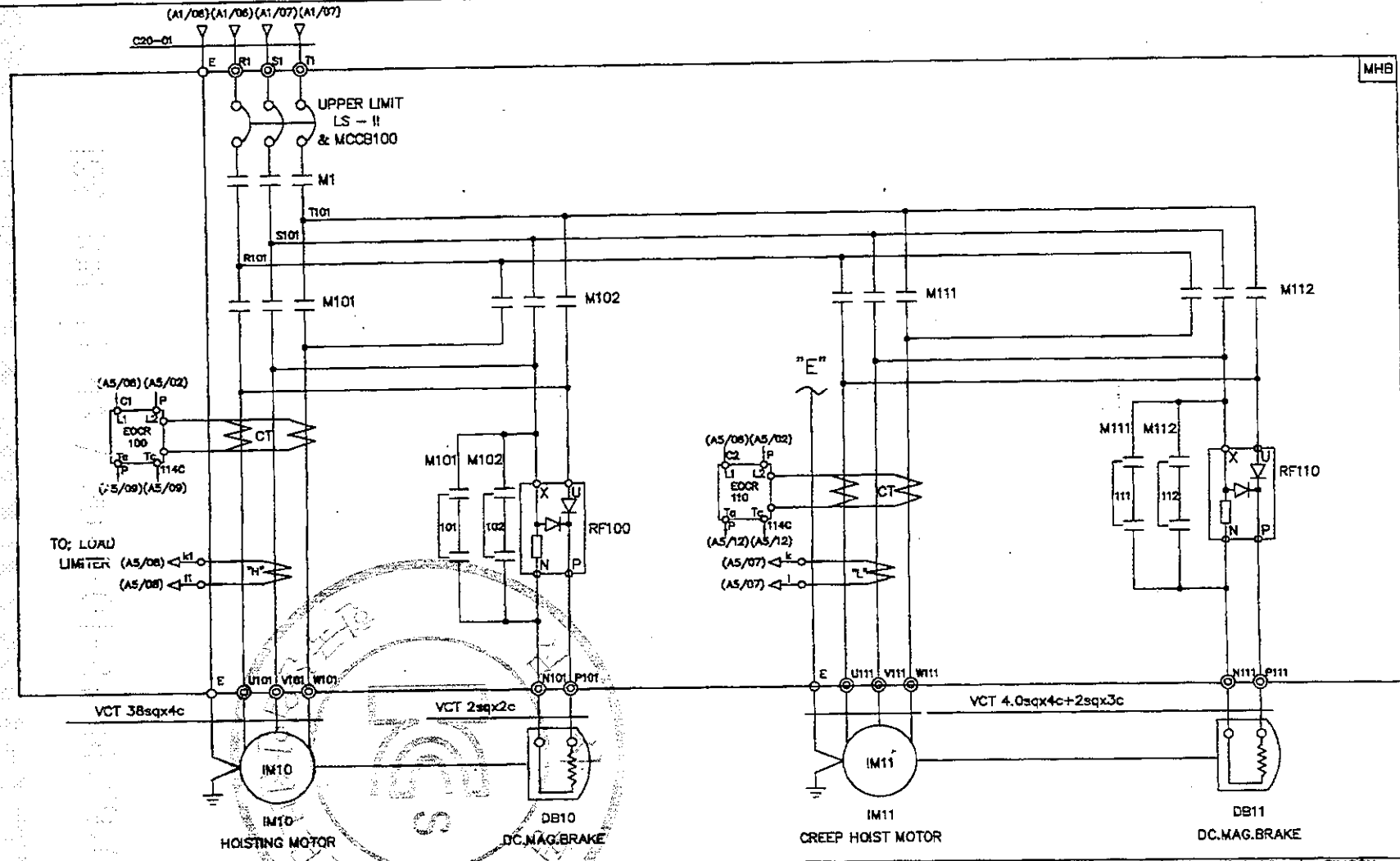
		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	HOISTING CONTROL BOX(CRANE)	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KDC20BA22	
	ARRANGEMENT DRAWING							

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

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION | CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 220V 60Hz	17KW×8P	1.5KW×8P	DC 100V	ABS-225AF/125AT	220/110V,120V,200VA	3A	5A	GMC-100F	GMC-180P	DOC-22P	AC 600V 3A	SS-100	SS-30	SR-60	SR-30	JDL-100	VCT 60sqx4c
SELECTION MAKER	KUK DONG				LS	SHINWHAN	-		LS		DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KUK DONG HOIST CO., LTD. 국동호이스트 주식회사

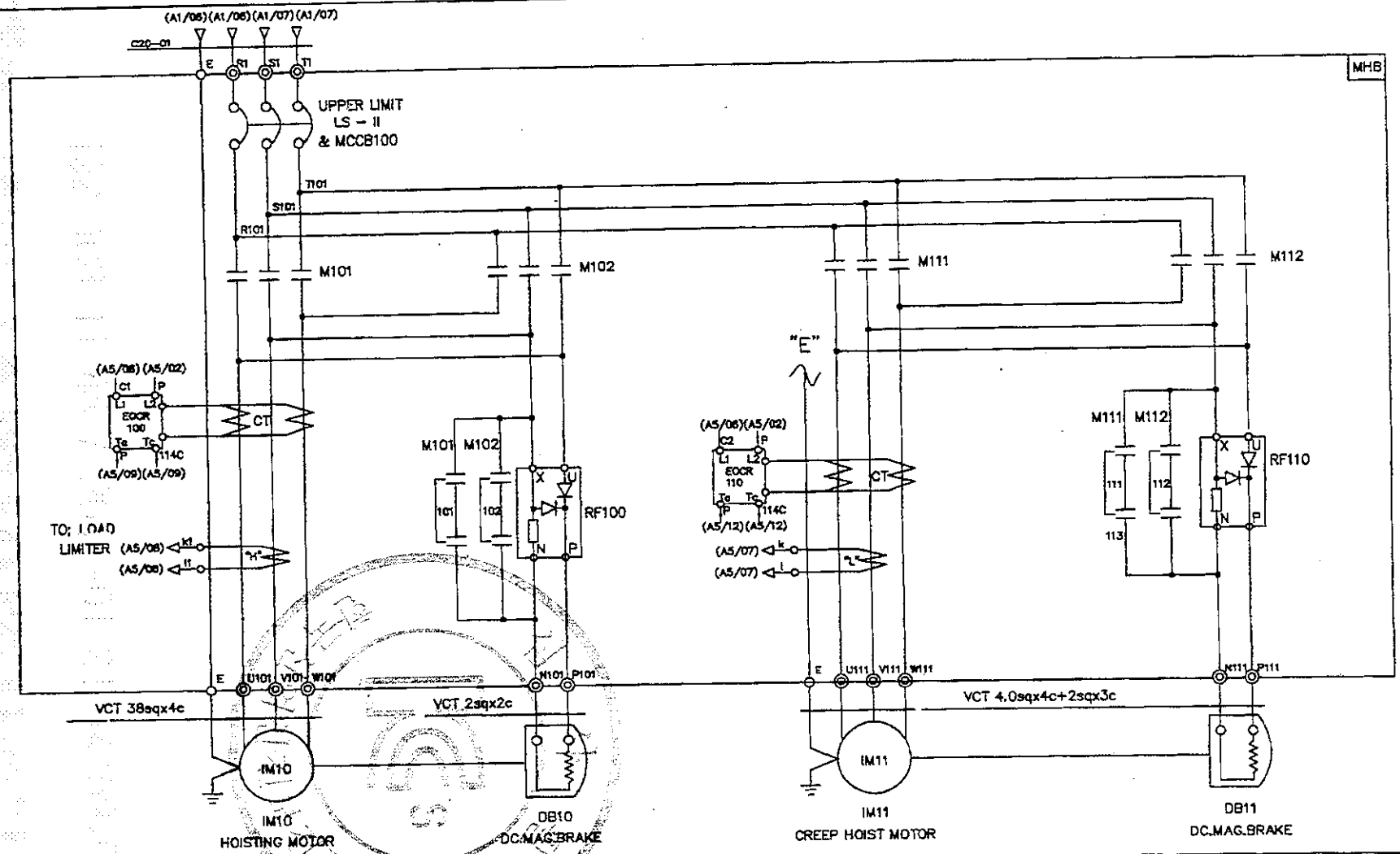
DWG. NO: KDC20E21

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

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION | CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 220V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-225AF/125AT	220/110V,120V,200V	3A	5A	GMC-180P	DOC-22P	AC 600V 3A	SS-100	SS-30	SR-60	SR-30	JDL-100	VCT 60sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINWHAN	-		LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 크등호이스트 주식회사 KUK DONG HOIST CO., LTD.

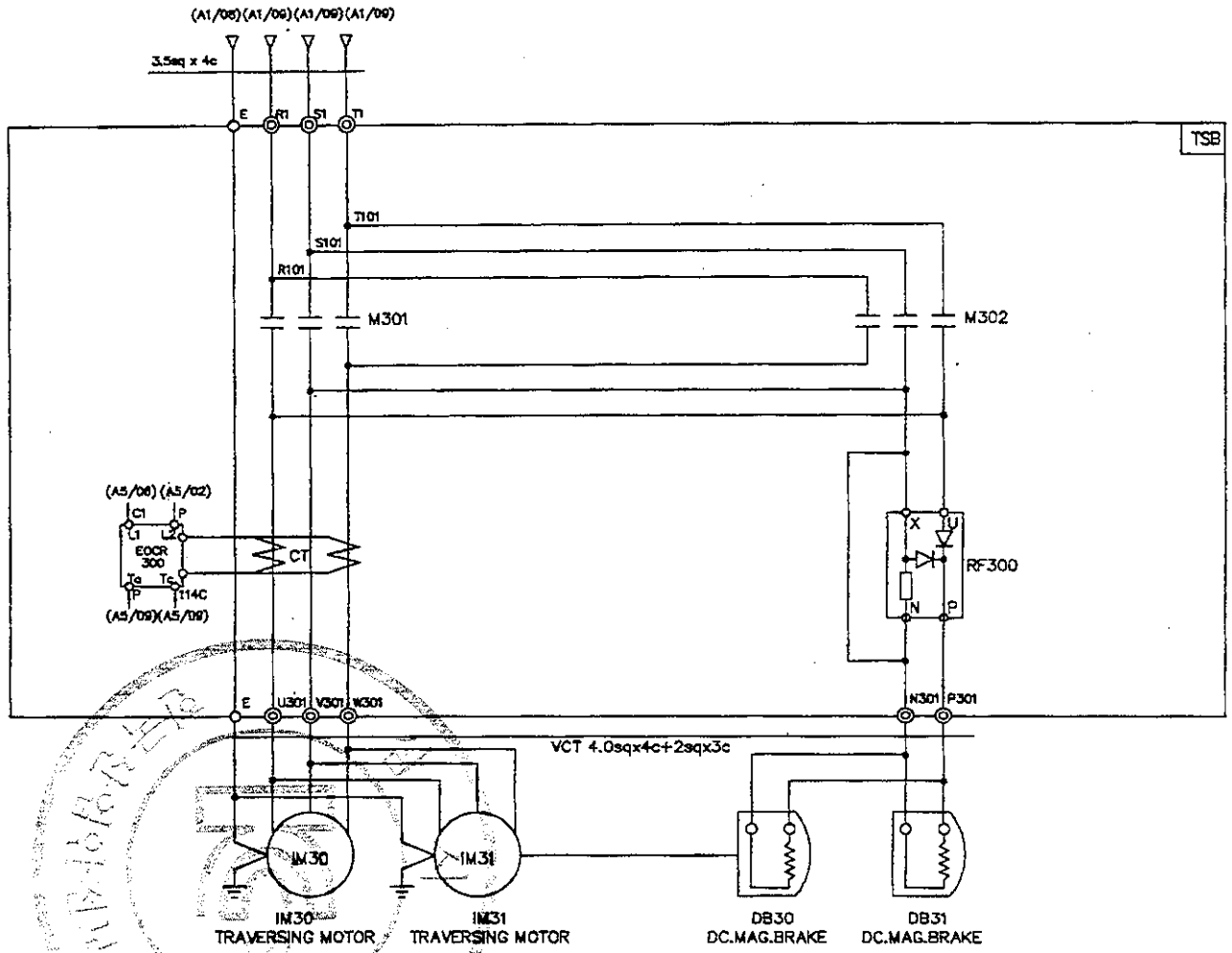
DWG. NO: KDC20E22

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

POWER CIRCUIT

TRAVERSING MOTION

ADR'S NO. C2



SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWTCH
	IM 30 , 1M31	DB 30	M301 , M302	RF 300	EOCR 300	LS-301 , LS-302
	1.5KW x 4P AC 3PH 220V 60Hz	DC 100V	DOC-22P AC 110V	SR-30	SS-30	HY - W904
	1.0KW x 6P AC 3PH 220V 60Hz	DC 100V	DOC-22P AC 110V	SR-30	SS-30	HY - W904
SELECTION / MAKER	KUK DONG		DAERYUK	ASECO		

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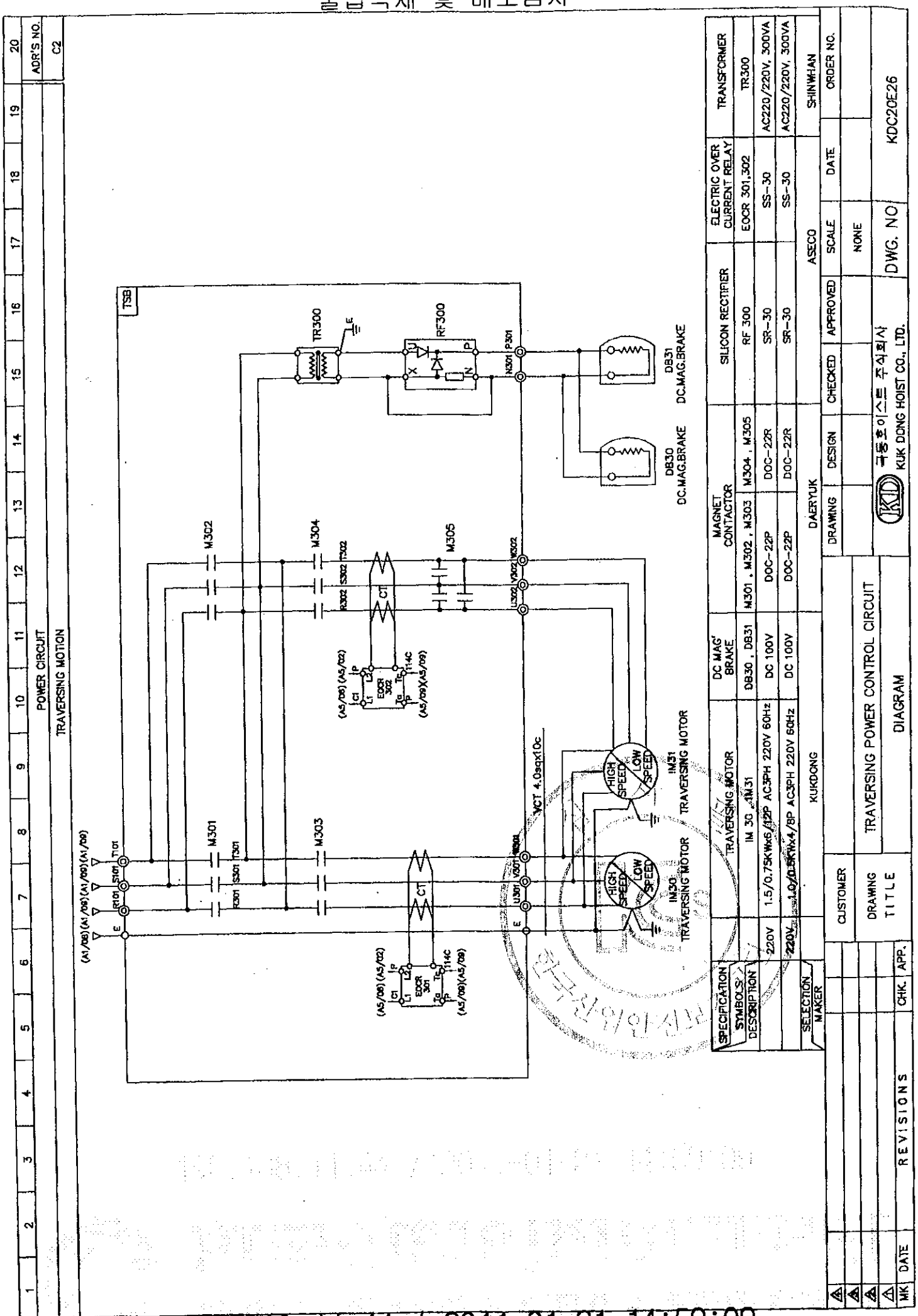
CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

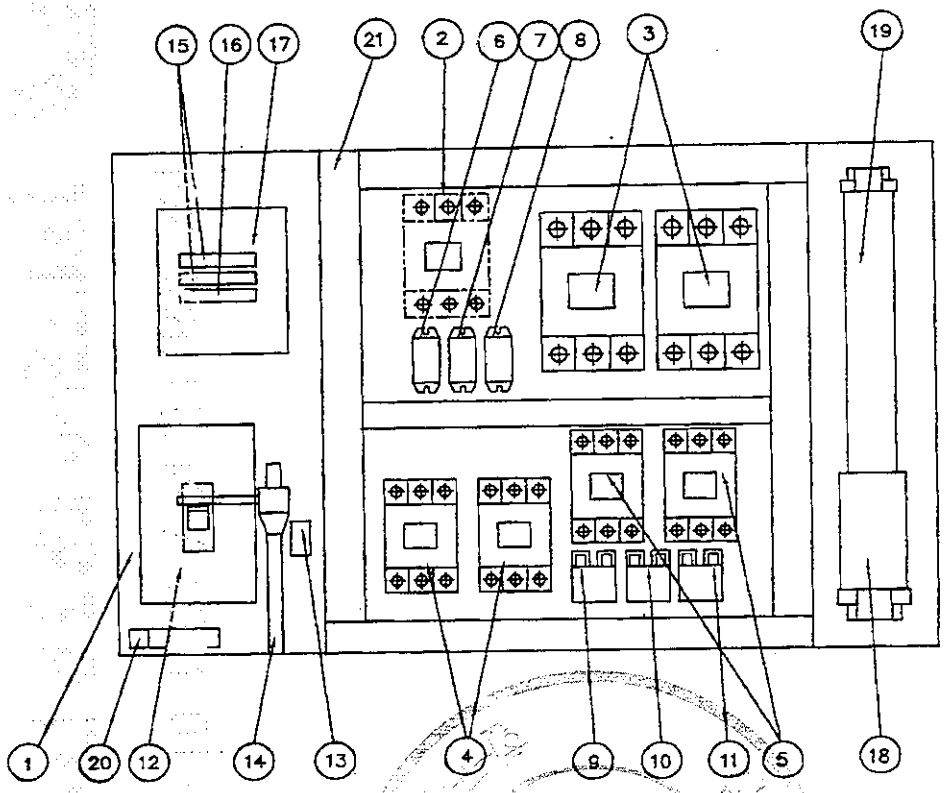
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E24



ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연도금
2	MAGNET CONTACT	DOC-65P	1	MAIN MAG.
3	MAGNET CONTACT	GMC-125P	2	HOISTING
4	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
5	MAGNET CONTACT	DOC-22P	2	TRAVERSING
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOISTING
11	E.O.C.R	SS-05	1	TRAVERSING
12	N.F.B	103AF/75AT	1	LS-2
13	UPPER LIMIT	AC 600V/3A	1	LS-1
14	LIMIT LEVER	SS-400	1	
15	FUSE (F11,F12)	2 A	2	
16	FUSE (F13)	5 A	1	
17	TRANSFORMER	380V/110,120V, 200VA	1	
18	TERMINAL BLOCK	100A,25A		
19	TERMINAL BLOCK	15A		
20	EARTH TERMINAL	6tx25x50	1	
21	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3ø 380V 60HZ
5. - - - - : USER SCOPE(MONO RAIL용)

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 고류 및 직류 전원선로
   2) 적색 : 고류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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CUSTOMER

