제 2010 - 57119 호

안 전 인 증 서

극동호이스트(주)

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

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

품 목

호이스트

형식,모델(용량,등급)/인증번호

KD2.8-L6-L (2.8Ton) /10-AQ2AC-05378

인 증 기 준

노동부 고시 제2010 - 12호 (위험기계,기구 의무안전인증 고시)

인 증 조 건

2010 년 06 월 16 일

한국산업안전보건공단 이사장

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 성곡동 630-2 반월공단 B-607-14		
	대표자 성명	최성찬		
안전인증대상 기계 · 기구명		호이스트		
형 식 (규 격)		KD2.8-L6-L (106MN28L110)	용 량 (등 급)	2.8 Ton
인 증 심 사 원		조봉희 (서명)		

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한 제품심사(형식별) 결과가 적합 함을 통지합니다.

2010 년 06 월 16 일

한국산업안전보건공단 경기서부지도원장

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 성곡동 630-2 반월공단 B-607-14		
	대표자 성명	최성찬		
안전인증대상 기계 · 기구명		호이스트		
형 식 (규 격)		KD2.8-L6-L	용 량 (등 급)	2.8 Ton
인 증 심 사 원		이영진 황준섭		

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

2010 년 04 월 20 일

한국산업안전보건공단 서울지역본부장

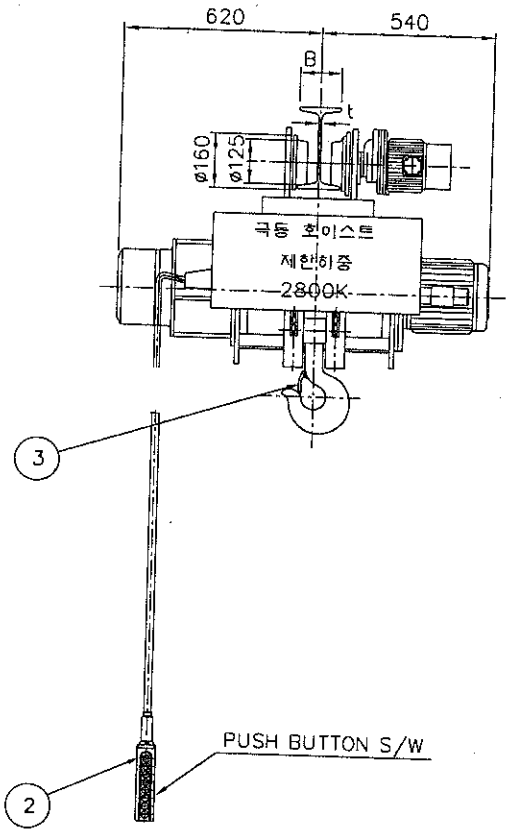
심 사 결 과 통 지 서

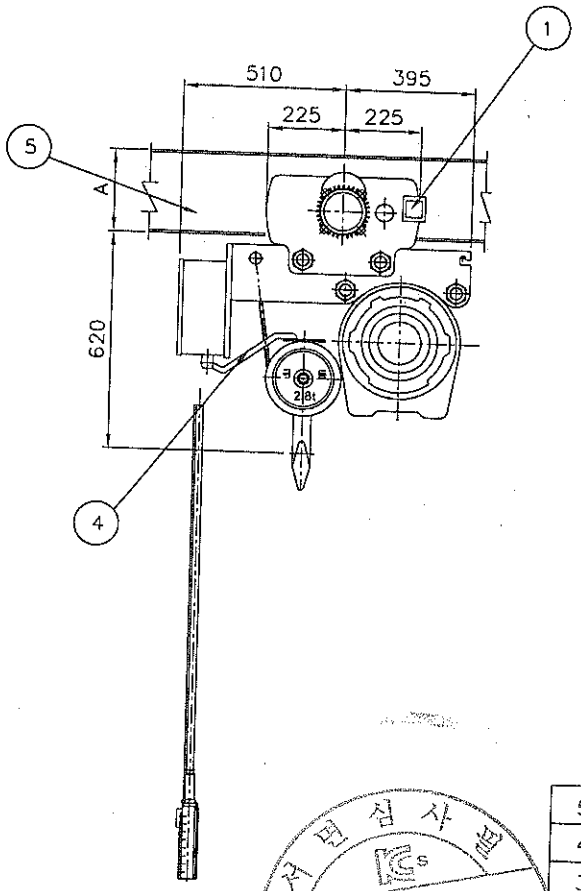
신청인	사 업 장 명	극동호이스트(주)	사업장관리번호 (사업자등록번호)	134-81-013350 134-81-01335
	소 재 지	(425 - 833) 경기도 안산시 성곡동 630-2 반월공단 B-607-14		
	대표자 성명	최성찬		
안전인증대상 기계 · 기구명		호이스트		
형 식 (규 격)		KD2.8-L9-L	용 량 (등 급)	2.8 Ton
인 증 심 사 원		이영진 황준섭		

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

2010 년 04 월 20 일

한국산업안전보건공단 서울지역본부장





SPECIFICATION			
RATED LOAD			2800 KG
TESTING LOAD			3500 KG
LIFT			6 M
RATING			30 MIN
HOISTING	HIGH	SPEED	9 M/MIN
		MOTOR	5.0 KW x 4 P
	LOW	SPEED	4.5 M/MIN
		MOTOR	2.5 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.75 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.5 KW x 6 P
	DUAL HIGH	SPEED	24/12 M/MIN
		MOTOR	0.8/0.4 KW x 4/8 P
	DUAL LOW	SPEED	16/8 M/MIN
		MOTOR	0.5/0.25 KW x 6/12 P
WIRE ROPE			(6x37) ø9 x 4 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)V 60Hz
COLOR			10 B 3/5
WEIGHT			440 KG

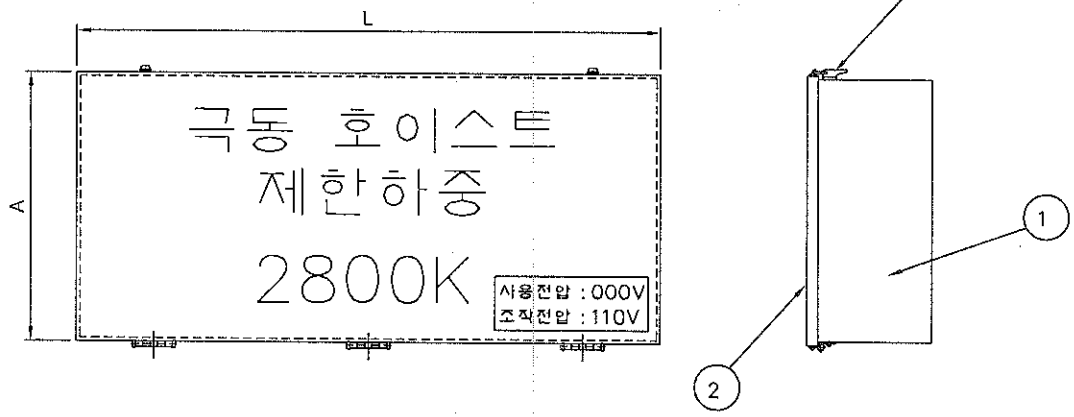
NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
5	I-BEAM	SS400		-			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SPC		1			
2	EMERGENCY S/W	—		1			
1	LOAD LIMITER	—		1			

TRAVERSING I- BEAM A x B x t	Ix (Cm^4)	Zx (Cm^3)	SUPPORT LENGTH
I 250 x 125 x 7.5	5180	414	MAX. 3.6M
I 300 x 150 x 10	12700	849	MAX. 5.7M
I 350 x 150 x 9	15200	871	MAX. 6.2M
I 400 x 150 x 10	24000	887	MAX. 7.8M
I 450 x 175 x 11	3920	1740	MAX. 10M

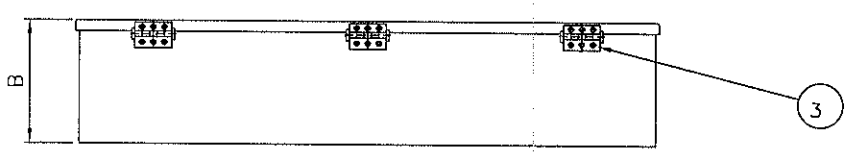
PROJECT		DATE
		20 . . .
TITLE	KD2.8L- H/L 6 - H/L TS ARRANGEMENT DRAWING FOR HOIST	SCALE A3/20 /
DRAWN / DESIGNED / CHECKED / APPROVED		REF DRAWING
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET NO.	DRAWING NO. KD28L - 6000

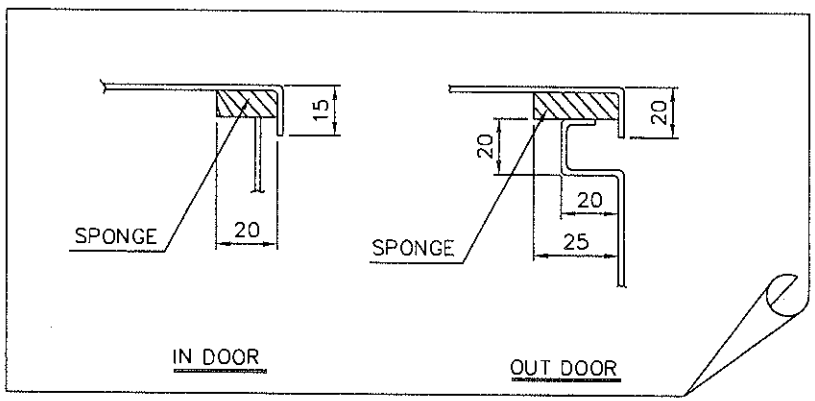
KD28EB00

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'	





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

N O T E

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 개방 구조는 다음과 같다.

1) 외함 개방시 충전부 부분이 차단되도록 한다.

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

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER	
DRAWING TITLE	HOISTING CONTROL BOX
	LAY-OUT

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

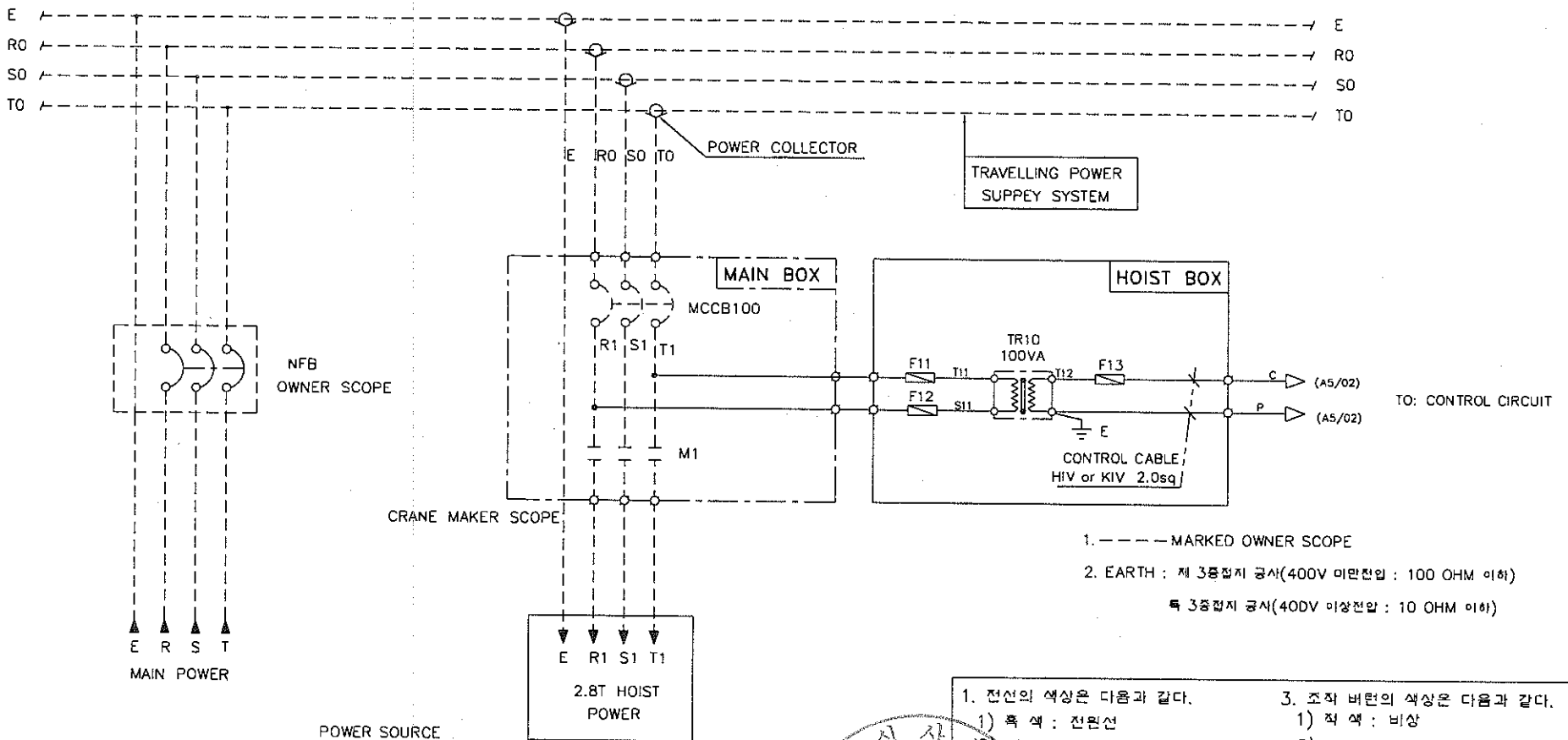
DWG. NO KD28EB00

KD28E001

POWER CIRCUIT

TRAVELLING POWER SUPPLY SYSTEM

ADR'S NO. 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 3ø 60Hz

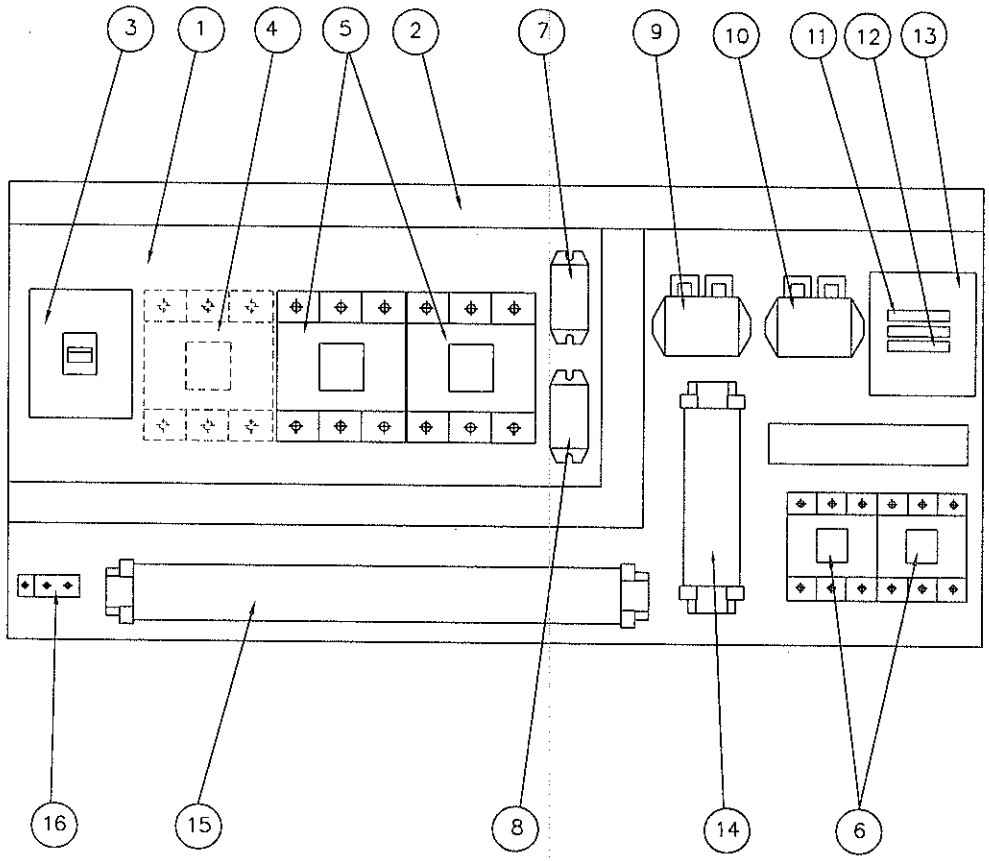
SELECTION	VOLTAGE	F11 F12	F13	MCCB100
	220V	2A	3A	53AF/40AT
	380V	1A	3A	33AF/20AT
	440V	1A	3A	33AF/20AT
	460V	1A	3A	33AF/20AT
	480V	1A	3A	33AF/20AT

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 고류제어선
   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.
4				
3				
2				
1				

		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	MAIN POWER CIRCUIT 1 DIAGRAM	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28E001	

KD28BA21



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	53AF/40AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-40P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-65P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

N O T E

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 전원선
2) 적색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.
4				
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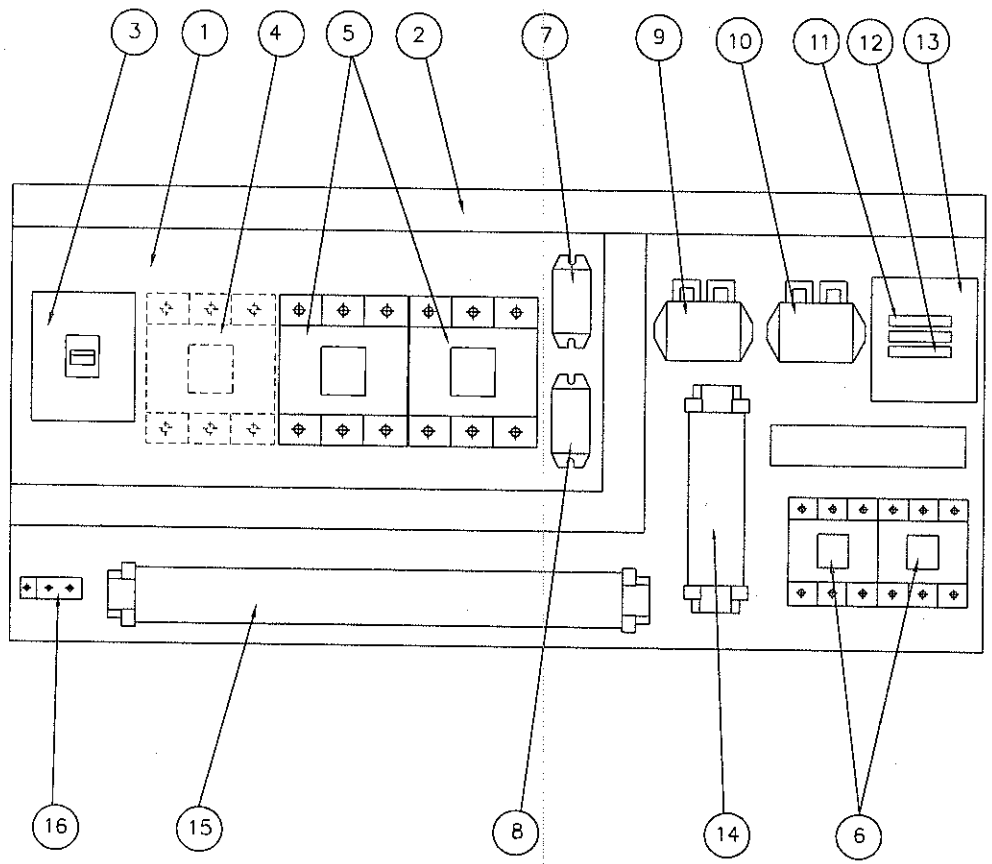
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOIST CONTROL BOX (고속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA21	

KD28BA22

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-40P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-48P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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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CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA22	

KD28E21

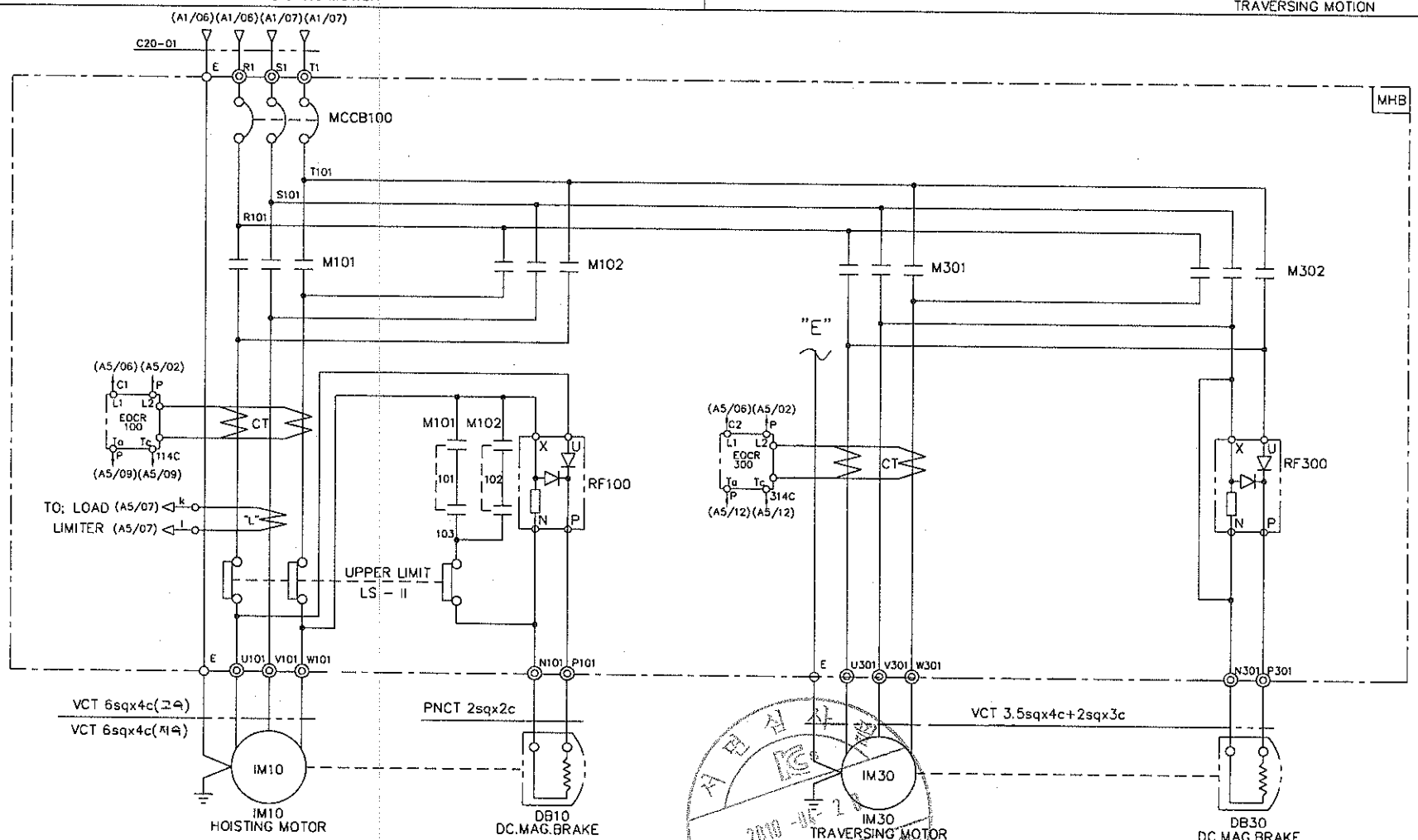
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	KUKDONG				DARYUK	WOONYOUNG	--		DARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

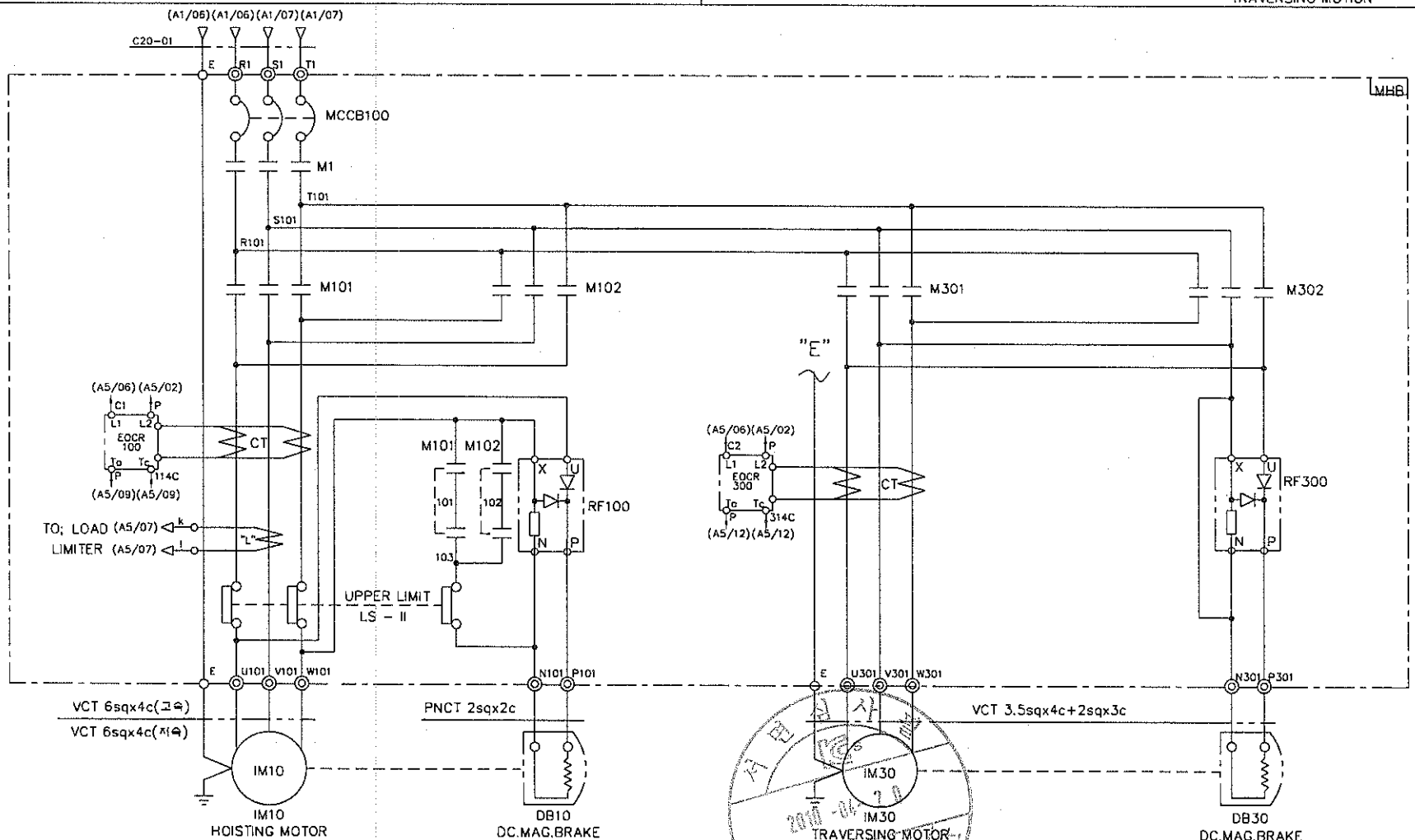
DWG. NO: KD28E21

KD28E22

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

POWER CIRCUIT — ADR'S NO. B1

HOISTING MOTION — TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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	8.5KW10 4P	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-48P	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-40P	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	KUKDONG				DARYUK	SHINWHAN	-		DARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

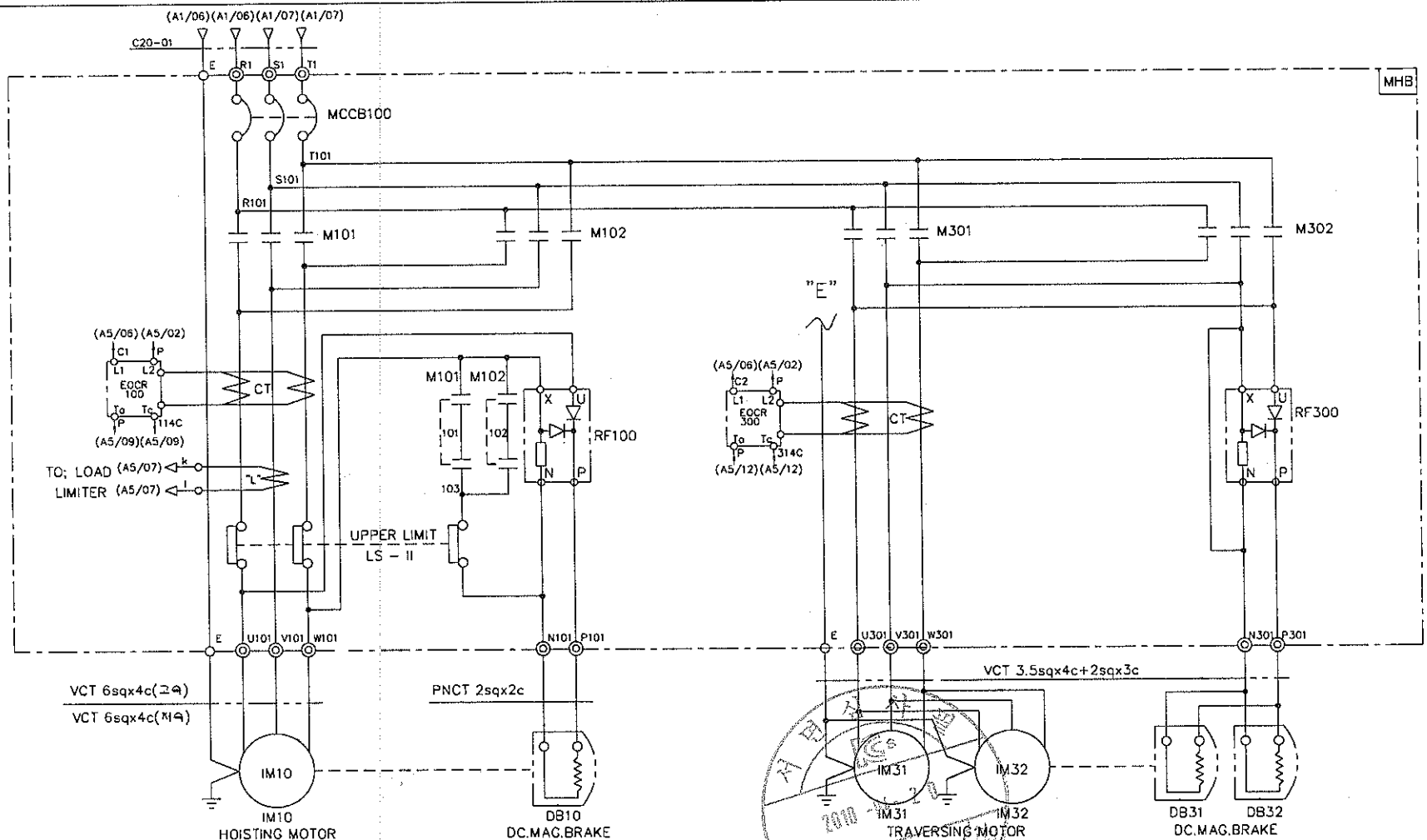
DWG. NO: KD28E22

KD28E23

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 — TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	KUKDONG				DAERYUK	SHINWHAN	-		DAERYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E23

KD28E24

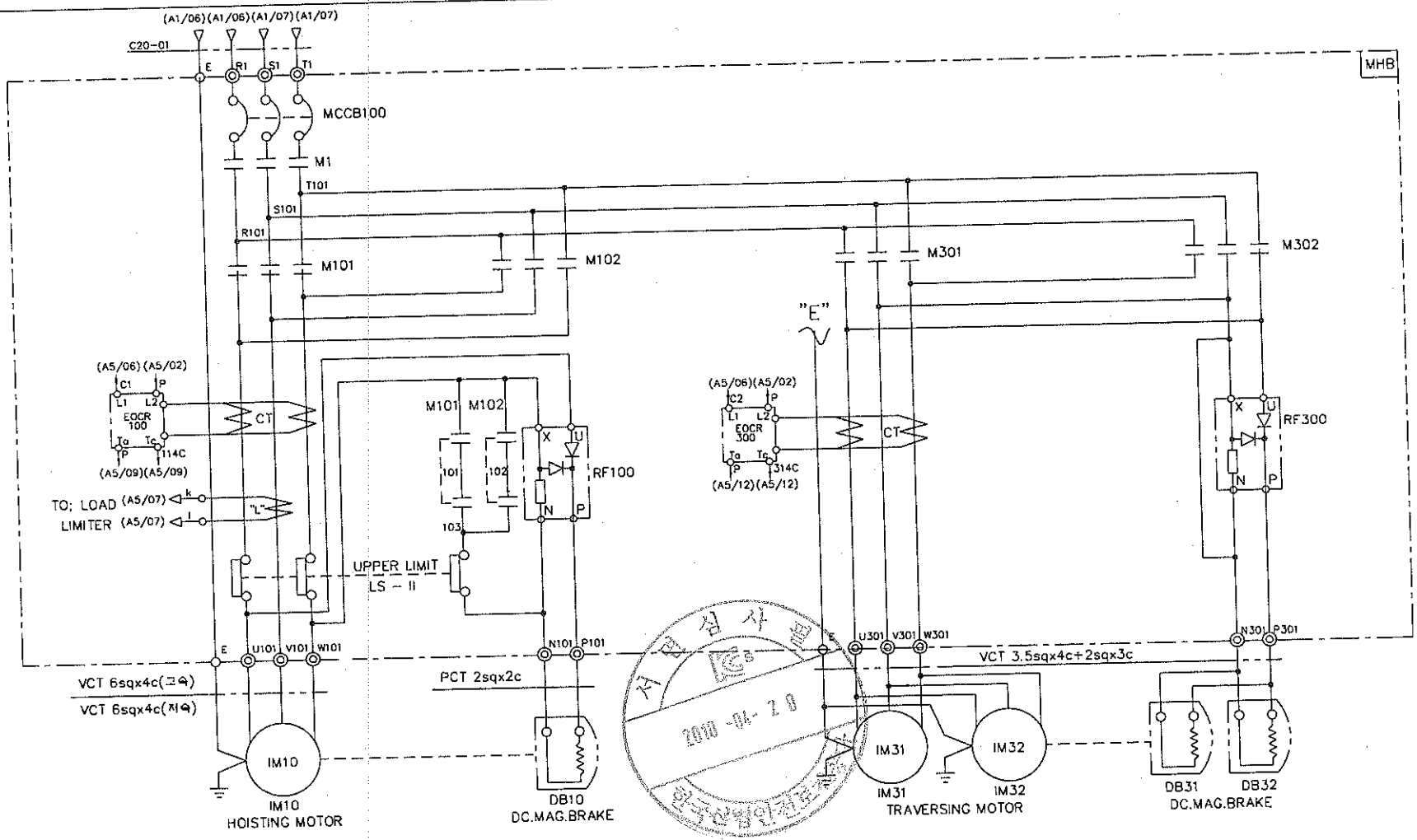
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-48P	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-40P	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	KUKDONG				DAERYUK	SHINWHAN	-		DAERYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E24