DRAWING TITLE: HOISTING CONTROL BOX ARRANGEMENT DRAWING

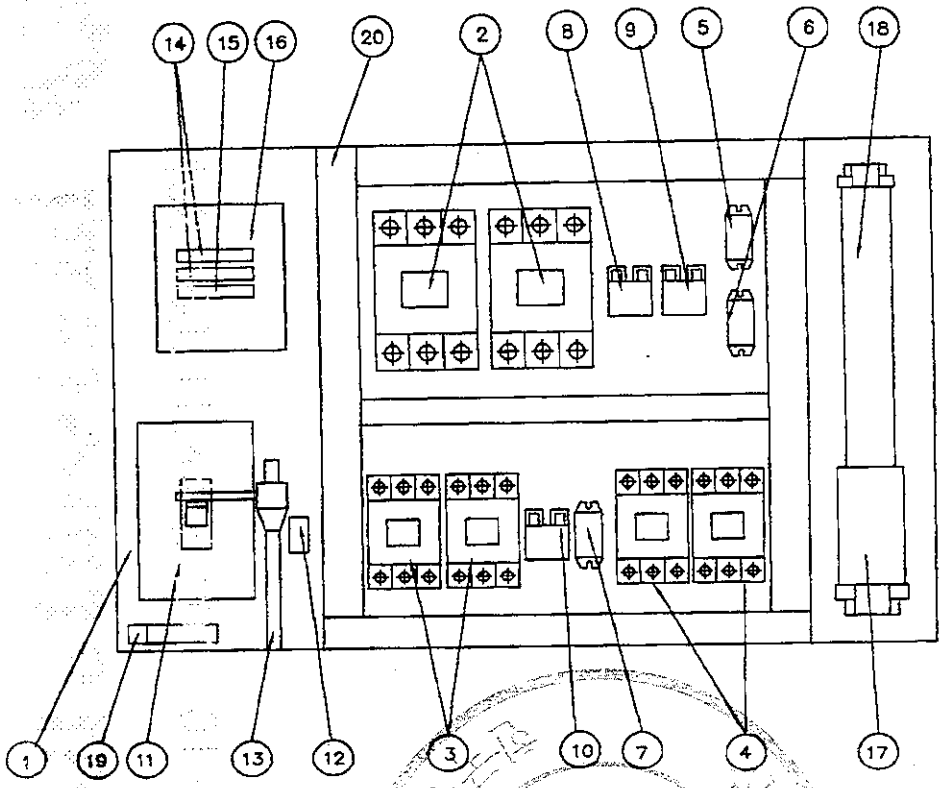
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KDC20BA31

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	아연도금
2	MAGNET CONTACT	GMC-125P	2	HOISTING
3	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
4	MAGNET CONTACT	DOC-22P	2	TRAVERSING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
7	SILICON RECTIFIER	SR-30	1	TRAVERSING
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-30	1	CREEP HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	N.F.B	103AF/75AT	1	LS-2
12	UPPER LIMIT	AC 600V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F11,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	380V/110,120V, 200VA	1	
17	TERMINAL BLOCK	100A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5tx25x50	1	
20	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC 3ø 380V 60HZ

NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : KIV OR EQUIVALENT, MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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CUSTOMER	
DRAWING TITLE	HOISTING CONTROL BOX(CRANE)
	ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KDC20BA32

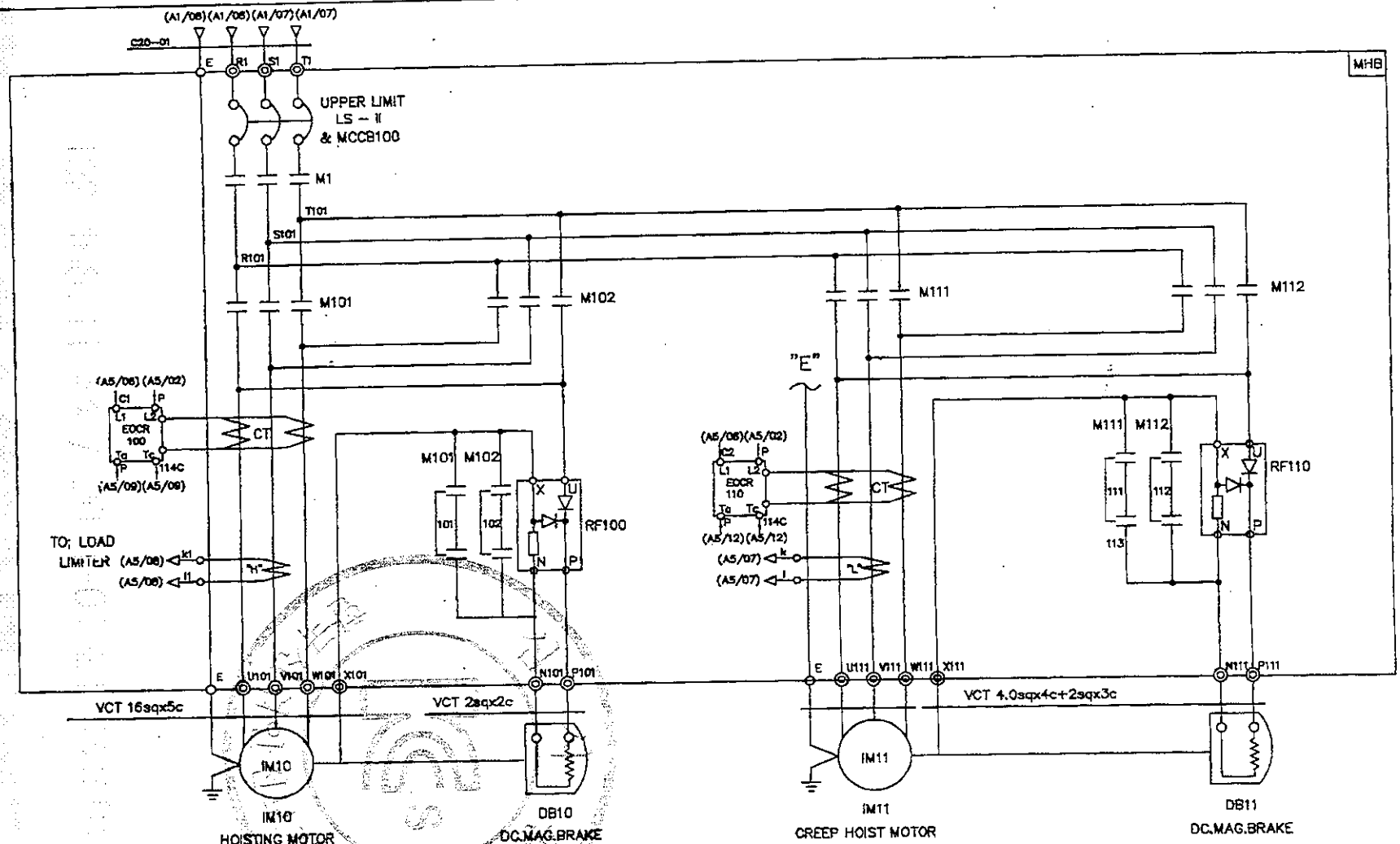
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 380V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-103AF/75AT	380/110V,120V,200VA	2A	5A	GMC-65P	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
SELECTION MAKER	KUK DONG				LS	SHINWHAN	-		LS	LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

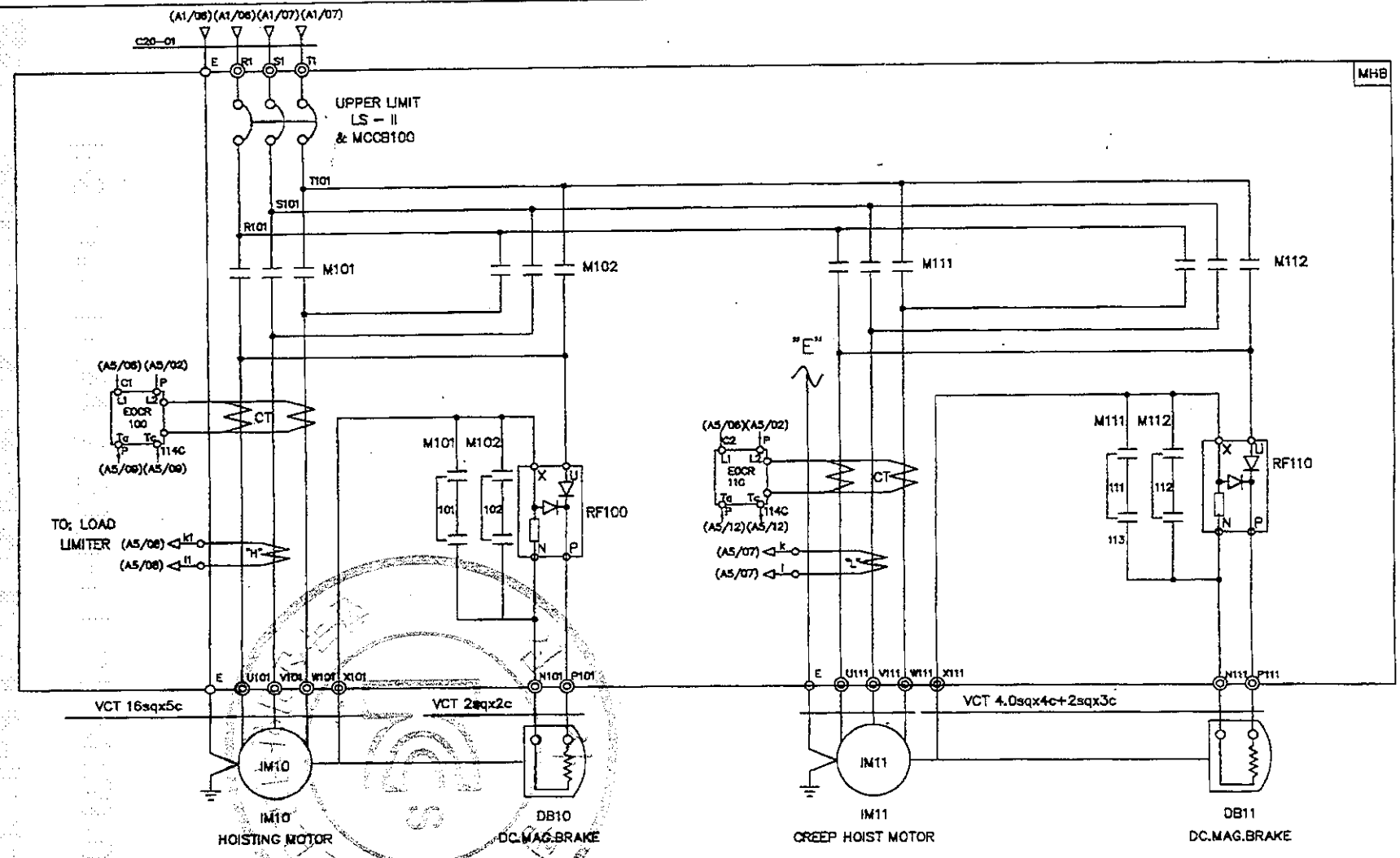
KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E31

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

POWER CIRCUIT — ADR'S NO. B1

HOISTING MOTION | CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION / SELECTION / MAKER	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 380V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-103AF/75AT	380/110V,120V,200VA	2A	5A	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
	KUKDONG				LS	SHINWHAN	-		LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

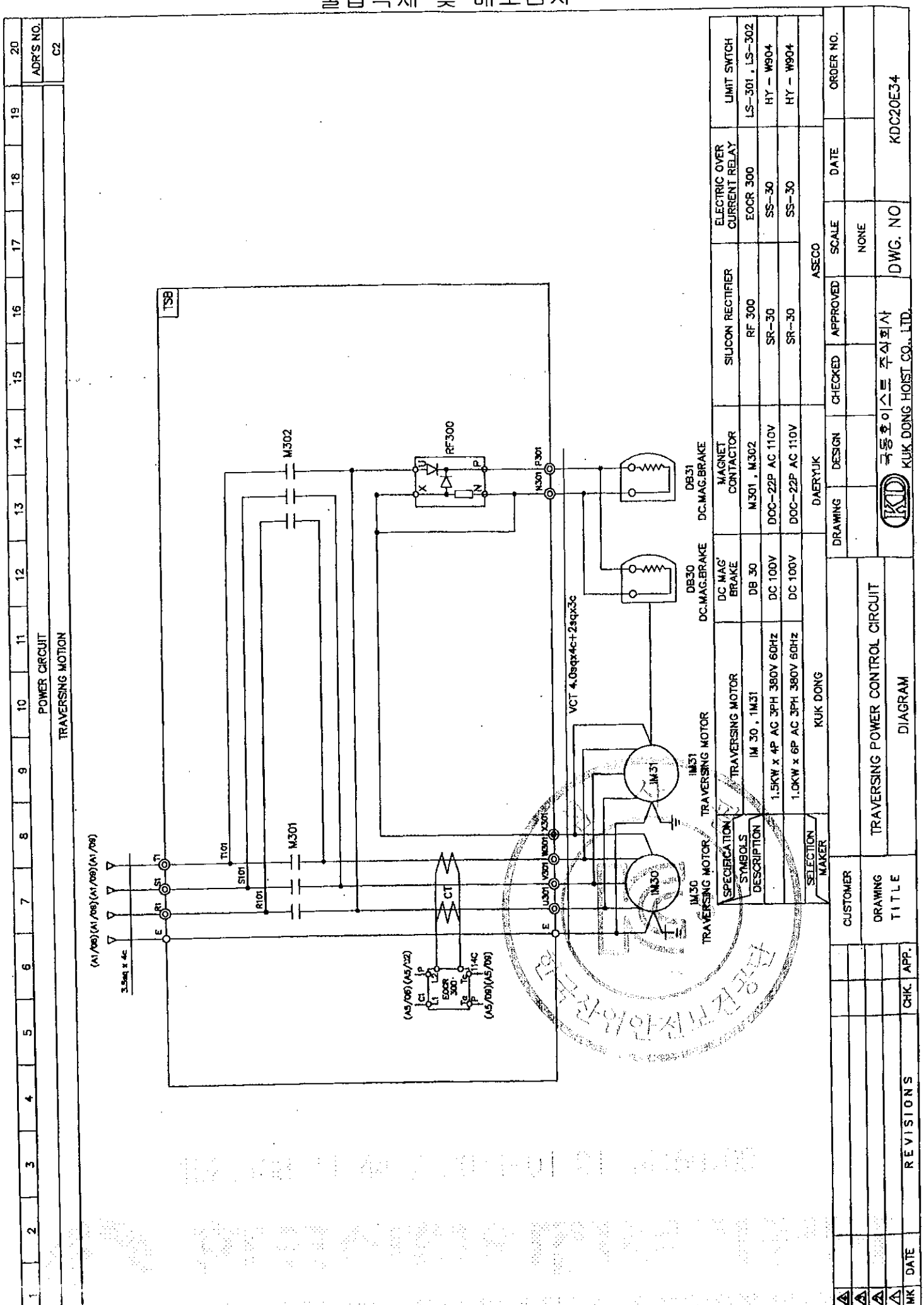
DRAWING TITLE: CREEP HOISTING POWER & CONTROL

CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E32

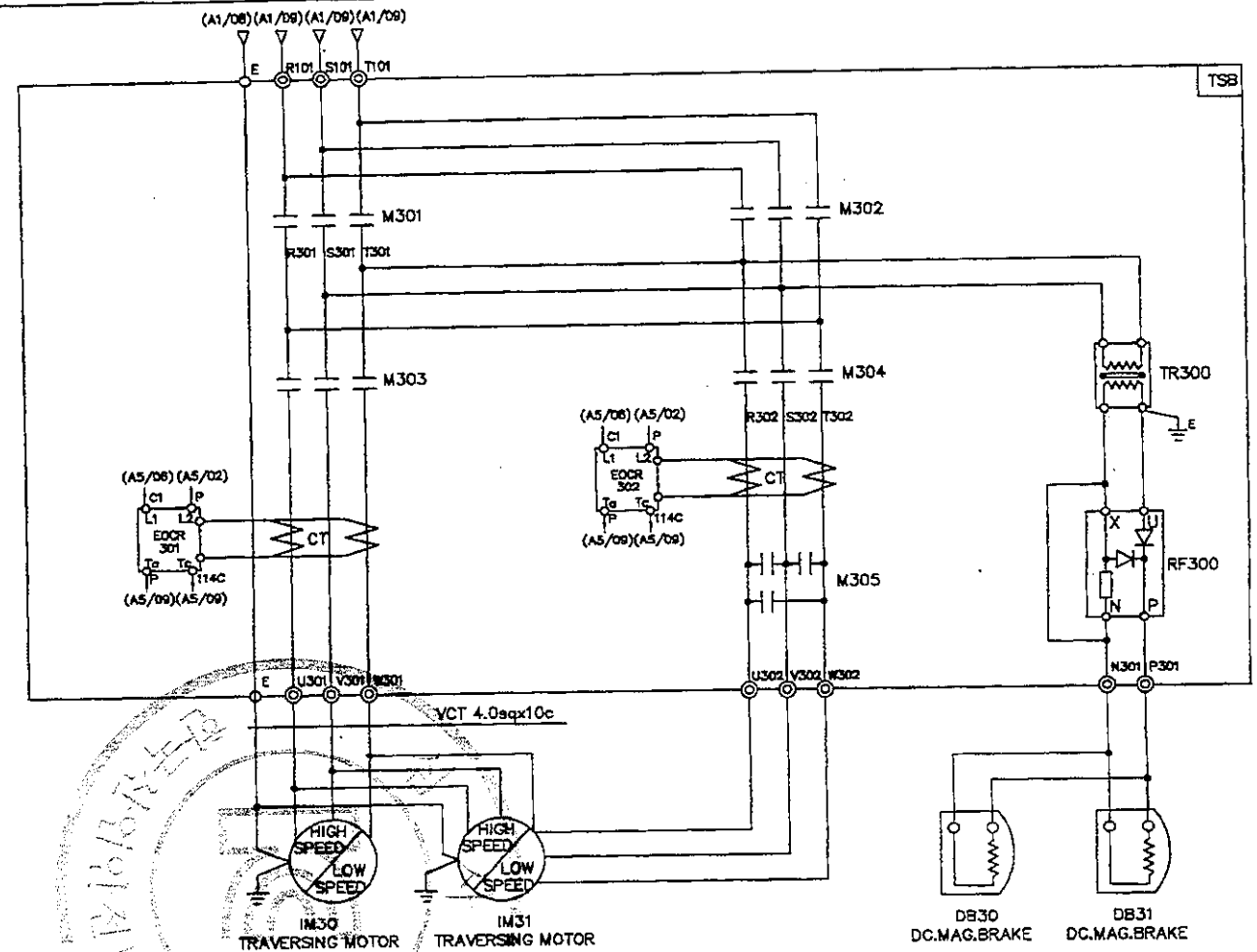


2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

TRAVERSING MOTION

ADR'S NO. C2



SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30 , IM31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	380V	1.5/0.75KWx6/12P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC380/220V, 300VA
	380V	1.0/0.5KWx4/8P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC380/220V, 300VA
SELECTION MAKER		KUKDONG		DAERYUK		ASECO		SHINWHAN

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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: KDC20E36

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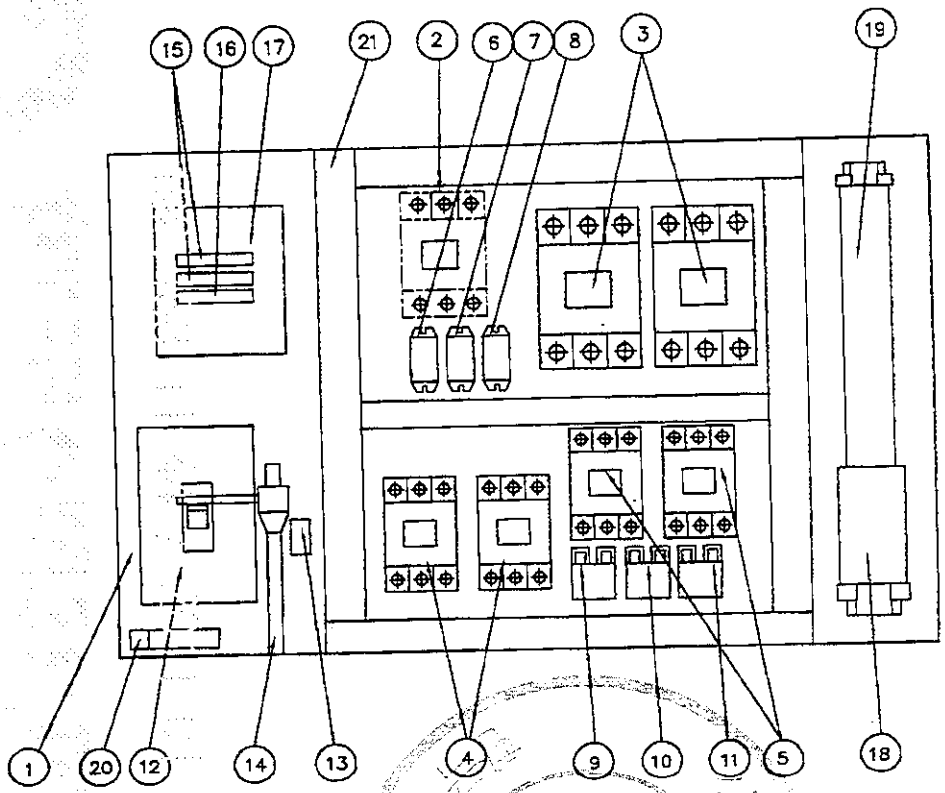
ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연도금
2	MAGNET CONTACT	GMC-65P	1	MAIN MAG.
3	MAGNET CONTACT	GMC-125P	2	HOISTING
4	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
5	MAGNET CONTACT	DOC-22P	2	TRAVERSING
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOISTING
11	E.O.C.R	SS-05	1	TRAVERSING
12	N.F.B	103AF/60AT	1	LS-2
13	UPPER LIMIT	AC 600V/3A	1	LS-1
14	LIMIT LEVER	SS-400	1	
15	FUSE (F11,F12)	2 A	2	
16	FUSE (F13)	5 A	1	
17	TRANSFORMER	440V/110,120V, 200VA	1	
18	TERMINAL BLOCK	100A,25A		
19	TERMINAL BLOCK	15A		
20	EARTH TERMINAL	5tx25x50	1	
21	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3φ 440V 60HZ
5. - -- - - : USER SCOPE(MONO RAIL용)