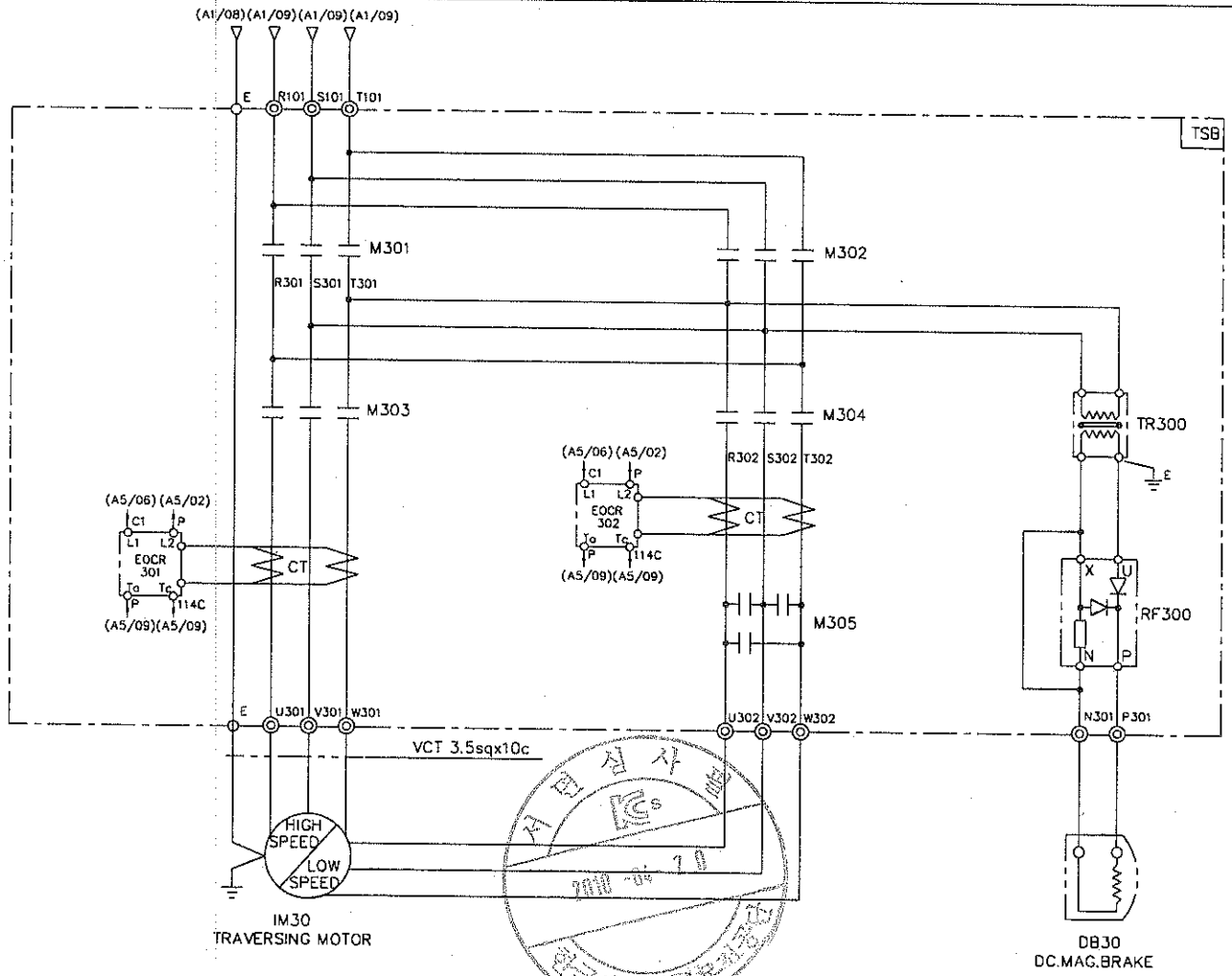
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

KD28E025

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	220V	0.5/0.25KWx6/12P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC220/220V, 300VA
	220V	0.8/0.4KWx4/8P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC220/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT DIAGRAM					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28E025	

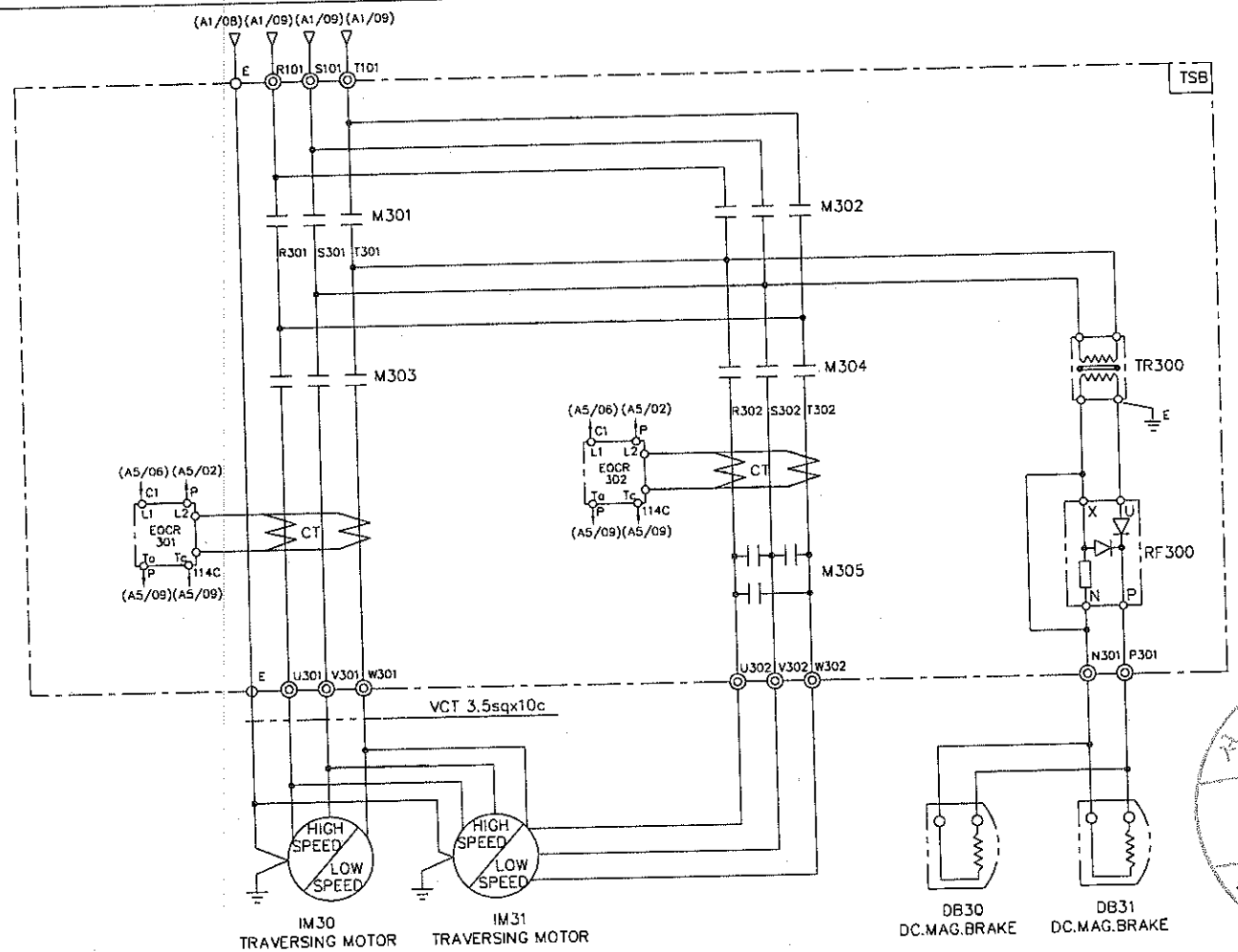
KD28E026

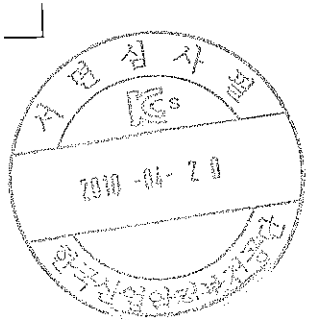
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	220V	0.5/0.25KWx6/12P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC220/220V, 300VA
	220V	0.8/0.4KWx4/8P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC220/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER

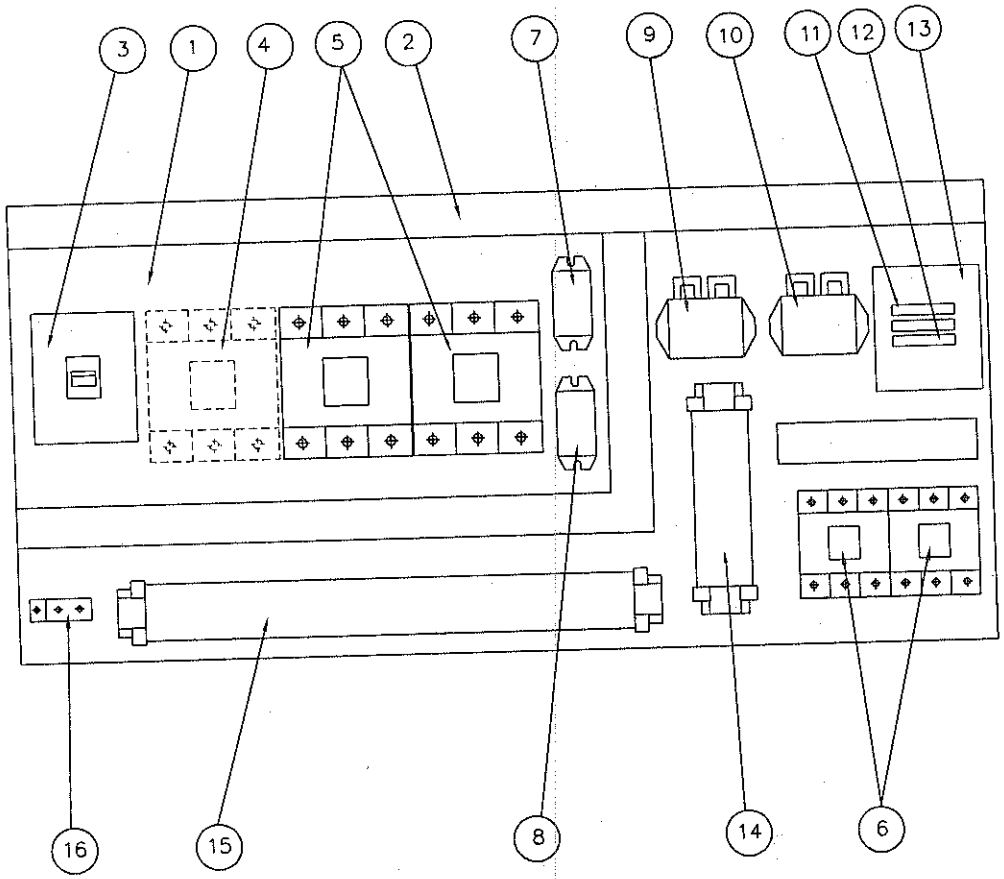
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E026

KD28BA31



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	OOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

검사필
2010 -04- 20

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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (고속)

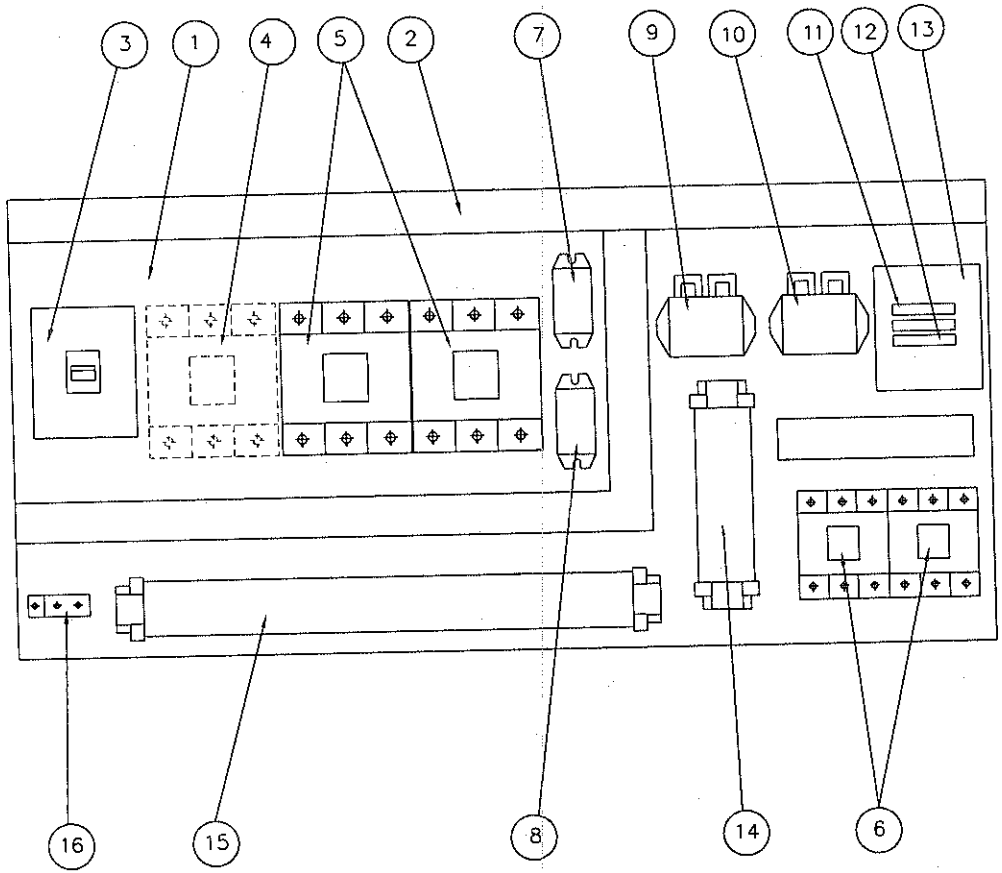
ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA31

KD28BA32



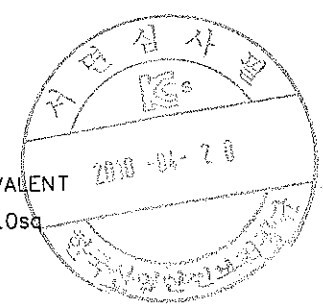
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 교류제어선
   3) 황 색 : 직류제어선
   4) 녹색 또는 녹색과 노랑 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	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA32	

KD28E31

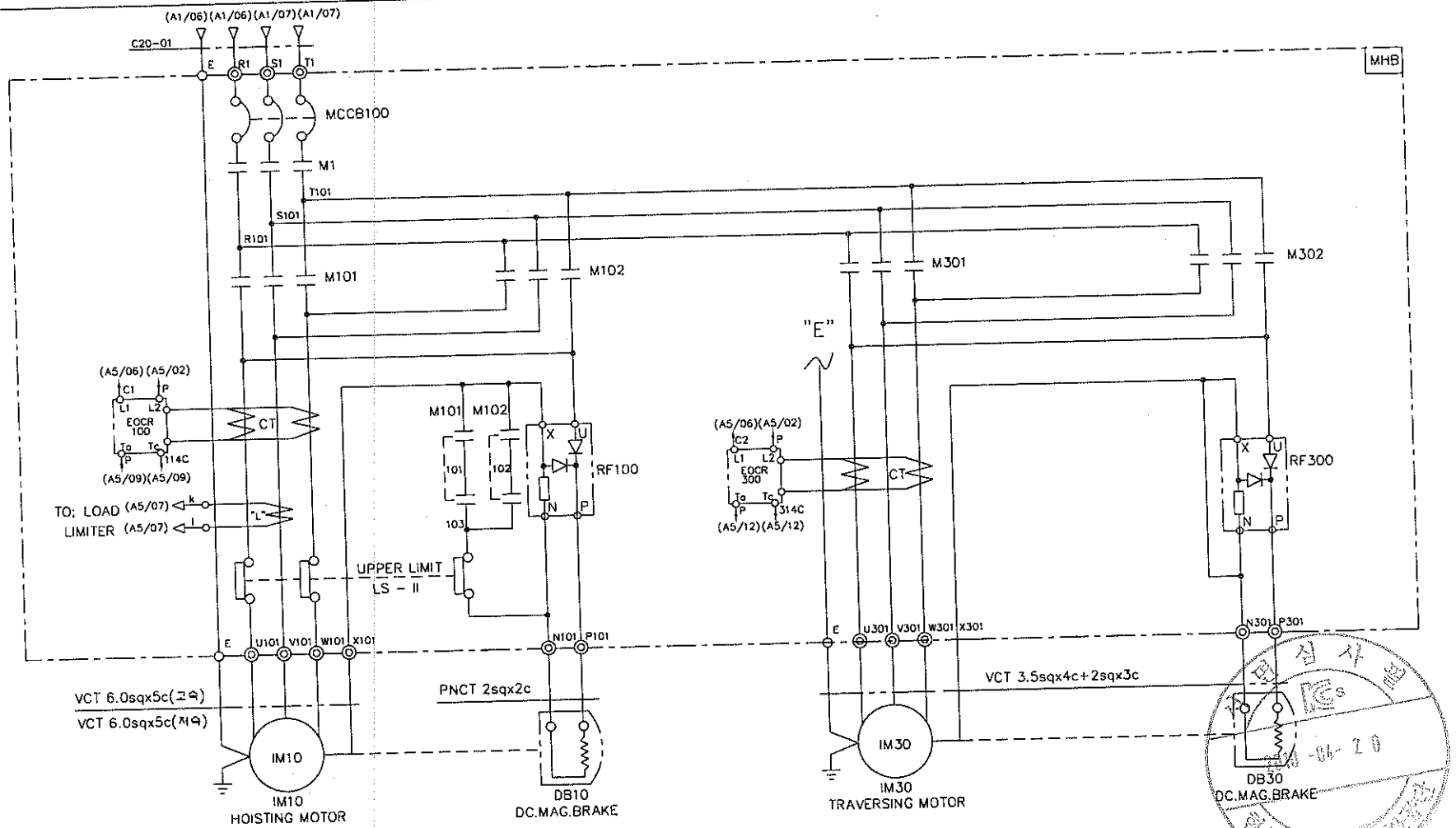
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E31

KD28E32

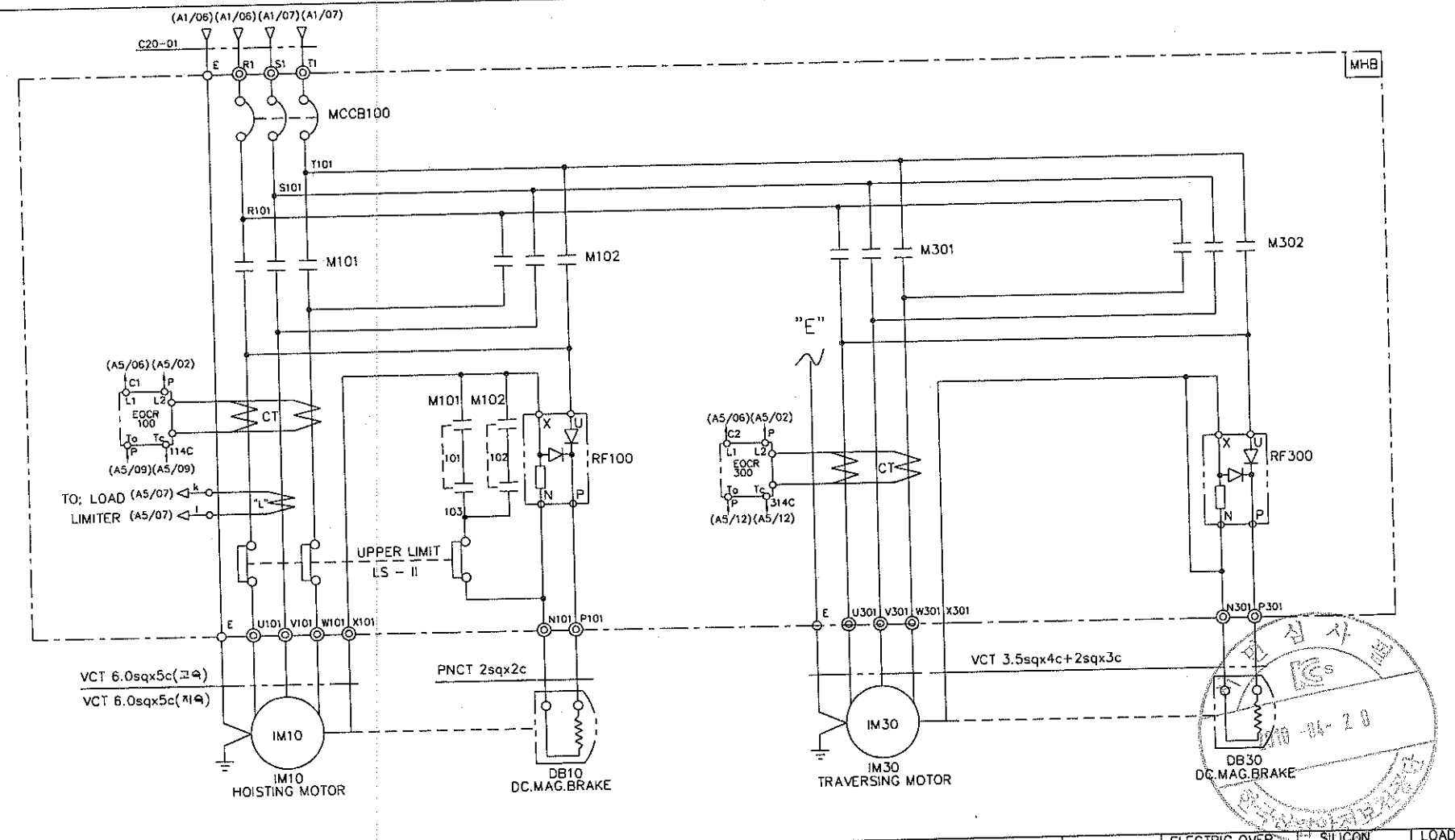
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

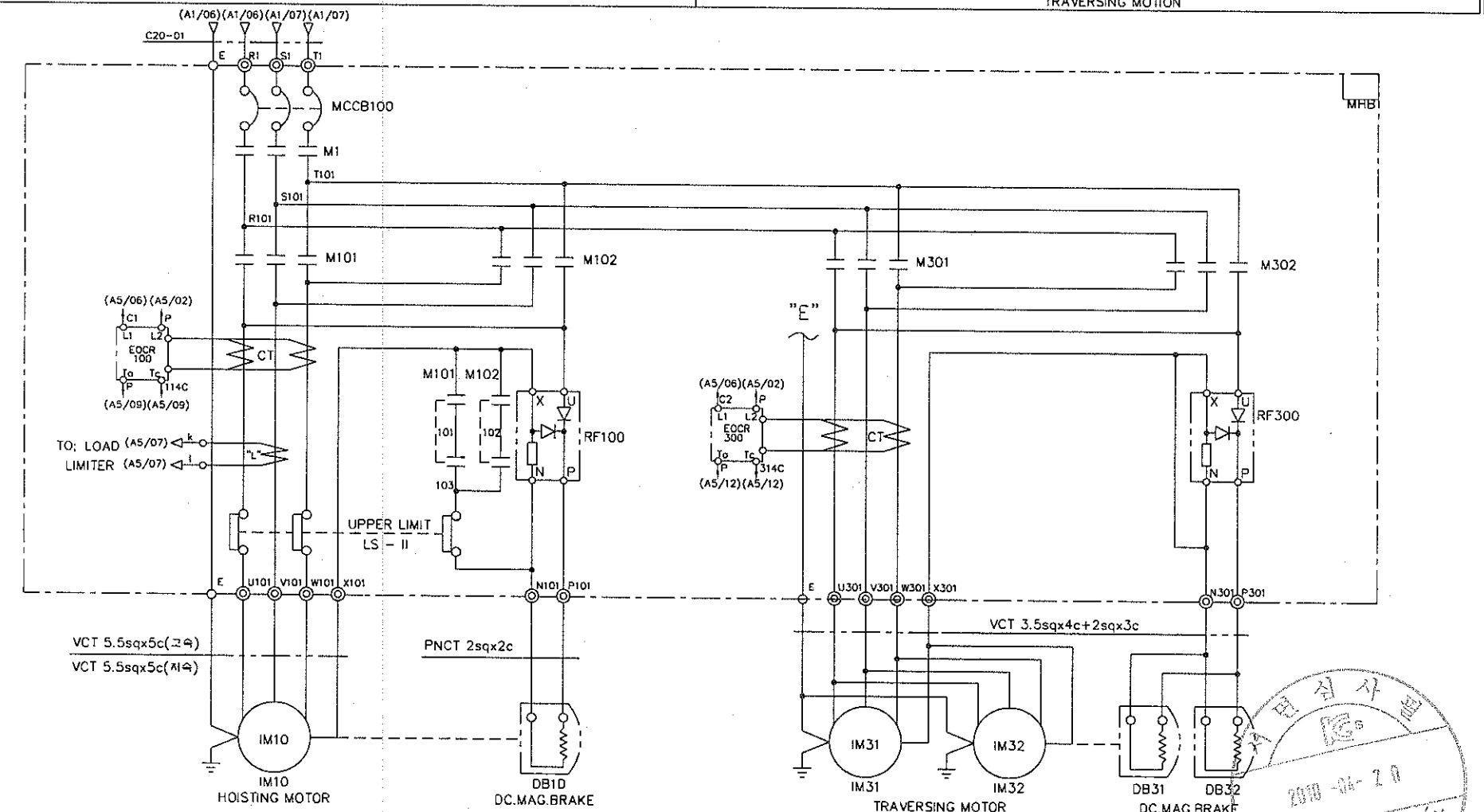
DWG. NO KD28E32

KD28E33

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION | TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E33

KD28E34

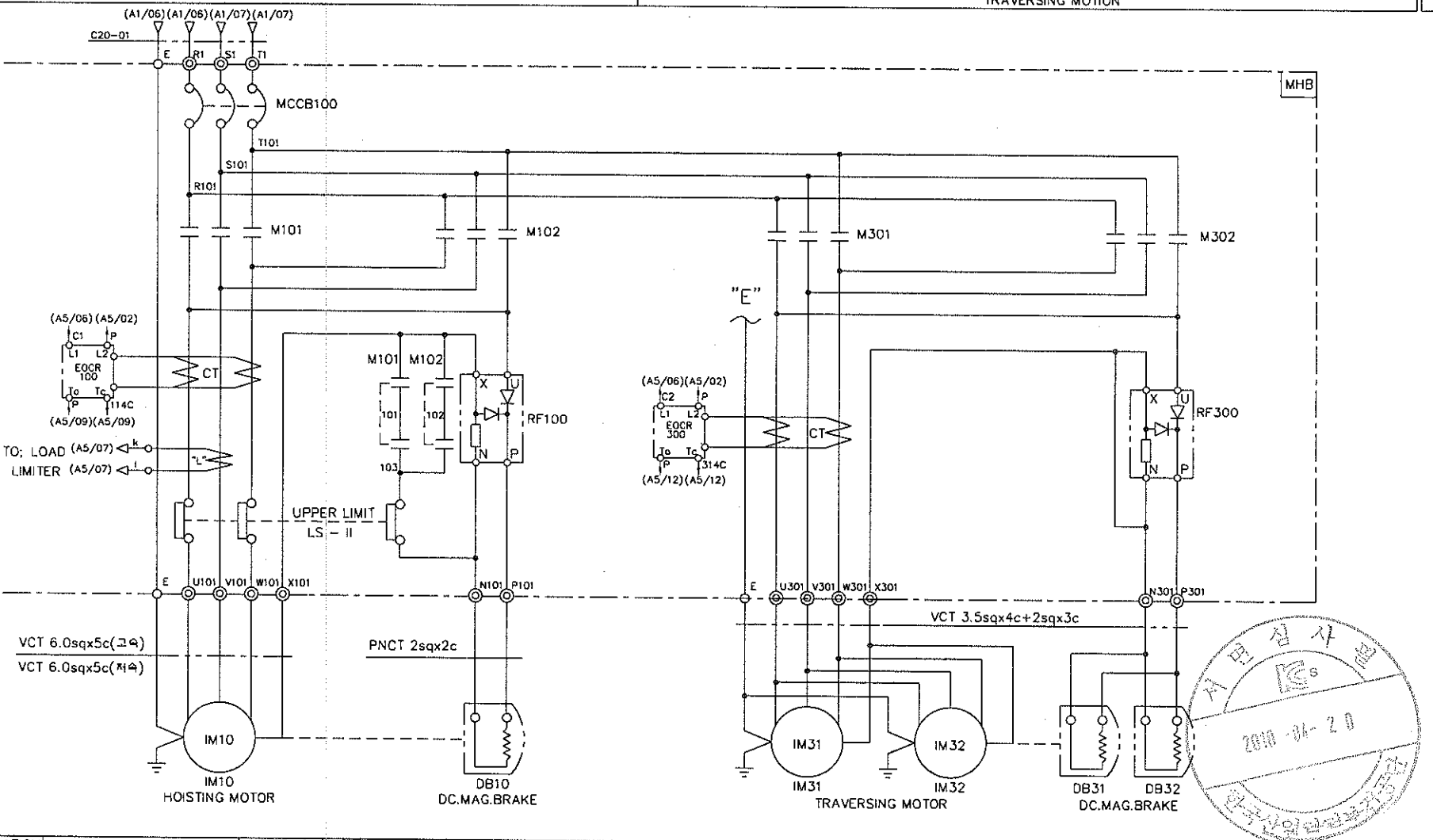
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

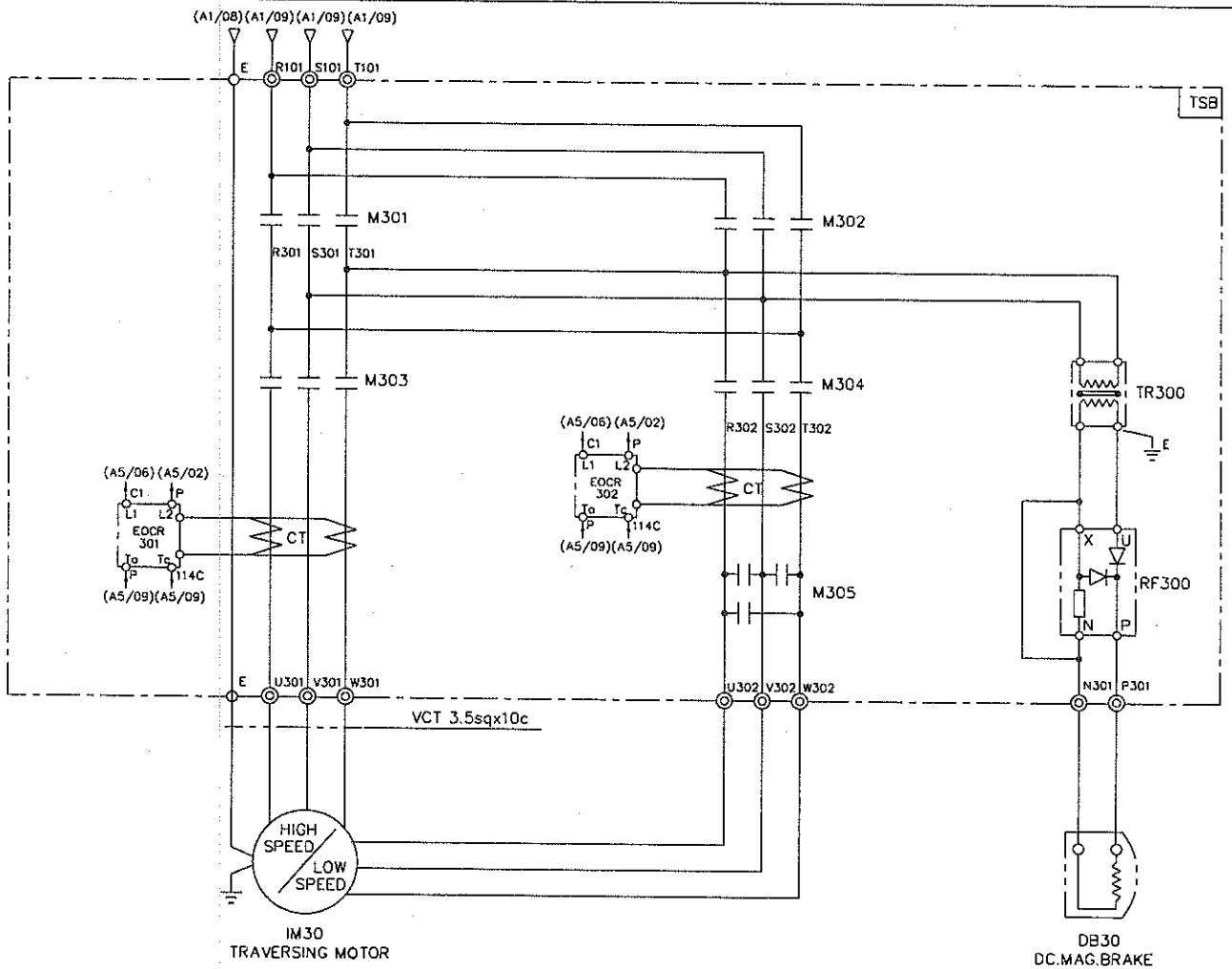
DWG. NO: KD28E34

KD28E035

POWER CIRCUIT

TRAVERSING MOTION

ADR'S NO. C2



서면심사필
KC
2018-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	380V	0.5/0254KWx6/12P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
	380V	0.8/0.4KWx4/8P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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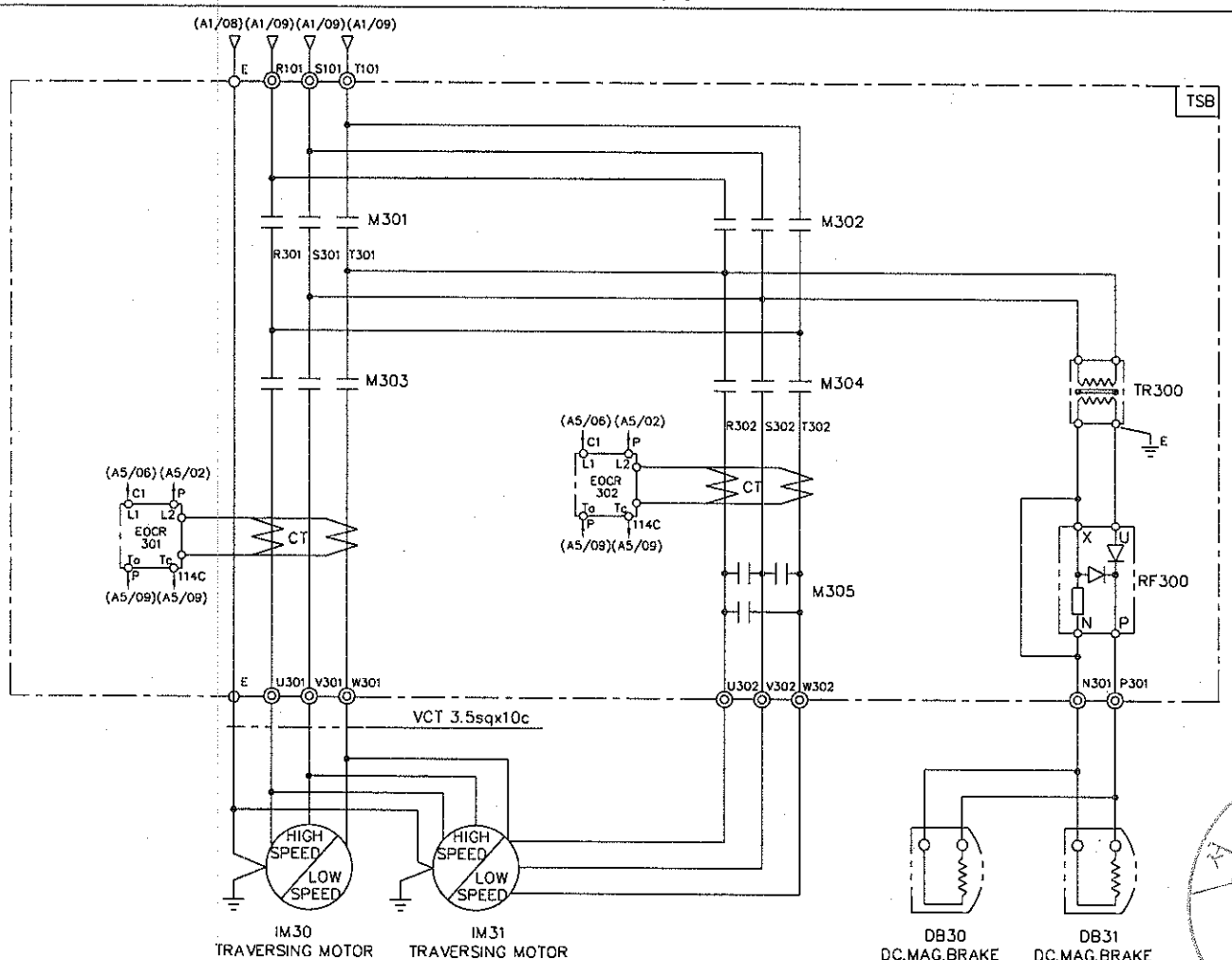
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT DIAGRAM					NONE		
	국동호이스트 주식회사 KUK DONG HOIST CO., LTD.					DWG. NO	KD28E035	