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 교류 및 직류 전원선로
   2) 적색 : 교류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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CUSTOMER

DRAWING TITLE: HOISTING CONTROL BOX

ARRANGEMENT DRAWING

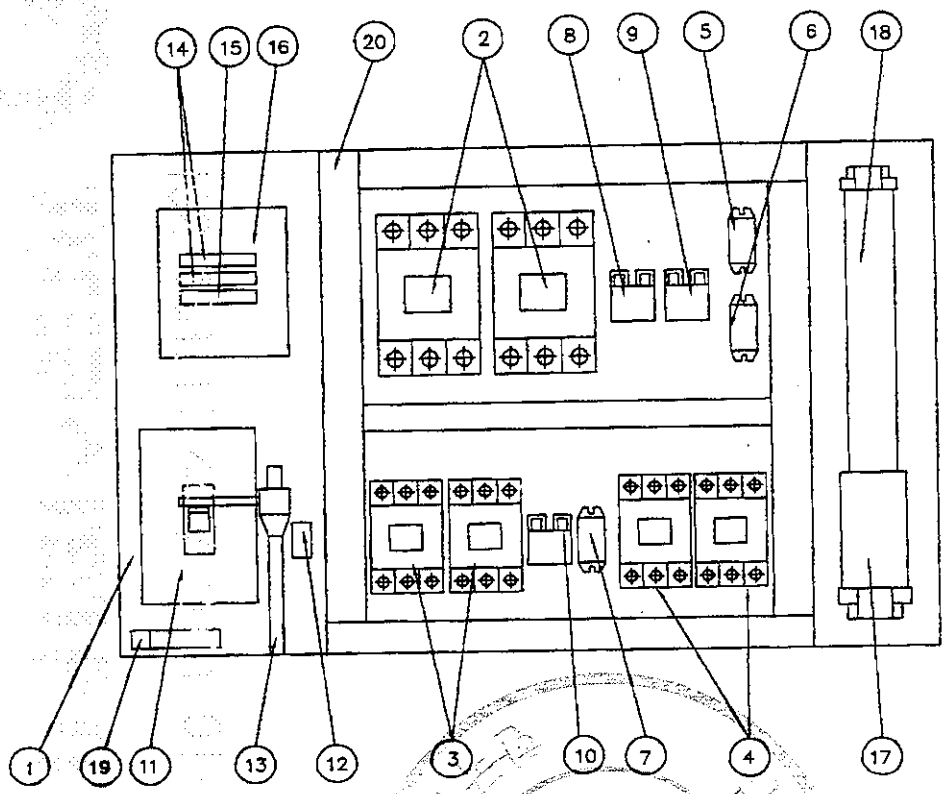
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KDC20BA41

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	아연도금
2	MAGNET CONTACT	GMC-125P	2	HOISTING
3	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
4	MAGNET CONTACT	DOC-22P	2	TRAVERSING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
7	SILICON RECTIFIER	SR-30	1	TRAVERSING
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-30	1	CREEP HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	N.F.B	103AF/60AT	1	LS-2
12	UPPER LIMIT	AC 600V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F11,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	440V/110,120V, 200VA	1	
17	TERMINAL BLOCK	100A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5tx25x50	1	
20	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3φ 440V 60HZ

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 교류 및 직류 전원선로
   2) 적색 : 교류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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CUSTOMER	
DRAWING TITLE	HOISTING CONTROL BOX(CRANE)
	ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

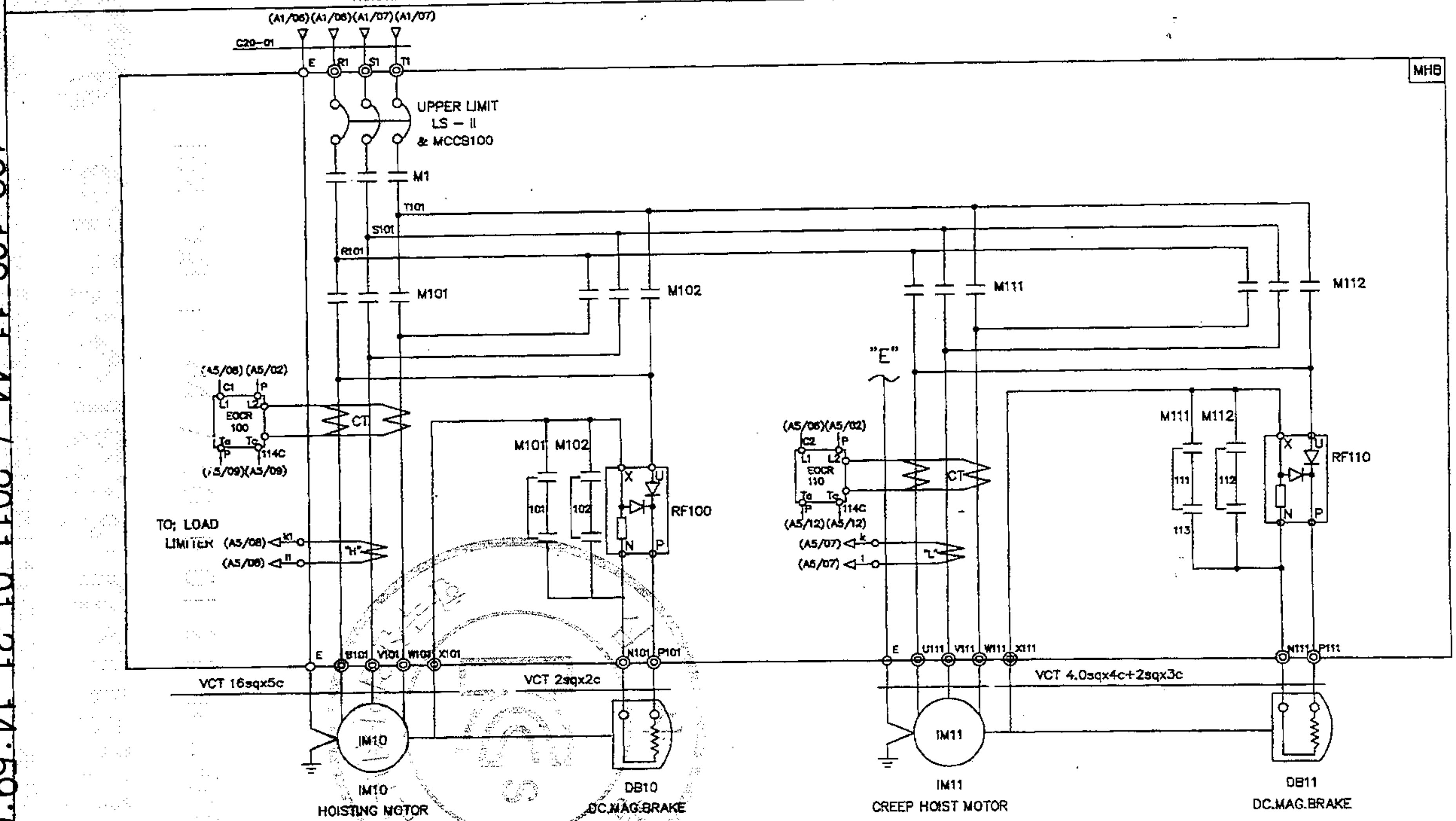
DWG. NO KDC20BA42

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

POWER CIRCUIT

HOISTING MOTION | CREEP HOIST MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 440V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-103AF/60AT	440/110V,120V,200VA	2A	5A	GMC-65P	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
SELECTION / MAKER	KUK DONG				LS	SHINWHAN	–		LS	LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER	
DRAWING TITLE	CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

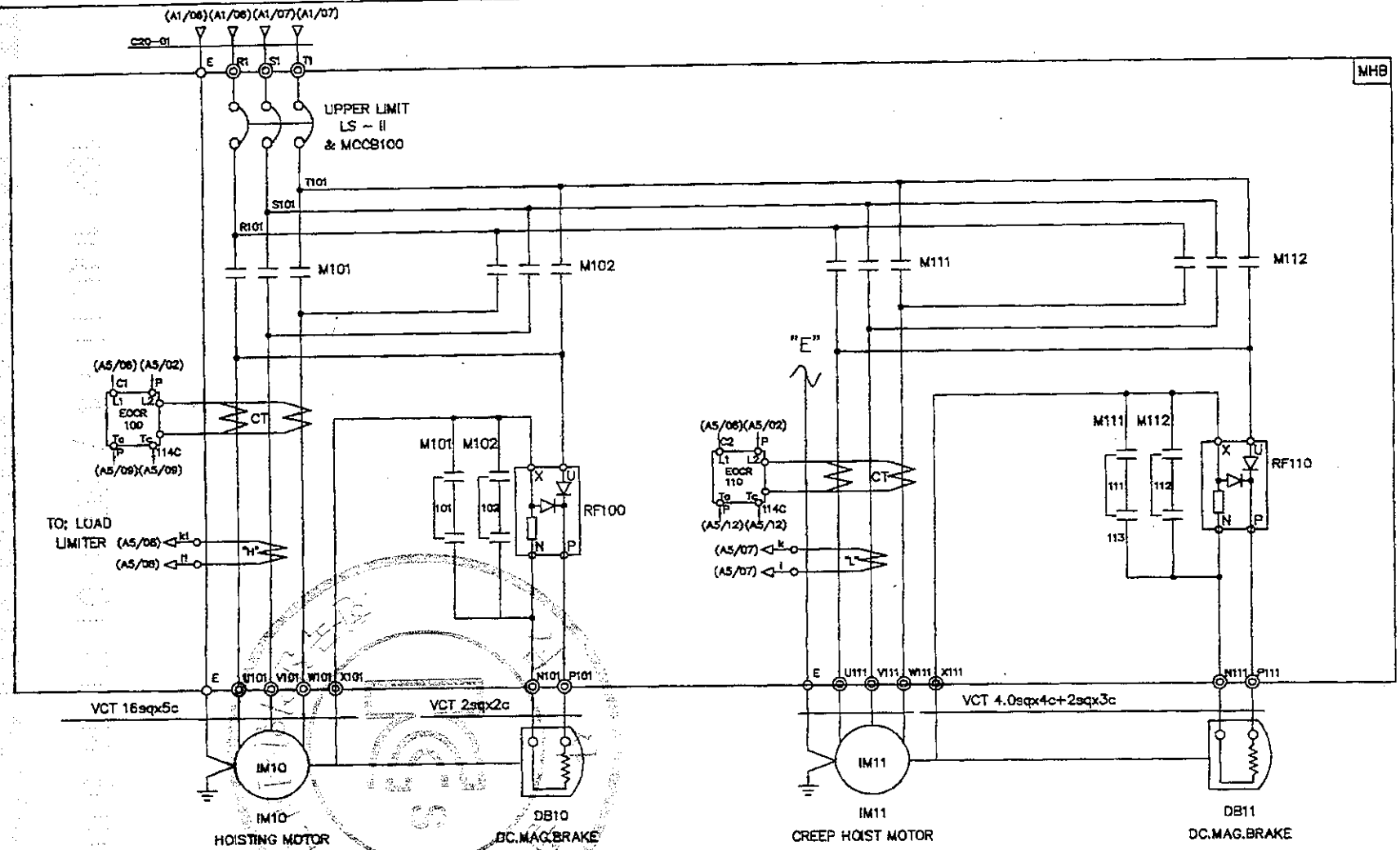
극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KDC20E41

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

POWER CIRCUIT — ADR'S NO. 81

HOISTING MOTION | CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 440V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-103AF/60AT	440/110V,125V,200VA	2A	5A	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINWHAN	-		LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.

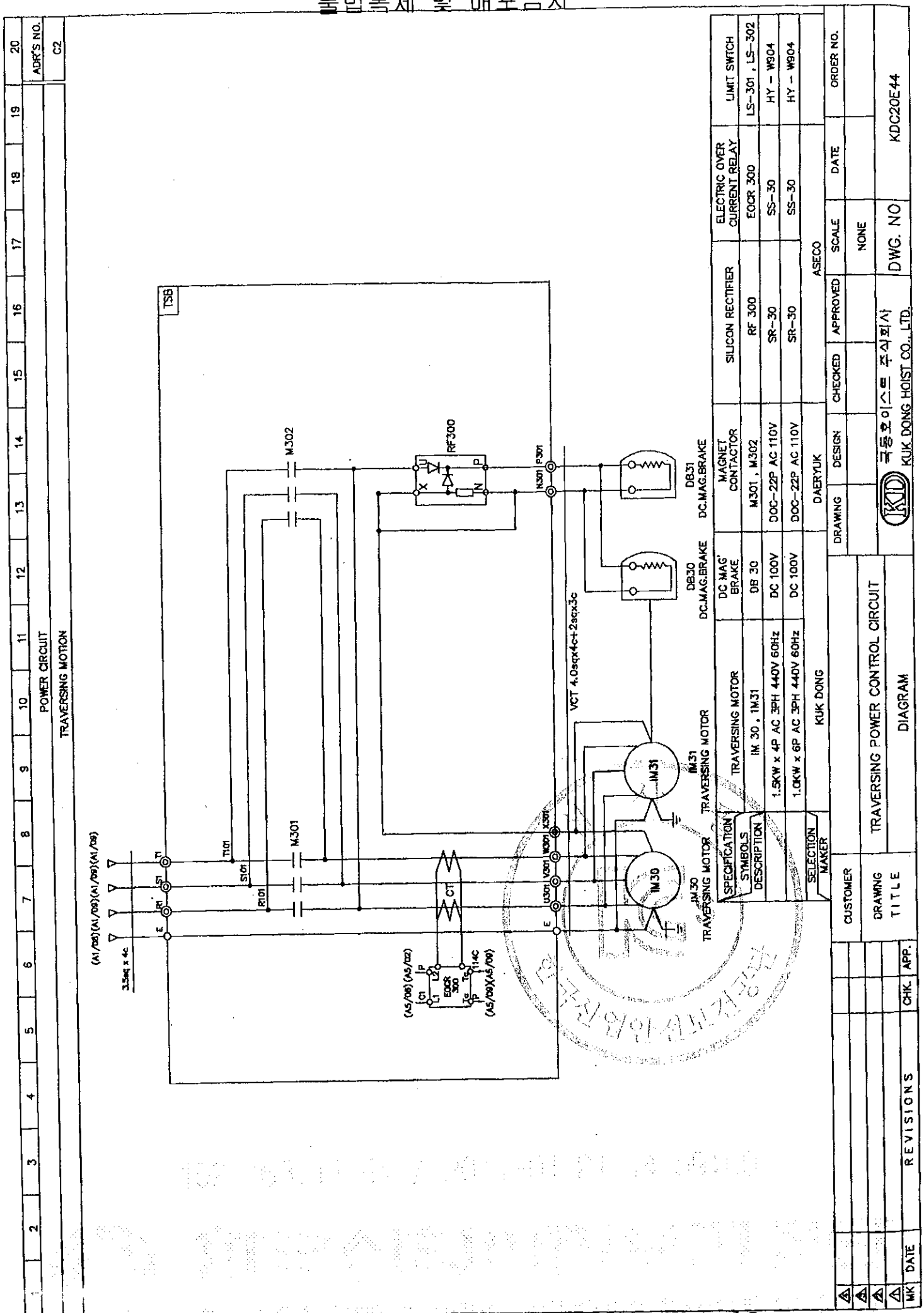
CUSTOMER

DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E42

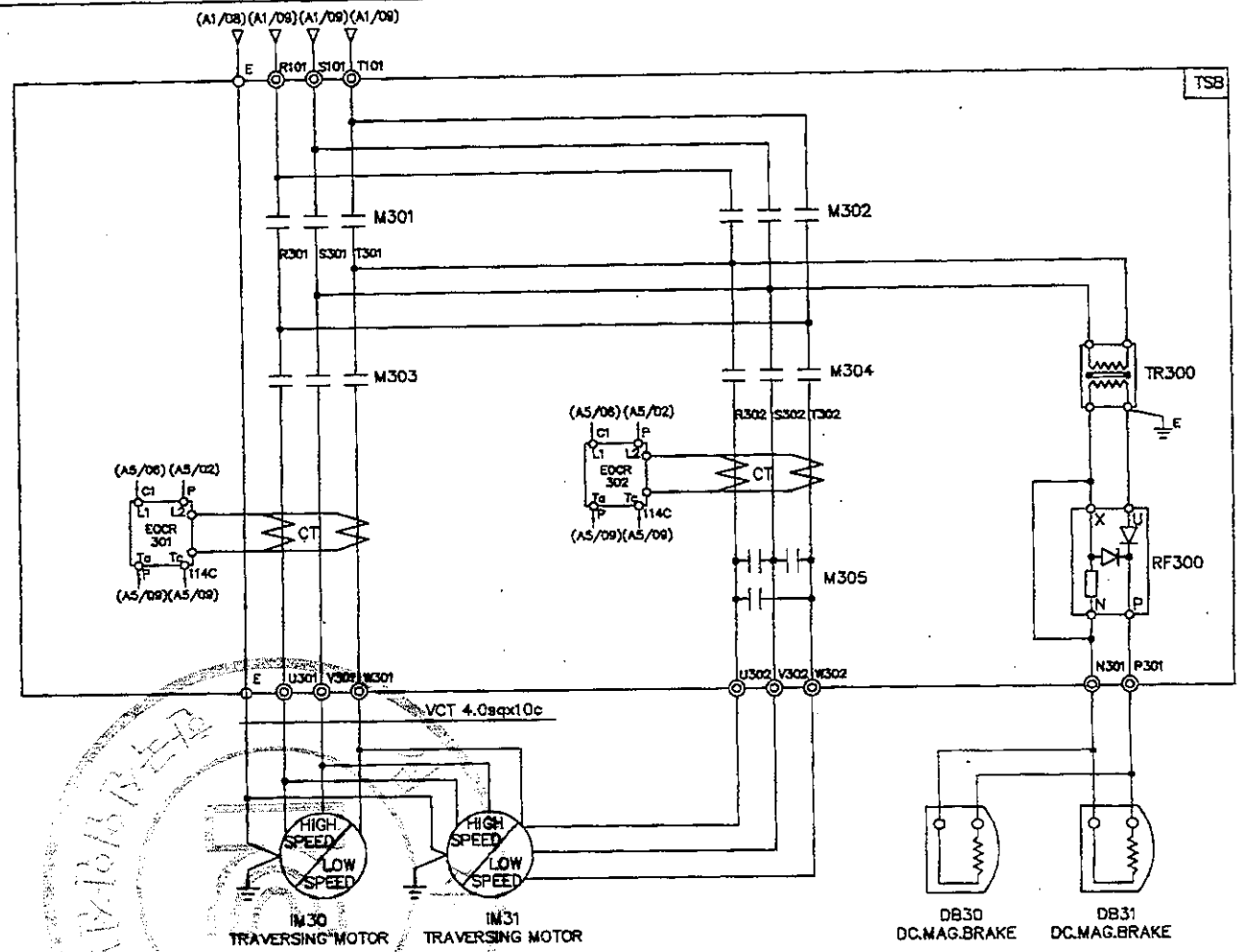


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

TRAVERSING MOTION

ADR'S NO. C2



SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30 , IM31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	440V	1.5/0.75KWx6/12P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC440/220V, 300VA
	440V	1.0/0.5KWx4/8P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC440/220V, 300VA
SELECTION MAKER		KUKDONG		DAERYUK		ASECO		SHINWHAN

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CUSTOMER

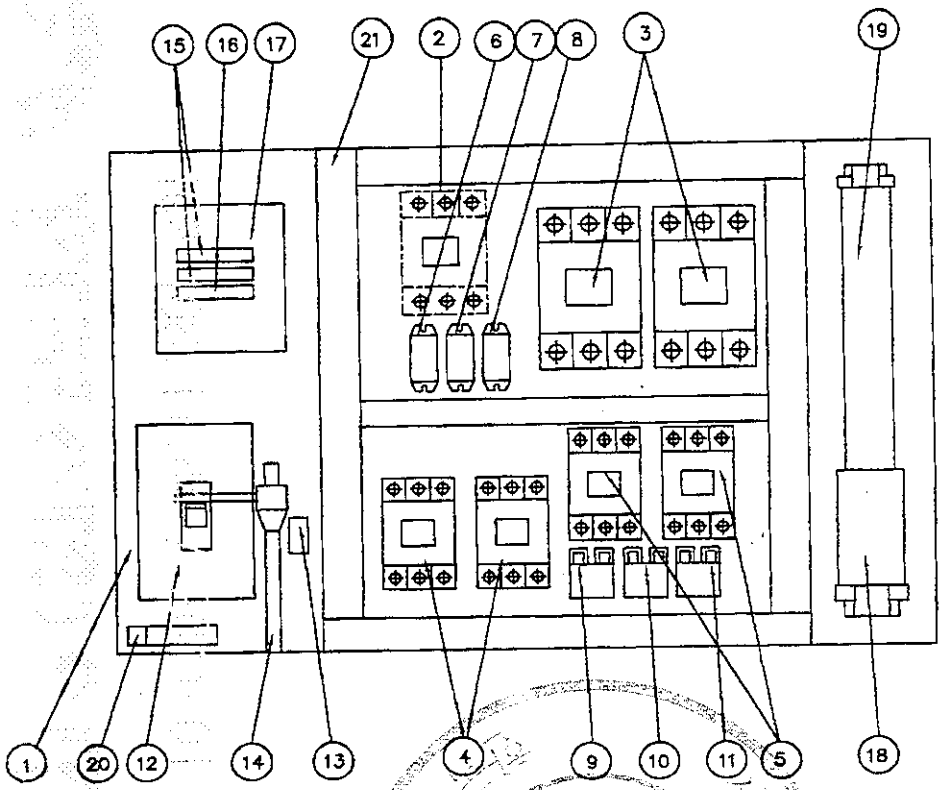
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC20E46