KD28E036

POWER CIRCUIT	ADR'S NO.
TRAVERSING MOTION	C2



SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	380V	0.5/0.25KWx6/12P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
	380V	0.8/0.4KWx4/8P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
SELECTION / MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

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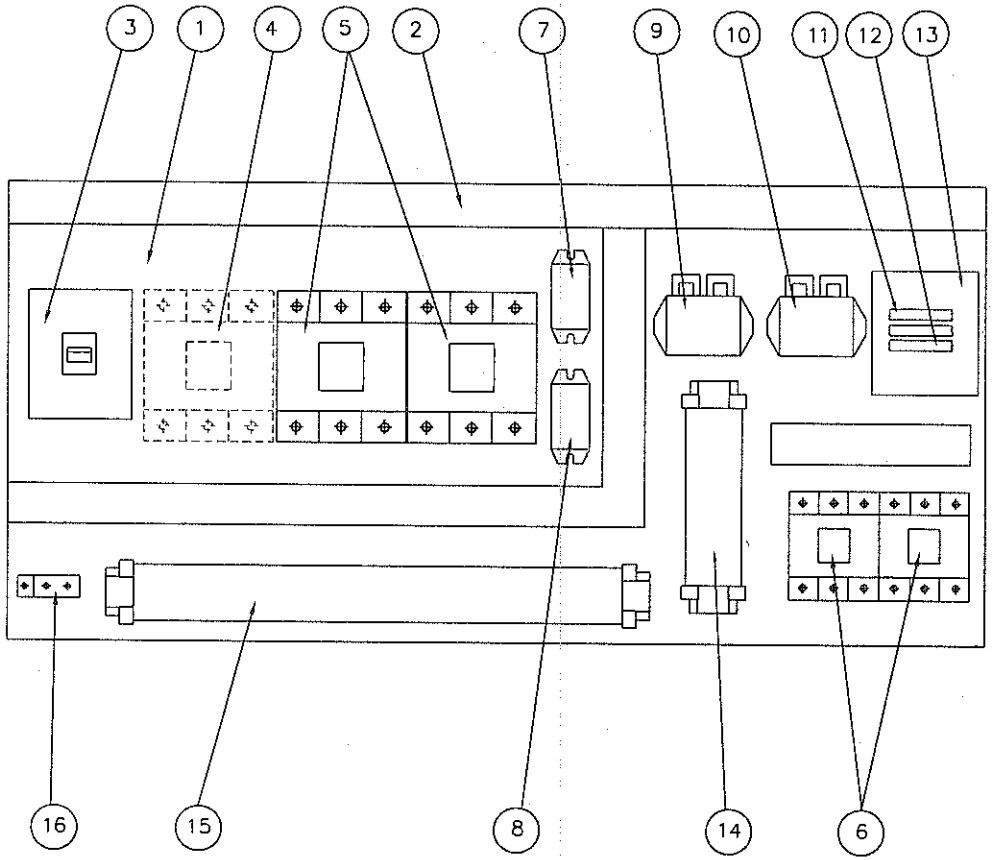
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT DIAGRAM					NONE		
	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.					DWG. NO	KD28E036	

KD28BA41



NO	DESCRIPTION	SPECIFICATION	O'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

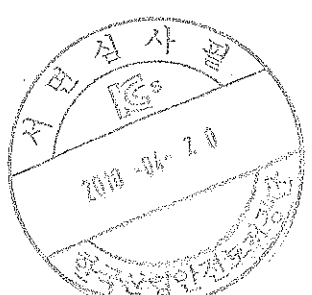
NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 황 색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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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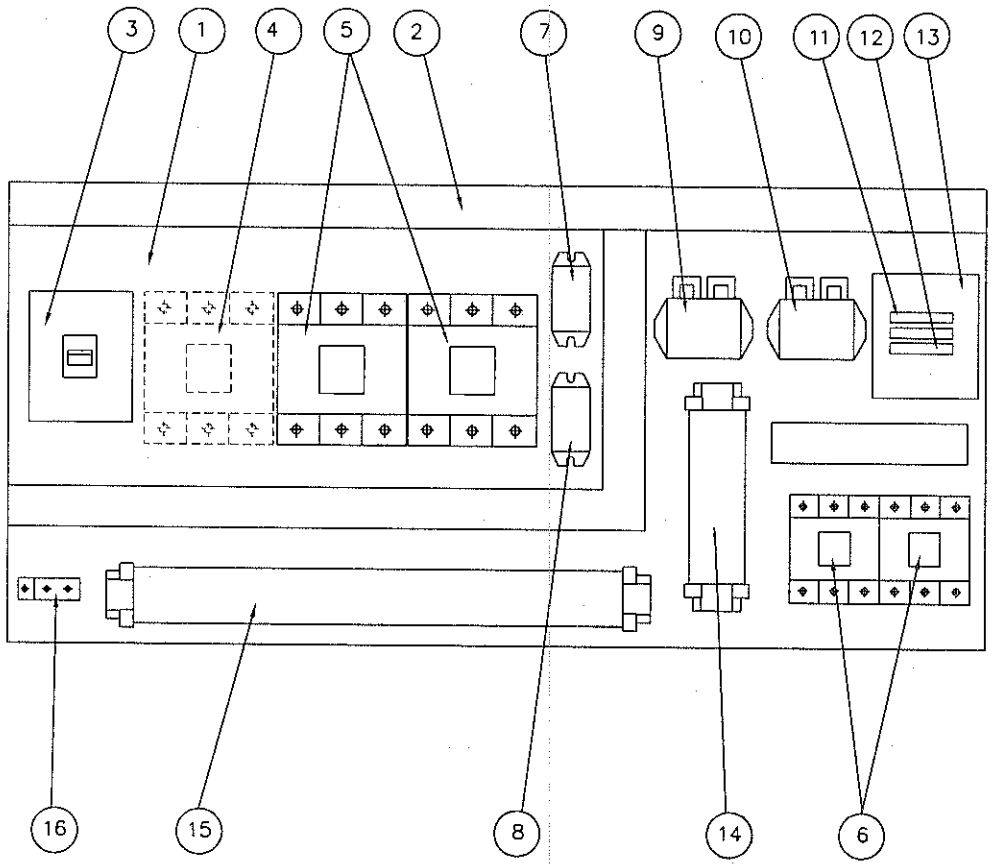
		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	HOIST CONTROL BOX (고속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA41	

KD28BA42

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	O'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 교류제어선
3) 황 색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

서면심사
2018-04-20
한국산업안전보건공단

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CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA42	

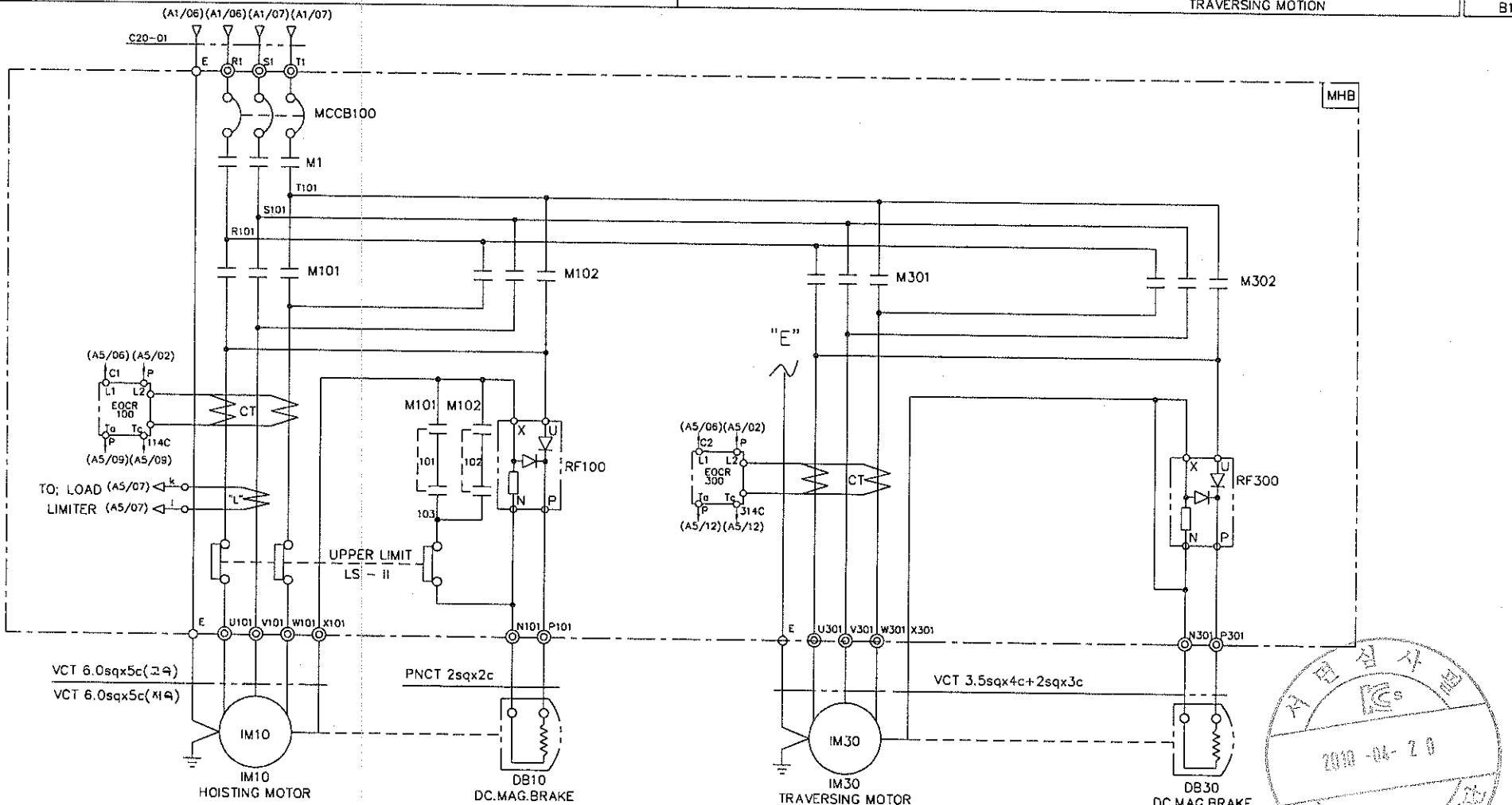
KD28E41

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 | TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	--		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E41

2010 -04- 20

KD28E42

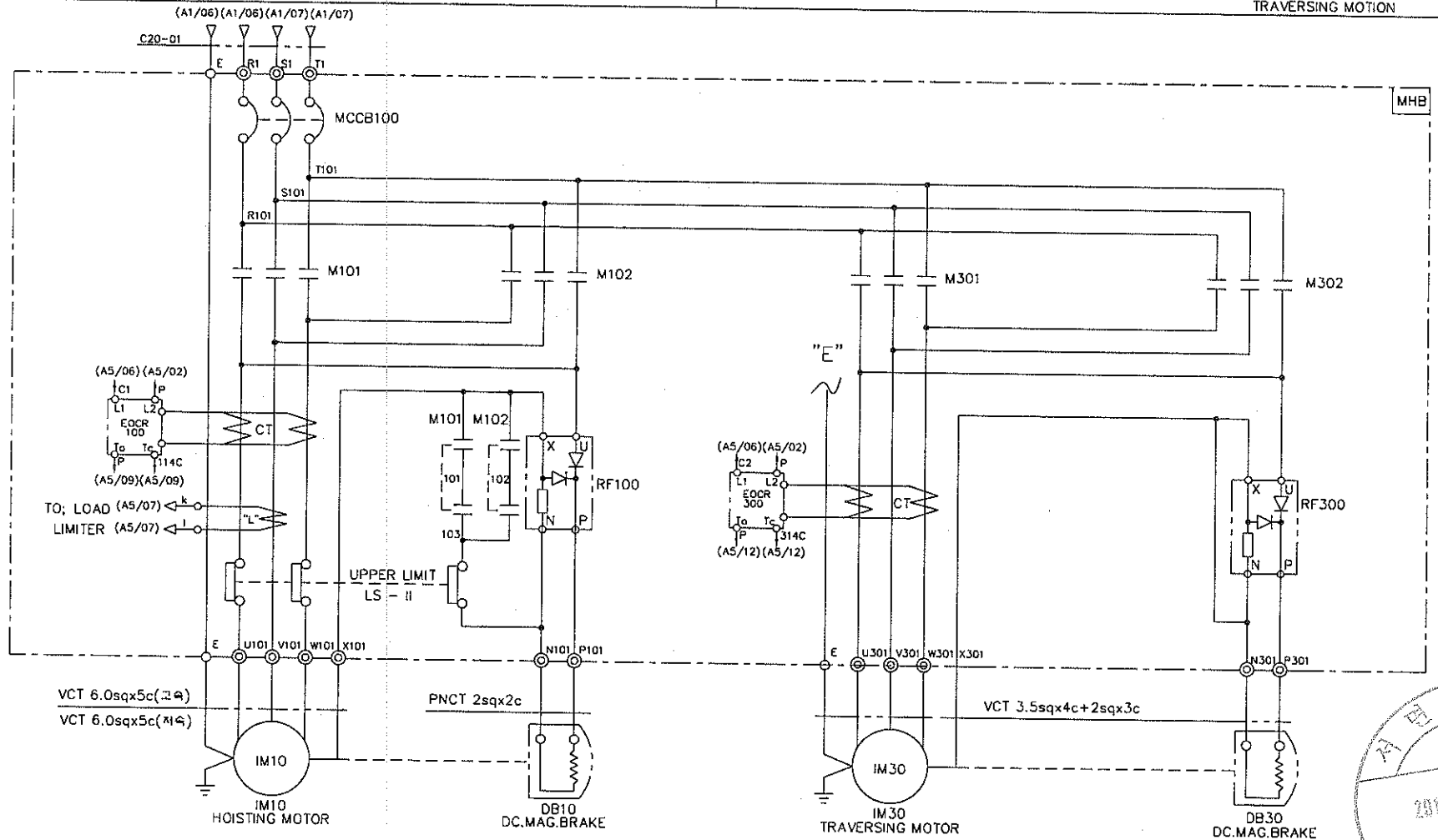
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KD28E42

KD28E43

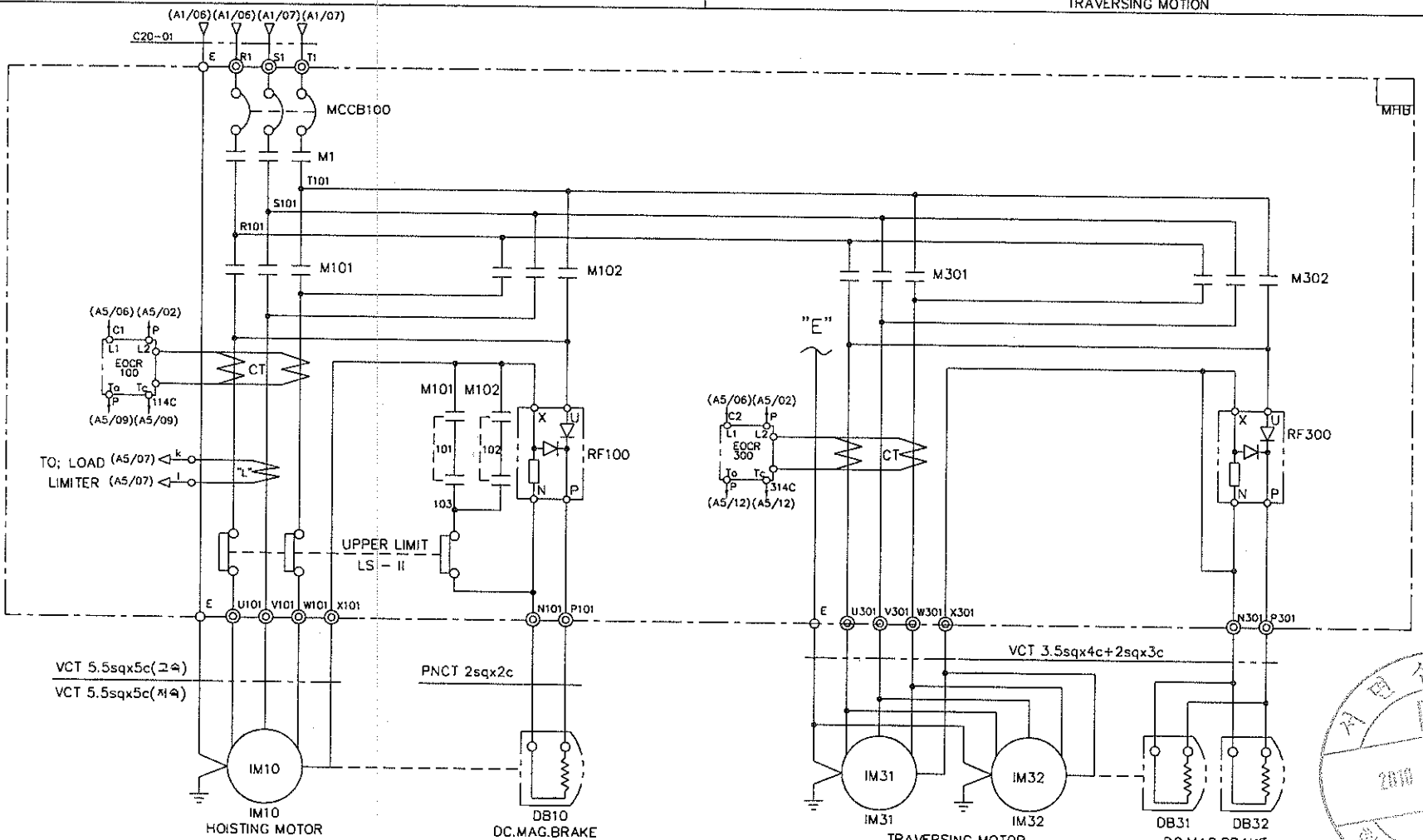
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

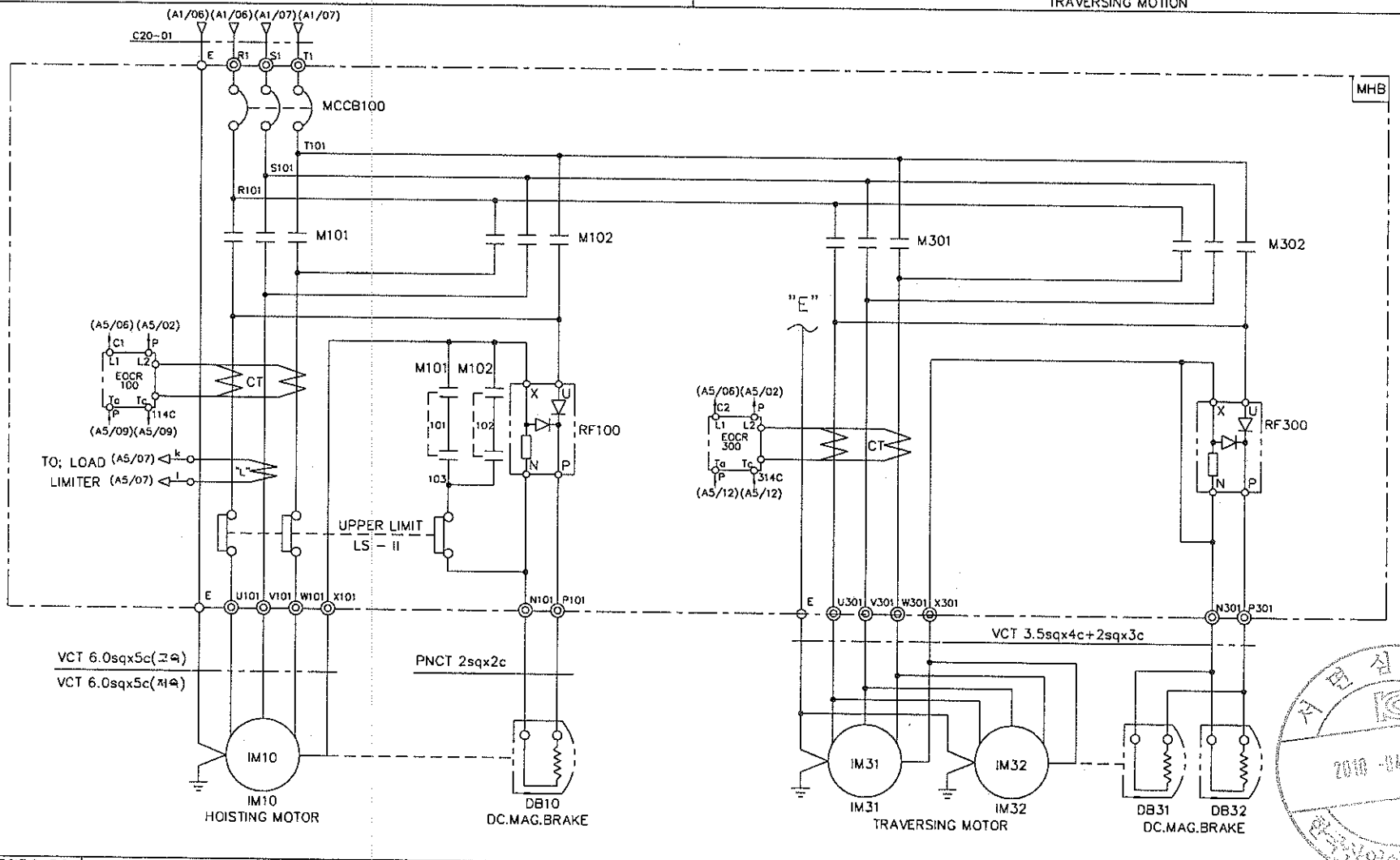
DWG. NO: KD28E43

KD28E44

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION | TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E44

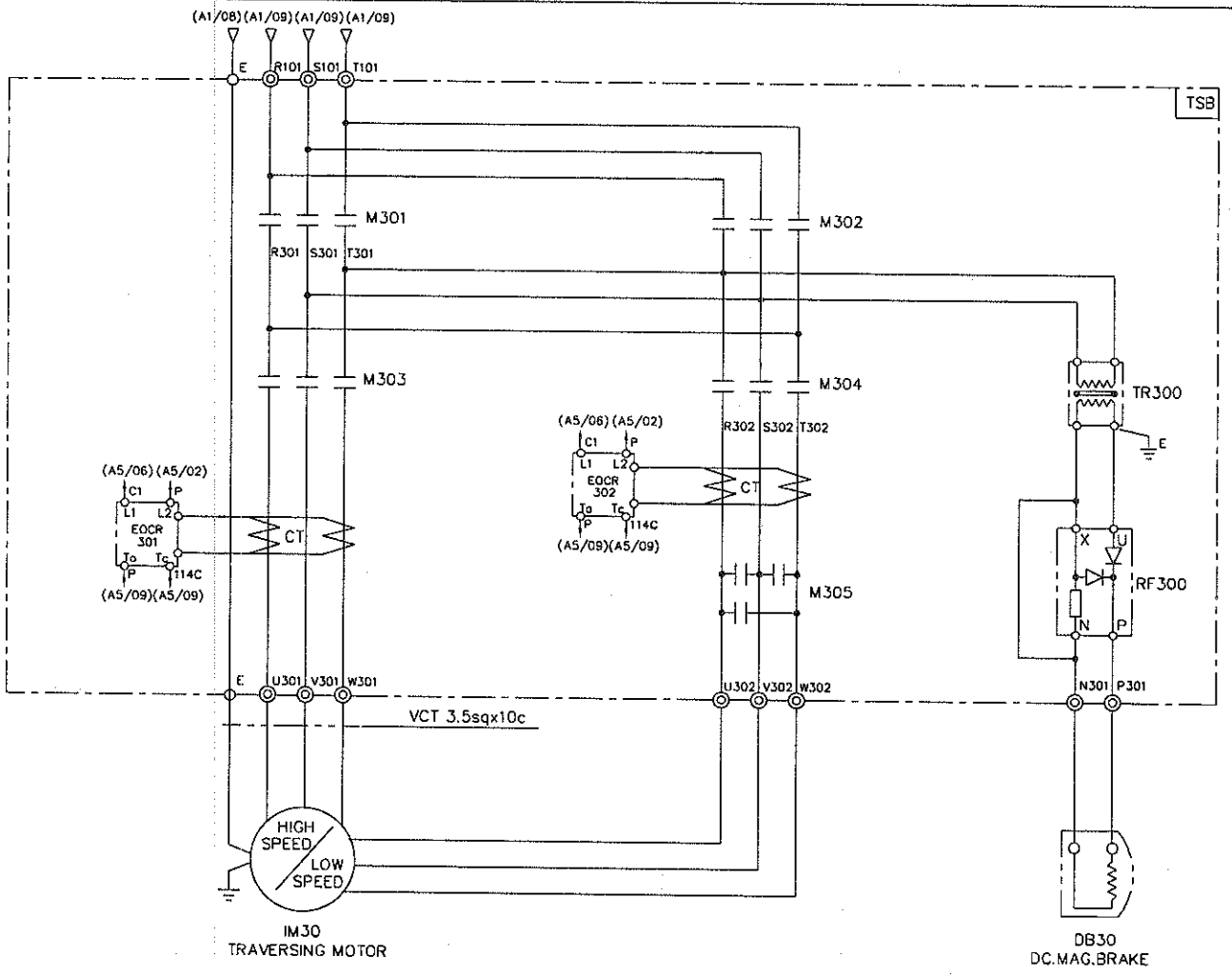
검사필
2018-04-10
한국산업안전보건공단

KD28E045

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	440V	0.5/0254KWx6/12P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
	440V	0.8/0.4KWx4/8P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E045

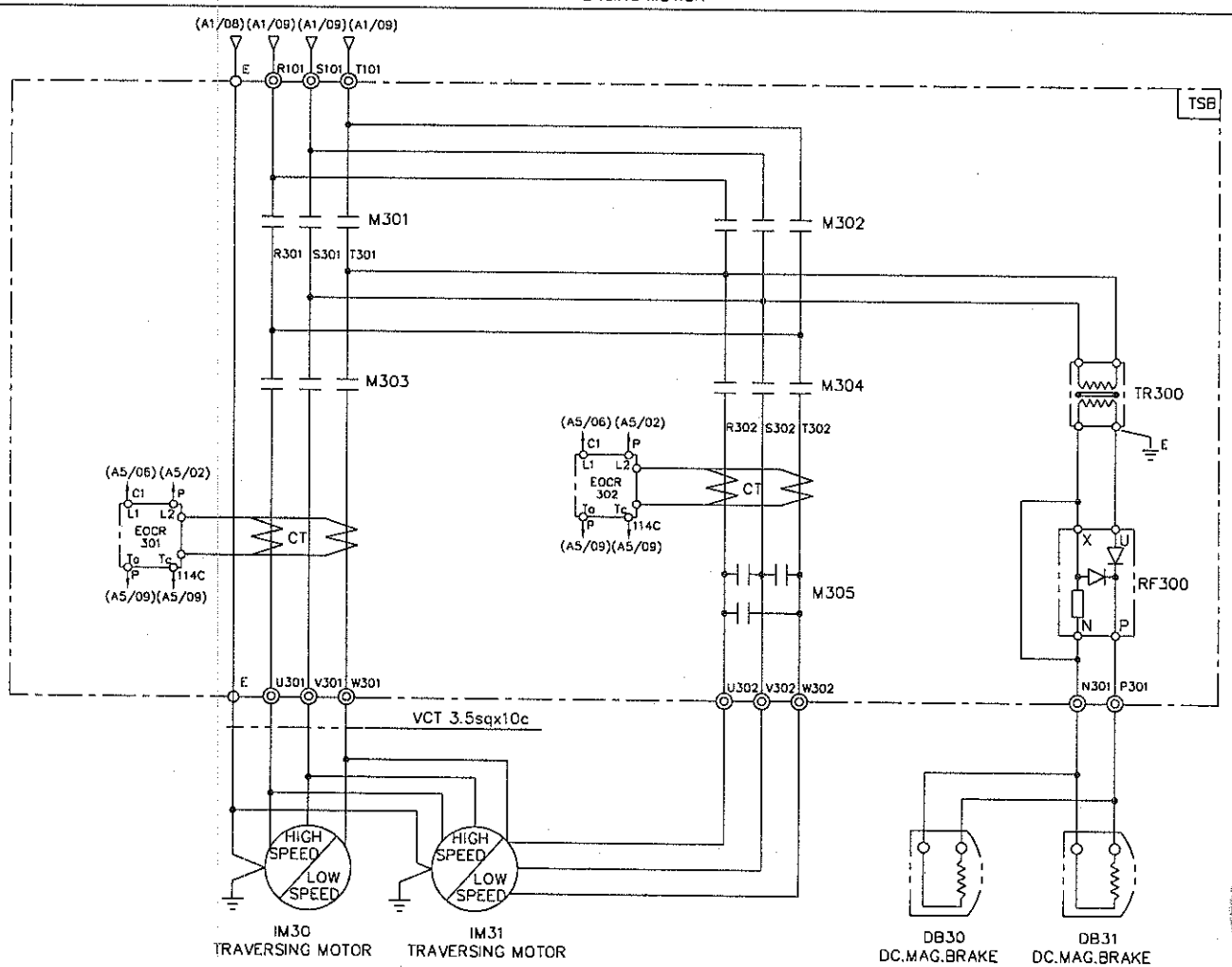
KD28E046

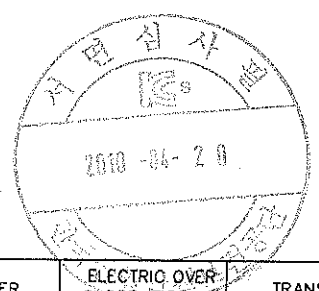
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	440V	0.5/0.25KWx6/12P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
	440V	0.8/0.4KWx4/8P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
SELECTION / MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

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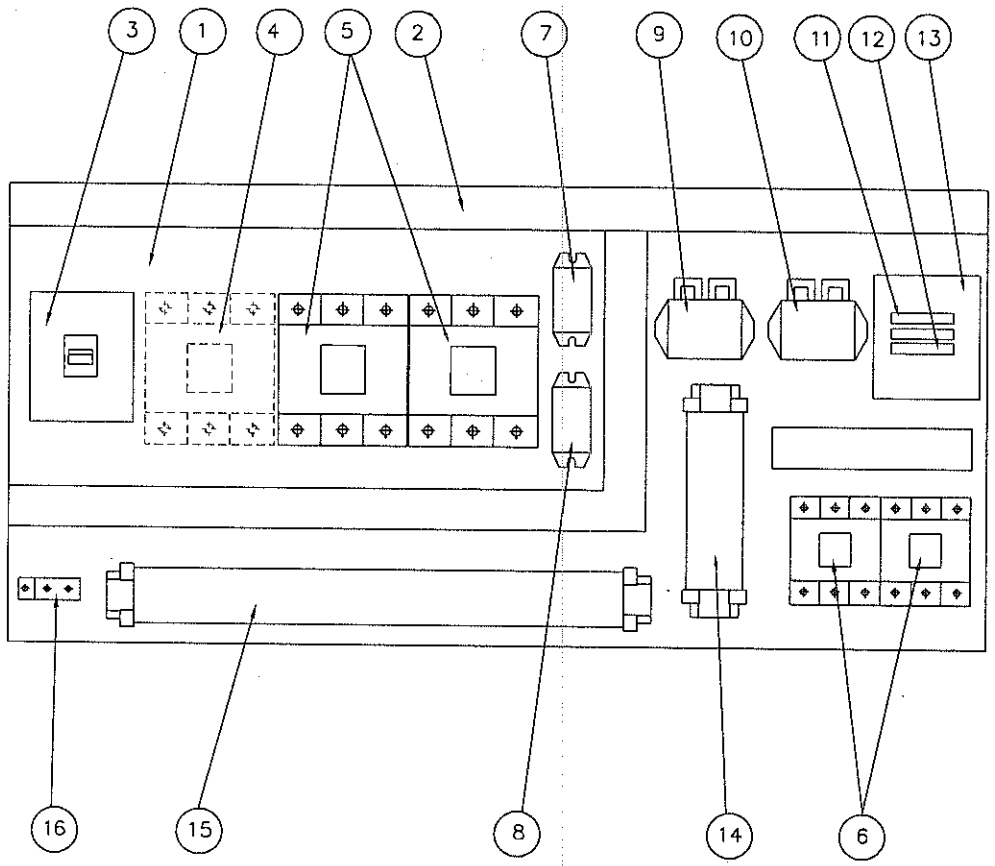
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT DIAGRAM					NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E046

KD28BA51

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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 방호기 되어있을것.

서 면 심 사 필
2018-04-20
한국산업안전보건공단

MK	DATE	REVISIONS	CHK.	APP.
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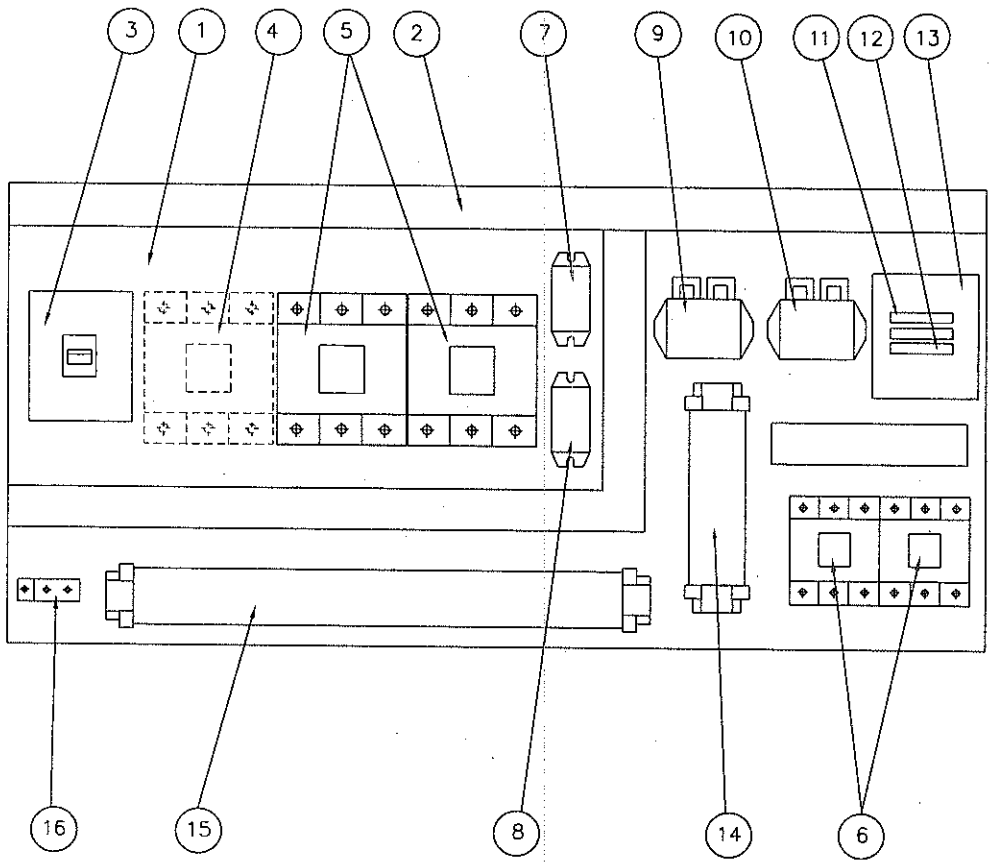
		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	HOIST CONTROL BOX (고속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA51	

KD28BA52

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	이 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

N O T E

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

NOTE 1. 전선의 색상은 다음과 같다.
- 1) 흑 색 : 전원선
- 2) 적 색 : 고류제어선
- 3) 주황색 : 직류제어선
- 4) 녹색 또는 녹색과 노랑 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.

시 운 심 사 필
KS
2018 -04- 20
한국산업안전보건공단

MK	DATE	REVISIONS	CHK.	APP.
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		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA52	

KD28E51

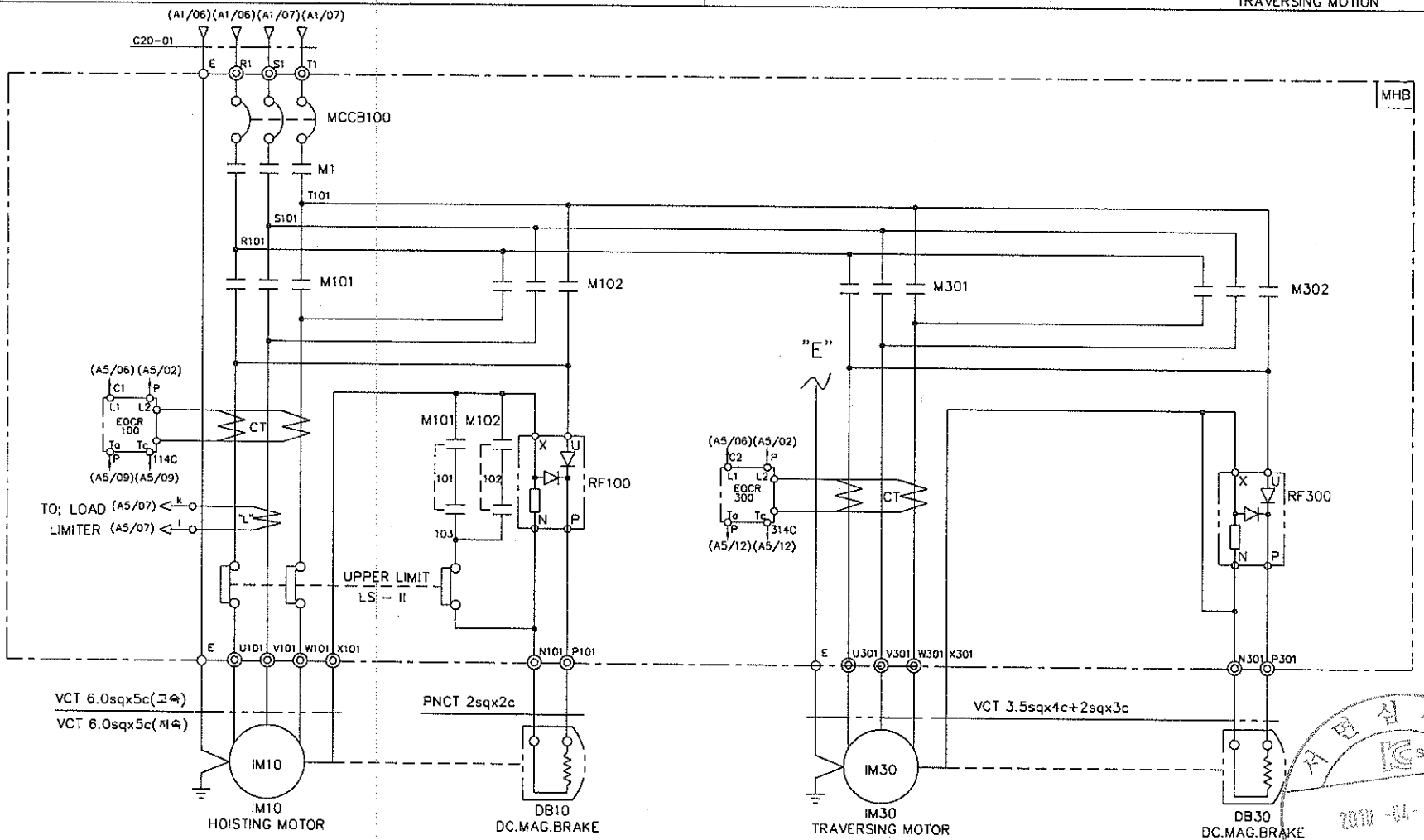
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



지멘스 KS 2010-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	–		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
4				
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1				

CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E51

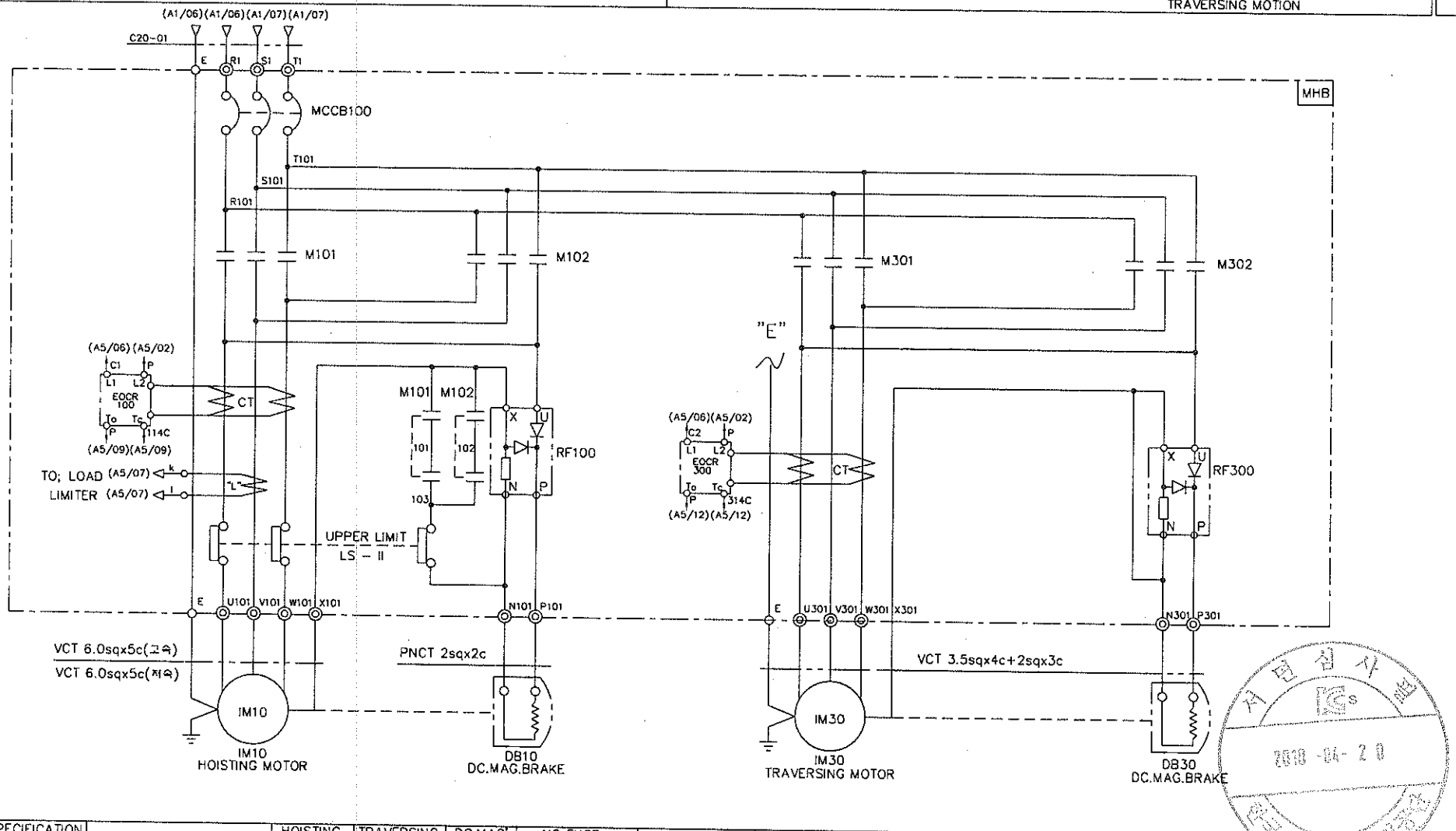
KD28E52

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 | TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E52

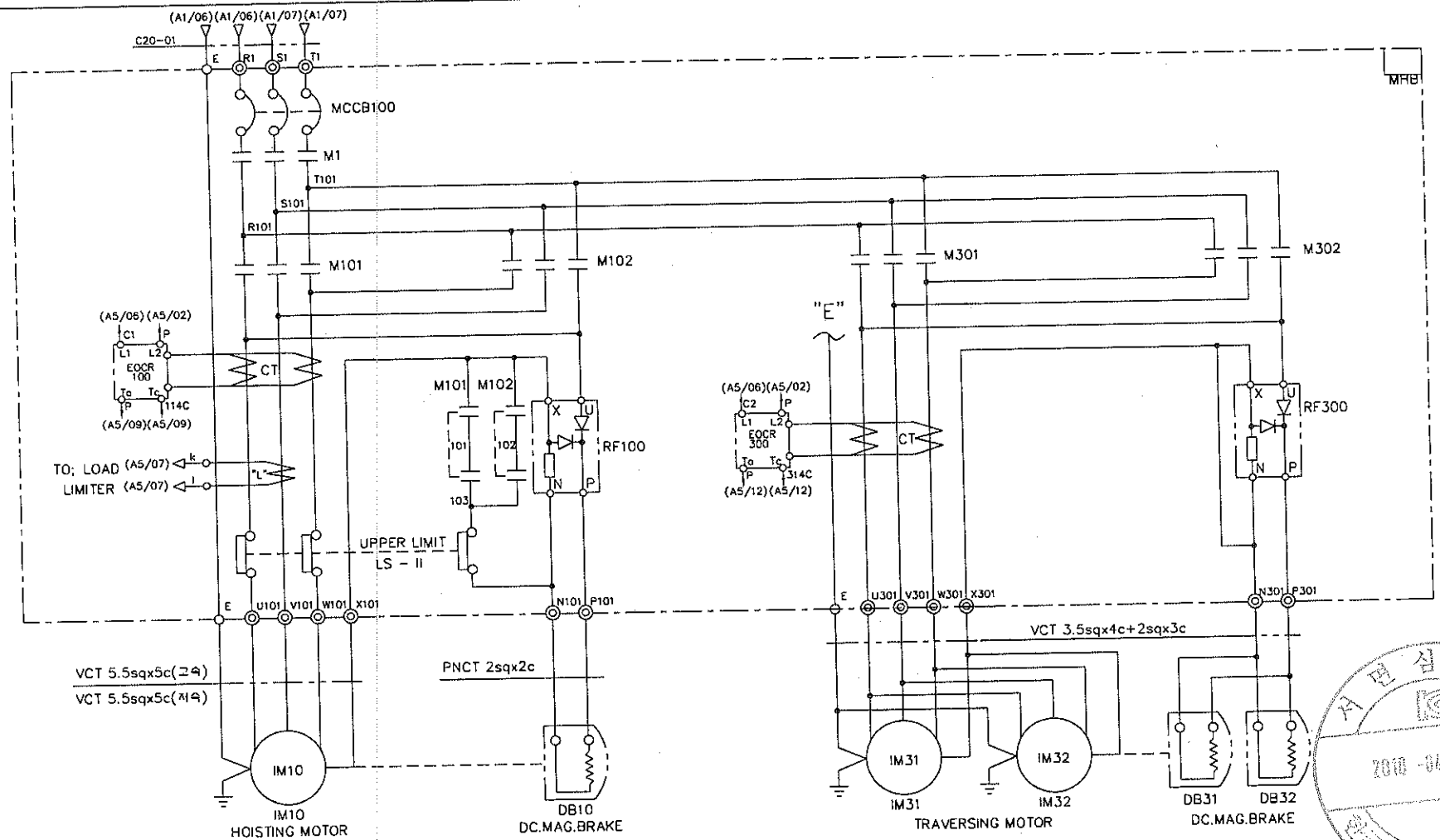
2018 -04- 20

KD28E53

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E53

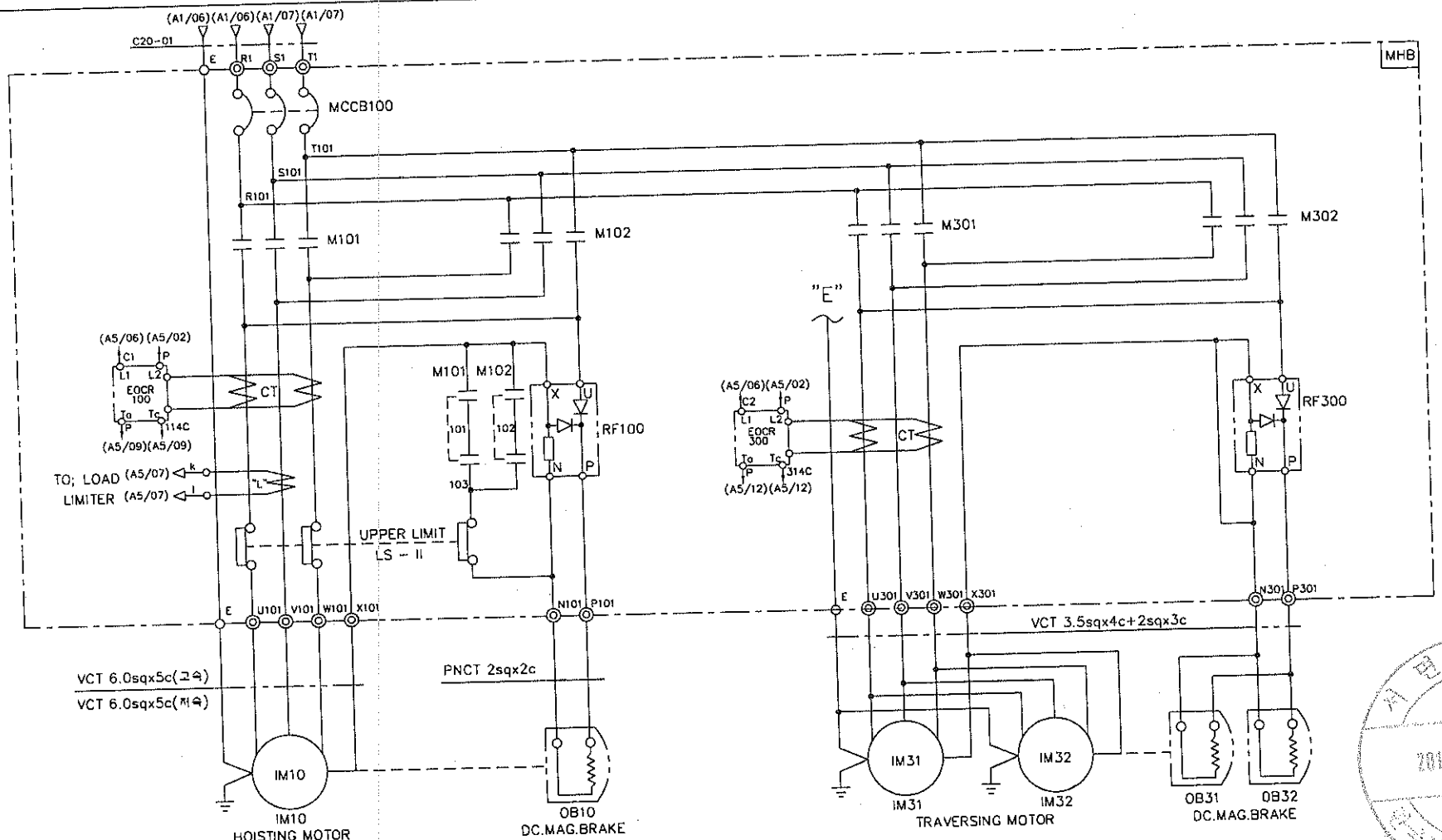
KD28E54

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD28E54

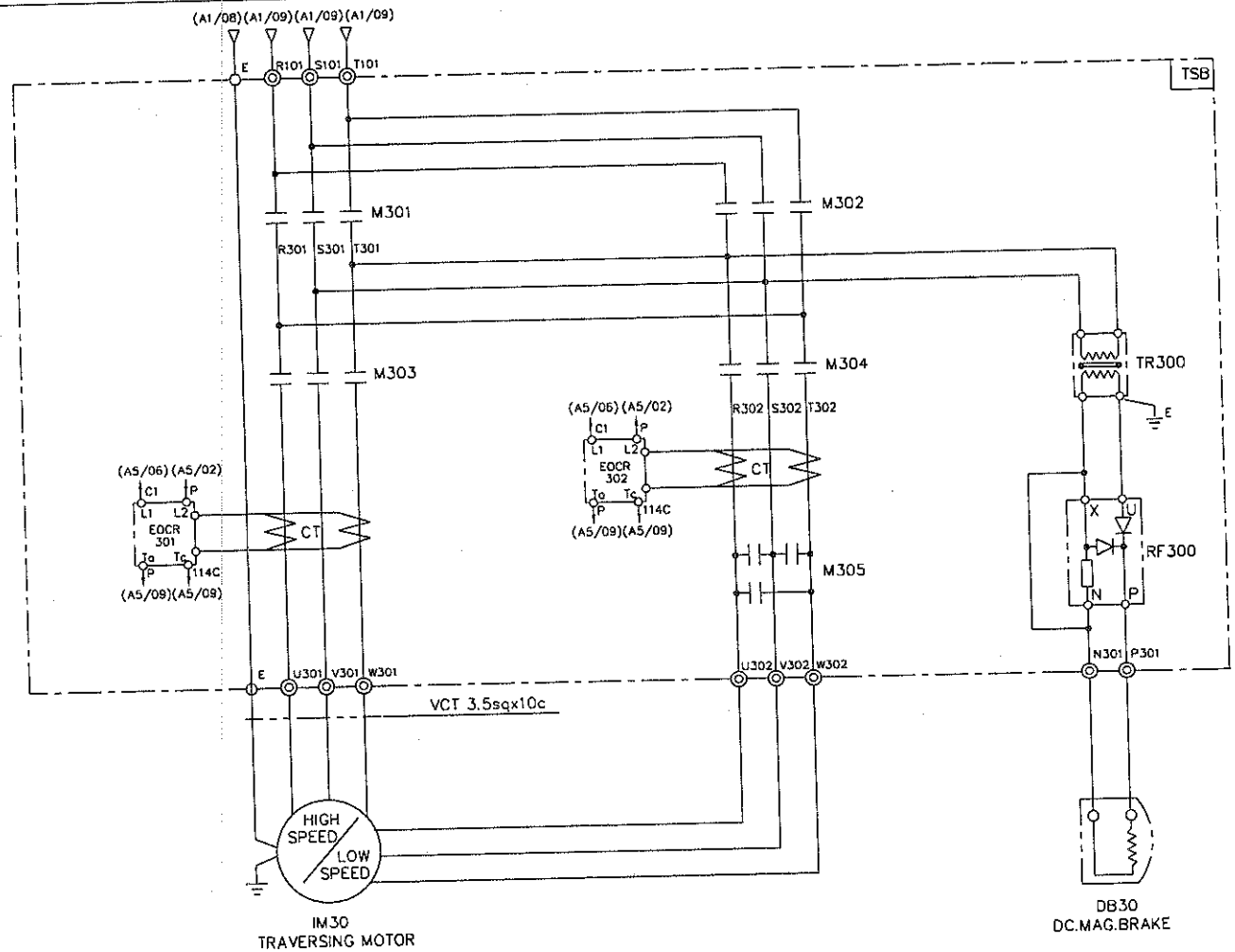
KD28E055

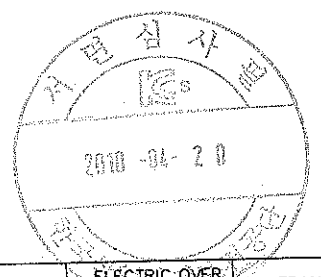
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	460V	0.5/0254KWx6/12P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
	460V	0.8/0.4KWx4/8P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
SELECTION MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT DIAGRAM					NONE		
		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28E055	

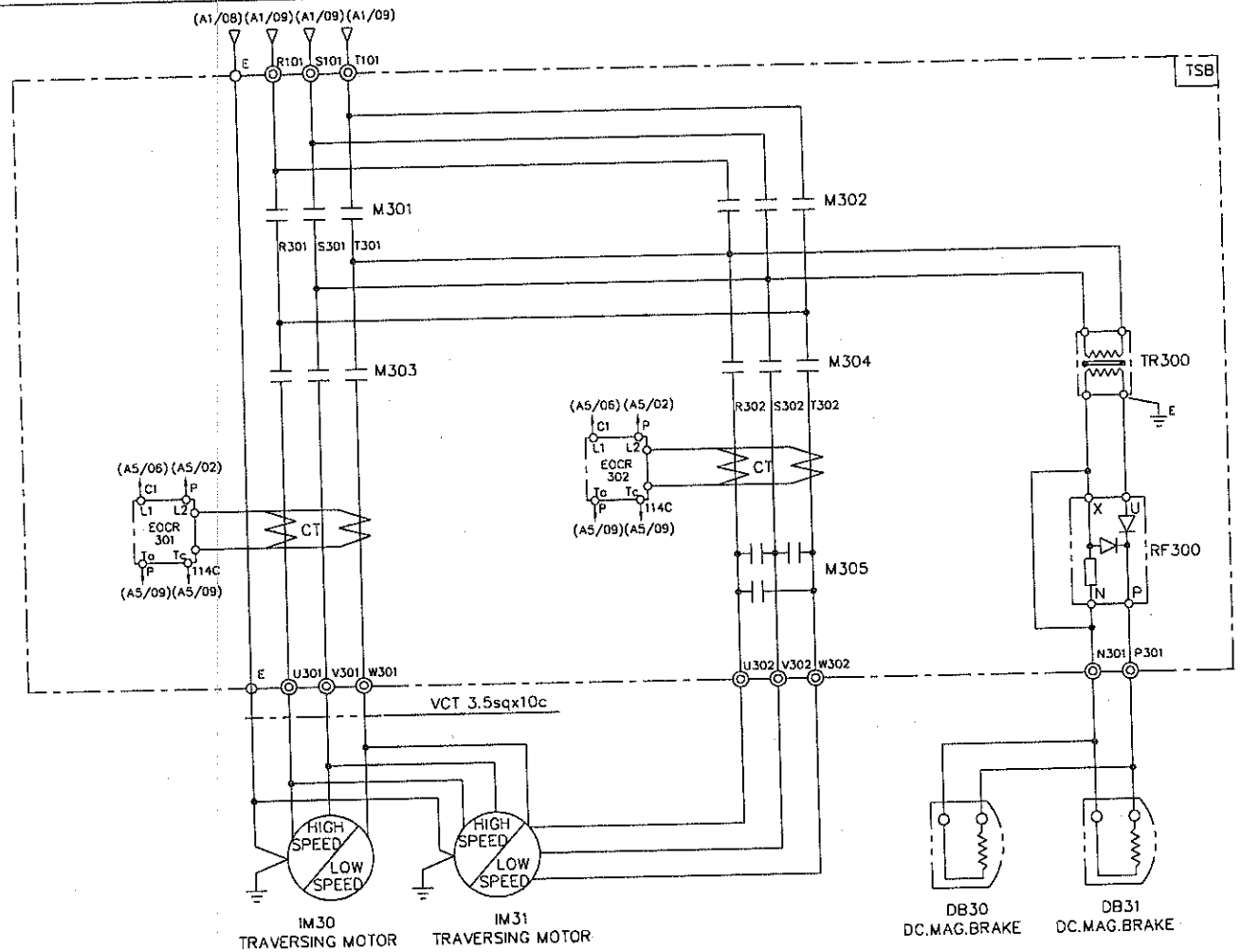
KD28E056

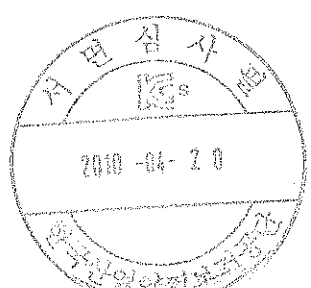
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	460V	0.5/0.25KWx6/12P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
	460V	0.8/0.4KWx4/8P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
SELECTION MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

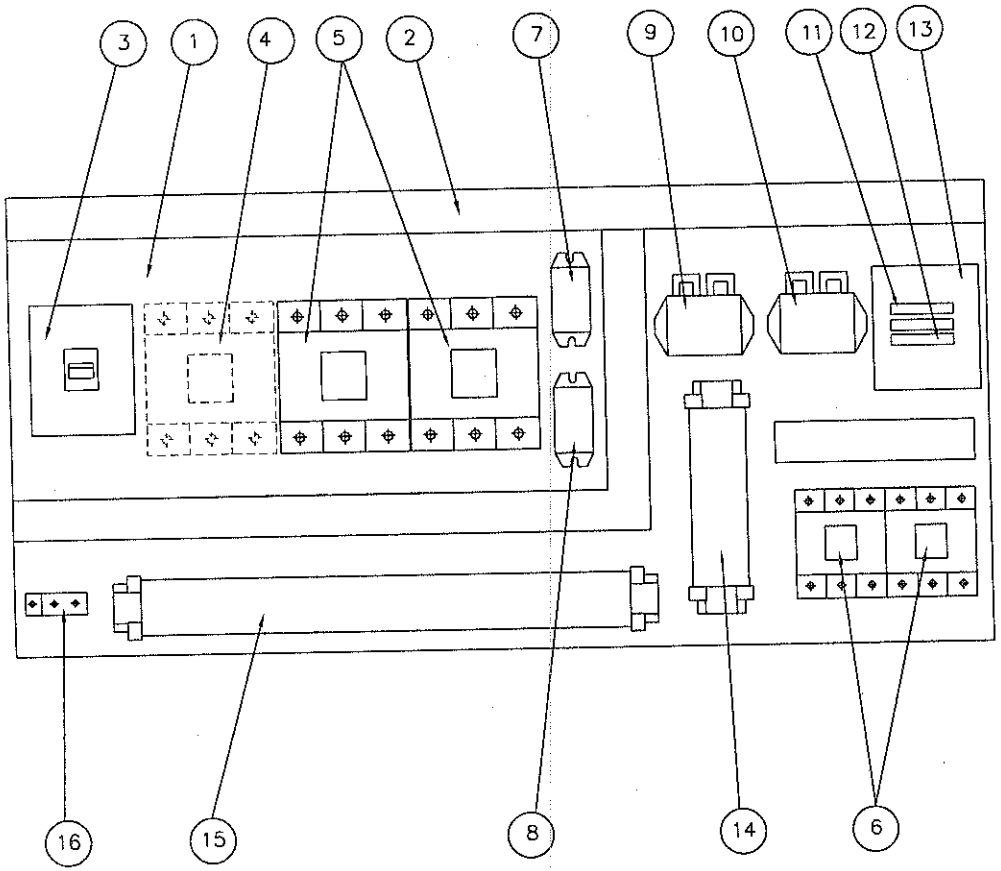
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E056

KD28BA61



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

검 사 필
2010 -04- 20

MK	DATE	REVISIONS	CHK.	APP.
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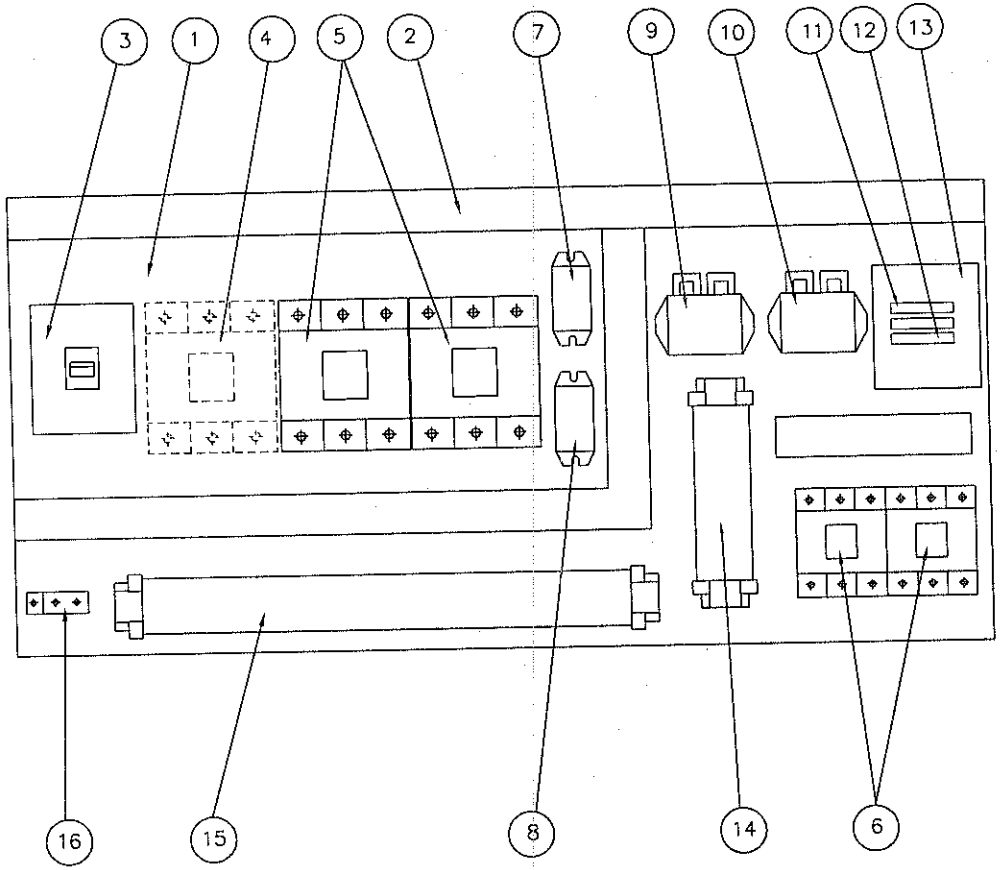
		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER						NONE		
DRAWING TITLE	HOIST CONTROL BOX (고속)	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA61	
	ARRANGEMENT DRAWING							

KD28BA62

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	—	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DQC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 고류제어선
   3) 주황색 : 직류제어선
   4) 녹색 또는 녹색과 노랑 혼용 : 접지선
2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
   └ MIN SIZE : 2.0sq
3. 제어용 전선 : 2.0mm KIV,HIV
4. 제작시 디소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
   1) 외함 개방시 충전부분이 차단되도록 할것.
   2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

검토심사필
KS
2016-11-29

MK	DATE	REVISIONS	CHK.	APP.
4				
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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (저속) / ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