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	아연도금
2	MAGNET CONTACT	GMC-65P	1	MAIN MAG.
3	MAGNET CONTACT	GMC-125P	2	HOISTING
4	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
5	MAGNET CONTACT	DOC-22P	2	TRAVERSING
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOISTING
11	E.O.C.R	SS-05	1	TRAVERSING
12	N.F.B	103AF/60AT	1	LS-2
13	UPPER LIMIT	AC 600V/3A	1	LS-1
14	LIMIT LEVER	SS-400	1	
15	FUSE (F11,F12)	2 A	2	
16	FUSE (F13)	5 A	1	
17	TRANSFORMER	460V/110,120V, 200VA	1	
18	TERMINAL BLOCK	100A,25A		
19	TERMINAL BLOCK	15A		
20	EARTH TERMINAL	5tx25x50	1	
21	CABLE DUCT	-	1	

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3Ø 460V 60HZ
5. - - - - : USER SCOPE(MONO RAIL용)

NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어회로
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT, MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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CUSTOMER	
DRAWING TITLE	HOISTING CONTROL BOX
	ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

(KD) 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC20BA51

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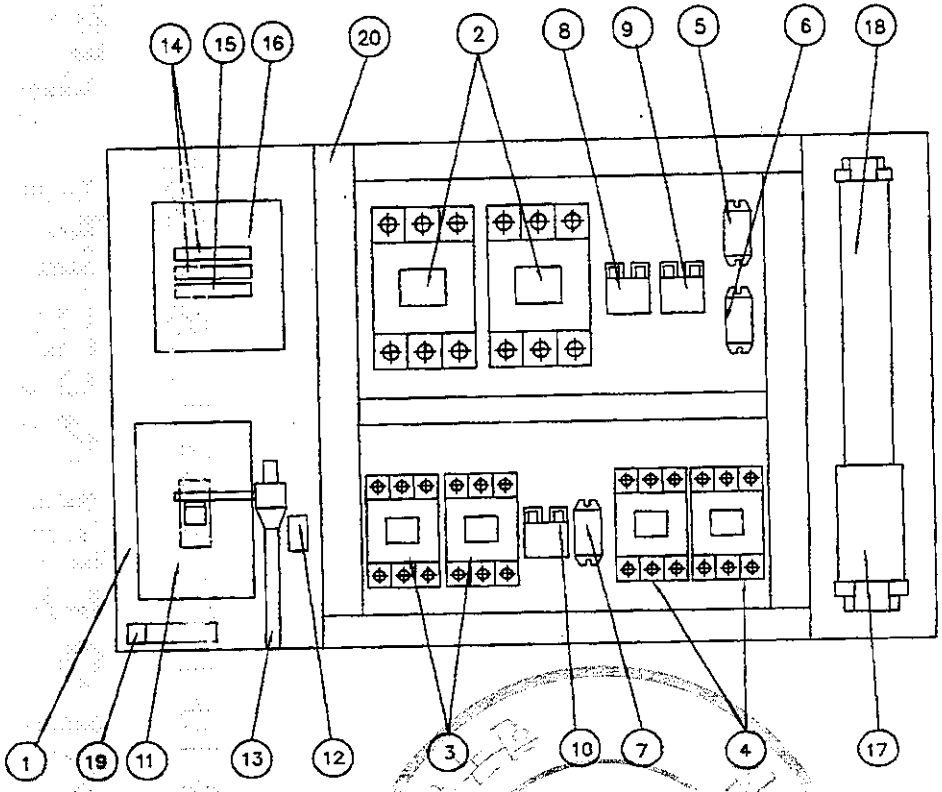

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연도금
2	MAGNET CONTACT	GMC-125P	2	HOISTING
3	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
4	MAGNET CONTACT	DOC-22P	2	TRAVERSING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
7	SILICON RECTIFIER	SR-30	1	TRAVERSING
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-30	1	CREEP HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	N.F.B	103AF/60AT	1	LS-2
12	UPPER LIMIT	AC 600V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F11,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	460V/110,120V, 200VA	1	
17	TERMINAL BLOCK	100A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5tx25x50	1	
20	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3ø 460V 60HZ

NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
   └ MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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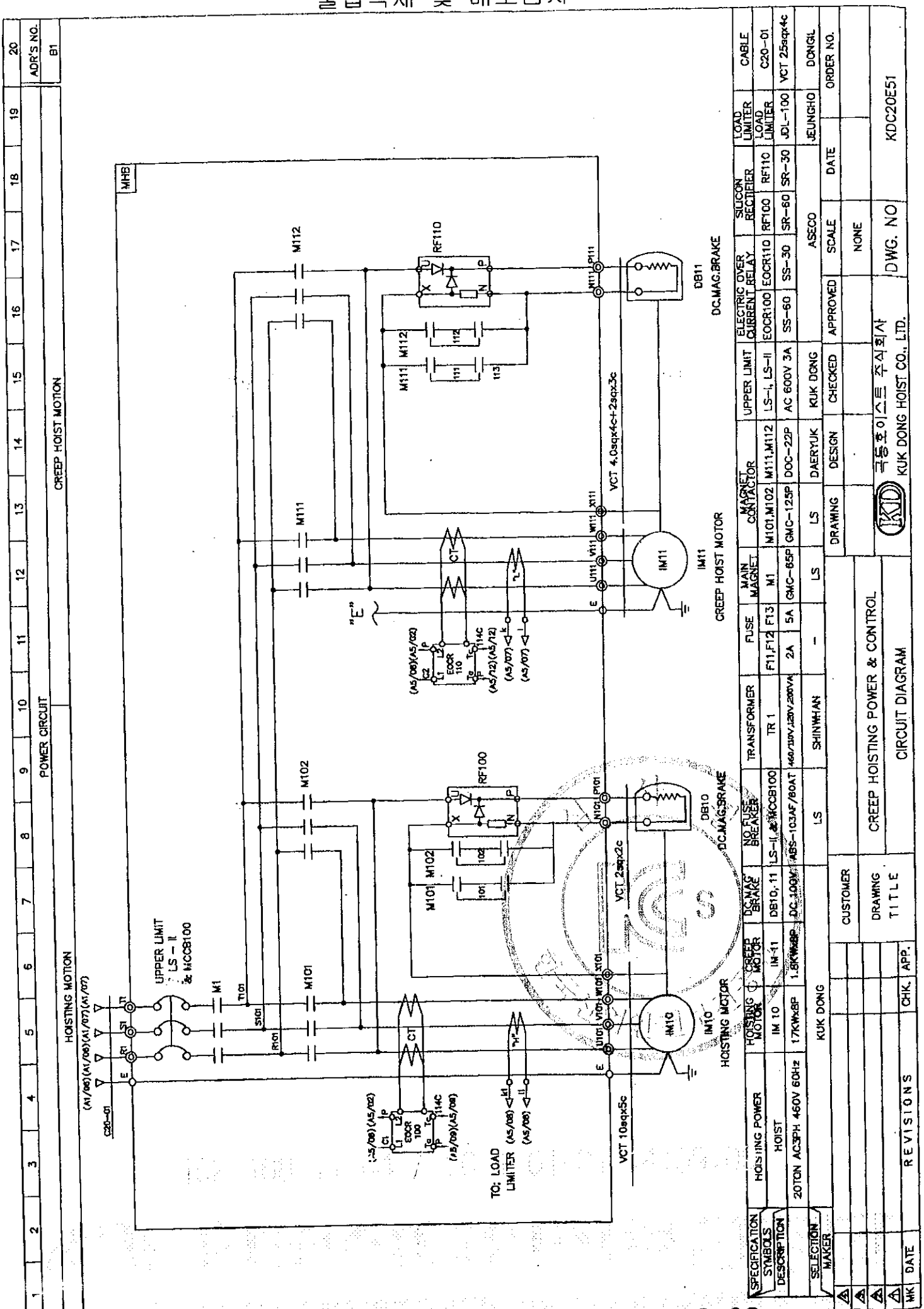
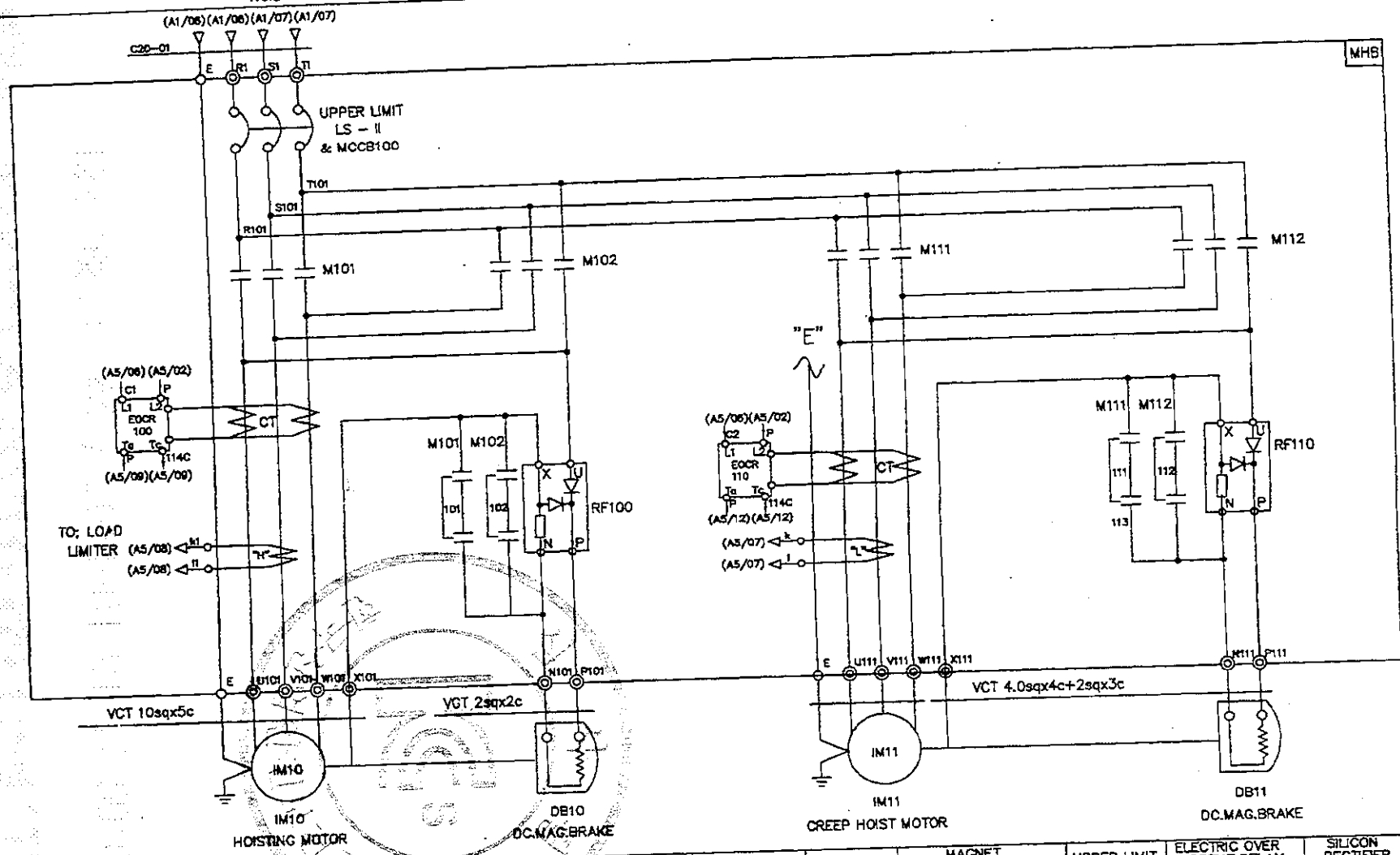
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING CONTROL BOX(CRANE)					NONE		
ARRANGEMENT DRAWING	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	DWG. NO	KDC15BA52					



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	ADR'S NO.
										POWER CIRCUIT										81

HOISTING MOTION

CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 460V 60Hz	17KW×8P	1.8KW×8P	DC 100V	ABS-103AF/60AT	460/110V,120V,200VA	2A	5A	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
SELECTION MAKER	KUKDONG				LS	SHINWHAN	-		LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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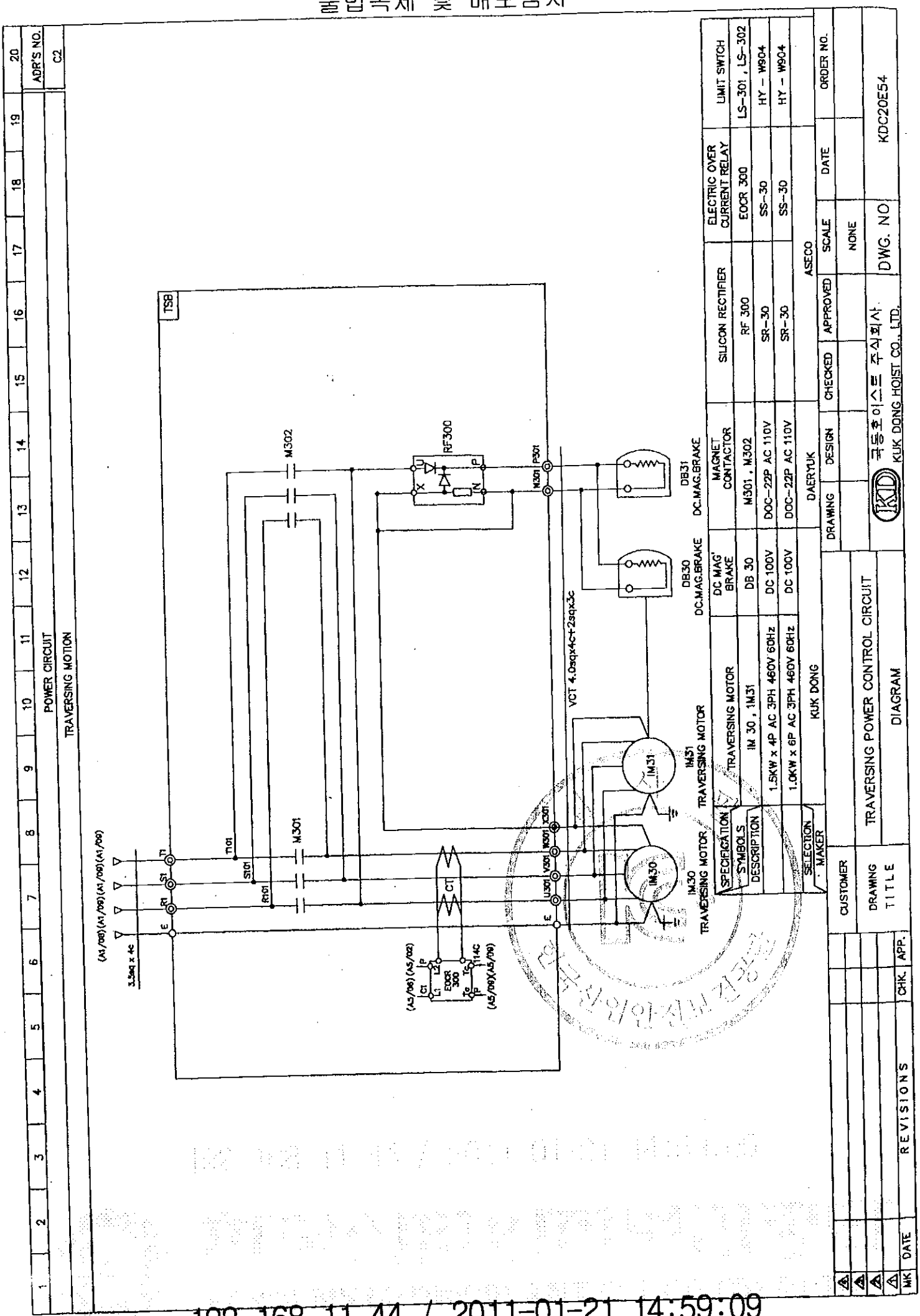
CUSTOMER

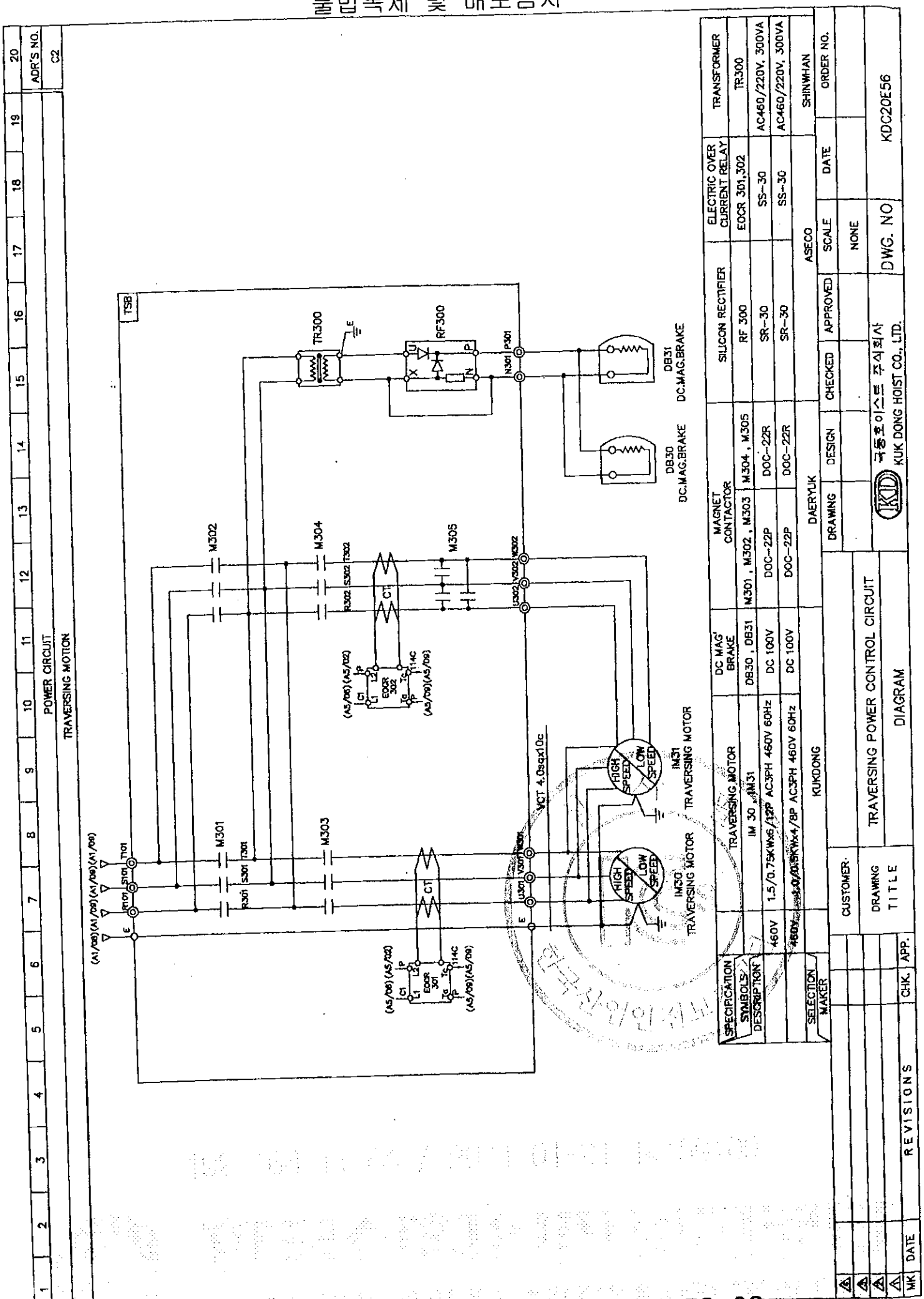
DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E52