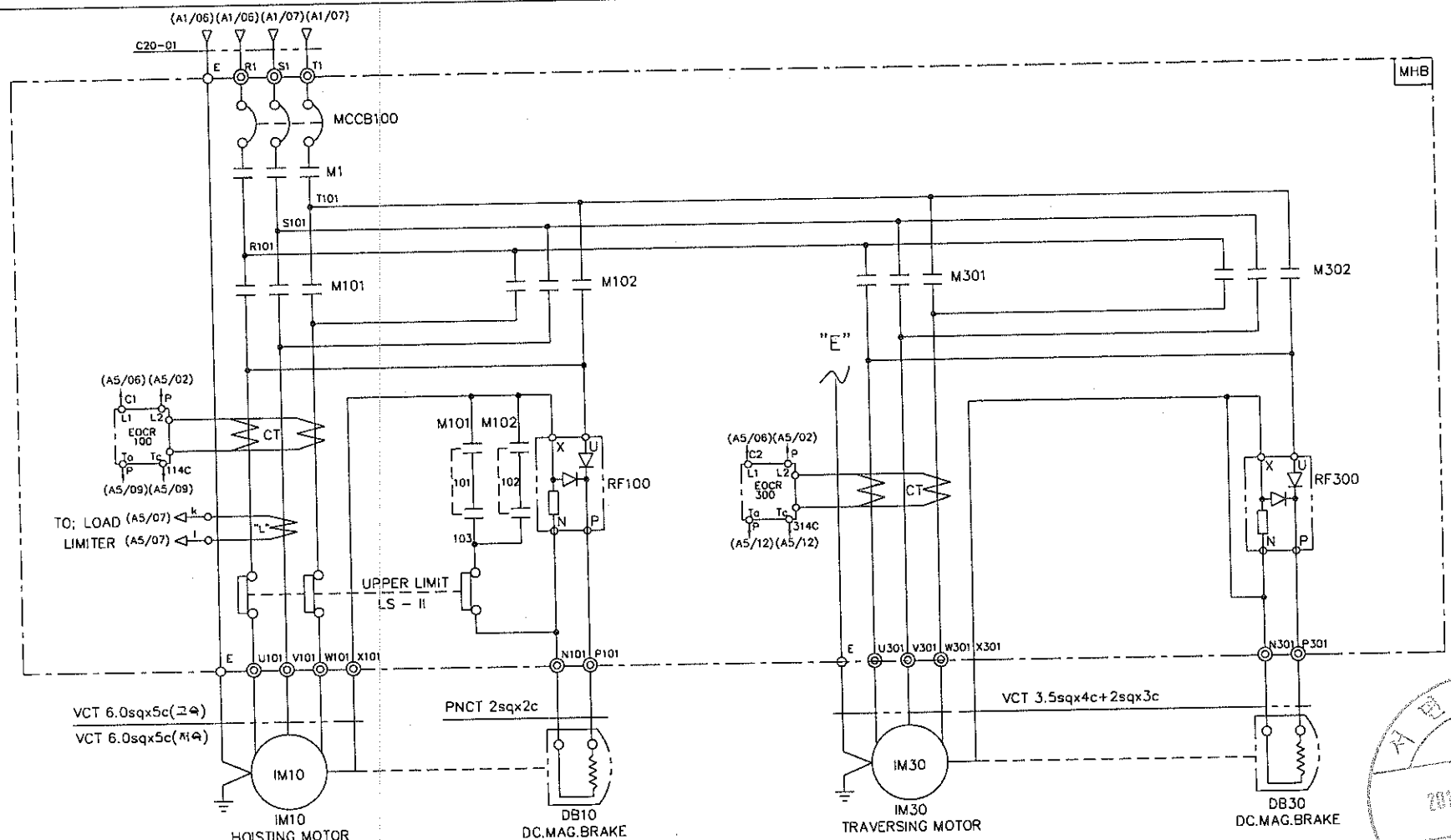
DWG. NO: KD28BA62

KD28E61

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION



사용검사필
2019-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E61

KD28E62

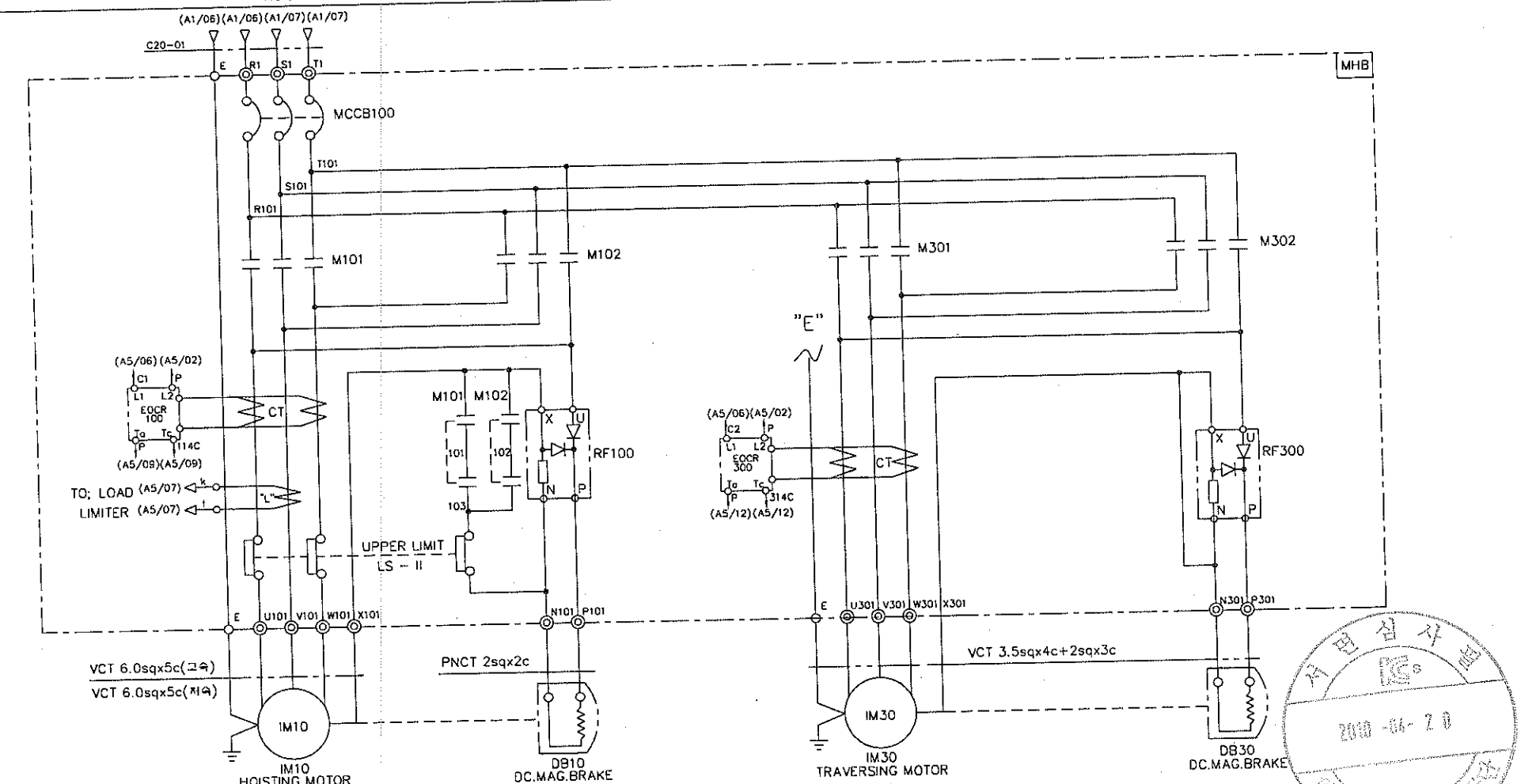
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-3D	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E62

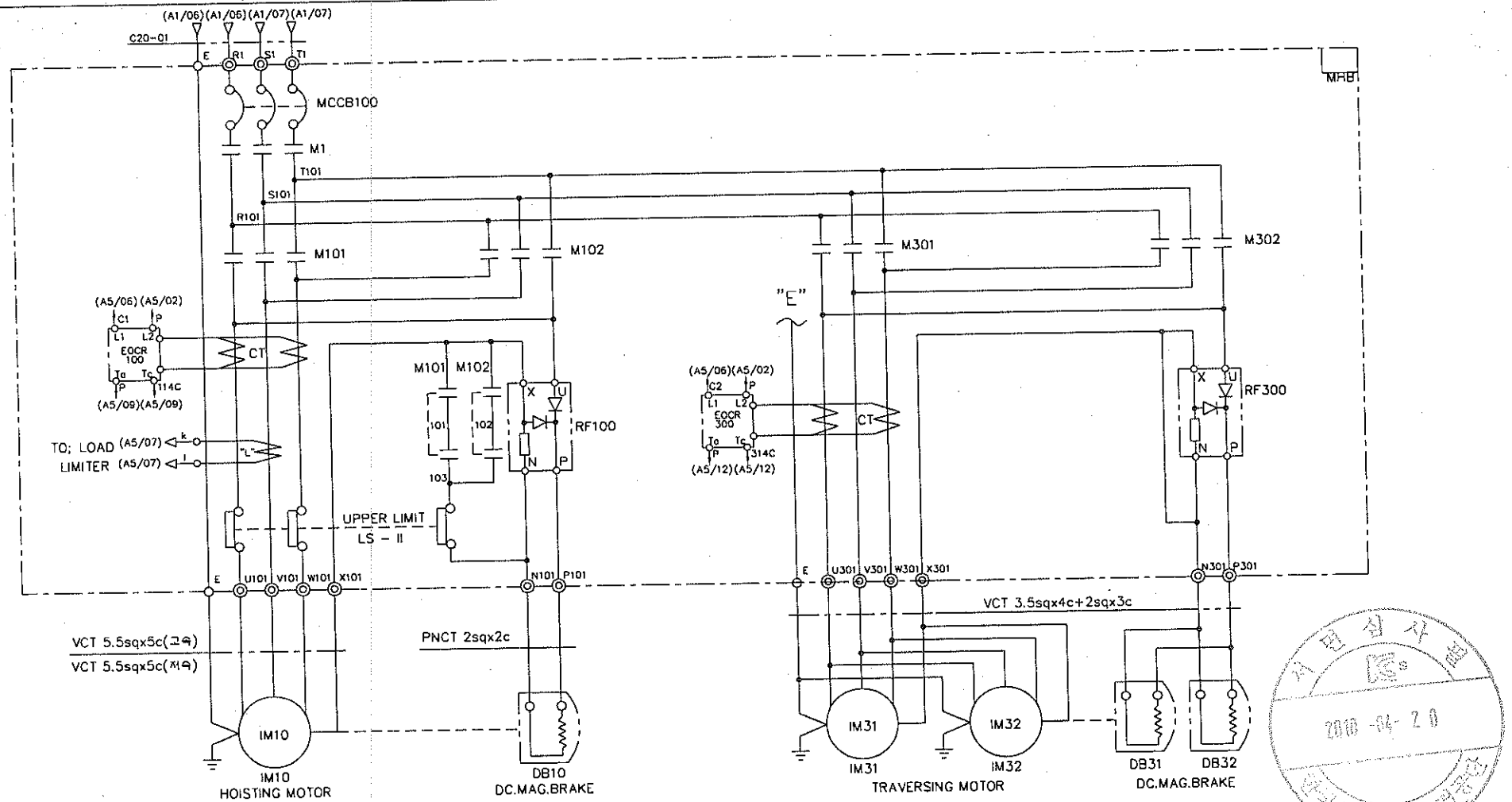
KD28E63

ADR'S NO. B1

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E63

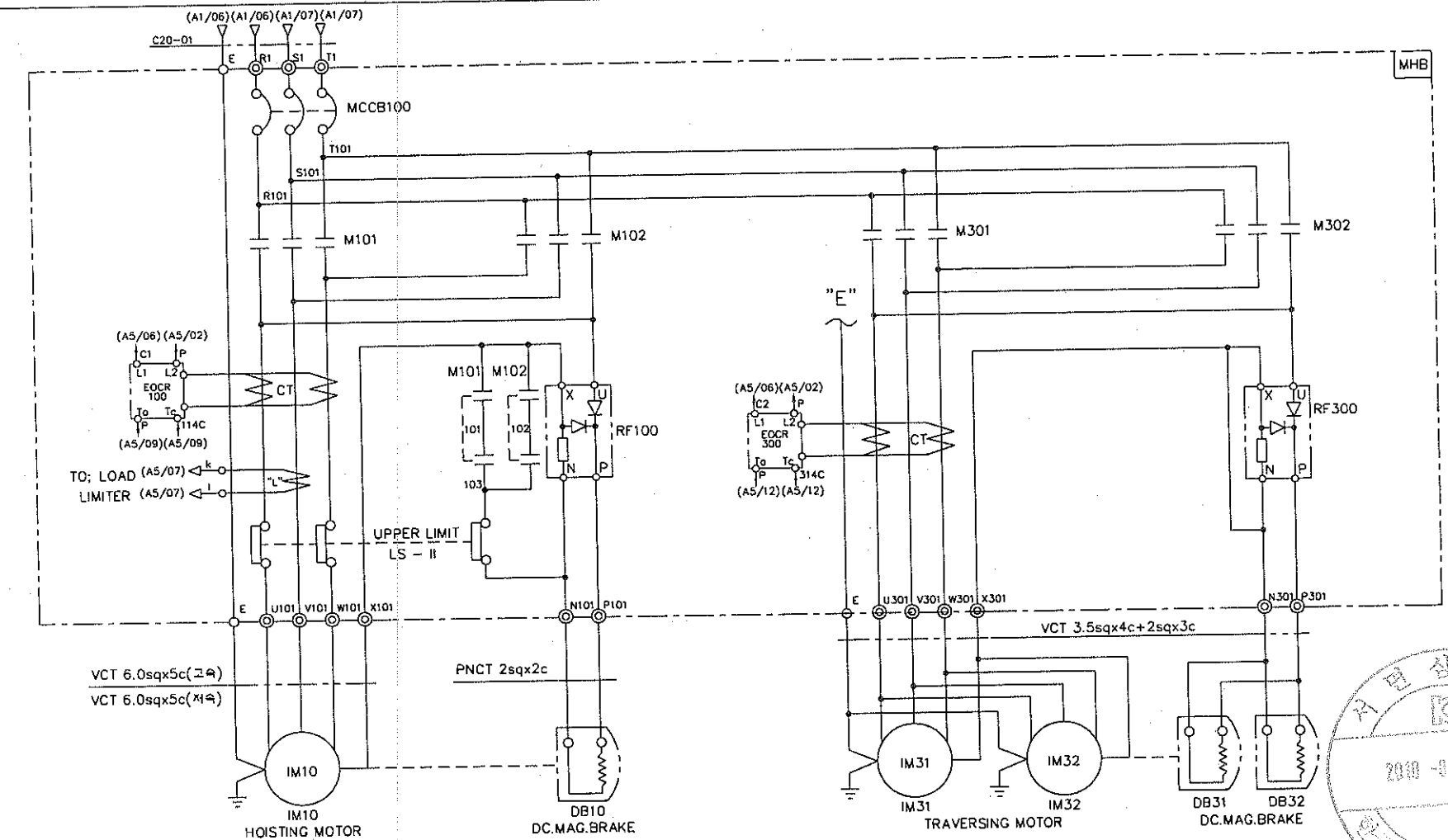
KD28E64

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 | TRAVERSING MOTION



자료실자료
2019-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

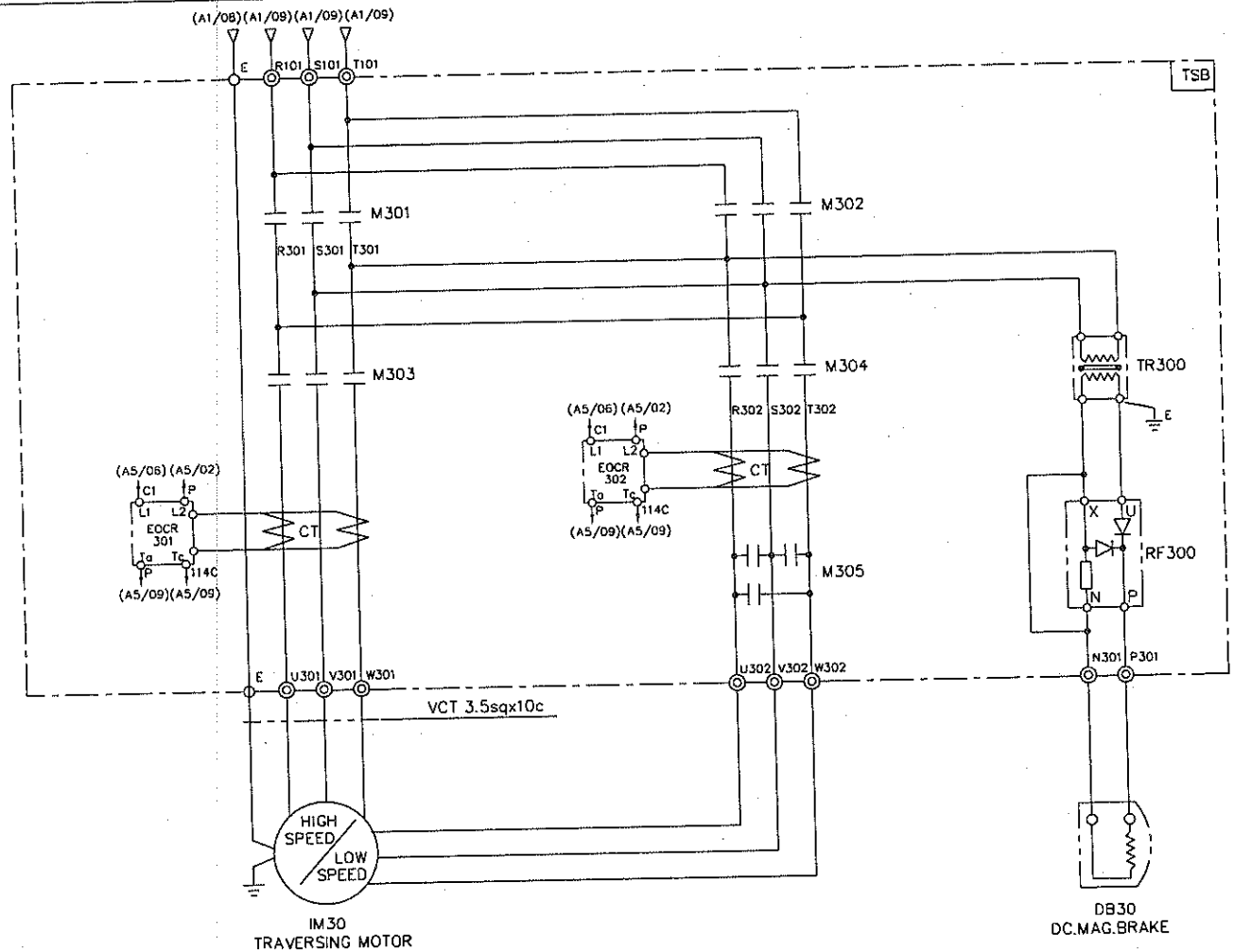
DWG. NO KD28E64

KD28E065

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	480V	0.5/0254KWx6/12P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
	480V	0.8/0.4KWx4/8P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
SELECTION MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E065

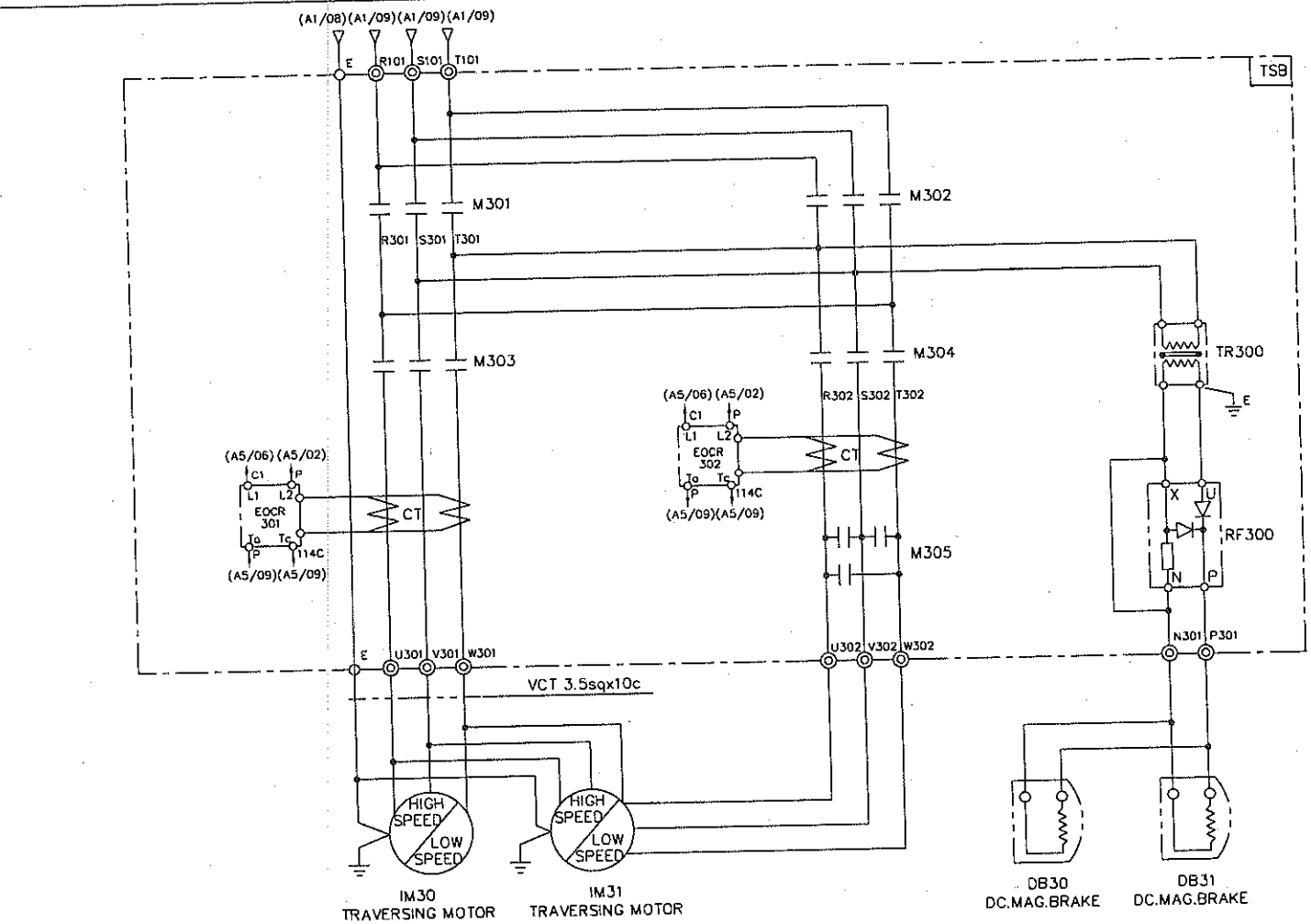
KD28E066

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	480V	0.5/0.25KWx6/12P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
	480V	0.8/0.4KWx4/8P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
SELECTION / MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

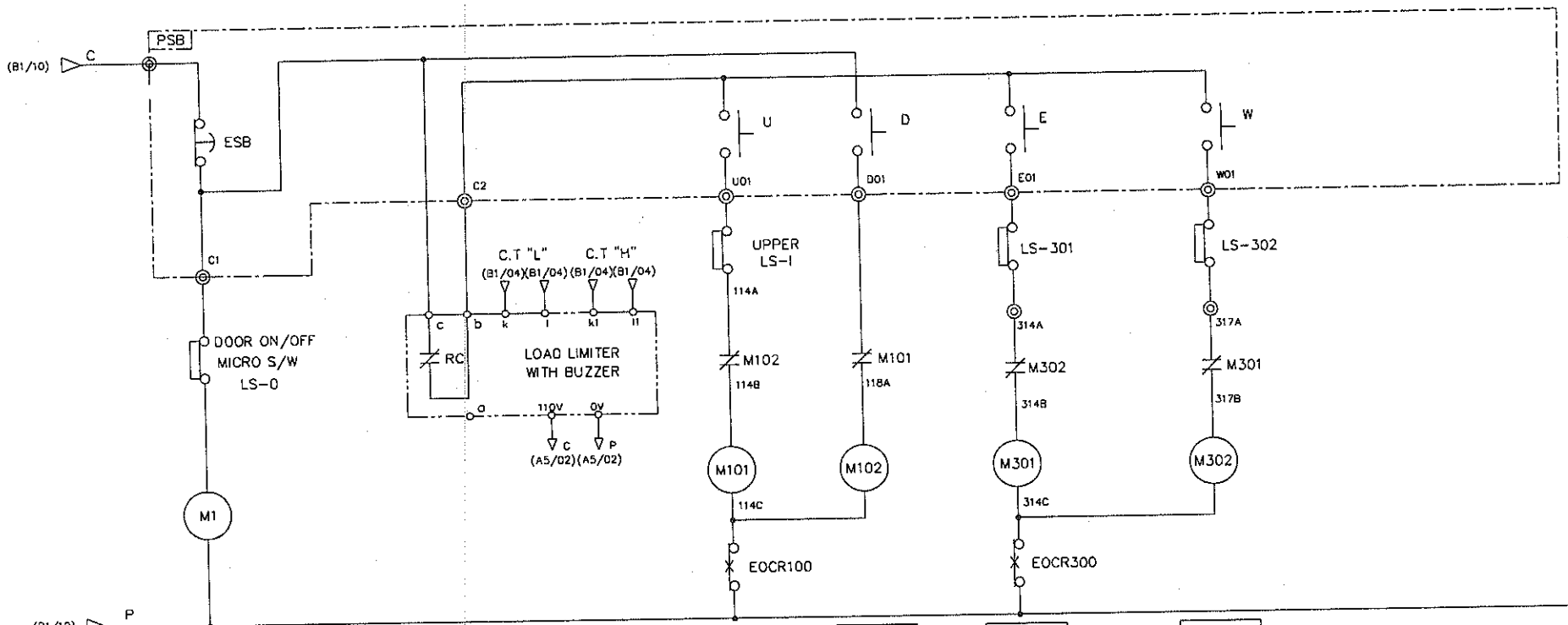
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E066

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		OVER LOAD BUZZER			UP		DOWN		EAST		WEST								A5

KD28e005



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A5/11
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A5/09
b	

M301	
A	B1/12
A	B1/12
A	B1/12
a	
a	
b	A5/15
b	

M302	
A	B1/16
A	B1/16
A	B1/16
a	
a	
b	A5/12
b	

서울검사소 KC 2015-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION	DOOR ON/OFF	UPPER LIMIT	PENDANT P.B.S/W	LOAD LIMITER	LIMIT SWITCH
	LS-0	LS-1	E.S.B	LOAD LIMITER	LS-301,302
		AC 600V 3A	250V 3A	JDL-100	HY - W904
	HY-R704B	AC 600V 3A	250V 3A	JDL-100	HY - W904
MAKER	HAN YOUNG	KUNHUNG	KUNHUNG	JUNGHO	HANYOUNG

MK	DATE	REVISIONS	CHK.	APP.
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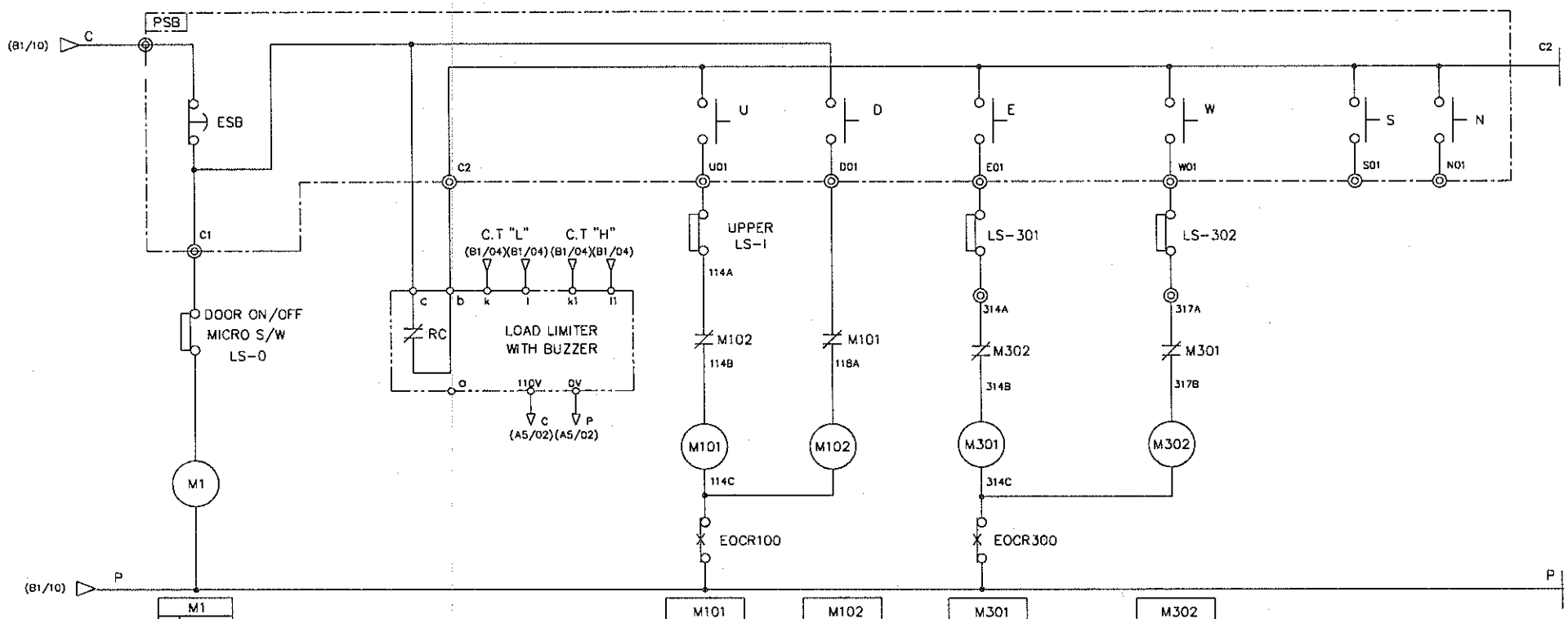
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM					NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E002

KD28E005

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			OVER LOAD BUZZER					UP		DDWN		EAST		WEST		SOUTH		NORTH	A5



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A5/11
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A5/09
b	

M301	
A	B1/12
A	B1/12
A	B1/12
a	
a	
b	A5/15
b	

M302	
A	B1/16
A	B1/16
A	B1/16
a	
a	
b	A5/12
b	

검사필
2018-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION	DOOR ON/OFF	UPPER LIMIT	PENDANT P.B.S/W	LOAD LIMITER	LIMIT SWITCH
	LS-0	LS-1	E.S.B	LOAD LIMITER	LS-301,302
		AC 600V 3A	250V 3A	JDL-100	HY - W904
	HY-R704B	AC 600V 3A	250V 3A	JDL-100	HY - W904
MAKER	HAN YOUNG	KUNHUNG	KUNHUNG	JUNG-HO	HANYOUNG

MK	DATE	REVISIONS	CHK.	APP.
4				
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CUSTOMER	
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT
	DIAGRAM

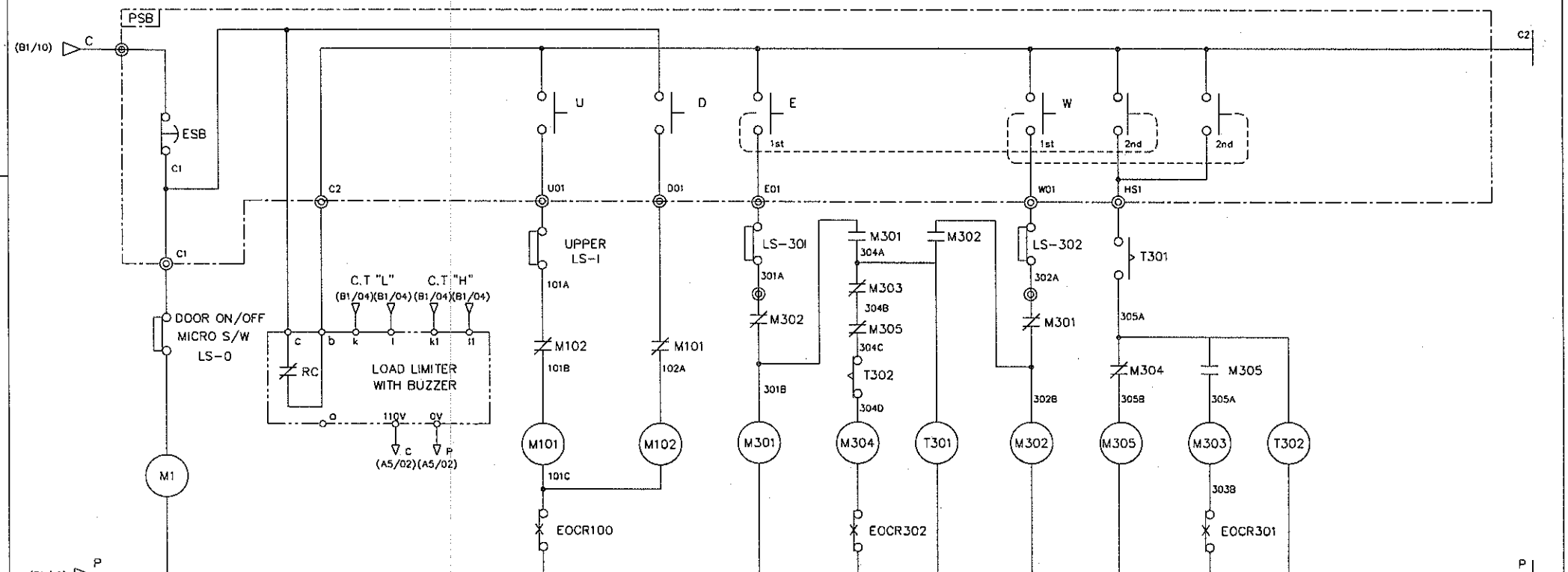
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KD28E003

KD28e006

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			UP		DOWN		EAST (LOW SPEED)			WEST (LOW SPEED)			HIGH SPEED		SOUTH	NORTH	A6



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A6/09
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A6/07
b	

M301	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/14
b	

M304	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/15
b	

T301	
a	
a	
b	A6/12
b	

M302	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/10
b	

M305	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/11
b	

M303	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/11
b	

T302	
a	
a	
b	A6/17
b	

시험실시필
2018-04-29

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

MK	DATE	REVISIONS	CHK.	APP.
4				
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1				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM					NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