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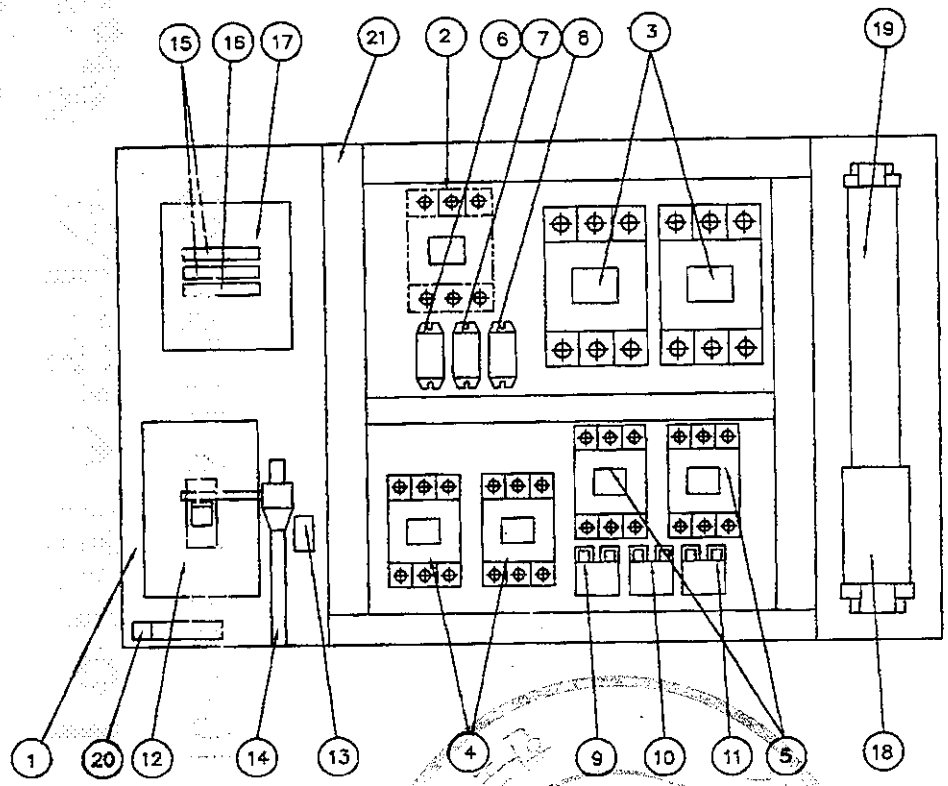
ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연도금
2	MAGNET CONTACT	GMC-65P	1	MAIN MAG.
3	MAGNET CONTACT	GMC-125P	2	HOISTING
4	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
5	MAGNET CONTACT	DOC-22P	2	TRAVERSING
6	SILICON RECTIFIER	SR-60	1	HOISTING
7	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOISTING
11	E.O.C.R	SS-05	1	TRAVERSING
12	N.F.B	103AF/60AT	1	LS-2
13	UPPER LIMIT	AC 600V/3A	1	LS-1
14	LIMIT LEVER	SS-400	1	
15	FUSE (F11,F12)	2 A	2	
16	FUSE (F13)	5 A	1	
17	TRANSFORMER	480V/110,120V, 200VA	1	
18	TERMINAL BLOCK	100A,25A		
19	TERMINAL BLOCK	15A		
20	EARTH TERMINAL	5tx25x50	1	
21	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3ø 480V 60HZ
5. - - - - : USER SCOPE(MONO RAIL용)

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 교류 및 직류 전원선로
   2) 적색 : 교류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm 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.

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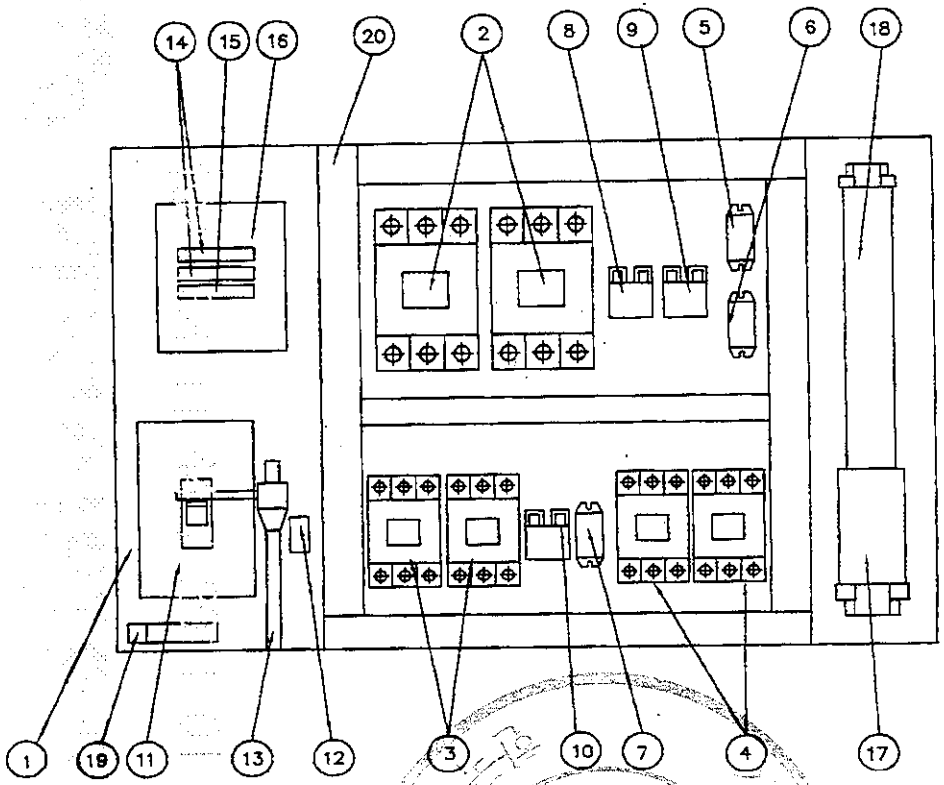
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING CONTROL BOX					NONE		
ARRANGEMENT DRAWING	금동호이스트 주식회사 KUK DONG HOIST CO., LTD.					DWG. NO	KDC20BA61	

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	아연도금
2	MAGNET CONTACT	GMC-125P	2	HOISTING
3	MAGNET CONTACT	DOC-22P	2	CREEP HOISTING
4	MAGNET CONTACT	DOC-22P	2	TRAVERSING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	SILICON RECTIFIER	SR-30	1	CREEP HOISTING
7	SILICON RECTIFIER	SR-30	1	TRAVERSING
8	E.O.C.R	SS-60	1	HOISTING
9	E.O.C.R	SS-30	1	CREEP HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	N.F.B	103AF/60AT	1	LS-2
12	UPPER LIMIT	AC 600V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F11,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	480V/110,120V, 200VA	1	
17	TERMINAL BLOCK	100A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5tx25x50	1	
20	CABLE DUCT	-	1	

NOTE

1. UPPER LIMIT LS-1의 접점 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 접점 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC. 3ø 480V 60HZ

NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 의함 개방구조는 다음과 같을것.
   1) 의함 개방시 충전부분이 차단되도록 할것.
   2) 의함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

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CUSTOMER	
DRAWING TITLE	HOISTING CONTROL BOX(CRANE)
	ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KDC20BA62

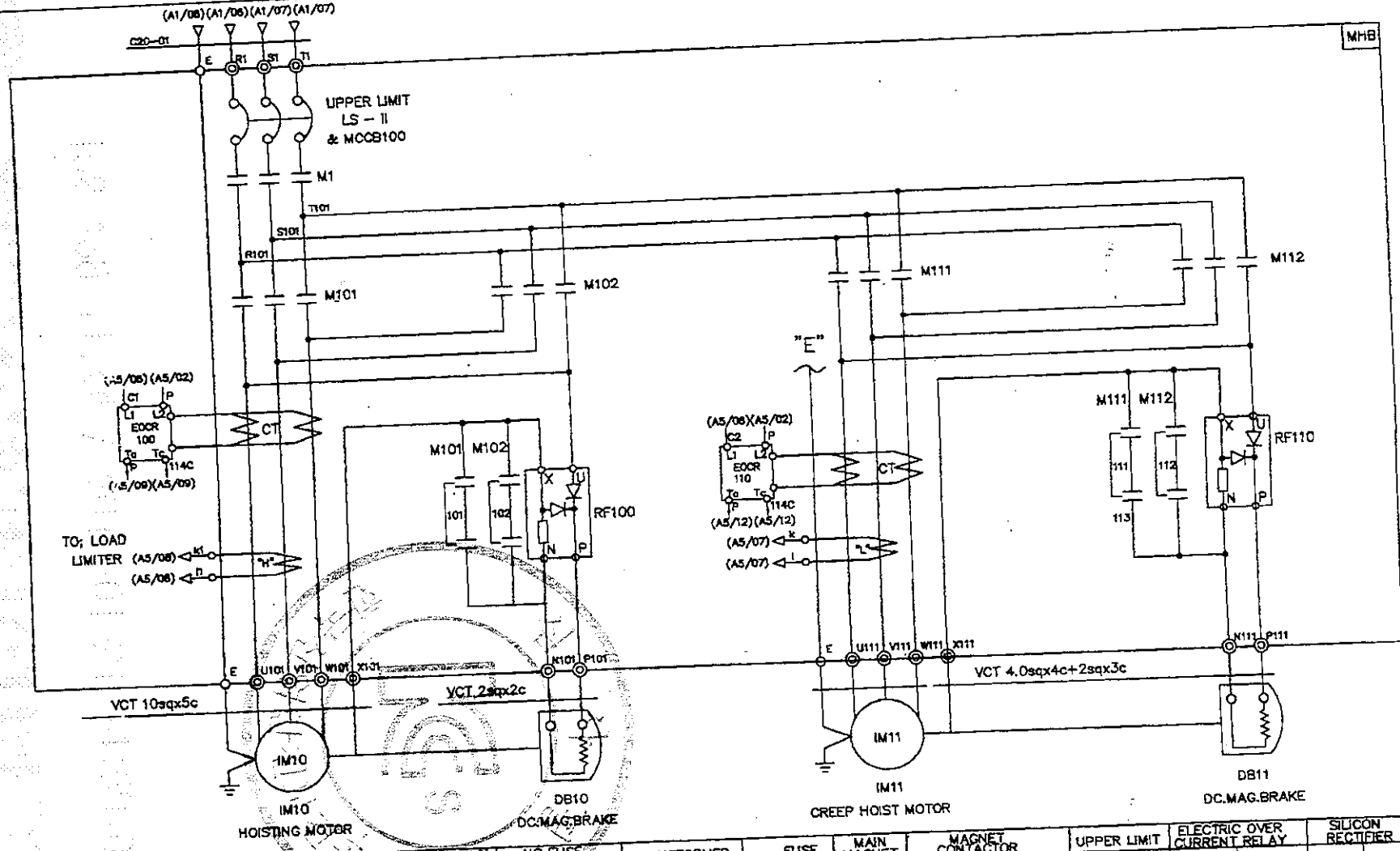
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM-11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 480V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-103AF/60AT	480/120V,120V,200VA	2A	5A	GMC-65P	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
SELECTION MAKER	KUK DONG				LS	SHINWHAN	-		LS	LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E61

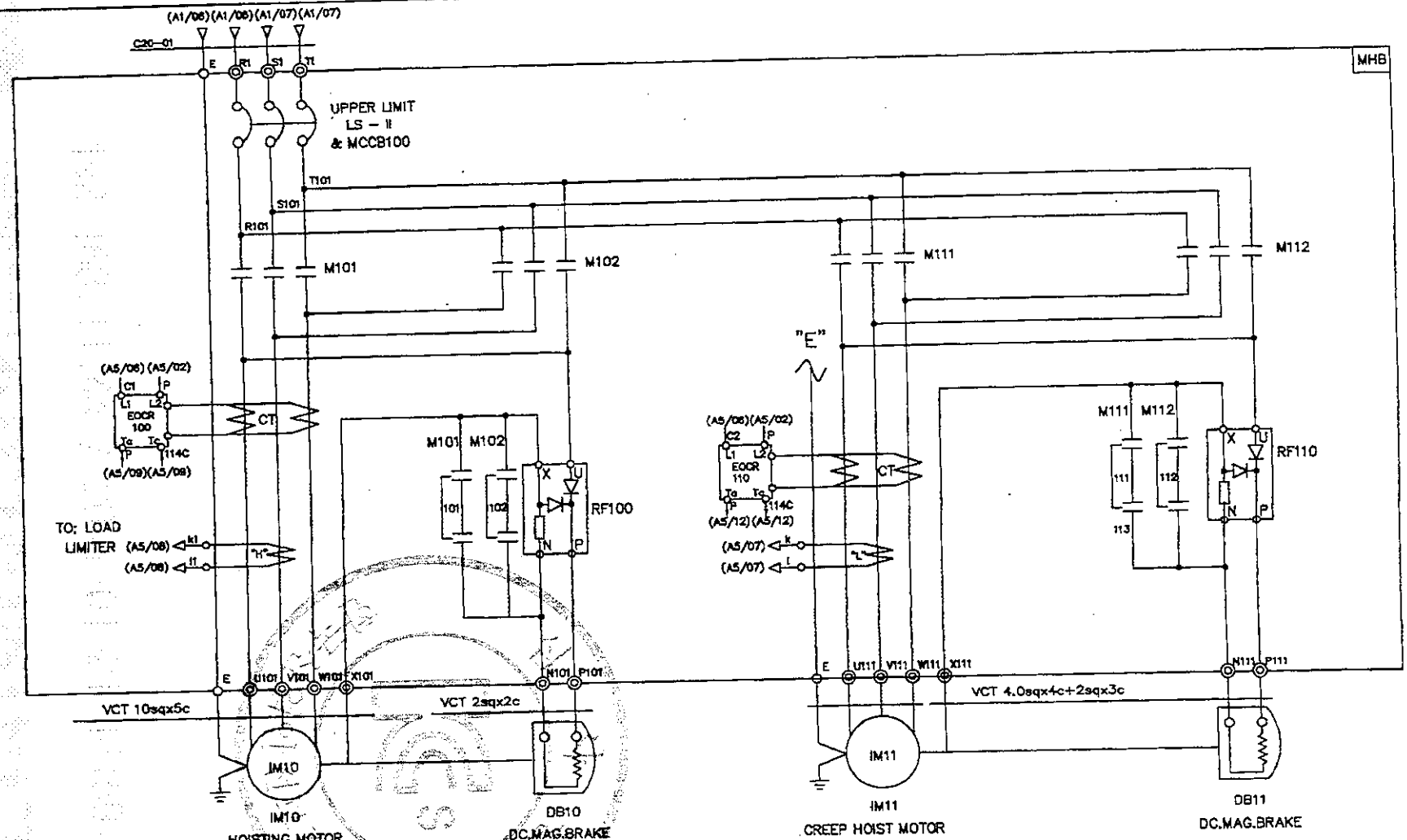
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

CREEP HOIST MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	LS-II & MCCB100	TR 1	F11,F12	F13	M101,M102	M111,M112	LS-I, LS-II	EOCR100	EOCR110	RF100	RF110	LOAD LIMITER	C20-01
	20TON AC3PH 480V 60Hz	17KWx8P	1.8KWx8P	DC 100V	ABS-103AF/60AT	480/110V,120V,200VA	2A	5A	GMC-125P	DOC-22P	AC 600V 3A	SS-60	SS-30	SR-60	SR-30	JDL-100	VCT 25sqx4c
SELECTION MAKER	KUKDONG				LS	SHINWHAN	-		LS	DAERYUK	KUK DONG	ASECO				JEUNGHO	DONGIL

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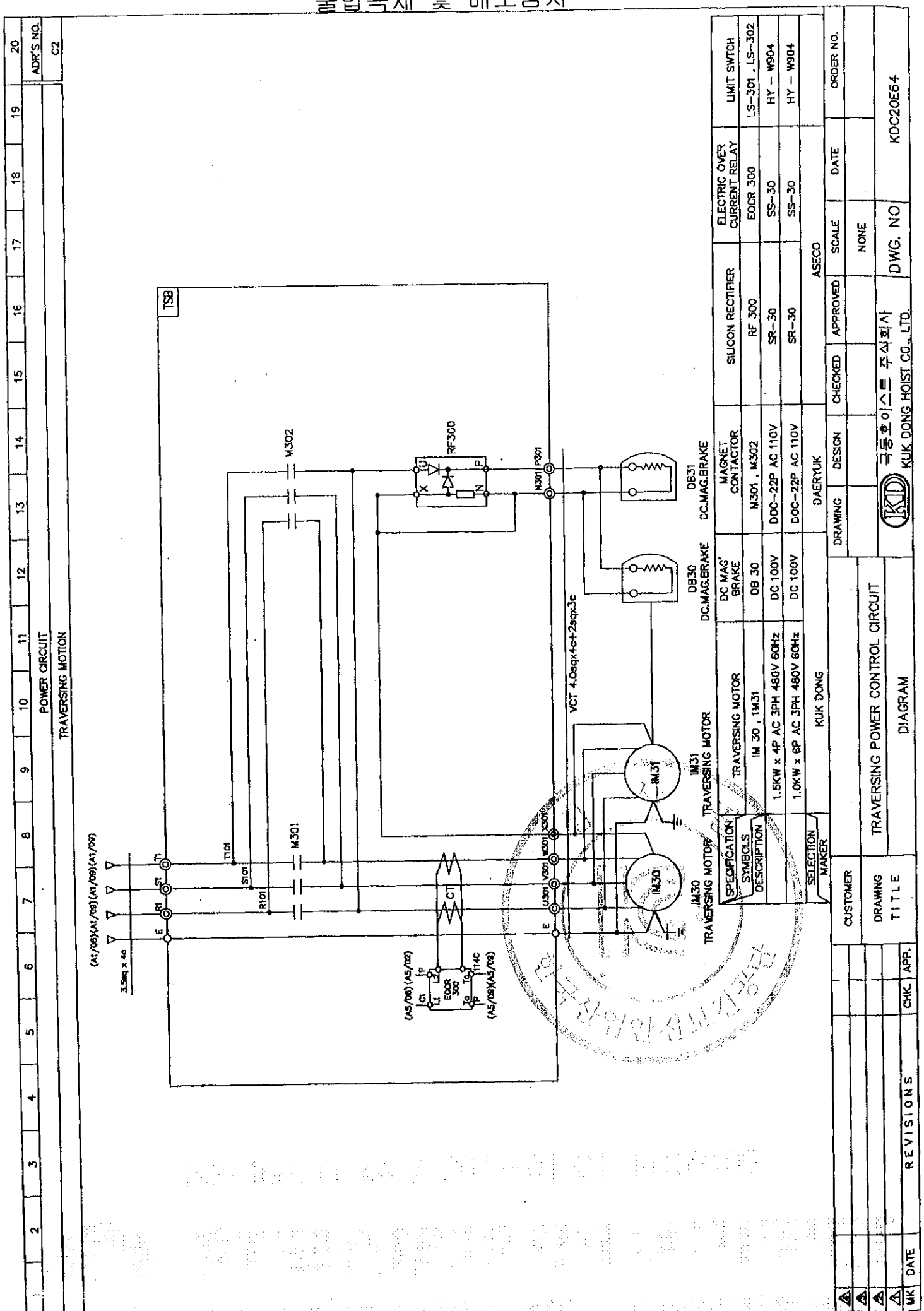
CUSTOMER