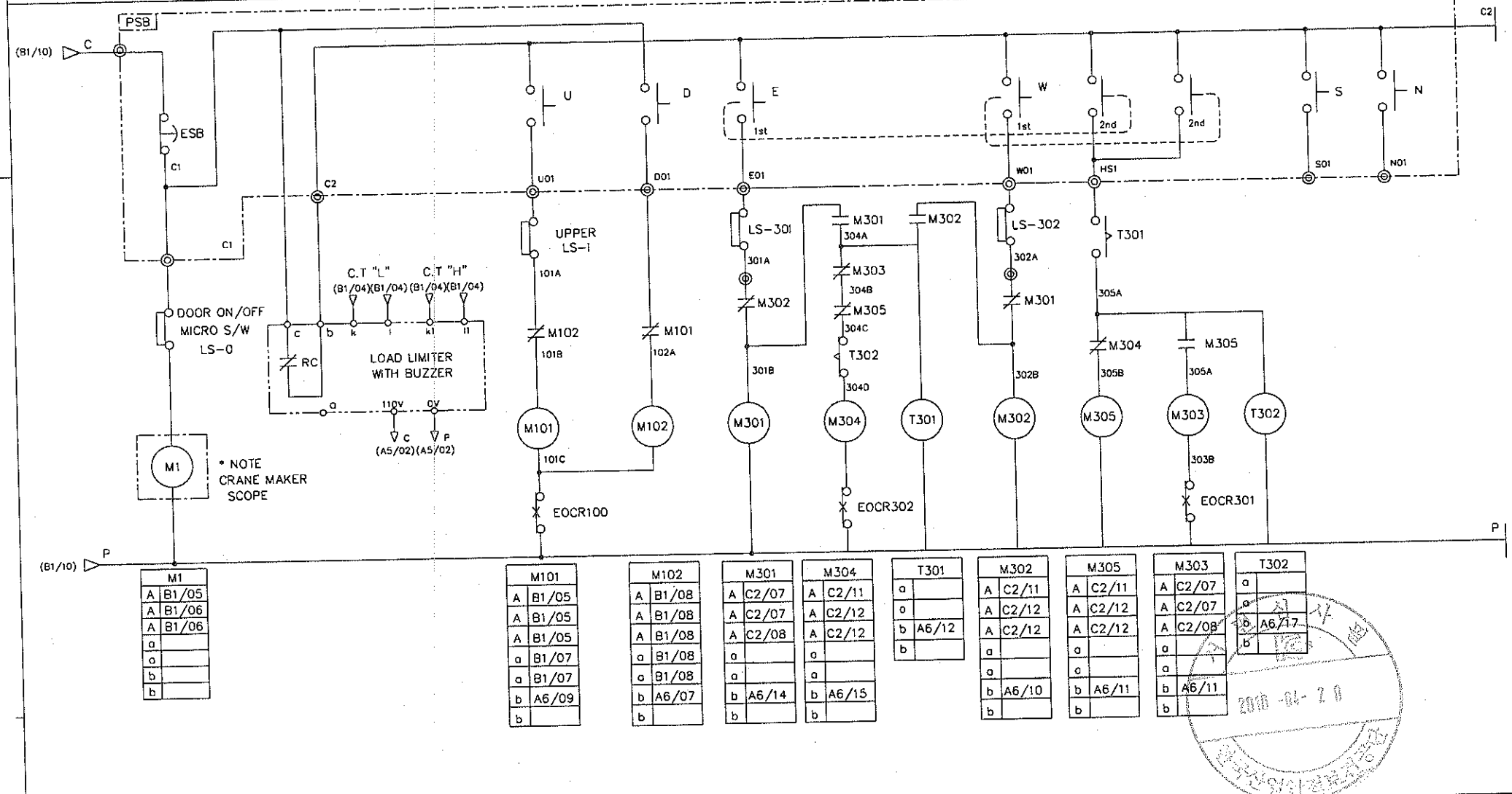
DWG. NO KD28003

KD28E005

CONTROL CIRCUIT

EM, STOP	LOAD LIMIT	UP	DOWN	EAST (LOW SPEED)	WEST (LOW SPEED)	HIGH SPEED	SOUTH	NORTH

ADR'S NO. A6



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A6/09
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A6/07
b	

M301	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/14
b	

M304	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/15
b	

T301	
a	
a	
b	A6/12
b	

M302	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/10
b	

M305	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/11
b	

M303	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/11
b	

T302	
a	
a	
b	A6/17
b	

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

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

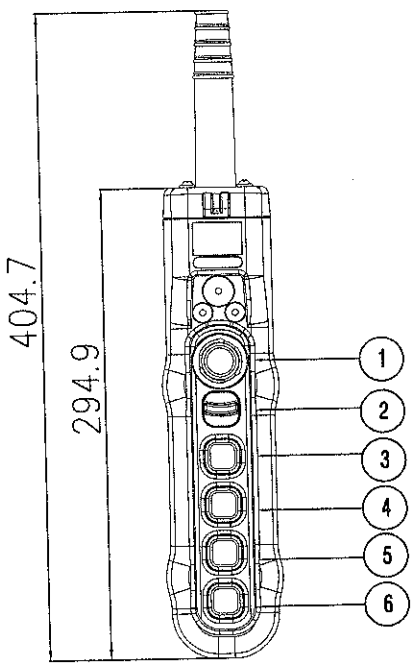
CUSTOMER

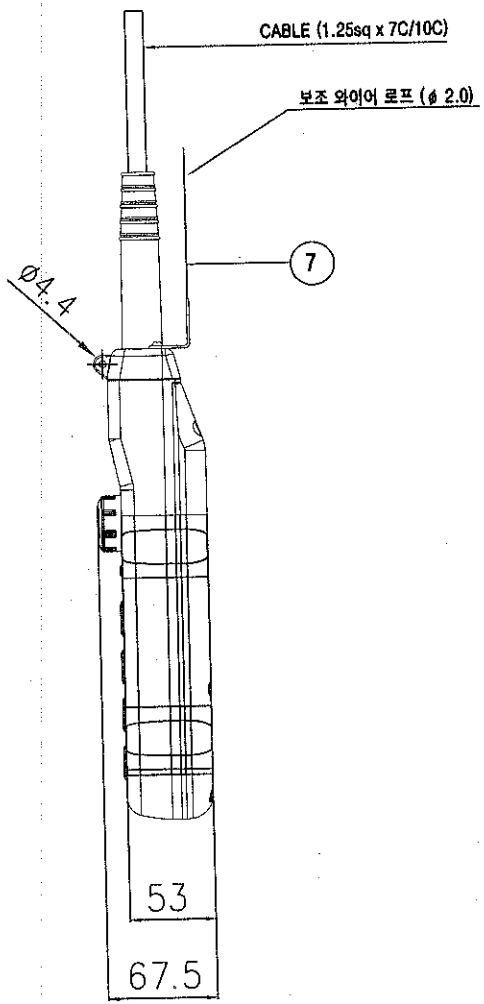
DRAWING TITLE: MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E004





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

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

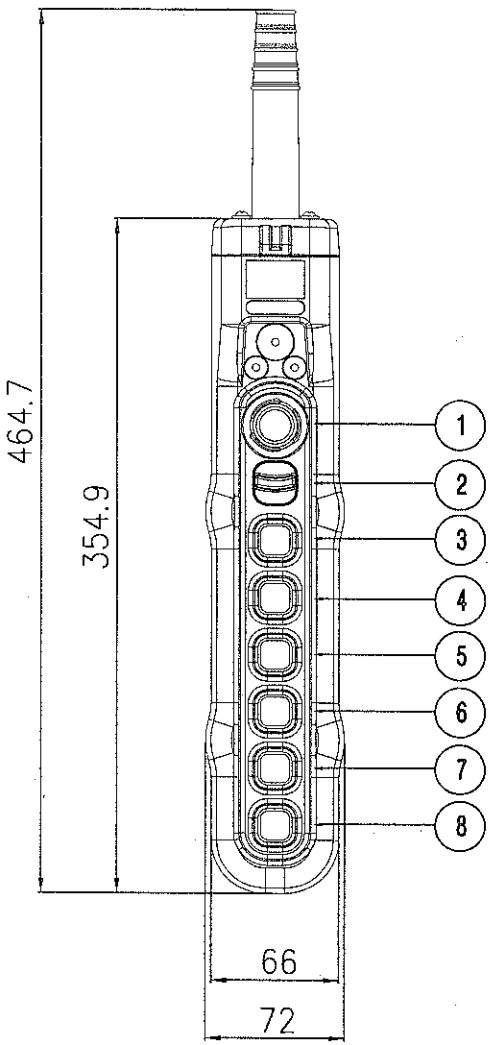
NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			BLACK
3	상	PUSH BUTTON		
4	하	PUSH BUTTON		
5	동(전)	PUSH BUTTON		
6	서(후)	PUSH BUTTON		
7	보조 와이어	ø 2.0		

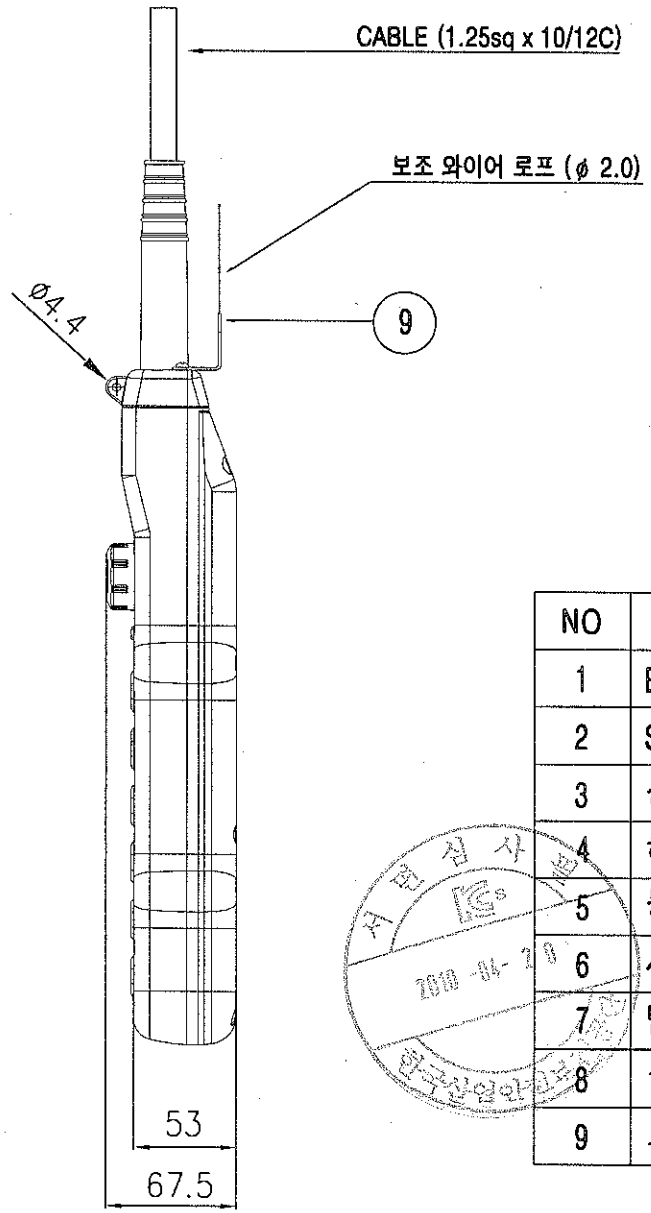
MK	DATE	REVISIONS	CHK.	APP.
3				
2				
1				

CUSTOMER	
DRAWING TITLE	PENDANT PUSH BUTTON SWITCH
	LAY OUT

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE

KD KUK DONG HOIST CO., LTD. | DWG. NO





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

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

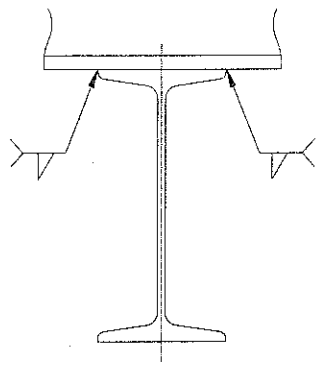
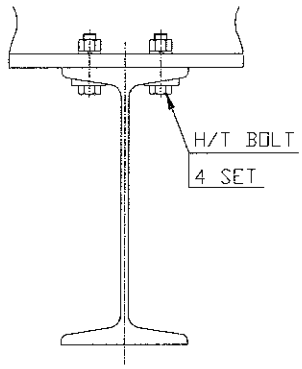
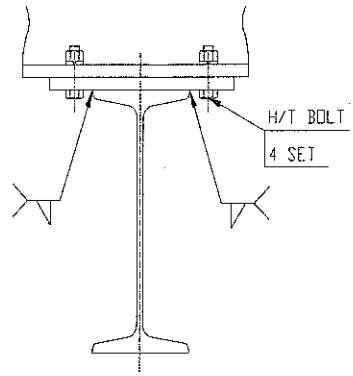
NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			BLACK
3	상	PUSH BUTTON		
4	하	PUSH BUTTON		
5	동 (좌)	PUSH BUTTON		
6	서 (우)	PUSH BUTTON		
7	남 (전)	PUSH BUTTON		
8	북 (후)	PUSH BUTTON		
9	보조 WIRE	ø 2.0		

MK	DATE	REVISIONS	CHK.	APP.
③				
②				
①				

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

Ⅰ-4. Ⅰ-BEAM의 고정방법 및 사양

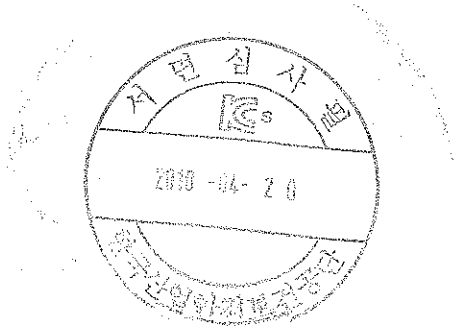
1. Ⅰ-BEAM의 고정방법

용 접 구 조	BOLT 체 결 구 조	복 합 구 조
		

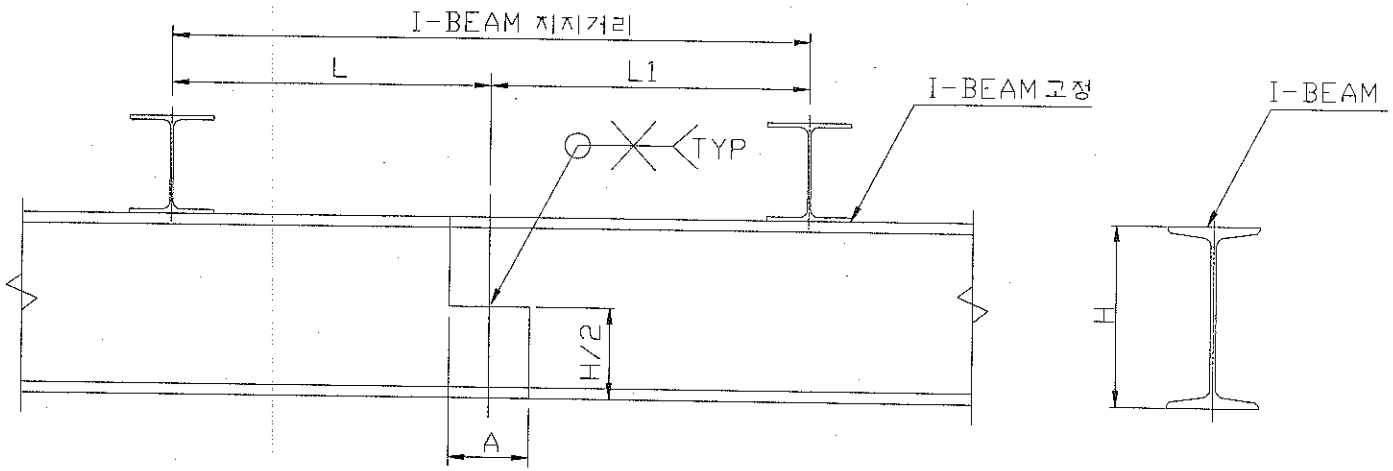
2. 기본조건 및 사양

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

정격하중 (TON)	용 접 구 조 (mm)		BOLT 체결구조
	용접두께	최소 용접길이	최소 BOLT SIZE
1.0	6	100 × 2개소	M12 × 4 SET
2.0	6	125 × 2개소	M12 × 4 SET
⇨ 2.8	6	125 × 2개소	M12 × 4 SET
3.0	6	125 × 2개소	M12 × 4 SET
5.0	8	150 × 2개소	M16 × 4 SET



3. I-BEAM의 연결방법



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

* 고정 지점 사이 중앙에 용접 연결부위가 일치하지 않도록 한다.

구조 (단위 : mm)

사용 I-BEAM	A	H	H/2	최대 지지거리				
				1 T	2 T	2.8 T	3 T	5 T
200×100×t7/10	200	200	100	4000				
250×125×t7.5/12.5	200	250	125	6200	4400	3700	3600	
300×150×t10/18.5	300	300	150	9300	6800	5800	5800	4600
350×150×t9/15	300	350	175	10200	7500	6300	6000	5900
400×150×t10/18	300	400	200	12600	9400	8000	7700	5800
450×175×t11/20	300	450	225		11000	10000	9900	7700

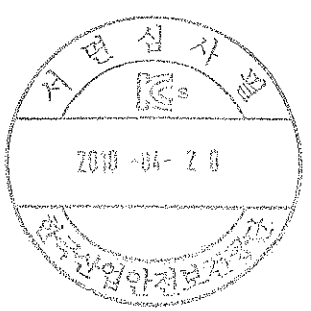
단, 사용 I-BEAM은 MODEL별 기술사양서의 BEAM 폭을 참조 할 것

* I-BEAM 고정 방법 중 용접 구조의 용접 강도

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

I-BEAM 규격	BEAM 자중 (kg/m)	용접 두께 (cm)	최소 용접길이 (cm)	1 T		2 T		2.8 T		3 T		5 T	
				HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)
200×100×t7/10	26.0	0.6	10×2	230	210.1								
250×125×t7.5/12.5	38.3	0.6	12.5×2	230	169.4	390	325.3	440	439.5	510	475.8		
300×150×t10/18.5	65.6	0.6	15.0×2	230	143.6	390	273.5	440	368.7	510	398.9	810	492.3
350×150×t9/15	58.5	0.6	15.0×2	230	143.0	390	272.9	440	368.0	510	398.3	810	491.9
400×150×t10/18	72.0	0.8	15.0×2	230	108.1	390	274.1	440	369.3	510	399.5	810	492.8
450×175×t11/20	91.7	0.8	17.5×2			390	275.8	440	371.0	510	343.9	810	494.1

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



* I-BEAM 고정 방법 중 BOLT 고정 강도

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

I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규 격	BOLT 수	BOLT 단면적 (cm^2)	1 T		2 T		2.8 T		3 T		5 T	
					HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)
200×100×t7/10	26.0	M12	4	1.13	230	394.3								
250×125×t7.5/12.5	38.3	M12	4	1.13	230	397.4	390	763.1	440	1031.1	480	1106.8		
300×150×t10/18.5	65.6	M12	4	1.13	230	404.3	390	770.0	440	1038.0	480	1114	810	1039.1
350×150×t9/15	58.5	M12	4	1.13	230	402.5	390	768.2	440	1036.2	480	1112	810	1038.1
400×150×t10/18	72.0	M16	4	2.01	230	228.2	390	433.8	440	584.5	480	627.0	810	1040.0
450×175×t11/20	91.7	M16	4	2.01			390	436.6	440	587.3	480	629.8	810	1042.8

Ⅰ-5. Ⅰ-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$Ms = \dfrac{1.05 * 38.3 * 370\text{^}2}{8} = 6882$ kg-cm

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

$M_d = 1.254 \times \dfrac{(2800 + 440) * 370}{4} = 375824$ kg-cm

* 호이스트 자중 = 440 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\Sigma M_v = M_s + M_d$ = 6882 + 375824 = 382706 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \dfrac{32.93 * 370}{2} = 6092.9$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 1.16 = 32.93 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 0.79 + 0.37 = 1.16 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	ΣMv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	375824	382706	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	589129	618093	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	639916	670391	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	812592	873072	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1015740	1159480	126.91	50764.9	4.47

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

5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{382706}{415} = 922.2 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

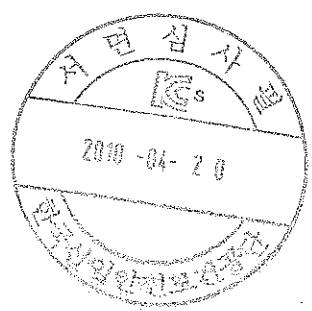
$$= \frac{6092.9}{56.2} = 108.4 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sum\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	∑Mv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	∑σ (kg/cm²)
250×125×t7.5/12.5	415	56.2	382706	6092.9	922.2	108.4	1030.6
300×150×t10/18.5	849	118	618093	17373.1	728.0	147.2	875.3
350×150×t9/15	871	95.4	670391	22090.4	769.7	231.6	1001.2
400×150×t10/18	1220	118	873072	36001.1	715.6	305.1	1020.7
450×175×t11/20	1740	177	1159480	50764.9	666.4	286.8	953.2

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 38.3 * 370\text{^}3}{384 * 2100000 * 5180} = 0.0232 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 440) \times 370\text{^}3}{48 * 2100000 * 5180} = 0.314 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.314}{370} = \frac{1}{1177} < \frac{1}{1000}$$

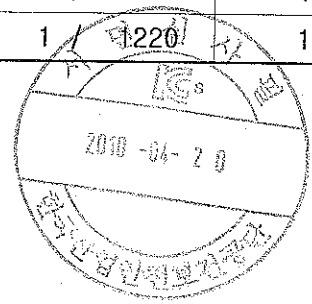
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0232+0.314}{370} = \frac{1}{1096} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.314	1 / 1177	1 / 1096
300×150×t10/18.5	12700	65.6	0.06249	0.494	1 / 1175	1 / 1043
350×150×t9/15	15200	58.5	0.05967	0.529	1 / 1191	1 / 1071
400×150×t10/18	24100	72	0.09484	0.683	1 / 1172	1 / 1029
450×175×t11/20	39200	91.7	0.14504	0.820	1 / 1220	1 / 1036

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



Ⅰ-6. Ⅰ-BEAM의 최대 지지거리

6-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 65.6 * 580\text{^}2}{8} = 28964 \text{ kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 440) * 580}{4} = 589129 \text{ kg-cm}$$

* 호이스트 자중 = 440 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 28964 + 589129 = 618093 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{59.91 * 580}{2} = 17373.1 \text{ kg-cm}$$

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 2.11 = 59.91 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 1.74 + 0.37 = 2.11 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	∑Mv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	375824	382706	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	589129	618093	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	639916	670391	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	812592	873072	90.00	36000.0	3.17
450×175×t11/20	91.7	1000	143740	1015740	1159480	126.91	50764.9	4.47

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

6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{618093}{849} = 728.0 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

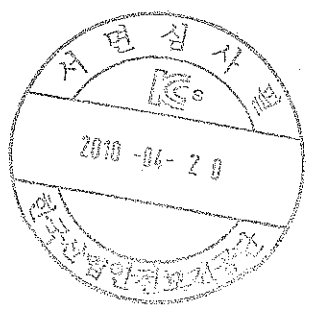
$$= \frac{17373.1}{118} = 147.2 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sum\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	∑Mv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	∑σ (kg/cm²)
250×125×t7.5/12.5	415	56.2	382706	6092.9	922.2	108.4	1030.6
300×150×t10/18.5	849	118	618093	17373.1	728.0	147.2	875.3
350×150×t9/15	871	95.4	670391	22090.4	769.7	231.6	1001.2
400×150×t10/18	1220	118	873072	36000.0	715.6	305.1	1020.7
450×175×t11/20	1740	177	1159480	50764.9	666.4	286.8	953.2

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 65.6 * 580\text{^}3}{384 * 2100000 * 5180} = 0.0625 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 440) \times 580\text{^}3}{48 * 2100000 * 5180} = 0.494 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.494}{580} = \frac{1}{1175} < \frac{1}{1000}$$

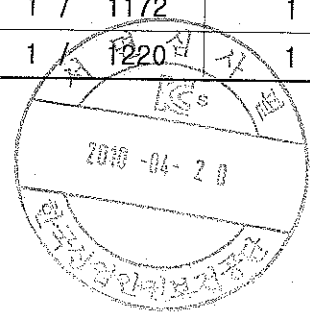
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0625+0.494}{580} = \frac{1}{1043} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.314	1 / 1177	1 / 1096
300×150×t10/18.5	12700	65.6	0.06249	0.494	1 / 1175	1 / 1043
350×150×t9/15	15200	58.5	0.05967	0.529	1 / 1191	1 / 1071
400×150×t10/18	24100	72	0.09484	0.683	1 / 1172	1 / 1029
450×175×t11/20	39200	91.7	0.14504	0.820	1 / 1220	1 / 1036

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



I-7. I-BEAM의 최대 지지거리

7-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 58.5 * 630\text{^}2}{8} = 30474 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 440) * 630}{4} = 639916 \quad \text{kg-cm}$$

* 호이스트 자중 = 440 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\Sigma M_v = M_s + M_d$ = 30474 + 639916 = 670391 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{70.13 * 630}{2} = 22090.4 \quad \text{kg-cm}$$

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 2.47 = 70.13 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 2.1 + 0.37 = 2.47 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8㎡

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	ΣMv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	375824	382706	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	589129	618093	59.91	17373.1	2.11
⇨ 350×150×t9/15	58.5	630	30474	639916	670391	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	812592	873072	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1015740	1159480	126.91	50764.9	4.47

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

7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{670391}{871} = 769.7 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

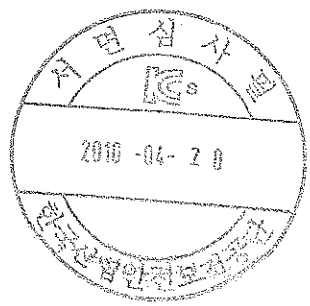
$$= \frac{22090.4}{95.4} = 231.6 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \Sigma\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣMv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	Σσ (kg/cm²)
250×125×t7.5/12.5	415	56.2	382706	6092.9	922.2	108.4	1030.6
300×150×t10/18.5	849	118	618093	17373.1	728.0	147.2	875.3
350×150×t9/15	871	95.4	670391	22090.4	769.7	231.6	1001.2
400×150×t10/18	1220	118	873072	36001.1	715.6	305.1	1020.7
450×175×t11/20	1740	177	1159480	50764.9	666.4	286.8	953.2

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 58.5 * 630\text{^}3}{384 * 2100000 * 15200} = 0.0597 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 440) \times 630\text{^}3}{48 * 2100000 * 15200} = 0.529 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.529}{630} = \frac{1}{1191} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0597+0.529}{630} = \frac{1}{1071} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.314	1 / 1177	1 / 1096
300×150×t10/18.5	12700	65.6	0.06249	0.494	1 / 1175	1 / 1043
⇨ 350×150×t9/15	15200	58.5	0.05967	0.529	1 / 1191	1 / 1071
400×150×t10/18	24100	72	0.09484	0.683	1 / 1172	1 / 1029
450×175×t11/20	39200	91.7	0.14504	0.820	1 / 1220	1 / 1036

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

Ⅰ-8. Ⅰ-BEAM의 최대 지지거리

8-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 72 * 800\text{^}2}{8} = 60480 \text{ kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 440) * 800}{4} = 812592 \text{ kg-cm}$$

* 호이스트 자중 = 440 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 60480 + 812592 = 873072 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{90 * 800}{2} = 36001.1 \text{ kg-cm}$$

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 3.17 = 90.00 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 2.8 + 0.37 = 3.17 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	∑Mv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	375824	382706	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	589129	618093	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	639916	670391	70.13	22090.4	2.47
⇨ 400×150×t10/18	72.0	800	60480	812592	873072	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1015740	1159480	126.91	50764.9	4.47

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

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{873072}{1220} = 715.6 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

$$= \frac{36001.1}{118} = 305.1 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sum\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣMv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	Σσ (kg/cm²)
250×125×t7.5/12.5	415	56.2	382706	6092.9	922.2	108.4	1030.6
300×150×t10/18.5	849	118	618093	17373.1	728.0	147.2	875.3
350×150×t9/15	871	95.4	670391	22090.4	769.7	231.6	1001.2
⇨ 400×150×t10/18	1220	118	873072	36001.1	715.6	305.1	1020.7
450×175×t11/20	1740	177	1159480	50764.9	666.4	286.8	953.2

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 72 * 800\text{^}3}{384 * 2100000 * 24100} = 0.0948 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 440) \times 800\text{^}3}{48 * 2100000 * 24100} = 0.683 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.683}{800} = \frac{1}{1172} < \frac{1}{1000}$$

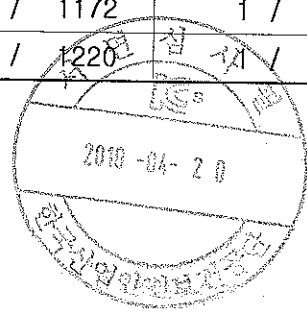
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0948+0.683}{800} = \frac{1}{1029} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.314	1 / 1177	1 / 1096
300×150×t10/18.5	12700	65.6	0.06249	0.494	1 / 1175	1 / 1043
350×150×t9/15	15200	58.5	0.05967	0.529	1 / 1191	1 / 1071
⇨ 400×150×t10/18	24100	72	0.09484	0.683	1 / 1172	1 / 1029
450×175×t11/20	39200	91.7	0.14504	0.820	1 / 1220	1 / 1036

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



I -9. I -BEAM의 최대 지지거리

9-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 91.7 * 1000^{\wedge}2}{8} = 143740 \text{ kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 440) * 1000}{4} = 1015740 \text{ kg-cm}$$

* 호이스트 자중 = 440 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 143740 + 1015740 = 1159480 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{126.91 * 800}{2} = 50764.9 \text{ kg-cm}$$

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 4.47 = 126.91 (kg)

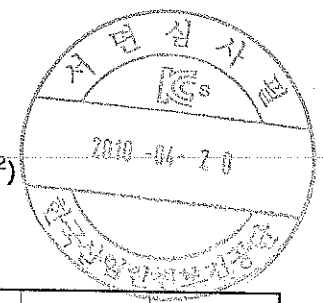
속도압 : $q = 8.5 \times \sqrt[4]{h}(kg/m^2) = 8.5 \times \sqrt[4]{60} =$ 23.66 (kg/m^2)

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 4.1 + 0.37 = 4.47 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2



I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	$\sum Mv$ (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	375824	382706	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	589129	618093	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	639916	670391	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	812592	873072	90.00	36001.1	3.17
⇨ 450×175×t11/20	91.7	1000	143740	1015740	1159480	126.91	50764.9	4.47

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

9-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{1159480}{1740} = 666.4 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

$$= \frac{50764.9}{177} = 286.8 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sum\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	∑Mv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	∑σ (kg/cm²)
250×125×t7.5/12.5	415	56.2	382706	6092.9	922.2	108.4	1030.6
300×150×t10/18.5	849	118	618093	17373.1	728.0	147.2	875.3
350×150×t9/15	871	95.4	670391	22090.4	769.7	231.6	1001.2
400×150×t10/18	1220	118	873072	36001.1	715.6	305.1	1020.7
450×175×t11/20	1740	177	1159480	50764.9	666.4	286.8	953.2

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

9-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 91.7 * 1000\text{^}3}{384 * 2100000 * 39200} = 0.145 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 440) \times 1000\text{^}3}{48 * 2100000 * 39200} = 0.820 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.820}{1000} = \frac{1}{1220} < \frac{1}{1000}$$

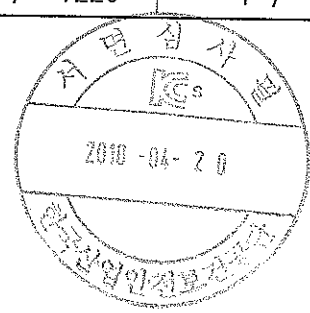
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.145+0.82}{1000} = \frac{1}{1036} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.314	1 / 1177	1 / 1096
300×150×t10/18.5	12700	65.6	0.06249	0.494	1 / 1175	1 / 1043
350×150×t9/15	15200	58.5	0.05967	0.529	1 / 1191	1 / 1071
400×150×t10/18	24100	72	0.09484	0.683	1 / 1172	1 / 1029
450×175×t11/20	39200	91.7	0.14504	0.820	1 / 1220	1 / 1036

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	12.0 A	13.2 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.6 A	CT-1	K, L	5 V.A	
⇨ 2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.1 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	7.0 A	7.7 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	10.3 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 440V 60Hz

극동호이스트㈜

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%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.6 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.5 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.9 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.6 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.5 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.9 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.8 A	6.4 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.5 A	12.7 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.5 A	12.7 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.3 A	5.9 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
⇨ 2.8T	2.5KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
3TON	2.8KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 480V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.1 A	5.8 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.3 A	6.0 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
⇨ 2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.0 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.6 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
1 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.0 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.6 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
2 TON	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	2.5KW x 6P	12.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.0 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
⇨ 2.8 TON	2.5KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.7 A	
	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
3 TON	2.8KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.7 A	
	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
5 TON	4.2KW x 8P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	34.4 A	
7.5 TON	4.2KW x 8P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	34.4 A	

NOTE

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REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	1 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.4 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
1 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.4 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
2 TON	1.8KW x 8P	6.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
	2.5KW x 6P	7.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.0 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
2.8 TON	2.5KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
3 TON	2.8KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
5 TON	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	
7.5 TON	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 440V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
1 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
2 TON	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
	2.5KW x 6P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
2.8 TON	2.5KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.9 A	
	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
3 TON	2.8KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.9 A	
	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
5 TON	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	
7.5 TON	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	1.5KW x 6P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	2.4KW x 4P	4.8 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.8 A	
1 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
2 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
2.8 TON	2.5KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
3 TON	2.8KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	
7.5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 480V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.5 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.6 A	
1 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.5 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.6 A	
2 TON	1.8KW x 8P	5.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.1 A	
	2.5KW x 6P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
2.8 TON	2.5KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
3 TON	2.8KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.8 A	
7.5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.8 A	

NOTE

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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 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	1750 RPM
11. FULL LOAD CURRENT	28.8 A
12. LOCKED ROTOR CURRENT	136.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KG.M
17. SITE 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 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	1750 RPM
11. FULL LOAD CURRENT	12.2 A
12. LOCKER ROTOR CURRENT	72.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.5 A
12. LOCKER ROTOR CURRENT	63.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.0 A
12. LOCKER ROTOR CURRENT	60.0 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	9.6 A
12. LOCKER ROTOR CURRENT	57.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KG.M
17. SITE 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	17.7 A
12. LOCKED ROTOR CURRENT	92.9 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	10.3 A
12. LOCKED ROTOR CURRENT	53.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	8.9 A
12. LOCKED ROTOR CURRENT	46.6 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	7.7 A
12. LOCKED ROTOR CURRENT	40.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	7.3 A
12. LOCKED ROTOR CURRENT	38.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	4.1 A
12. LOCKED ROTOR CURRENT	22.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1.SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.4 A
12. LOCKED ROTOR CURRENT	12.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	11.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	10.6 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	1.9 A
12. LOCKED ROTOR CURRENT	10.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	3.4 A
12. LOCKED ROTOR CURRENT	16.4 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	9.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. LOCKED ROTOR CURRENT	8.2 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. LOCKED ROTOR CURRENT	7.9 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.6 A
12. LOCKED ROTOR CURRENT	7.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	4.8/4.25 A
12. LOCKED ROTOR CURRENT	14.2/13.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 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

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.78/2.63 A
12. LOCKED ROTOR CURRENT	9.2/6.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.4/2.27 A
12. LOCKED ROTOR CURRENT	8.6/6.21 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3/2.17 A
12. LOCKED ROTOR CURRENT	8.5/6.18 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8/0.4 KW x 4/8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3/2.1 A
12. LOCKED ROTOR CURRENT	8.4/6.15 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.2/3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	12.8/10.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.85/2.08 A
12. STARTING CURRENT AT RATED VOLTAGE	7.41/6.25 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 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

EFERE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.6/1.8 A
12. STARTING CURRENT AT RATED VOLTAGE	6.4/5.4 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.5/1.72 A
12. STARTING CURRENT AT RATED VOLTAGE	6.2/5.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.4/1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	5.82/4.93 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	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

REFERENCE

ORIGINAL

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

ISSUE NO. PW9034

DATE *Jun. 03, 2009*

MILL TEST CERTIFICATE

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

TO MESSRS KISWIRE LTD.