DRAWING TITLE: CREEP HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E62

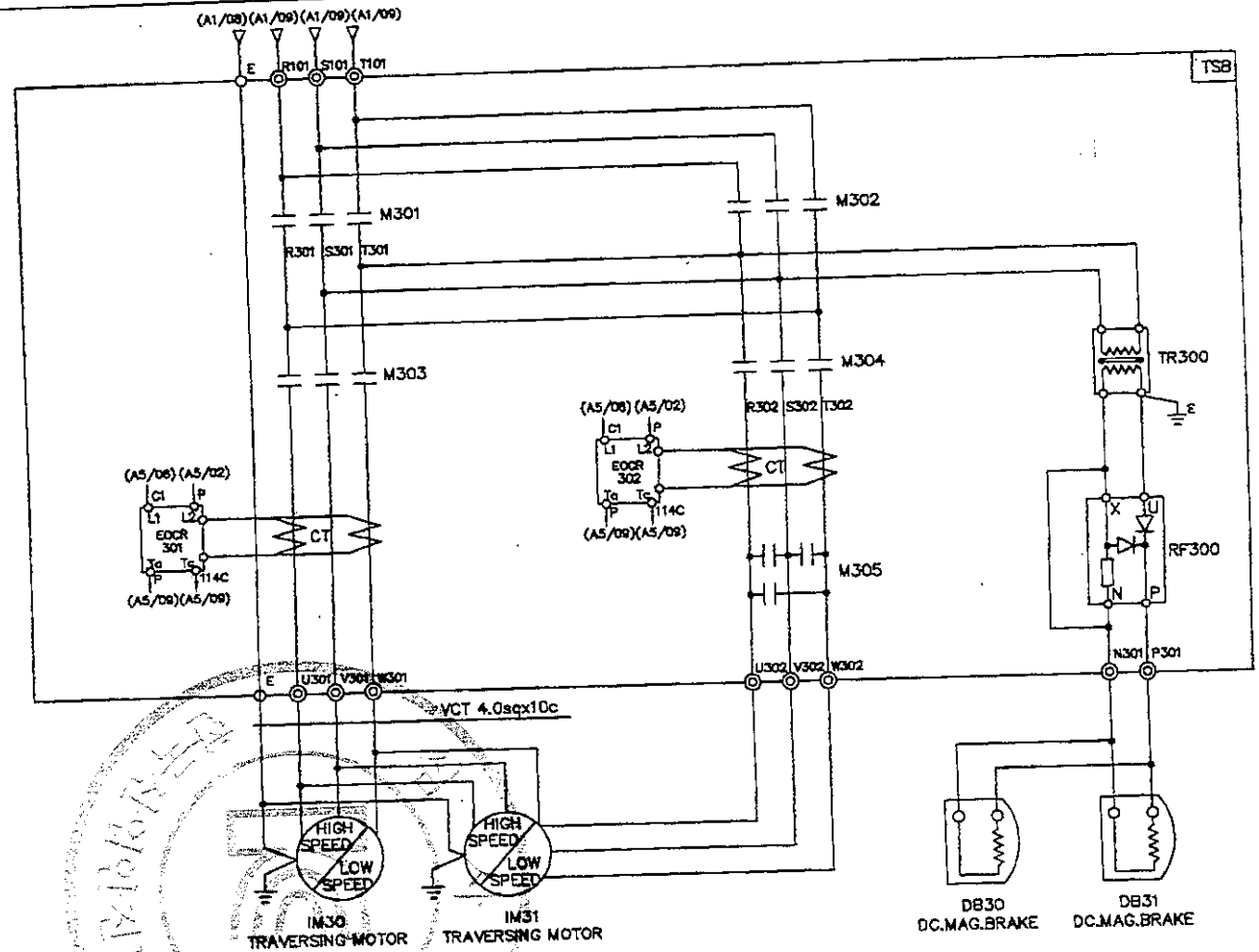


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. C2

POWER CIRCUIT

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30 , IM31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	480V	1.5/0.75KWx6/12P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC480/220V, 300VA
	480V	1.0/0.5KWx4/8P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC480/220V, 300VA
SELECTION / MAKER		KUKDONG		DAERYUK		ASECO		SHINWHAN

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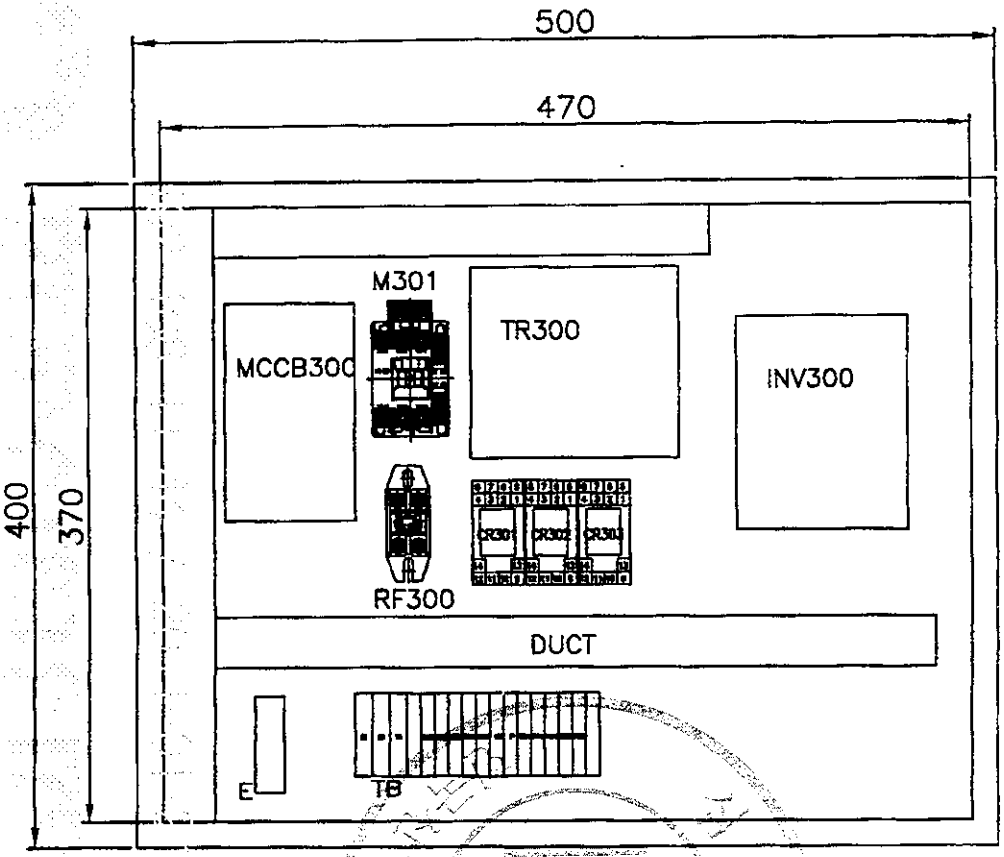
CUSTOMER

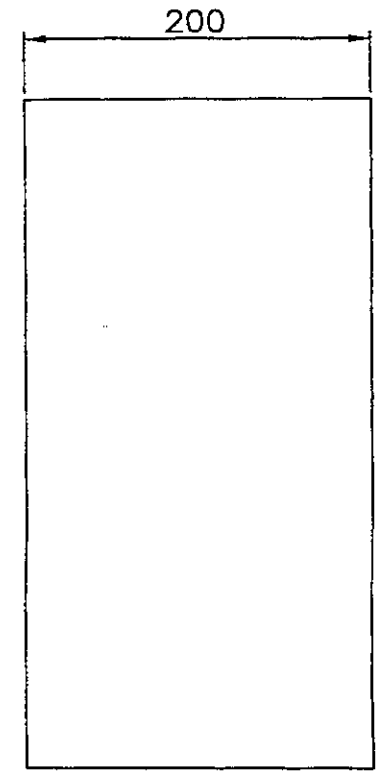
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KUK DONG HOIST CO., LTD. 국동호이스트 주식회사

DWG. NO KDC20E66





NO.	DESCRIPTION	MT'L	SUB QT'Y	TOTAL QT'Y	SUB WEIGHT(kg)	TOTAL WEIGHT(kg)	REMARKS.
11	EARTH BUS BAR	PUR		1			
10	DUCT	PUR		1			
9	TERMINAL BLOCK	PUR		1			
8	INVERTER	PUR		1			
7	TR	PUR		1			
6	RELAY & SCOKET	PUR		1			
5	RF	PUR		1			
4	MC	PUR		1			
3	MCCB	PUR		1			
2	속 판	SS400		1			
1	T/S BOX	PUR		1			

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

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

SHEET No.

DWG No. KDC20EI001

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

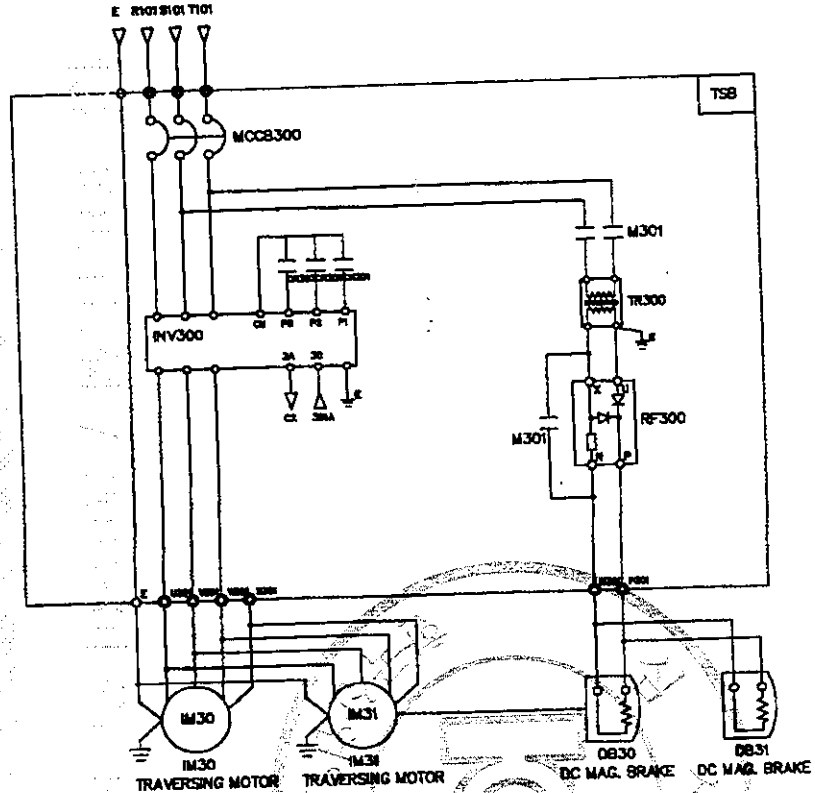
ADR'S NO.

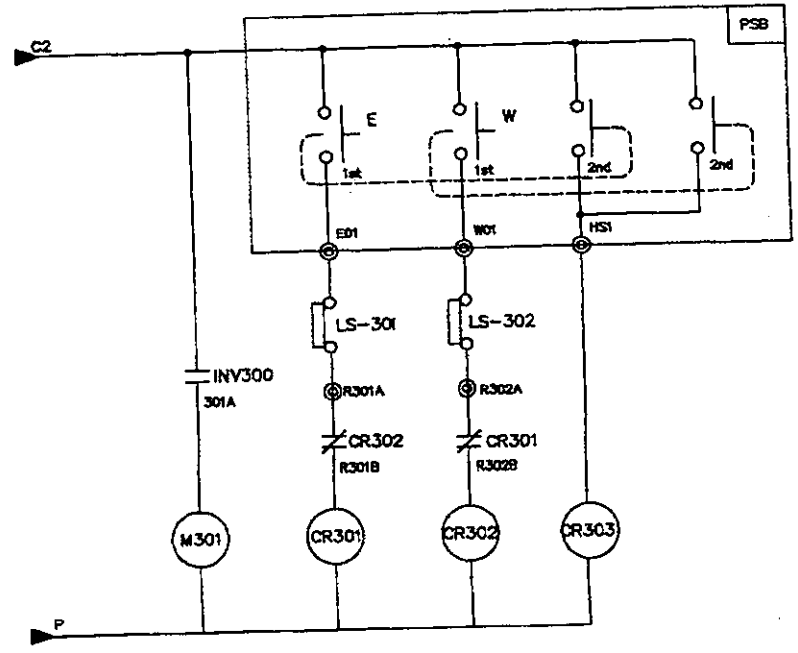
TRAVERSING MOTION

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
		IM 30,31	DB30,31	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300
	AC 3PH 220V 60Hz	1.0KW x 6P	DC 100V	DBE-33AF/15AT	220/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV037IG5A-2	SR-30
	AC 3PH 380(440,460,480)V 60Hz	1.0KW x 6P	DC 100V	DBE-33AF/15AT	380(440,460,480)/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV037IG5A-4	SR-30
SELECTION / MAKER	KUK DONG HOIST							LS	ASECO

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CUSTOMER	INVERTER CONTROL
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

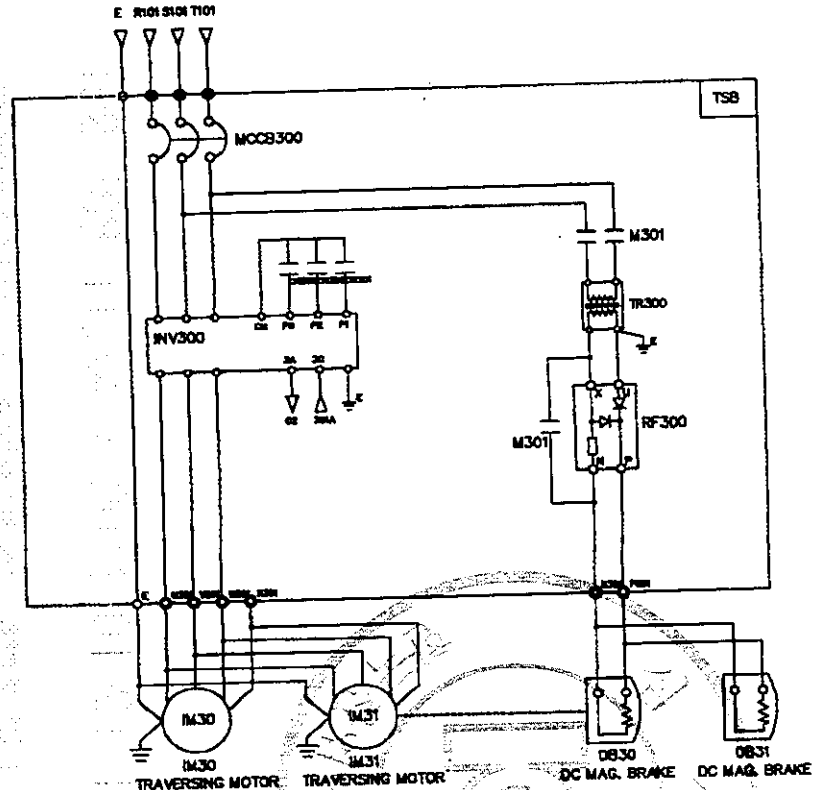
DWG. NO KDC20EI003

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

ADR'S NO.

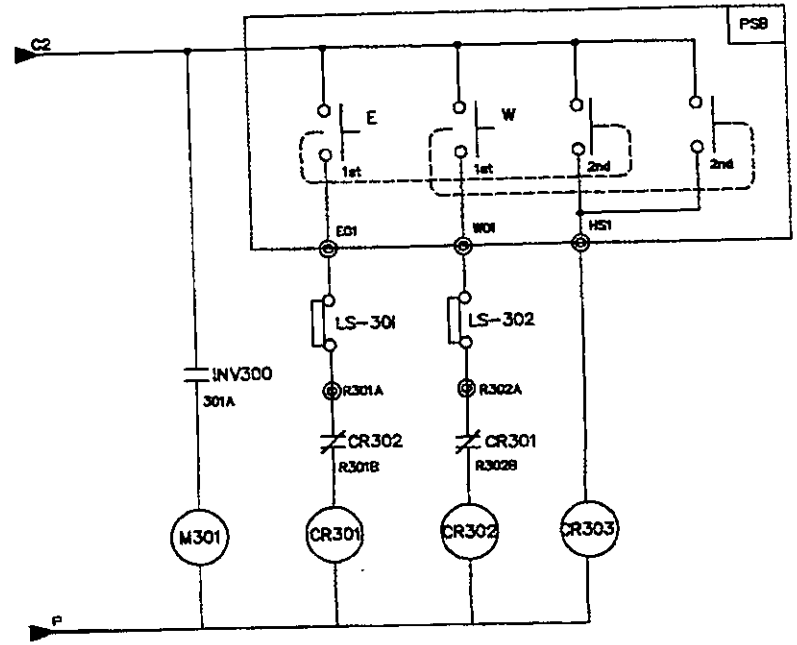
TRAVERSING MOTION

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	
		IM 30,31	DB30,31	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300	
	AC 3PH 220V 60Hz	1.5KW x 4P	DC 100V	DBE-33AF/20AT	220/220V,300VA	DM-22C	MINI 4c4b(Coil AC110V)	SV040IG5A-2	SR-30	
	AC 3PH 380(440,460,480)V 60Hz	1.5KW x 4P	DC 100V	DBE-33AF/20AT	380(440,460,480)/220V,300VA	DM-22C	MINI 4c4b(Coil AC110V)	SV040IG5A-4	SR-30	
SELECTION / MAKER	KUK DONG HOIST							LS	ASECO	

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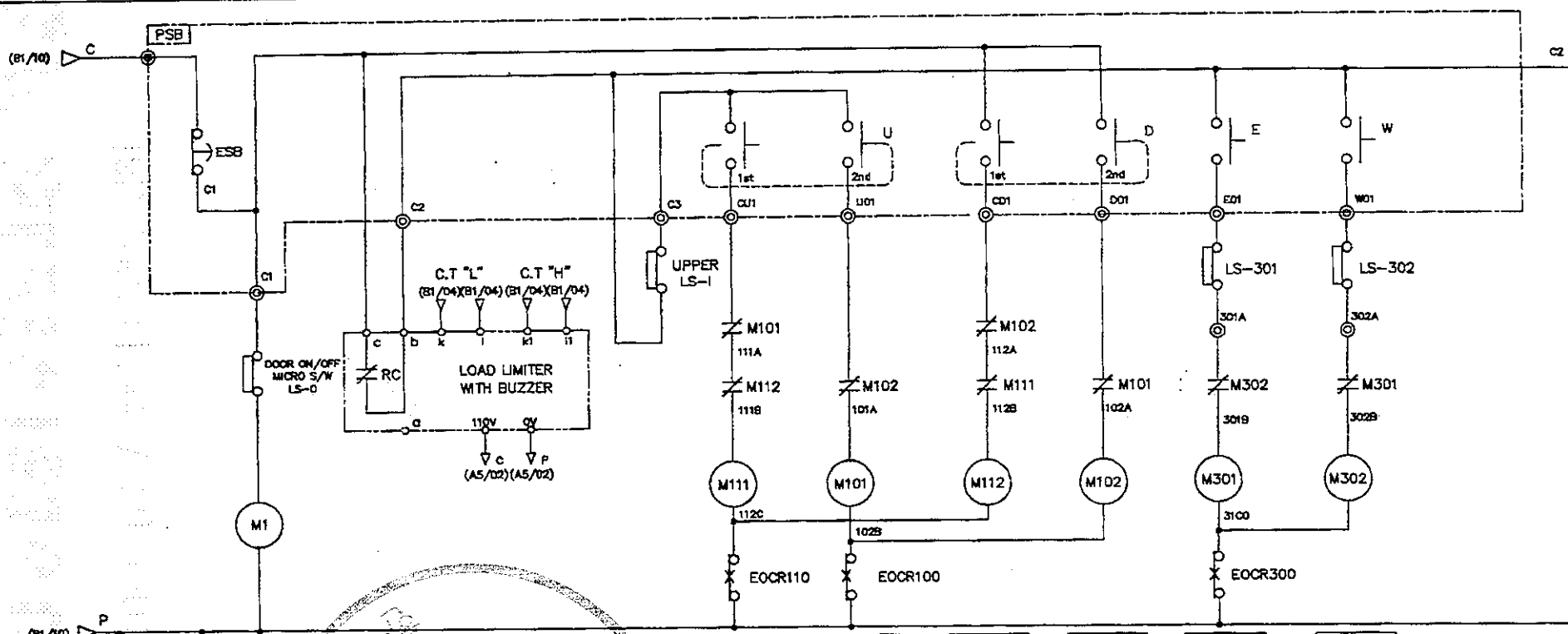
CUSTOMER	INVERTER CONTROL	DRAWING	DESIGN	CHECKED	APPROVED	SCALE / DATE / ORDER NO.
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM					
	국동호이스트 주식회사 KUK DONG HOIST CO., LTD.	DWG. NO	KDC20EI005			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.
											CONTROL CIRCUIT								ADR'S NO.
	EM. STOP			LOAD LIMIT		UPPER LIMIT		CREEP UP		UP		CREEP DOWN		DOWN		EAST		WEST	A5



M1	
A	B1/05
A	B1/05
A	B1/05
a	
a	
b	
b	

M111	
A	B1/12
A	B1/12
A	B1/12
a	B1/15
a	B1/15
b	A5/13
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A5/10
b	A5/14

M112	
A	B1/16
A	B1/16
A	B1/16
a	B1/16
a	B1/16
b	A5/10
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A5/11
b	A5/13

M301	
A	C1/07
A	C1/07
A	C1/07
a	
a	
b	A5/17
b	

M302	
A	C1/13
A	C1/13
A	C1/13
a	
a	
b	A5/15
b	

SPECIFICATION / SYMBOLS / DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 75A	250V 3A	JDL-70	HY - W904
	AC 600V 3A	250V 3A	JDL-70	HY - W904
MAKER	KUKDONG	KGAUTO	JEUNGHO	HANYOUNG

MK	DATE	REVISIONS	CHK.	APP.
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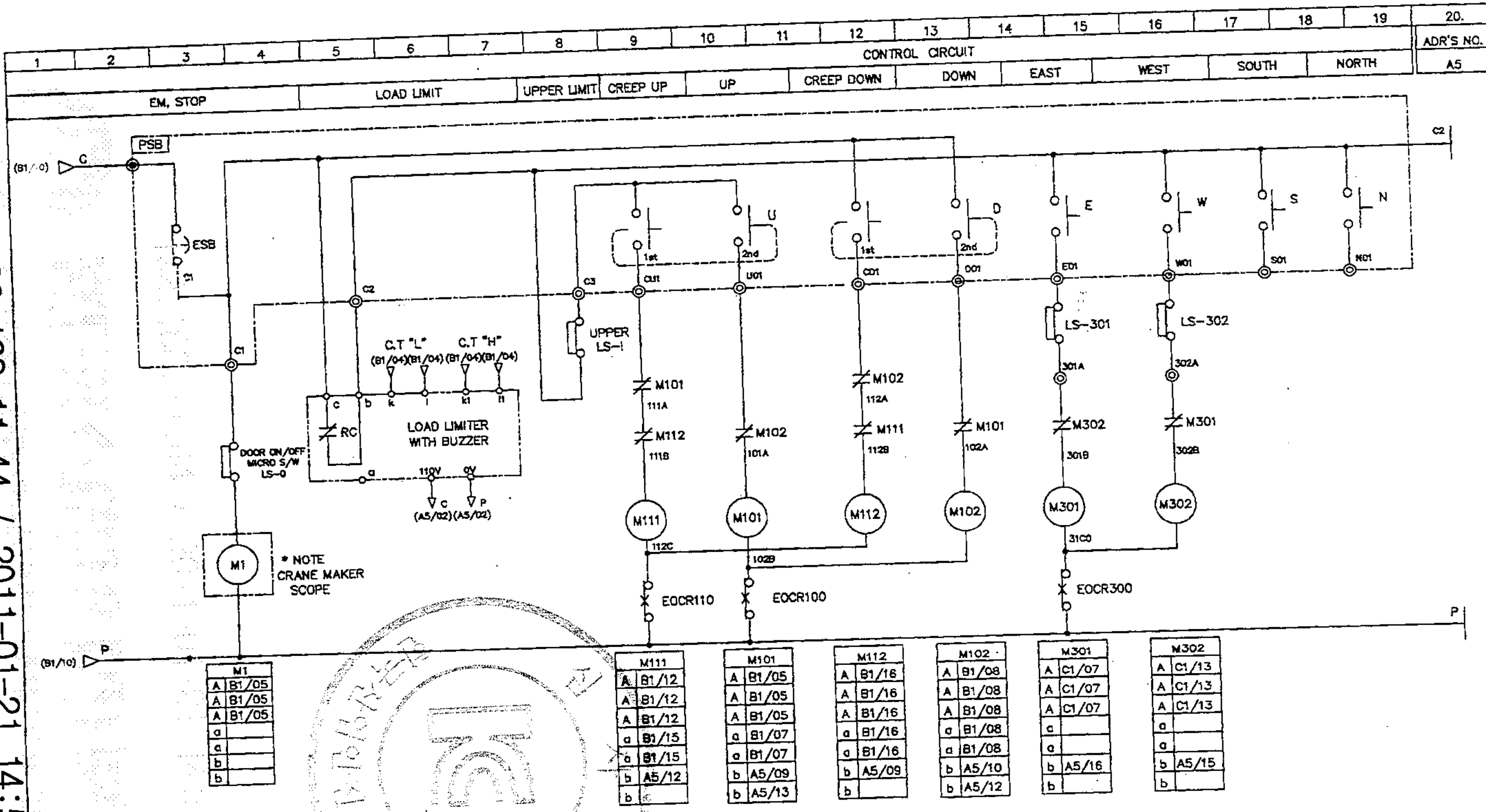
CUSTOMER

DRAWING TITLE: MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KDC20E001



SPECIFICATION / SYMBOLS / DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 75A	250V 3A	JDLS-70	HY - W904
	AC 600V 3A	250V 3A	JDLS-70	HY - W904
MAKER	KUKDONG	KGAUTO	JEUNGHO	HANYOUNG

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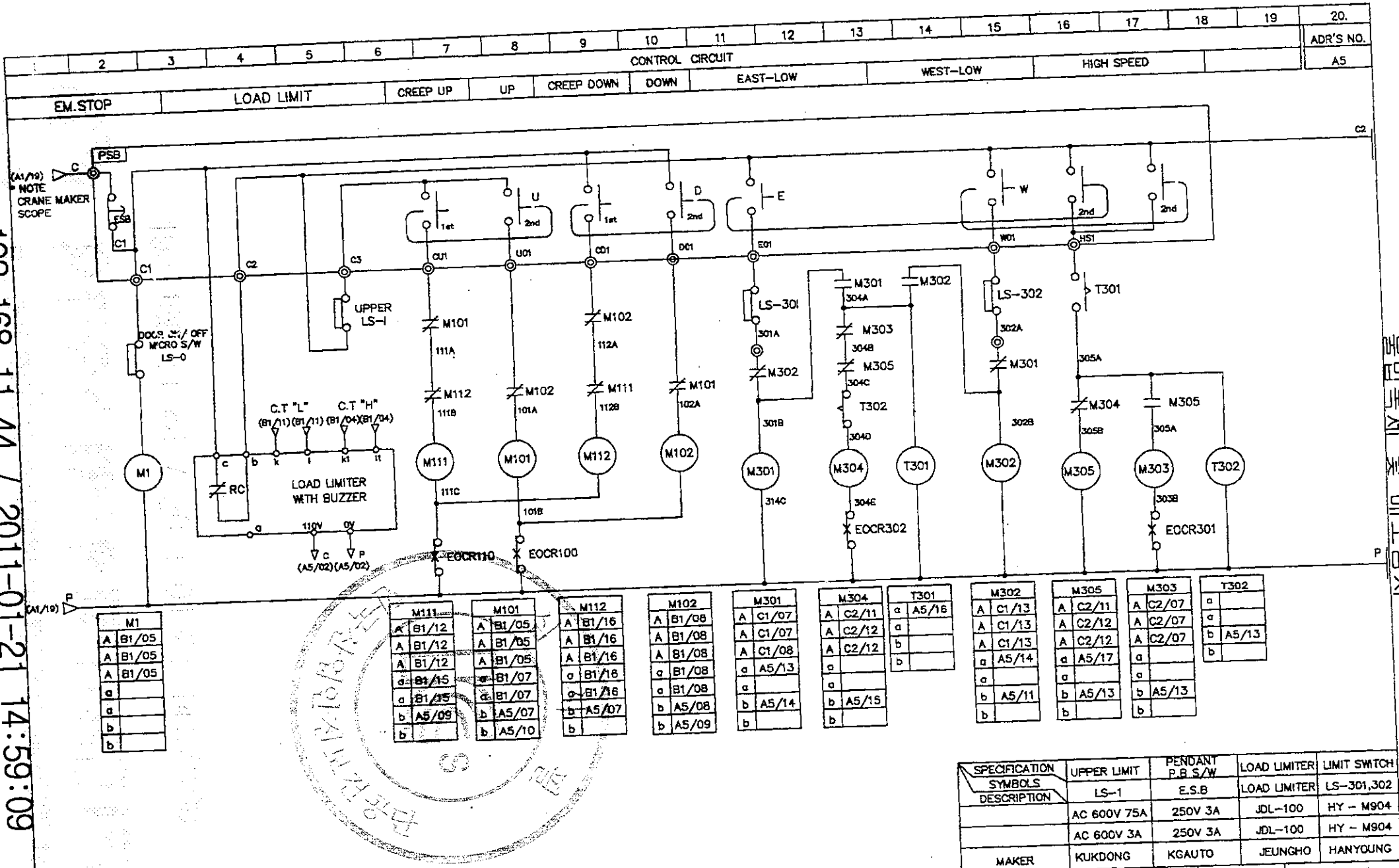
CUSTOMER	
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC20E002



SPECIFICATION / SYMBOLS / DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 75A	250V 3A	JDL-100	HY - M904
	AC 600V 3A	250V 3A	JDL-100	HY - M904
MAKER	KUKDONG	KGAUTO	JEUNGHO	HANYOUNG

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER	
DRAWING TITLE	HOIST CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

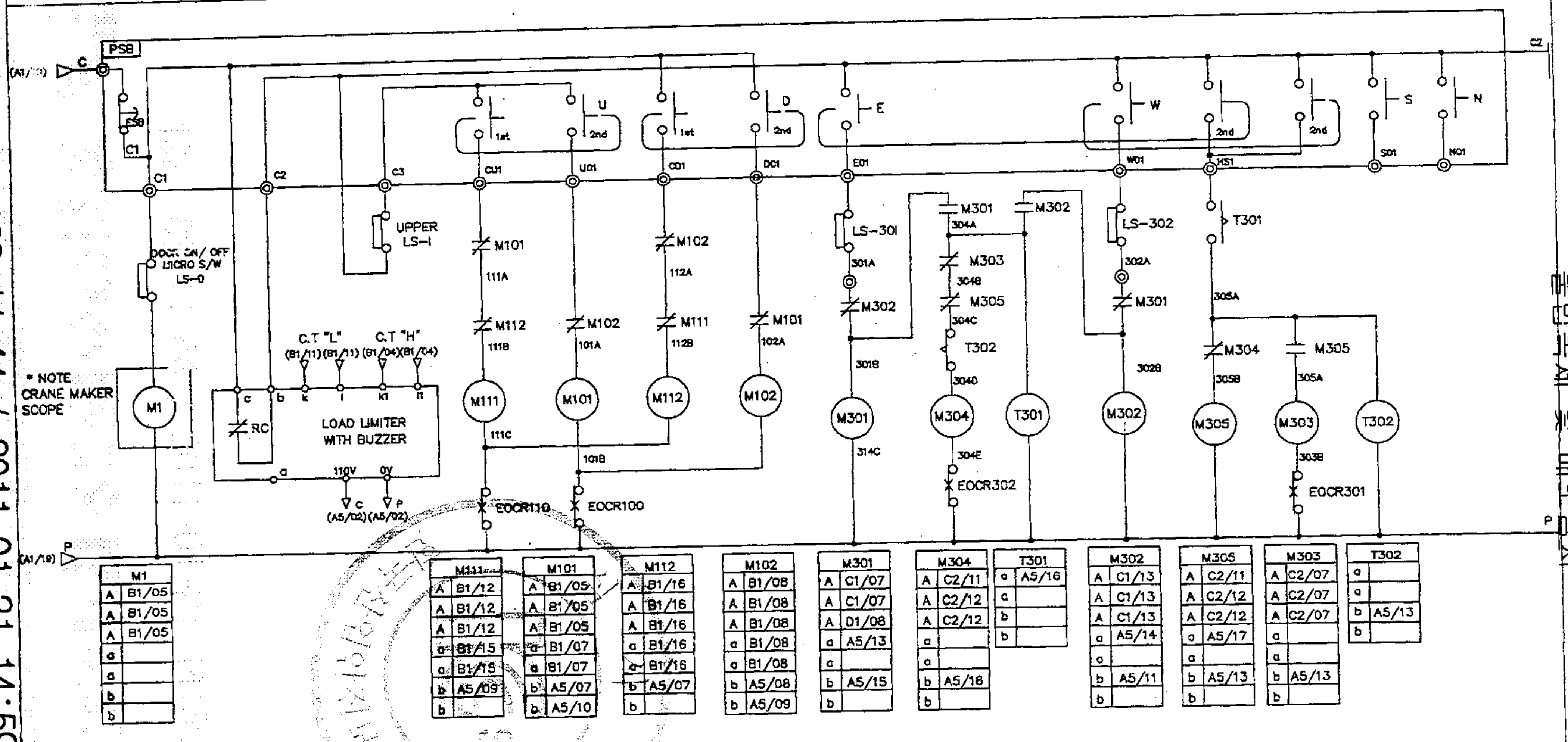
국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC20E003

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

CONTROL CIRCUIT

EM.STOP	LOAD LIMIT	CREEP UP	UP	CREEP DOWN	DOWN	EAST-LOW	WEST-LOW	HIGH SPEED	SOUTH	NORTH	ADR'S NO. A5



SPECIFICATION / SYMBOLS / DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 75A	250V 3A	JDL-100	HY - M904
	AC 600V 3A	250V 3A	JDL-100	HY - M904
MAKER	KUKDONG	KGAUTO	JEUNGHO	HANYOUNG

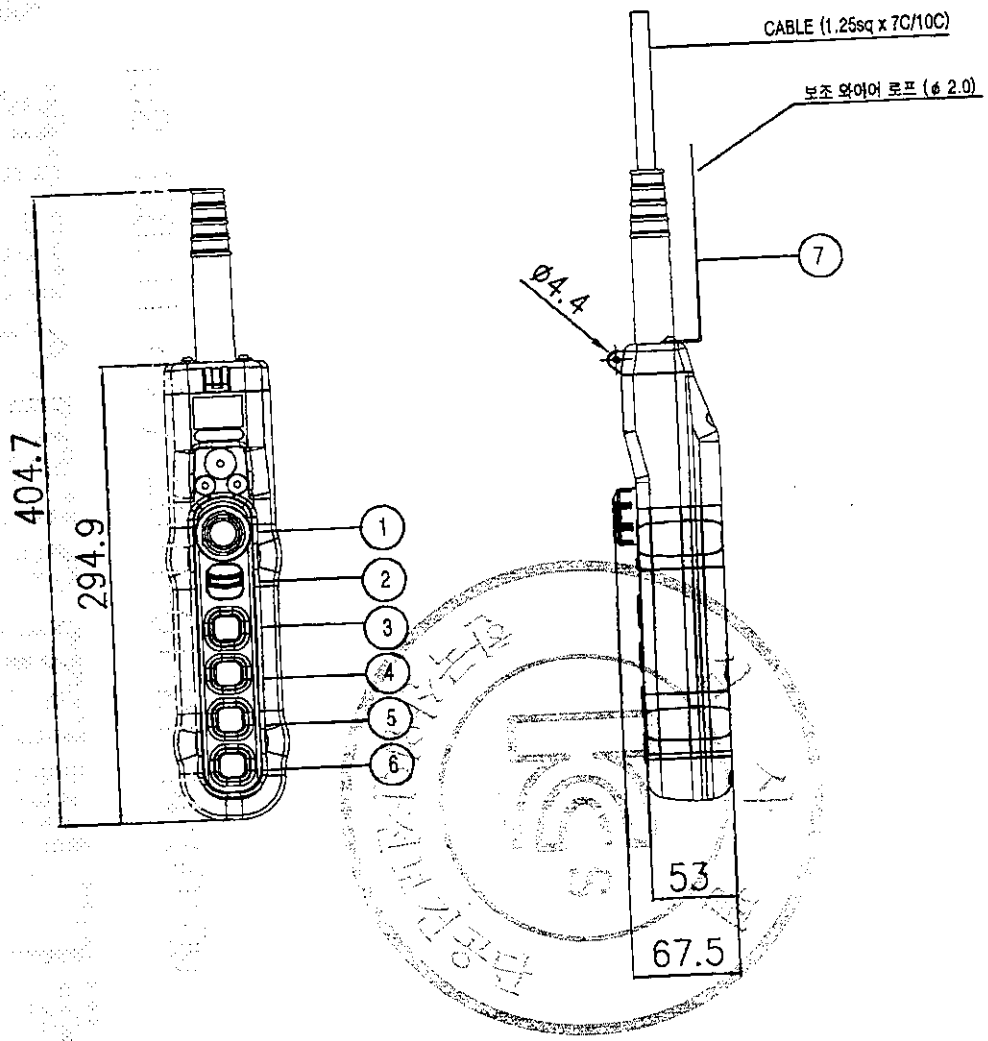
MK	DATE	REVISIONS	CHK.	APP.
△				
△				
△				
△				

CUSTOMER	
DRAWING TITLE	HOIST CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KDC20E004



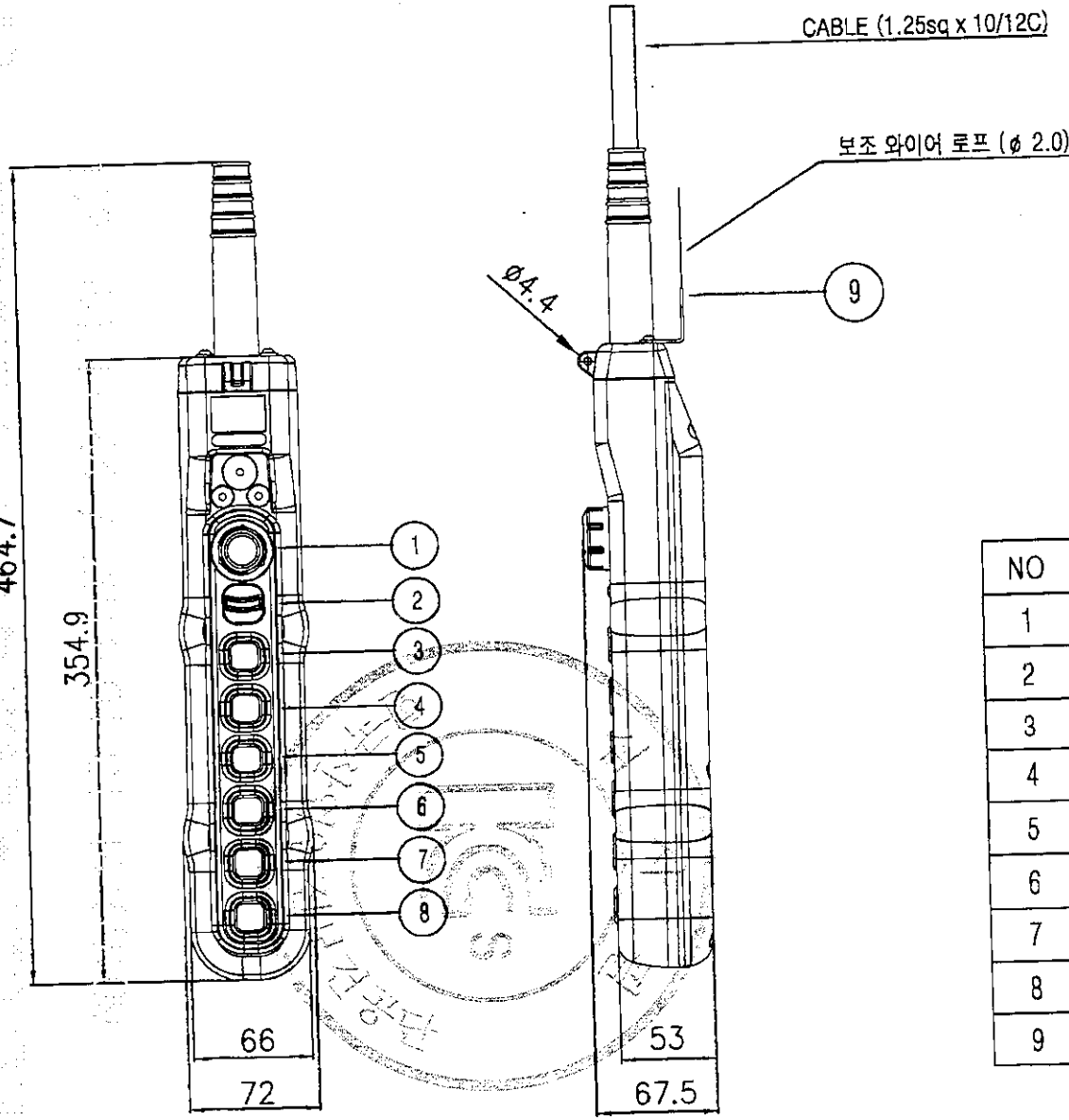
구분 / 색상	조작버튼	표시등
적색	비상	비상
황색	비정상	비정상
녹색	정상	정상
청색	의무	의무
흰색,회색-흑색	지정된의미없음	기타

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

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

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				

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



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

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

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

불법복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				

CUSTOMER

DRAWING TITLE: PENDANT PUSH BUTTON SWITCH

LAY OUT

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE

KD KUK DONG HOIST CO., LTD.