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06 X 37 + FC 1000M X 4 REEL

EX NO. PW9034 T/T NO.

ORDER NO. REEL NO. 1~4 SAMPLING NO. 1

DIAMETER OF ROPE 9.0 mm TYPE OF CORE Fiber Core

SPECIFIED BREAKING LOAD 45.9 kN SAMPLE BROKE AT 51.6 kN

WT. OF ZINC COATING OF OUTER WIRE MIN. g/m^2 MAX. g/m^2

ROPE LAY RHRL LAY LENGTH 58.2 mm

LUBRICATION A-2

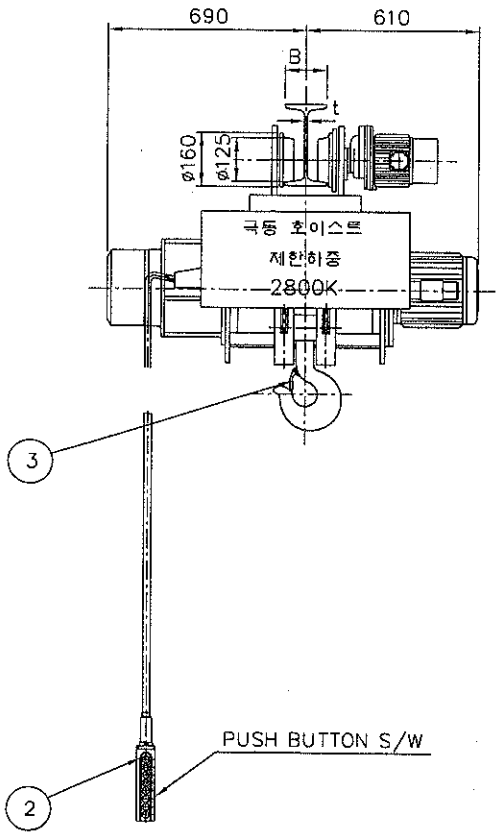
CHEMICAL ANALYSIS OF WIRE ROD

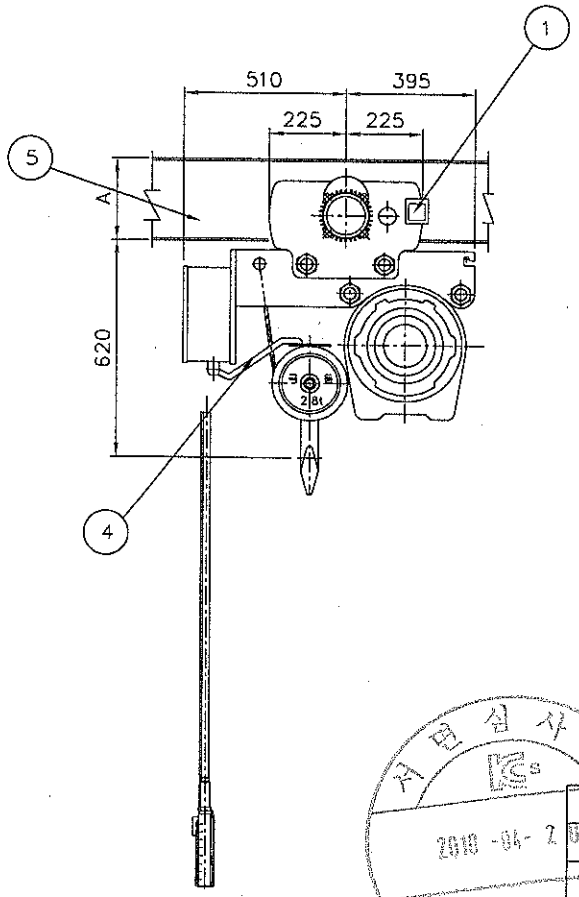
CHARGE NO.	C×100	Si×100	Mn×100	P×1000	S×1000
053358E	70	20	75	16	5

DATE OF SAMPLE TEST *Jun. 03, 2009*

CHIEF INSPECTOR D.S.NA
KISWIRE QINGDAO LTD.

REFERENCE





SPECIFICATION			
RATED LOAD		2800 KG	
TESTING LOAD		3500 KG	
LIFT		9 M	
RATING		30 MIN	
HOISTING	HIGH	SPEED	9 M/MIN
		MOTOR	5.0 KW x 4 P
	LOW	SPEED	4.5 M/MIN
		MOTOR	2.5 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.75 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.5 KW x 6 P
	DUAL HIGH	SPEED	24/12 M/MIN
		MOTOR	0.8/0.4 KW x 4/8 P
	DUAL LOW	SPEED	16/8 M/MIN
		MOTOR	0.5/0.25 KW x 6/12 P
WIRE ROPE		(6x37) ø9 x 4 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480)V 60Hz	
COLOR		10 B 3/5	
WEIGHT		510 KG	

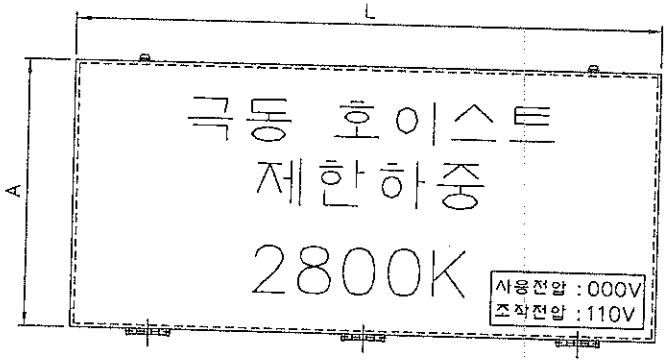
NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
5	I-BEAM	SS400		-			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SPC		1			
2	EMERGENCY S/W	—		1			
1	LOAD LIMITER	—		1			

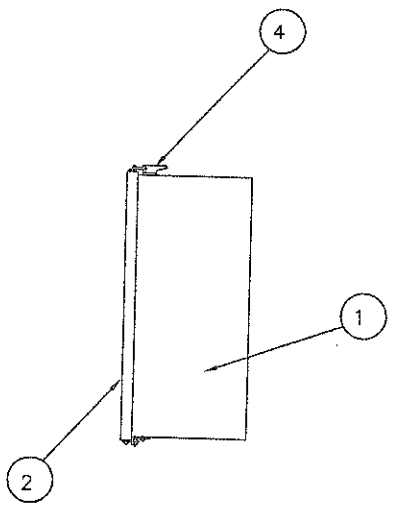
TRAVERSING I- BEAM A x B x t	Ix (Cm^4)	Zx (Cm^3)	SUPPORT LENGTH
I 250 x 125 x 7.5	5180	414	MAX. 3.6M
I 300 x 150 x 10	12700	849	MAX. 5.7M
I 350 x 150 x 9	15200	871	MAX. 6.2M
I 400 x 150 x 10	24000	887	MAX. 7.8M
I 450 x 150 x 10	39200	1740	MAX. 10M

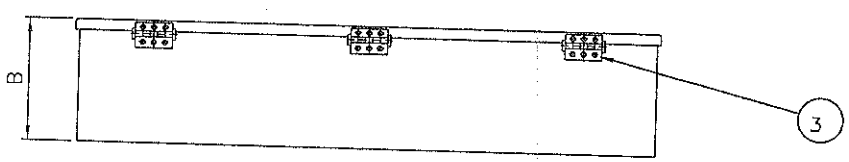
PROJECT		DATE 20 . . .
TITLE	KD2.8L- H/L 9 - H/L TS ARRANGEMENT DRAWING FOR HOIST	SCALE A3/20 /
DRAWN	DESIGNED / CHECKED / APPROVED	REF DRAWING
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET NO.	DRAWING NO. KD28L - 9000

KD28EB00

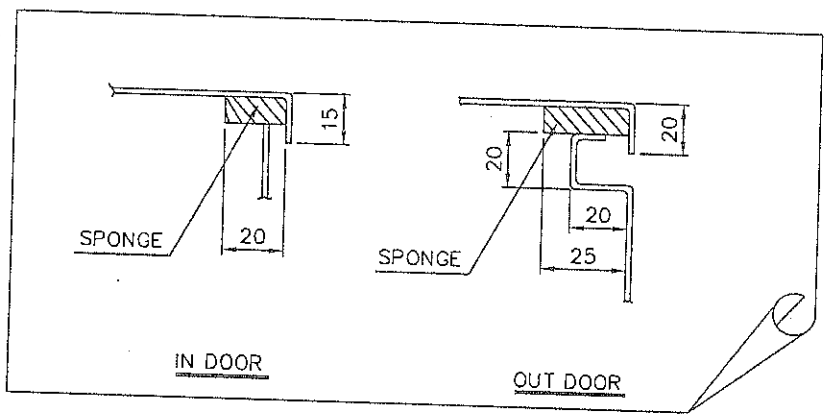
ADR'S NO.







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'	



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

N O T E

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 개방 구조는 다음과 같다.

1) 외함 개방시 충전부 부분이 차단되도록 한다.

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

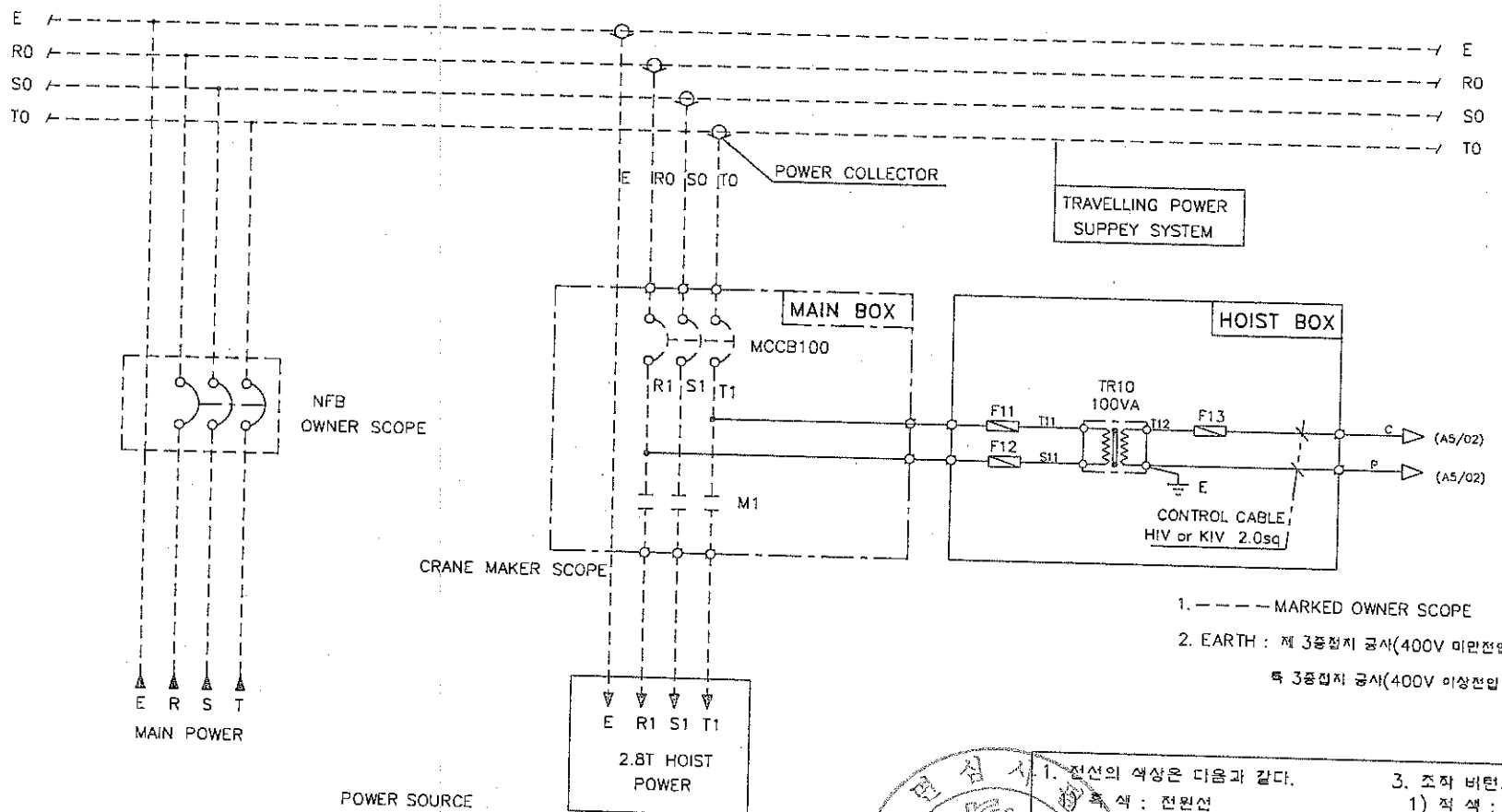
DWG. NO: KD28EB00

KD28E001

POWER CIRCUIT

TRAVELLING POWER SUPPLY SYSTEM

ADR'S NO. 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 3ø 60Hz

SELECTION	VOLTAGE	F11 F12	F13	MCCB100
	220V	2A	3A	53AF/40AT
	380V	1A	3A	33AF/20AT
	440V	1A	3A	33AF/20AT
	460V	1A	3A	33AF/20AT
	480V	1A	3A	33AF/20AT

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 고류제어선
   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.
4				
3				
2				
1				

CUSTOMER

DRAWING TITLE: MAIN POWER CIRCUIT 1 DIAGRAM

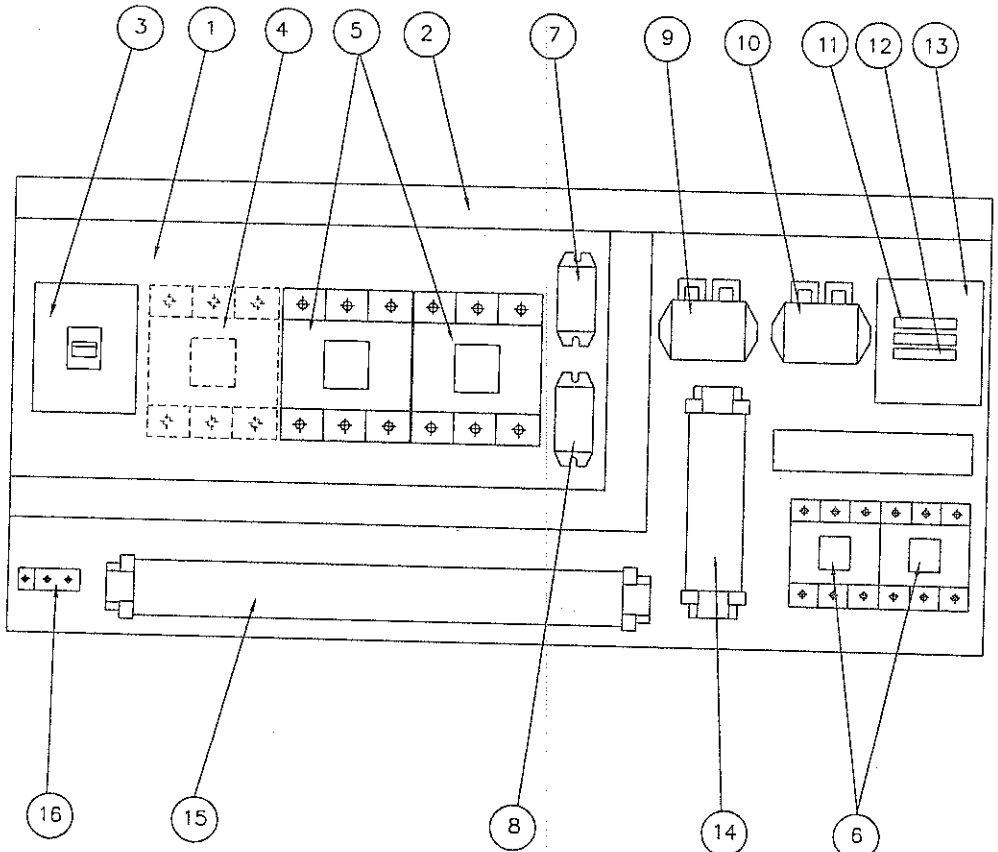
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KD28E001

KD28BA21

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	53AF/40AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-40P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-65P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 전원선
2) 적색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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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⚠				
⚠				

CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (고속)

ARRANGEMENT DRAWING

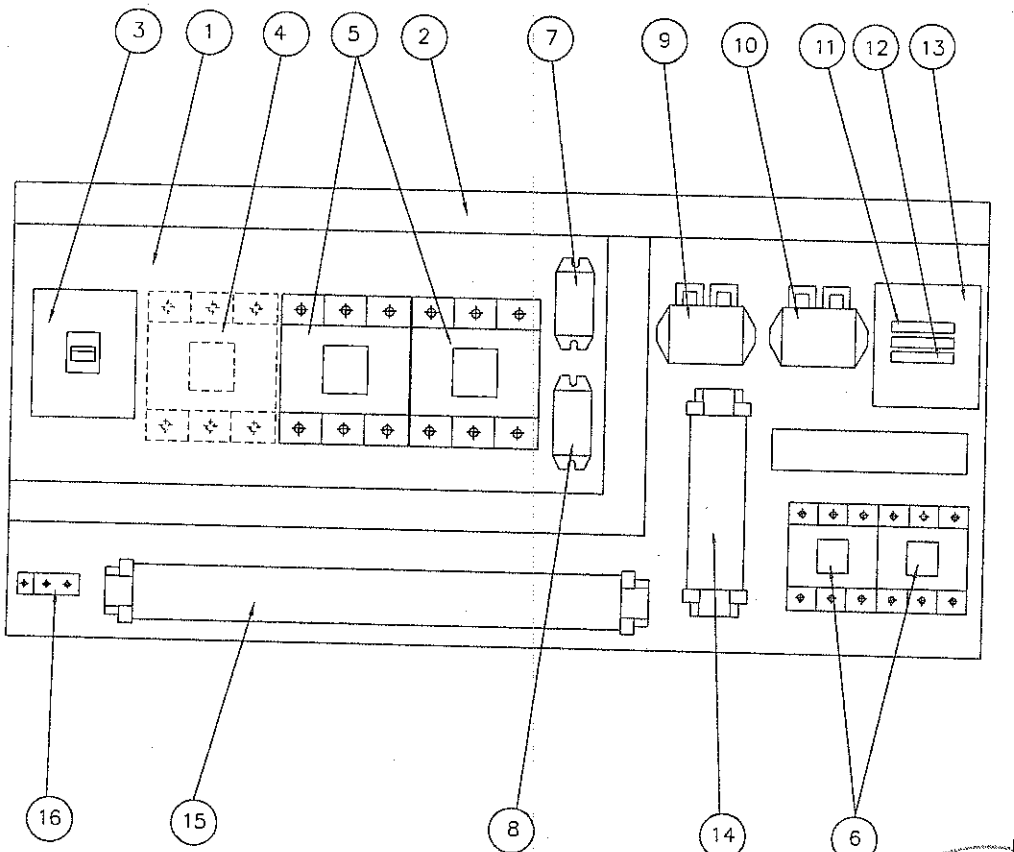
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA21

KD28BA22

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-40P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-48P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

검사필 KS 2018-04-20 한국산업안전보건공단

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CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA22	

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

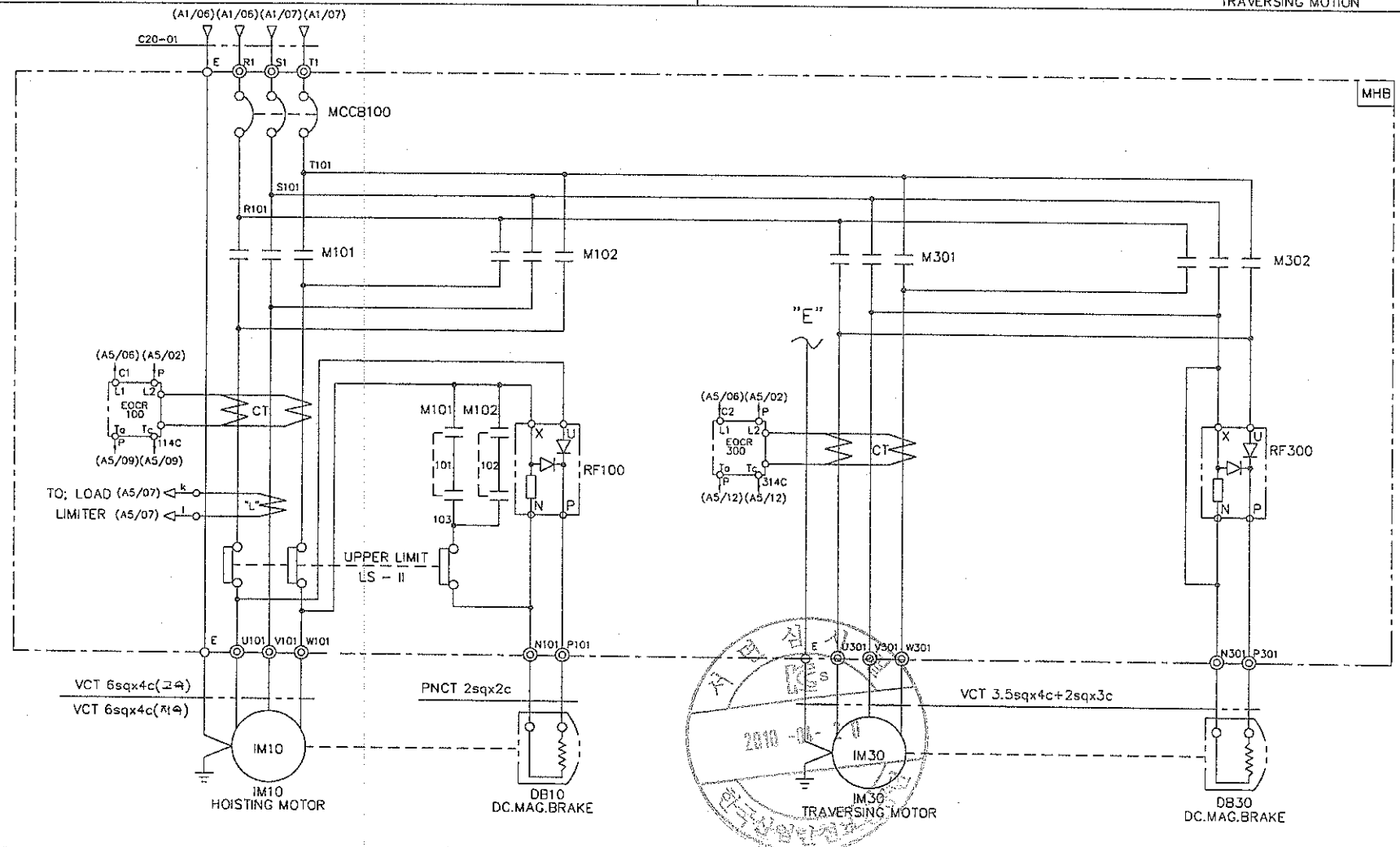
KD28E21

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	KUKDONG				DARYUK	WOONYOUNG	-		DARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

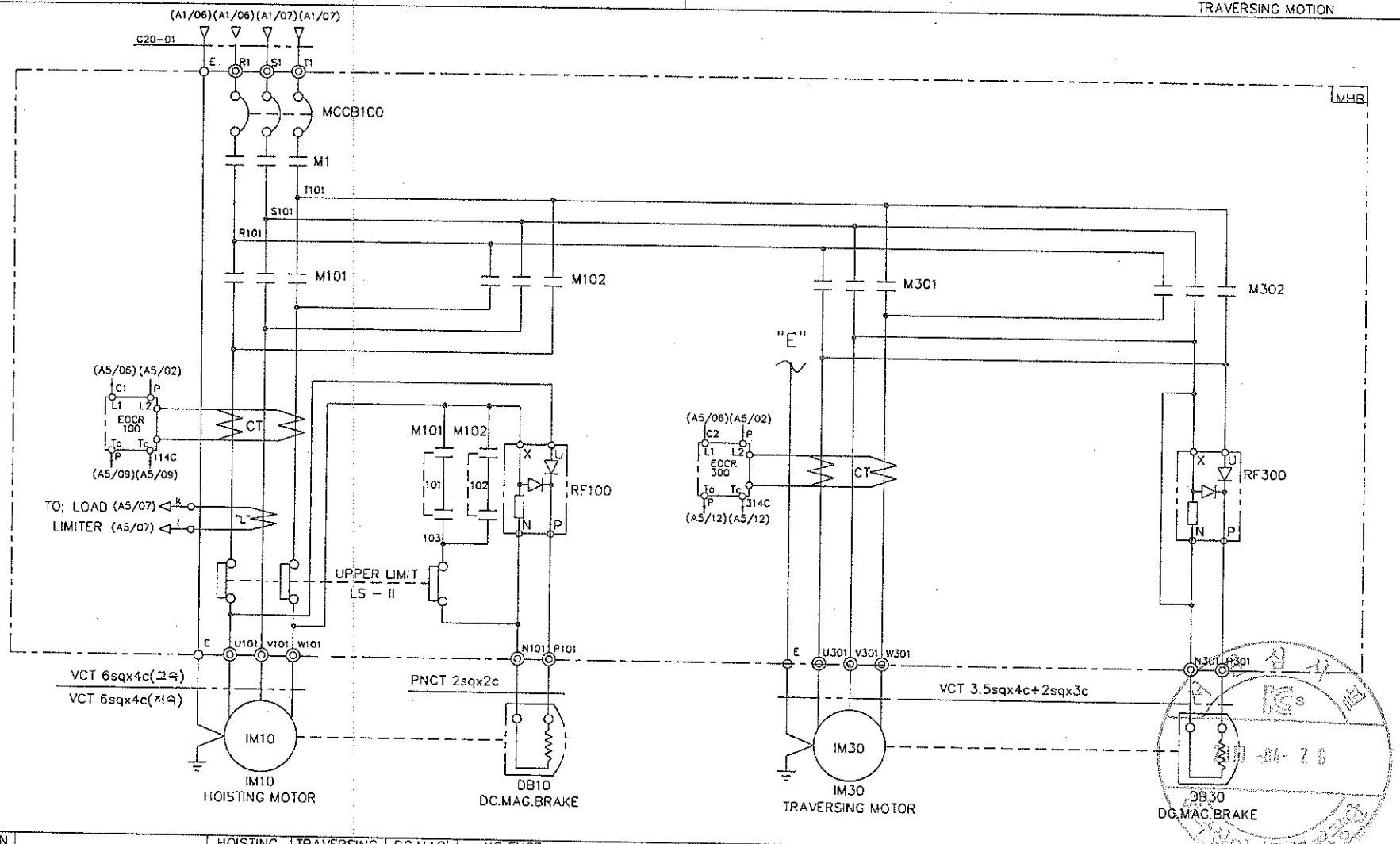
DWG. NO: KD28E21

KD28E22

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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	8.5KW1Ø 4P	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-48P	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-40P	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	KUKDONG				DARYUK	SHINWHAN	-		DARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E22

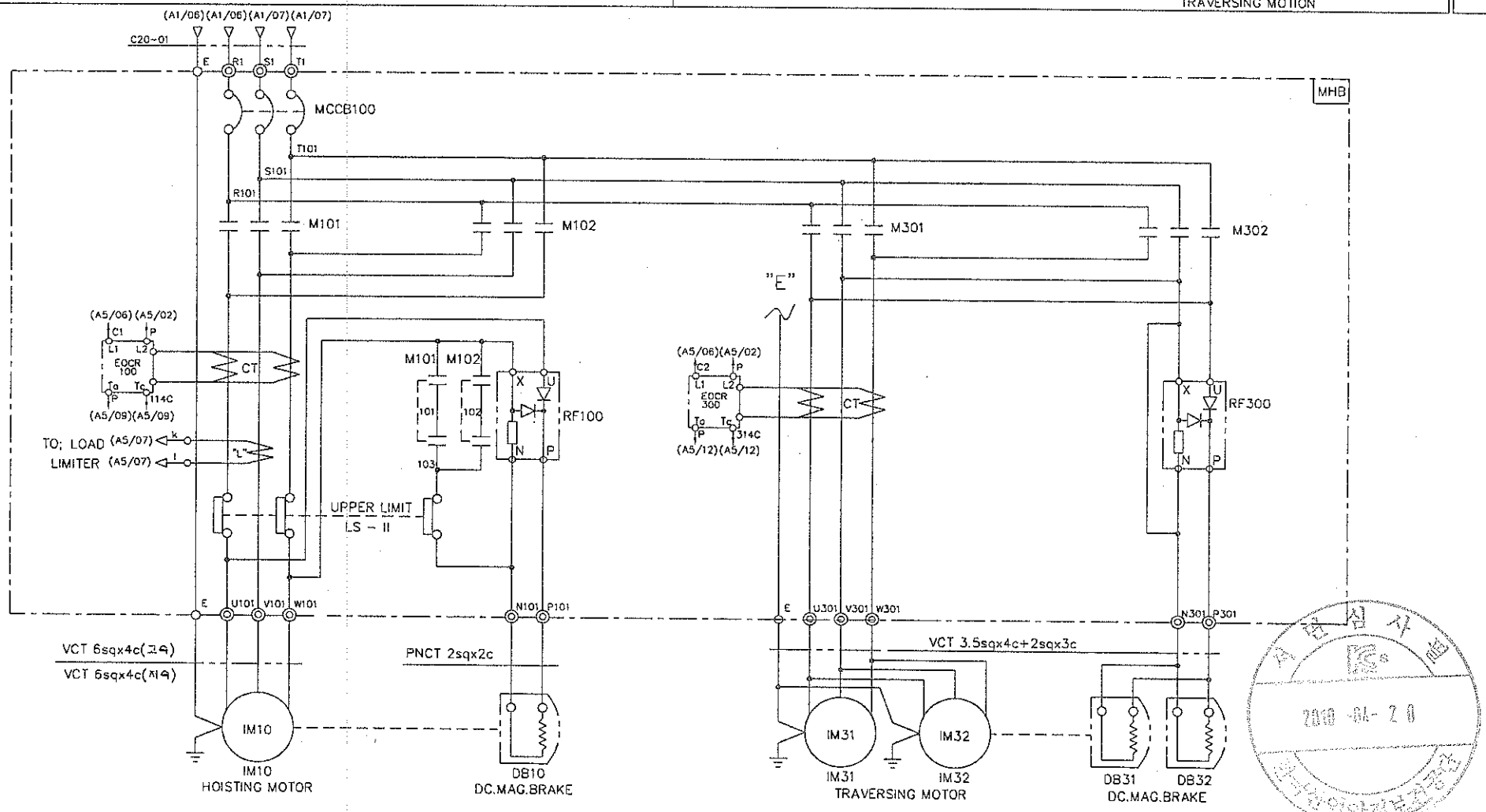
KD28E23

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION / MAKER	KUKDONG				DAERYUK	SHINWHAN	-		DAERYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E23

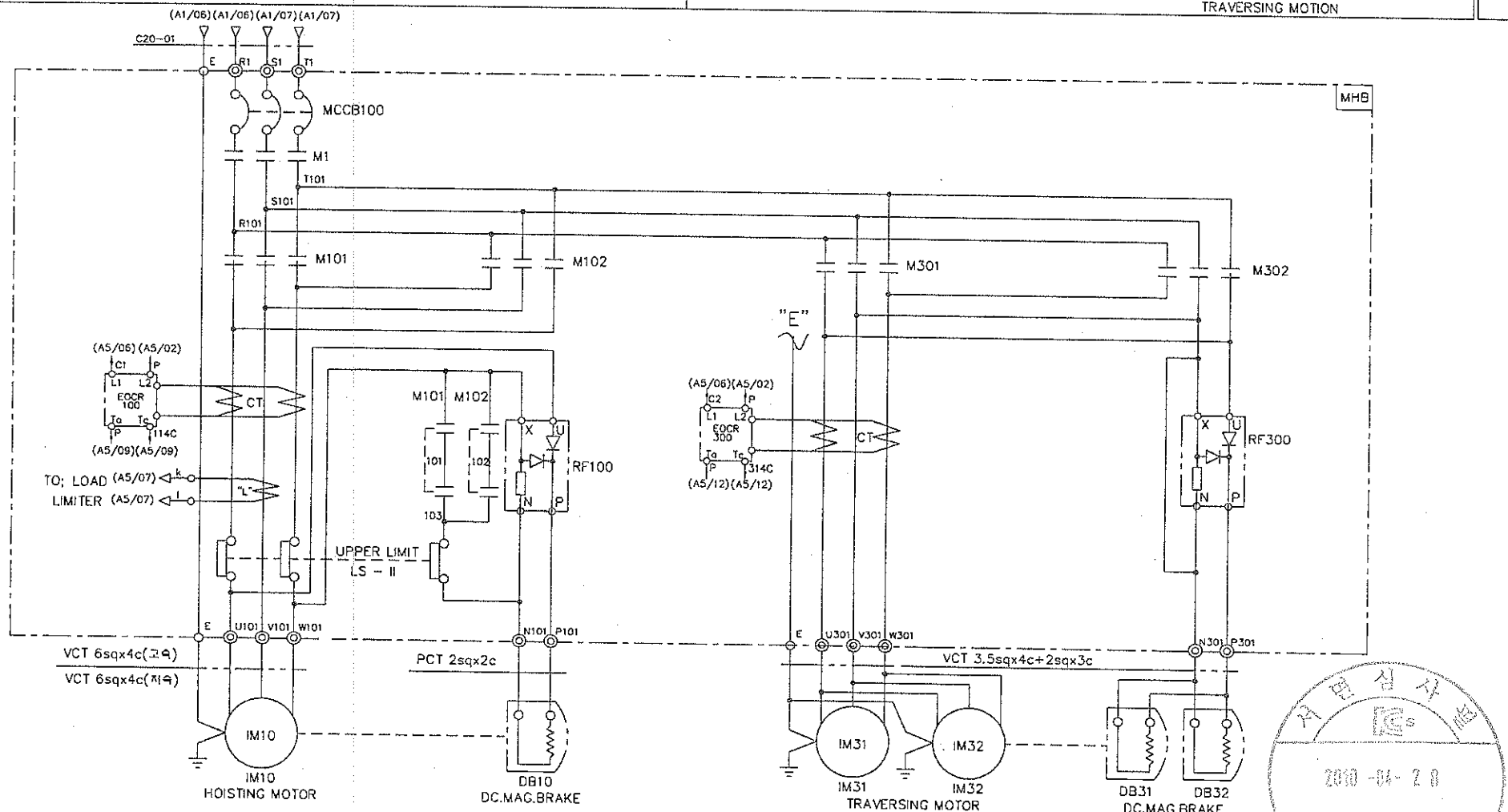
KD28E24

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 220V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBS-53AF/40AT	220/110V,100VA	2A	3A	DOC-48P	DOC-65P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
SELECTION	2.8TON AC 3PH 220V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/30AT	220/110V,100VA	2A	3A	DOC-40P	DOC-48P	DOC-22P	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 8sqx4c
MAKER	KUKDONG				DAERYUK	SHINWHAN	-		DAERYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