DWG. NO

▣ I-BEAM 최대지지거리

☞ 최대지지거리 판정결과

I-BEAM 규격	최대 지지거리 (cm)	처짐량 판정1 > 800	처짐량 판정2 >1000	굽힘응력(kg/㎠) < 1159
450×175×t13/26	330	1889.4	1908.3	1127.4
600×190×t13/25	480	1723.2	1752.2	1137.9

☞ 기본 조건

정격하중 (Kg)	양정 (m)	권상속도 (m/min)	호이스트		작업계수	풍력계수
			자중 (Kg)	풍압면적 (㎡)		
20000	30	4.2	3670	1.48	1.08	1.2

*첨부 강도계산서 참조

[I-BEAM 최대 지지거리 강도계산서]

1. 굽힘 MOMENT 계산

1-1. 수직하중에 의한 굽힘 MOMENT

빔 자중에 의한 MOMENT : $Ms = \dfrac{\phi \times \text{BEAM자중(등분포하중)} \times \text{지지거리}}{8}$ (kg · cm)

※ 작업계수(ϕ) = 1.08

※ BEAM 자중 (kg) = BEAM 단위중량(kg/cm) x 지지거리(cm)

이동하중에 의한 MOMENT : $Md = \dfrac{\phi \times \Psi \times \text{이동하중} \times \text{지지거리}}{4}$ (kg · cm)

※ 이동하중 (kg) = 정격하중 + 호이스트 자중 = 20000 + 3670 = 23670 (kg)

※ 충격계수(Ψ) = 1 + 0.6V (단, Ψ <1.1 이면 Ψ = 1.1, Ψ > 1.6 이면 Ψ = 1.6 으로 한다.
= 1 + (0.6 x 0.07) = 1.042 ----> 1.1

※ 권상속도(V) = $\dfrac{4.2}{60}$ (m/min) = 0.07 (m/sec)

수직하중에 의한 굽힘 MOMENT : ΣMv = Ms + Md

1-2. 풍하중에 의한 굽힘 MOMENT

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

※풍하중 (W) = 속도압(q) x 풍력계수 x 풍압을 받는 면적 (A) (kg)

※속도압(q) : = $8.5 \times {}^{4}\sqrt{h}$ = 19.9 (h= 양정: 30)

※풍력계수(C) = 1.2 (크레인 제작기준 참조)

※풍압을 받는 면적 (A) = I-BEAM의 풍압면적 + HOIST의 풍압면적 (㎡)

※HOIST의 풍압 면적 ≒ 1.48 (㎡)

2. 굽힘 응력 계산

2-1. 수직하중에 의한 굽힘 응력

$\sigma v = \dfrac{\text{수직하중에 의한 굽힘MOMENT : } \Sigma Mv}{\text{단면 계수 : } Zx}$ (kg/㎠)

2-2. 풍하중에 의한 굽힘 응력

$\sigma w = \dfrac{\text{풍하중에 의한 굽힘 MOMENT : } Mw}{\text{단면계수 : } Zy}$ (kg/㎠)

2-3.수직하중 및 풍하중에 의한 굽힘 응력

$\Sigma \sigma = \sigma v + \sigma w$

표1. I-BEAM 최대지지거리에 따른 굽힘응력 계산 결과

I-BEAM 규격	최대지지거리(cm)	I-BEAM		단면계수		Ms	Md	ΣMv	I-BEAM 총입면적 (㎡)	W (kg)	Mw (kg · cm)	σv (kg/cm²)	σw (kg/cm²)
		단위중량 (kg/cm)	자중 (kg)	Zx (cm³)	Zy (cm³)	(kg · cm)	(kg · cm)	(kg · cm)					
450 × 175 × t13/25	330	1.15	379.5	2170	231	16906.73	2319896.70	2336803.43	1.49	70.80	11682.69	1076.87	50.57
600 × 190 × t13/25	480	1.33	638.4	3280	259	41368.32	3374395.20	3415763.52	2.88	104.12	24988.03	1041.39	96.48

[I-BEAM의 처짐량(Deflection) 및 최대굽힘응력 판정 결과]

1. 처짐량 판정 1
   판정기준: $L / \sigma > 800$
   ※ $\sigma = \sigma_s + \sigma_d$

2. 처짐량 판정 2
   판정기준: $L / \sigma_d > 1000$

3. 최대굽힘응력 판정
   판정기준: $\Sigma\sigma \leq 1159$ (kg/㎟) (= SS400 허용굽힘응력 1449 x 0.8)
   ※ $\Sigma\sigma = \sigma_v + \sigma_w$

※I-BEAM 자중에 의한 처짐(σ_s)

$$\sigma_s = \frac{5 \times \text{I-Beam자중} \times \text{지지거리}^3}{384 \times E \times Ix}$$

※이동하중에 의한 처짐(σ_d)

$$\sigma_d = \frac{(\text{정격하중} + \text{호이스트 자중}) \times \text{지지거리}^3}{48 \times E \times Ix}$$

E = 종탄성계수 (2,100,000 kg/㎟)
Ix = 단면2차MOMENT

판정기준
> 1000

I-BEAM 규격	Ix (cm^4)	최대지지거리(cm)	σ_s (cm)	σ_d (cm)	처짐량판정1	처짐량판정2	$\Sigma\sigma$ (kg/㎟)
450×175×t13/26	48800	330	0.0017	0.1729	1889.4	1908.3	1127.4
600×190×t13/25	94800	480	0.0046	0.2739	1723.2	1752.2	1137.9

[I-BEAM의 처짐량(Deflection) 및 최대굽힘응력 판정 결과]

1. 처짐량 판정 1
   판정기준: $L / \sigma > 800$
   ※ $\sigma = \sigma_s + \sigma_d$

2. 처짐량 판정 2
   판정기준: $L / \sigma_d > 1000$

3. 최대굽힘응력 판정
   판정기준: $\Sigma\sigma \leq 1159$ (kg/㎠) (= SS400 허용굽힘응력 1449 x 0.8)
   ※ $\Sigma\sigma = \sigma_v + \sigma_w$

※I-BEAM 자중에 의한 처짐(σs)

$$\sigma_s = \frac{5 \times \text{I-Beam자중} \times \text{지지거리}^3}{384 \times E \times Ix}$$

※이동하중에 의한 처짐(σd)

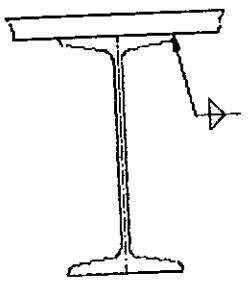
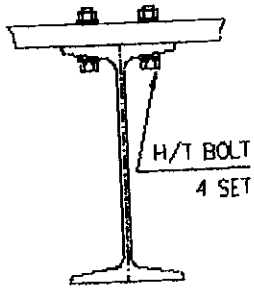
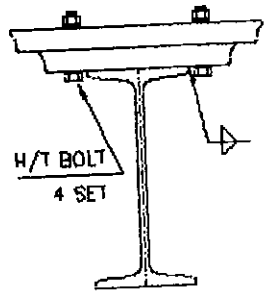
$$\sigma_d = \frac{(\text{정격하중} + \text{호이스트 자중}) \times \text{지지거리}^3}{48 \times E \times Ix}$$

E = 종탄성계수 (2,100,000 kg/㎠)
Ix = 단면2차MOMENT

					판정기준 1000		
I-BEAM 규격	Ix (cm^4)	최대지지거리(cm)	σ_s (cm)	σ_d (cm)	처짐량판정1	처짐량판정2	$\Sigma\sigma$ (kg/㎠)
450×175×t13/26	48800	330	0.0017	0.1729	1889.4	1908.3	1127.4
600×190×t13/25	94800	480	0.0046	0.2789	1723.2	1752.2	1137.9

▣ I-BEAM의 고정방법 및 사양

1. I-BEAM의 고정방법

용접구조	BOLT 체결구조	복합구조
		

2. 기본조건 및 사양

* 용접이음의 허용응력(필렛용접 효율 포함) : 560kg/㎠
* 필렛 용접효율 : 80%
* H/T BOLT의 허용 인장응력 : 2,500kg/㎠

단위: mm

정격하중(Kg)	용접구조		BOLT 체결구조
	최소 용접두께	최소 용접길이	최소 BOLT SIZE
20000	100	420	M24 x 4set

단, 적용 I-BEAM 600×190×t13/25 의 경우임

※강도계산서 참조

[I-BEAM 고정볼트 강도 및 용접강도 계산서]

1) I-BEAM 고정방법중 BOLT구조의 강도 계산
[H/T BOLT의 허용인장응력 : 2500 kg/㎠]

☞ 작용하중 계산

$P = \Psi \times (Q+Q1) + \phi \times Q2$

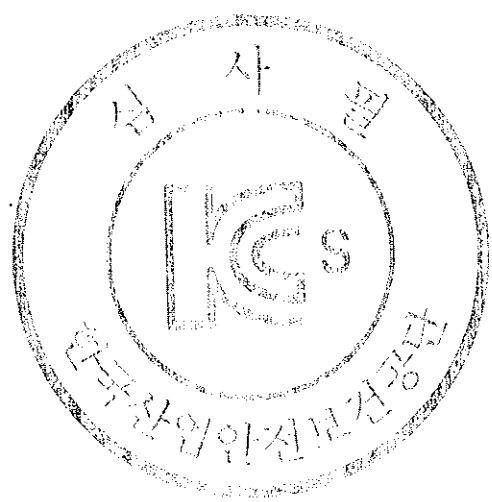
충격계수 Ψ =	1.1
작업계수 ϕ =	1.08
정격하중 Q =	20000
HOIST자중 Q1 =	3670

☞ BOLT 1 개당 인장강도 계산

$$\sigma = \frac{P}{A} = 4 \times \frac{P}{(\pi \times d2 \times z)}$$

※ 판정기준: $\sigma < 2500$ kg/㎠

BEAM 규격	BEAM자중 (kg)	하중 P(kg)	BOLT 규격	BOLT수	BOLT 단면적 (㎠)	BOLT강도
450×175×t13/26	379.5	26446.9	M24	4	4.52	1462.8
600×190×t13/25	638.4	26726.5	M24	4	4.52	1478.2



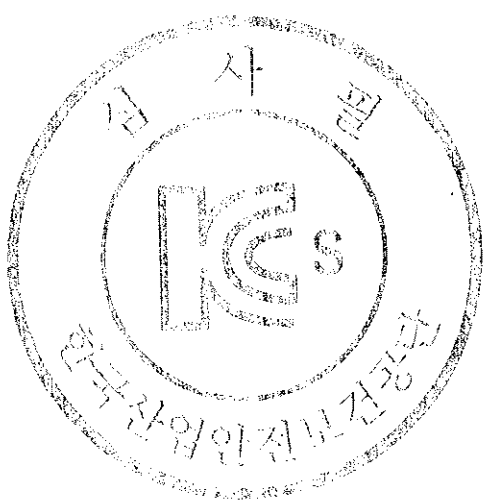
2) I-BEAM 고정방법중 용접구조의 강도 계산
[용접이음의 허용응력: 560 kg/㎠]

☞ 용접강도 계산

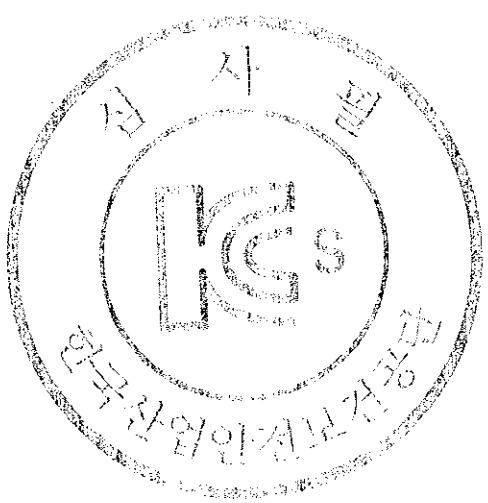
$$\sigma w = \frac{P}{0.707 \times t \times 2 \times l} \quad kg/㎠$$

※ 판정기준: σw < 560 kg/㎠

BEAM 규격	하중 P(kg)	용접두께 t(cm)	용접길이 l(cm)	용접강도 σw(kg/㎠)
450×175×t13/26	26446.9	1	42	445.3
600×190×t13/25	26726.5	1	42	450



4. 참 고 도 서



LOAD LIMITER 권고 SETTING치

코포모테크(주)

* POWER SOURCE : AC 3¢ 220V 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%				
C15 TON	13KW x 8P	110%	1 SEC	1 SEC	59.0 A	64.0 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.7 A	CT-2	K-K1, L-L1	5 V.A	
C20 TON	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	81.9 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.7 A	CT-2	K-K1, L-L1	5 V.A	
C30 TON	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	81.9 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.7 A	CT-2	K-K1, L-L1	5 V.A	
C35 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
C40 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
C50 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
C60 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
C70 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

코포모테크(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%				
C15 TON	13KW x 8P	110%	1 SEC	1 SEC	35.0 A	37.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.9 A	CT-2	K-K1, L-L1	5 V.A	
C20 TON	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	48.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.9 A	CT-2	K-K1, L-L1	5 V.A	
C30 TON	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	48.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.9 A	CT-2	K-K1, L-L1	5 V.A	
C35 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
C40 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
C50 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
C60 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
C70 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 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

코포모테크(주)

* POWER SOURCE : AC 3¢ 440V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C15 TON	13KW x 8P	110%	1 SEC	1 SEC	29.5 A	32.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C20 TON	17KW x 8P	110%	1 SEC	1 SEC	38.3 A	42.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C30 TON	17KW x 8P	110%	1 SEC	1 SEC	38.3 A	42.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C35 TON	33KW x 6P	110%	1 SEC	1 SEC	63.3 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
C40 TON	33KW x 6P	110%	1 SEC	1 SEC	63.3 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
C50 TON	33KW x 6P	110%	1 SEC	1 SEC	63.3 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
C60 TON	33KW x 6P	110%	1 SEC	1 SEC	63.3 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
C70 TON	33KW x 6P	110%	1 SEC	1 SEC	63.3 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

코포모테크(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%				
C15 TON	13KW x 8P	110%	1 SEC	1 SEC	28.4 A	31.3 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C20 TON	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.4 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.3 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C30 TON	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.4 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C35 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
C40 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
C50 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
C60 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
C70 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 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

코포모테크(주)

* POWER SOURCE : AC 3¢ 480V 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%				
C15 TON	13KW x 8P	110%	1 SEC	1 SEC	27.2 A	30.0 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C20 TON	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	38.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.1A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C30 TON	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	38.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	7.0 A	CT-2	K-K1, L-L1	5 V.A	
C35 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
C40 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
C50 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
C60 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
C70 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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E.O.C.R 권고 SETTING치

코포모테크(주)

* POWER SOURCE : AC 3Φ 220V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C15 TON	13KW x 8P	59.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	59.0 A	
	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
C20 TON	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 A	
	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
C30 TON	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 A	
	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
C35 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
C40 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
C50TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
C60 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
C70 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	

NOTE

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E.O.C.R 권고 SETTING치

코포모테크(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	
C15 TON	13KW x 8P	35.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.0 A	
	1.8KW x 8P	6.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
C20 TON	17KW x 8P	44.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.3 A	
	1.8KW x 8P	6.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
C30 TON	17KW x 8P	44.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.3 A	
	1.8KW x 8P	6.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
C35 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
C40 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
C50 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
C60 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
C70 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	

NOTE

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E.O.C.R 권고 SETTING치

코포모테크(주)

* POWER SOURCE : AC 3¢ 440V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C15 TON	13KW x 8P	29.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.5 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C20 TON	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C30 TON	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C35 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
C40 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
C50 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
C60 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
C70 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	3.7KW x 4P	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

코포모테크(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	
C15 TON	13KW x 8P	29.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.5 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C20 TON	17KW x 8P	36.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C30 TON	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C35 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
C40 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
C50 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
C60 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
C70 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	

NOTE

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

E.O.C.R 권고 SETTING치

코포모테크(주)

* POWER SOURCE : AC 3¢ 480V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C15 TON	13KW x 8P	29.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.5 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C20 TON	17KW x 8P	35.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	1.8KW x 8P	5.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C30 TON	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
C35 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C40 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C650 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C60 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C70 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 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	200 L
4. RATED POWER	17 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	76.6 A
12. LOCKED ROTOR CURRENT	455.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	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	200 L
4. RATED POWER	17 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	44.3 A
12. LOCKED ROTOR CURRENT	263.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
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	200 L
4. RATED POWER	17 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	38.3 A
12. LOCKED ROTOR CURRENT	228 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
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	200 L
4. RATED POWER	17 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	36.7 A
12. LOCKED ROTOR CURRENT	218.4 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T.E.F.C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
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	200 L
4. RATED POWER	17 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	35.2 A
12. LOCKED ROTOR CURRENT	209.3 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	850 RPM
11. FULL LOAD CURRENT	11.0 A
12. LOCKED ROTOR CURRENT	55.0 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	6.93 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206 zz , OPL : 6206 zz
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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	6.4 A
12. LOCKED ROTOR CURRENT	31.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	6.93 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206 zz , OPL : 6206zz
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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	5.5 A
12. LOCKED ROTOR CURRENT	27.5 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	6.93 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206 zz , OPL : 6206 zz
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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	5.3 A
12. LOCKED ROTOR CURRENT	26.5 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	6.93 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206 zz , OPL : 6206 zz
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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	855 RPM
11. FULL LOAD CURRENT	5.1 A
12. LOCKED ROTOR CURRENT	25.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	6.93 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206 zz , OPL : 6206 zz
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 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	7.3 A
12. LOCKED ROTOR CURRENT	42 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	69 %
15. POWER FACTOR AT 100% RATED LOAD	78 %
16. FULL LOAD TORQUE	1.73 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 TEMPTURE	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 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	4.2 A
12. LOCKED ROTOR CURRENT	24.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	69 %
15. POWER FACTOR AT 100% RATED LOAD	78 %
16. FULL LOAD TORQUE	1.73 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 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	3.7 A
12. LOCKED ROTOR CURRENT	21 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	69 %
15. POWER FACTOR AT 100% RATED LOAD	78 %
16. FULL LOAD TORQUE	1.73 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	3.5 A
12. LOCKED ROTOR CURRENT	19.9 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	69 %
15. POWER FACTOR AT 100% RATED LOAD	78 %
16. FULL LOAD TORQUE	1.73 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 TEMPERATURE	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 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	3.4 A
12. LOCKED ROTOR CURRENT	19.3 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	69 %
15. POWER FACTOR AT 100% RATED LOAD	78 %
16. FULL LOAD TORQUE	1.73 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	90 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	1128 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	67 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.1 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	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	90 L
4. RATED POWER	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	1128 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	67 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.1 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 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	1128 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	67 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.1 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 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	1128 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	67 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.1 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 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	1128 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	67 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.1 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	112 S
4. RATED POWER	1.5/0.75 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1670/815 RPM
11. FULL LOAD CURRENT	7.2/6.2 A
12. LOCKED ROTOR CURRENT	35.6/21.7 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	69.5/63.0 %
15. POWER FACTOR AT 100% RATED LOAD	74.0/50.0 %
16. FULL LOAD TORQUE	1.48/1.22 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 O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERE	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	112 S
4. RATED POWER	1.5/0.75 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1670/815 RPM
11. FULL LOAD CURRENT	4.17/3.59 A
12. LOCKED ROTOR CURRENT	20.6/12.56 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	69.5/63.0 %
15. POWER FACTOR AT 100% RATED LOAD	74.0/50.0 %
16. FULL LOAD TORQUE	1.48/1.22 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 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	112 S
4. RATED POWER	1.5/0.75 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1670/815 RPM
11. FULL LOAD CURRENT	3.6/3.1 A
12. LOCKED ROTOR CURRENT	17.8/10.85 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	69.5/63.0 %
15. POWER FACTOR AT 100% RATED LOAD	74.0/50.0 %
16. FULL LOAD TORQUE	1.48/1.22 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 O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	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	112 S
4. RATED POWER	1.5/0.75 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1670/815 RPM
11. FULL LOAD CURRENT	3.59/3.1 A
12. LOCKED ROTOR CURRENT	17.7/10.84 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	69.5/63.0 %
15. POWER FACTOR AT 100% RATED LOAD	74.0/50.0 %
16. FULL LOAD TORQUE	1.48/1.22 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 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	112 S
4. RATED POWER	1.5/0.75 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1670/815 RPM
11. FULL LOAD CURRENT	3.5/3.0 A
12. LOCKED ROTOR CURRENT	17.5/10.76 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	69.5/63.0 %
15. POWER FACTOR AT 100% RATED LOAD	74.0/50.0 %
16. FULL LOAD TORQUE	1.48/1.22 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	1.0/0.5 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	7.1/7.5 A
12. STARTING CURRENT AT RATED VOLTAGE	28.3/22.5 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	59.5/35.0 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/54.0 %
16. STARTING TORQUE	1.67/1.48 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 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	112 S
4. RATED POWER	1.0/0.5 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	4.1/4.3 A
12. STARTING CURRENT AT RATED VOLTAGE	16.4/13.0 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	59.5/35.0 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/54.0 %
16. STARTING TORQUE	1.67/1.48 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 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	112 S
4. RATED POWER	1.0/0.5 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.5/3.7 A
12. STARTING CURRENT AT RATED VOLTAGE	14.2/12.3 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	59.6/35.0 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/54.0 %
16. STARTING TORQUE	1.67/1.48 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 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	112 S
4. RATED POWER	1.0/0.5 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.4/3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	13.5/10.8 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	59.5/35.0 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/54.0 %
16. STARTING TORQUE	1.67/1.48 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 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	112 S
4. RATED POWER	1.0/0.5 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.2/3.4 A
12. STARTING CURRENT AT RATED VOLTAGE	13.0/10.3 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	59.5/35.0 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/54.0 %
16. STARTING TORQUE	1.67/1.48 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 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

KISWIRE

ORIGINAL

CERT NO. 200704WRS59100 DATE *Jan. 22, 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 - 2002 (B Grade)

TO MESSRS

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06 X 37 + FC 1000 M X 5 REEL

EX NO.

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

DIAMETER OF ROPE 22.400 mm TYPE OF CORE Fiber Core

SPECIFIED BREAKING LOAD 284.00 kN SAMPLE BROKE AT 294.20 kN

WT. OF ZINC COATING OF OUTER WIRE MIN. 0.000 g/m'

ROPE LAY RHRL LAY LENGTH 144.1 mm

LUBRICATION A-2

CHEMICAL ANALYSIS OF WIRE ROD

CHARGE NO.	C X 100	Si X 100	Mn X 100	P X 1000	S X 1000
SA61155	71	21	69	11	4

DATE OF SAMPLE TEST *Jan. 12, 2010*

Approved by Q.C Manager H.S. BANG
KISWIRE LTD., KOREA

KS JIS API ABS KR NK. G.Lloyd's DNV L.R BV