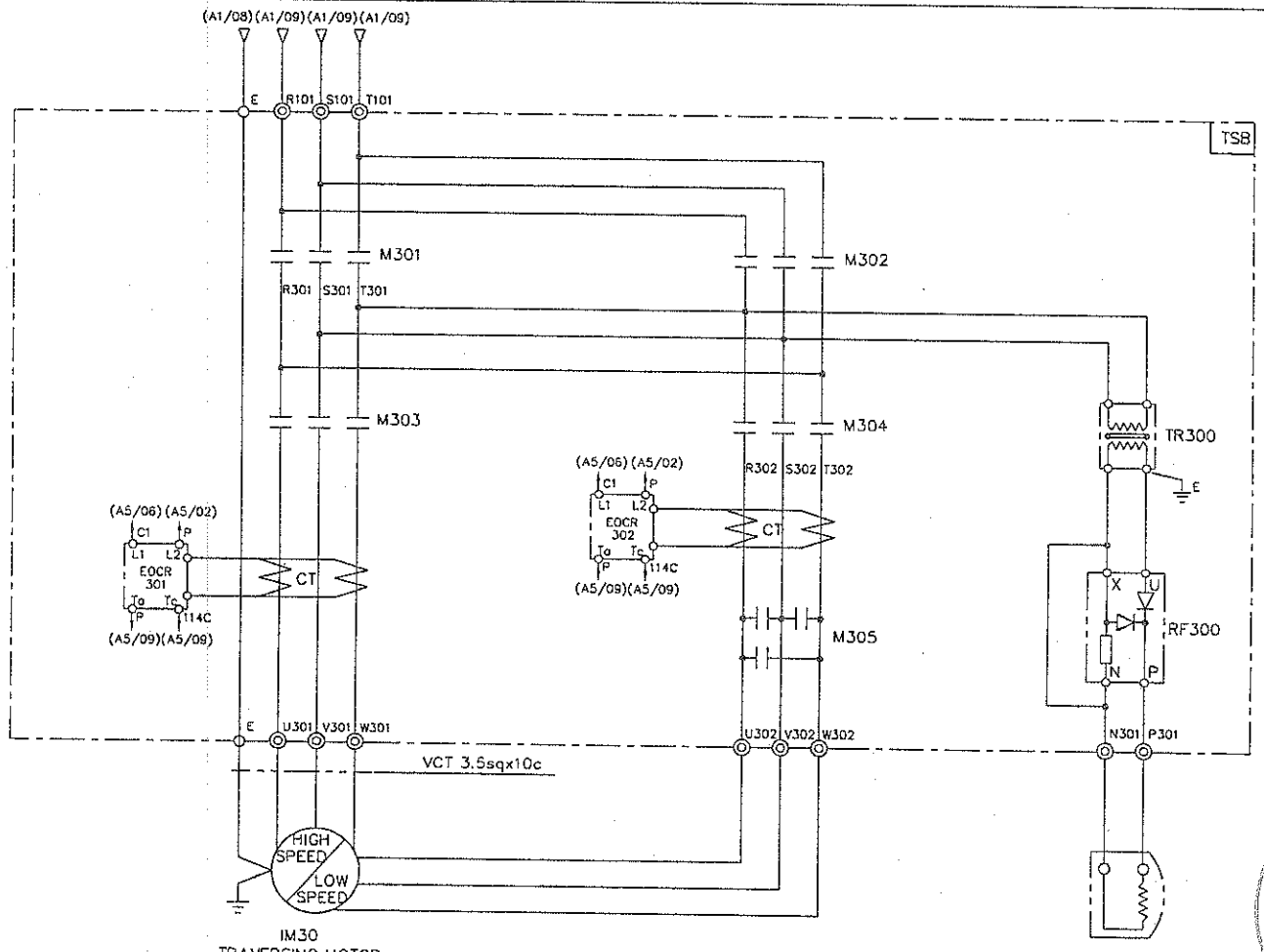
DWG. NO: KD28E24

KD28E025

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	220V	0.5/0.25KWx6/12P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC220/220V, 300VA
	220V	0.8/0.4KWx4/8P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC220/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD28E025

KD28E026

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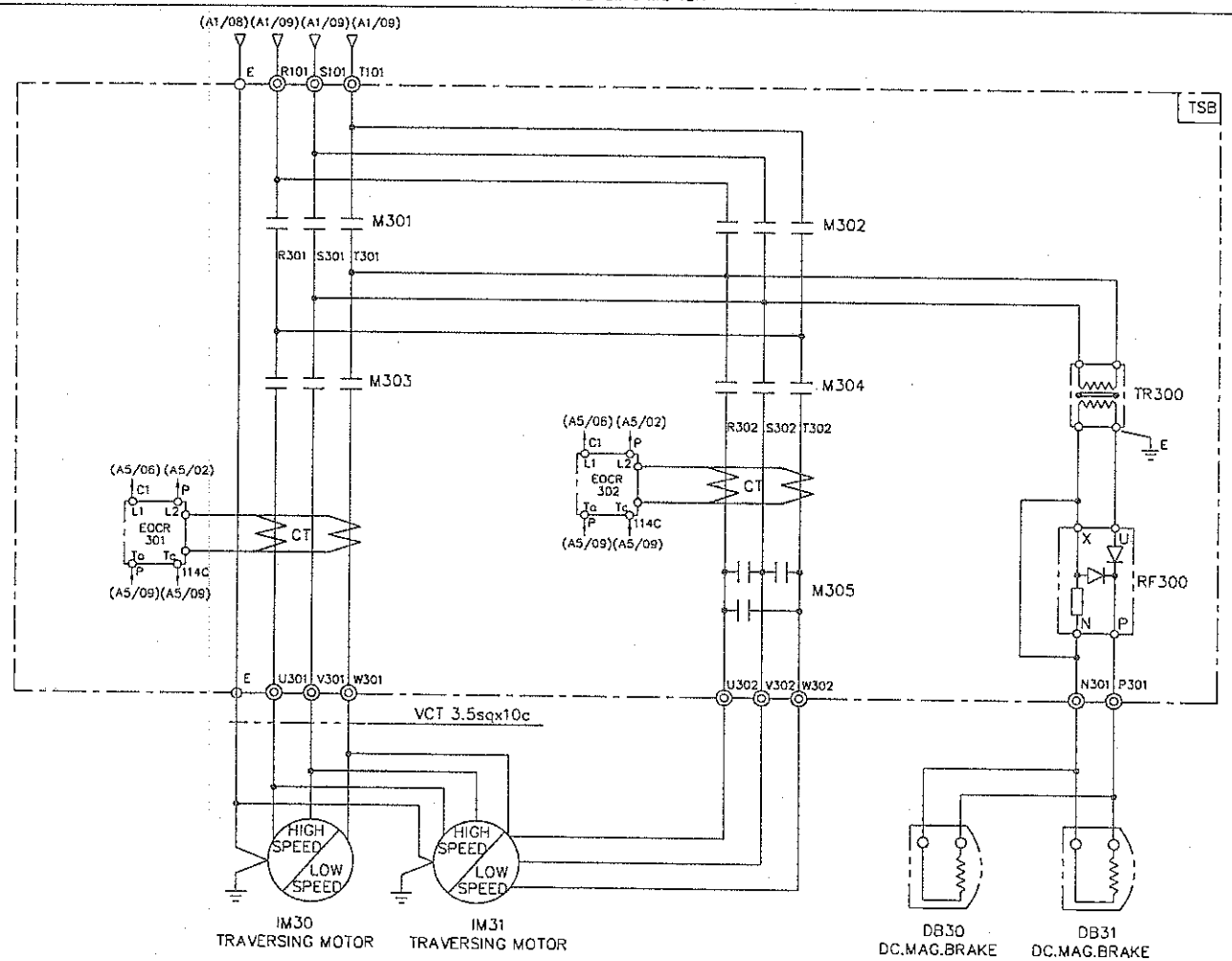
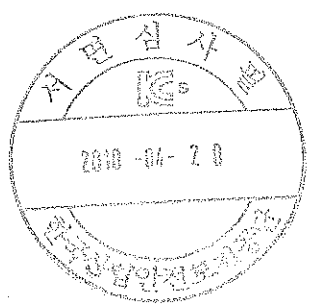
POWER CIRCUIT

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	220V	0.5/0.25KWx6/12P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC220/220V, 300VA
	220V	0.8/0.4KWx4/8P AC3PH 220V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-30	AC220/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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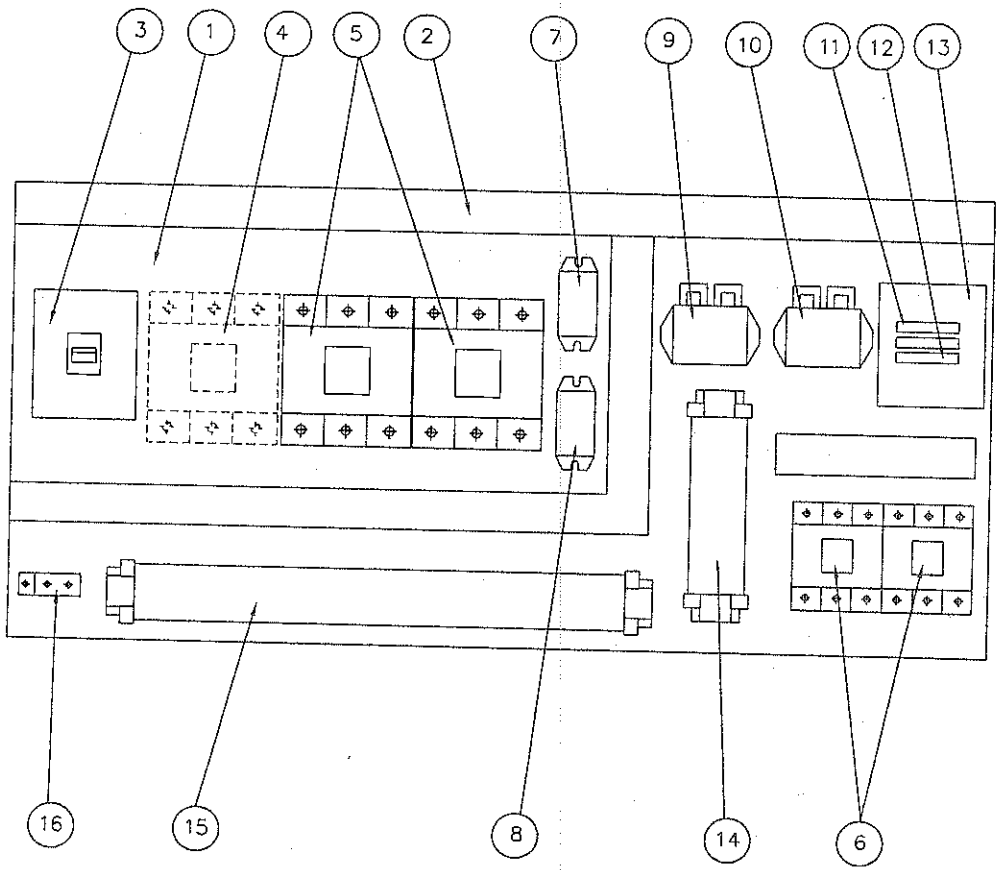
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT DIAGRAM					NONE		
	극동호이스트 주식회사 KUK DONG HOIST CO., LTD.					DWG. NO	KD28E026	

KD28BA31



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

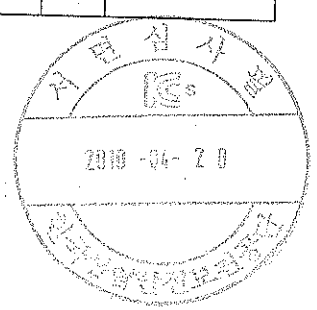
NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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: HOIST CONTROL BOX (고속)

ARRANGEMENT DRAWING

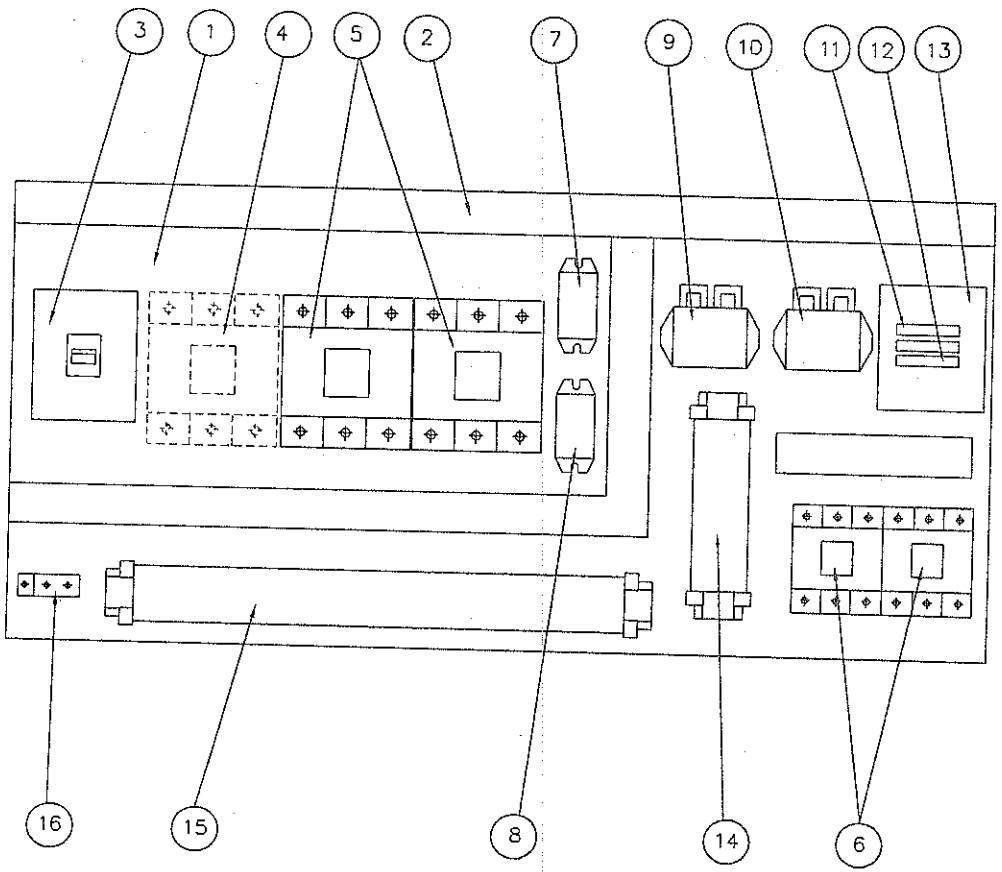
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA31

ADR'S NO.

KD28BA32



NO	DESCRIPTION	SPECIFICATION	O'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

ADR'S NO.

NOTE

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

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 고류제어선
   3) 황 색 : 직류제어선
   4) 녹색 또는 녹색과 노랑 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.

검토완료
2018-04-20
한국산업안전보건공단

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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (저속)

ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA32

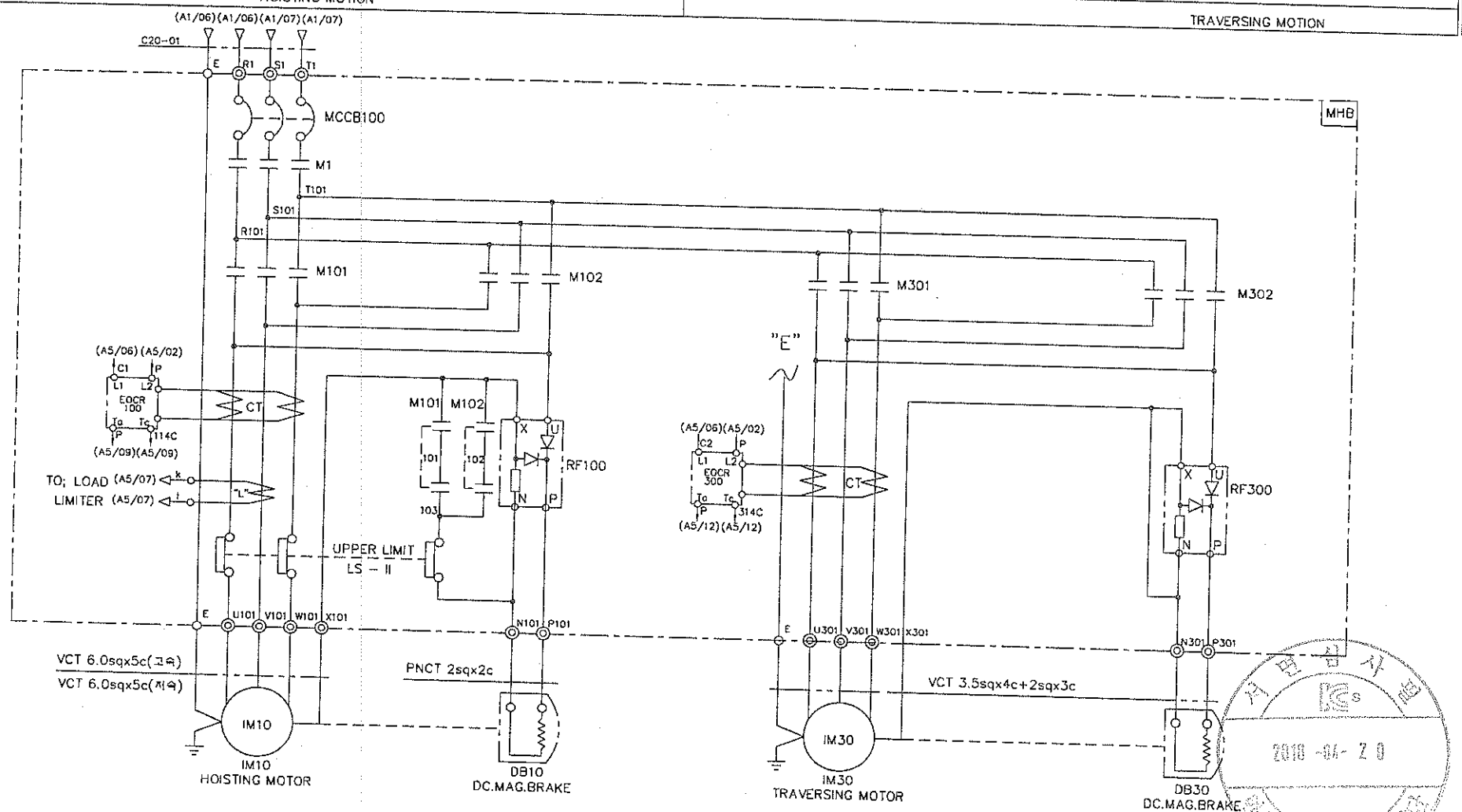
KD28E31

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E31

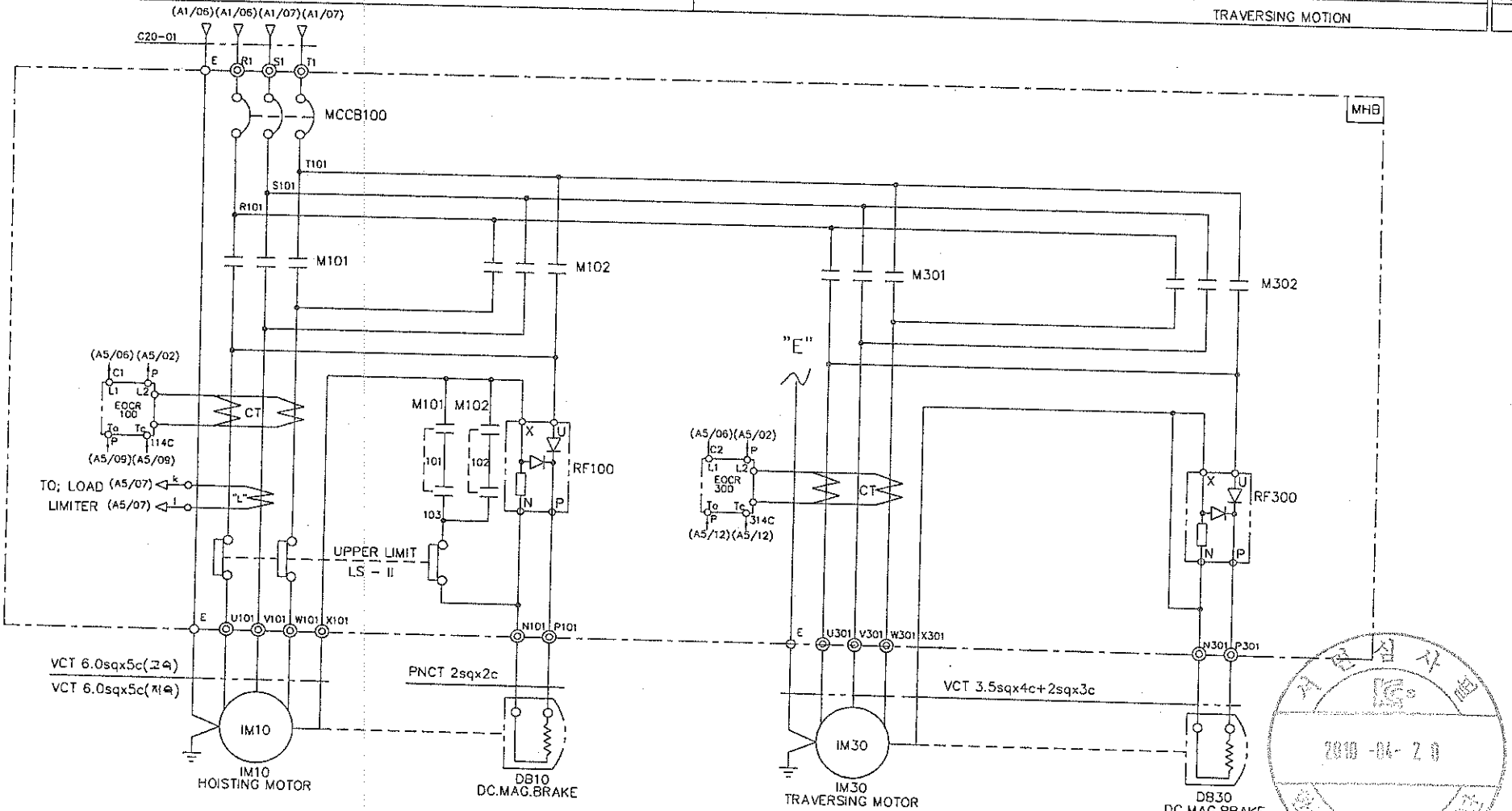
KD28E32

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E32

2010 -04- 20

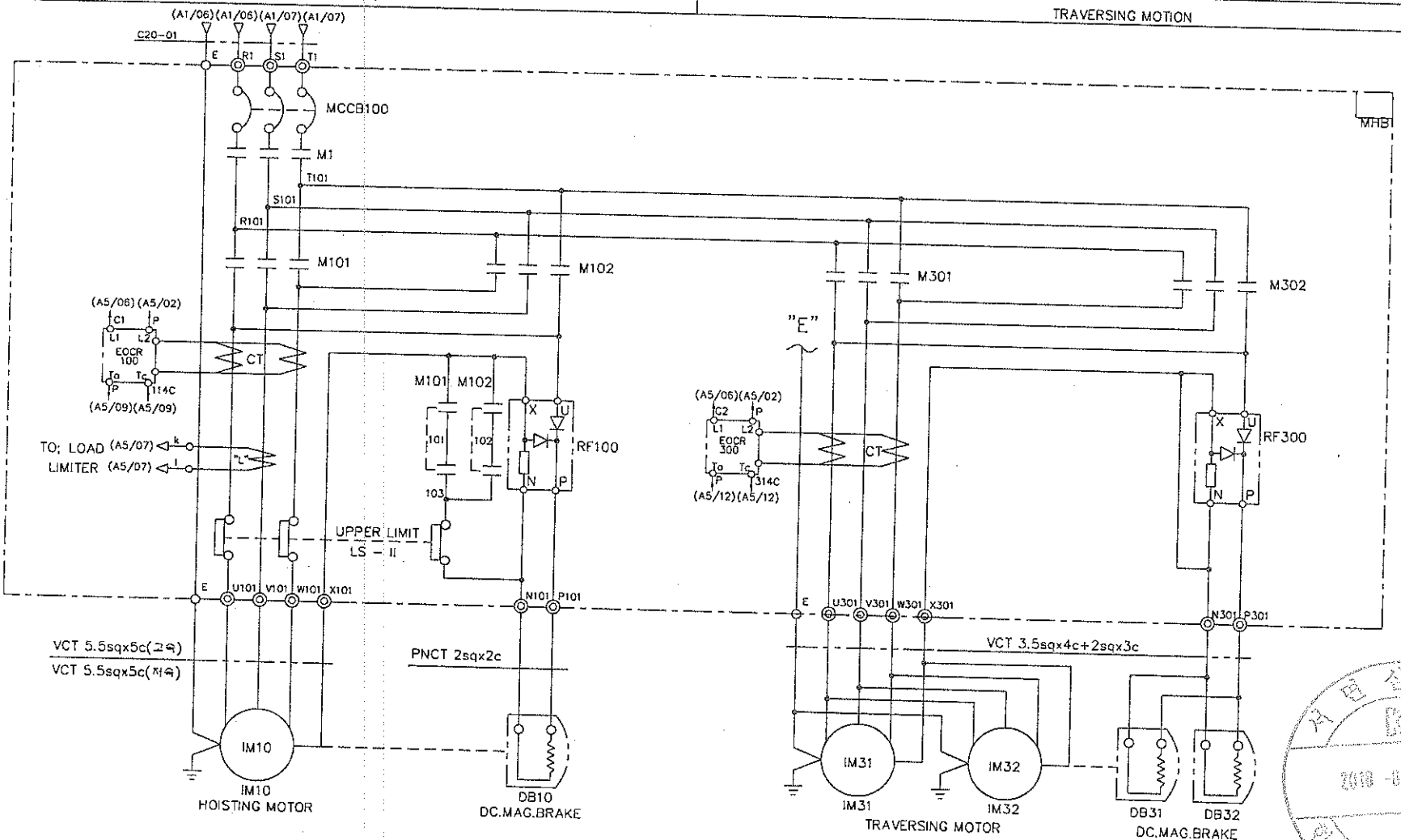
KD28E33

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



검토심사필
DG
2010 -04- 20

SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

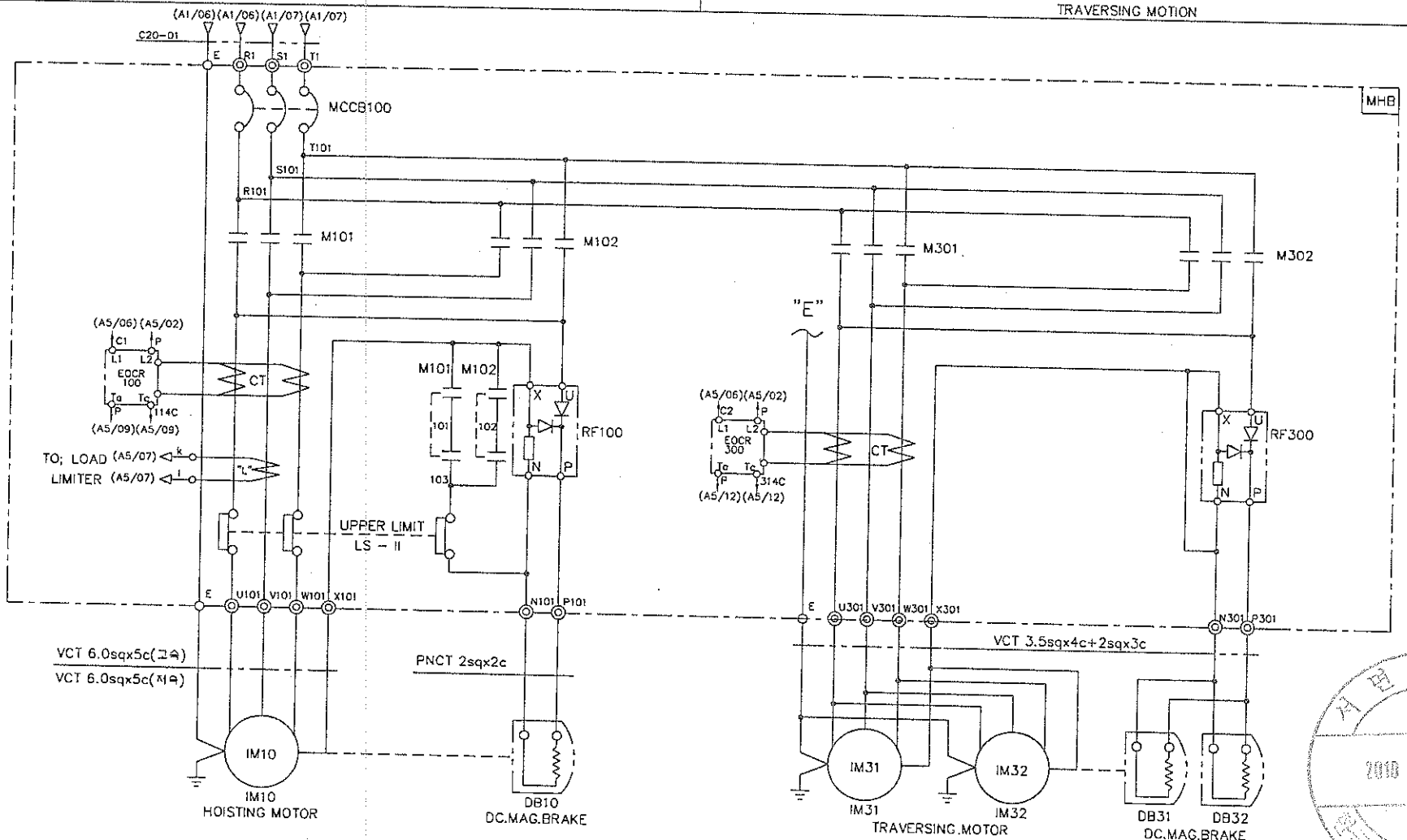
DWG. NO: KD28E33

KD28E34

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	380/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD28E34

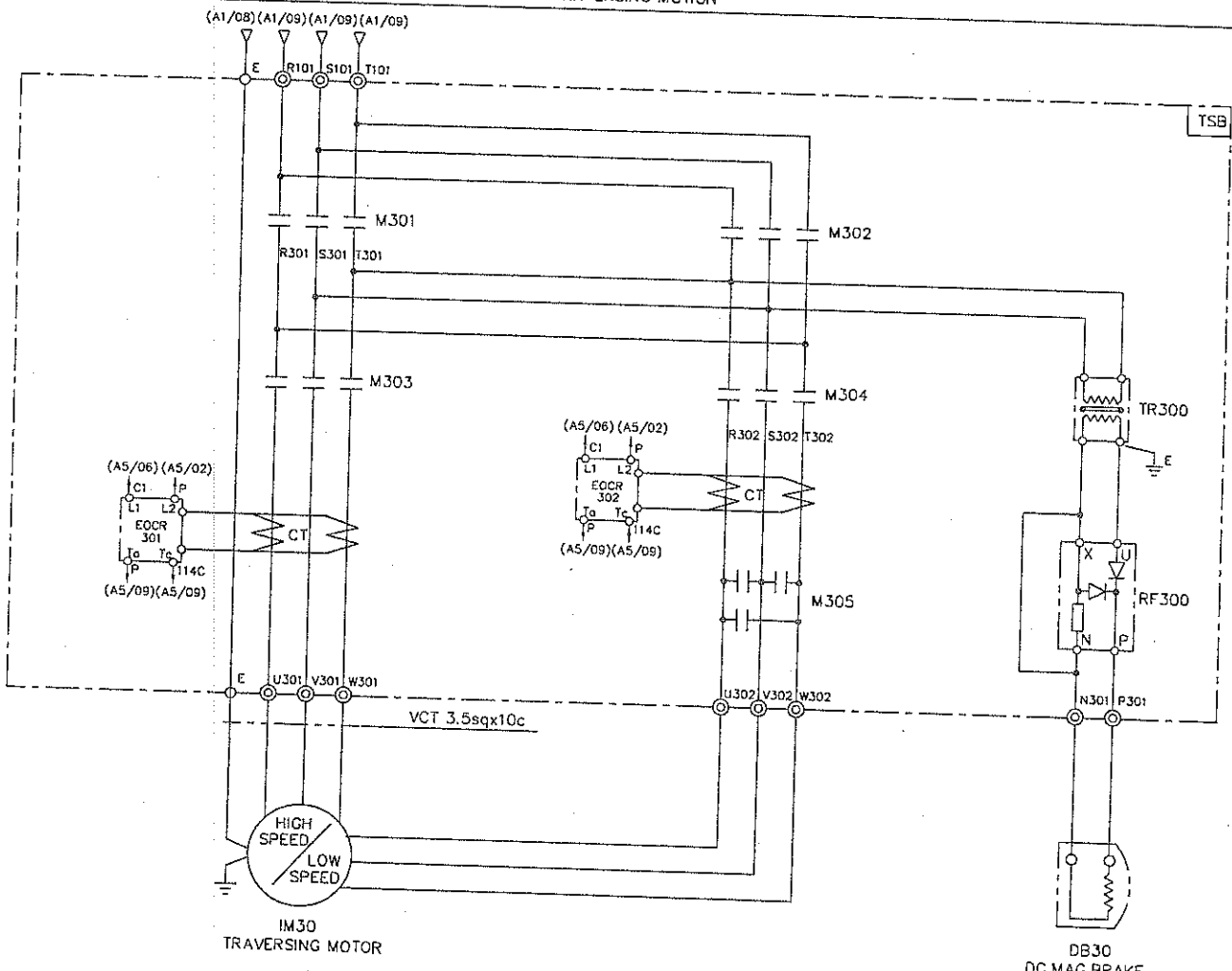
2018 -04- 20

KD28E035

POWER CIRCUIT

TRAVERSING MOTION

ADR'S NO. C2



지면심사필
2008-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	380V	0.5/0254KWx6/12P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
	380V	0.8/0.4KWx4/8P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

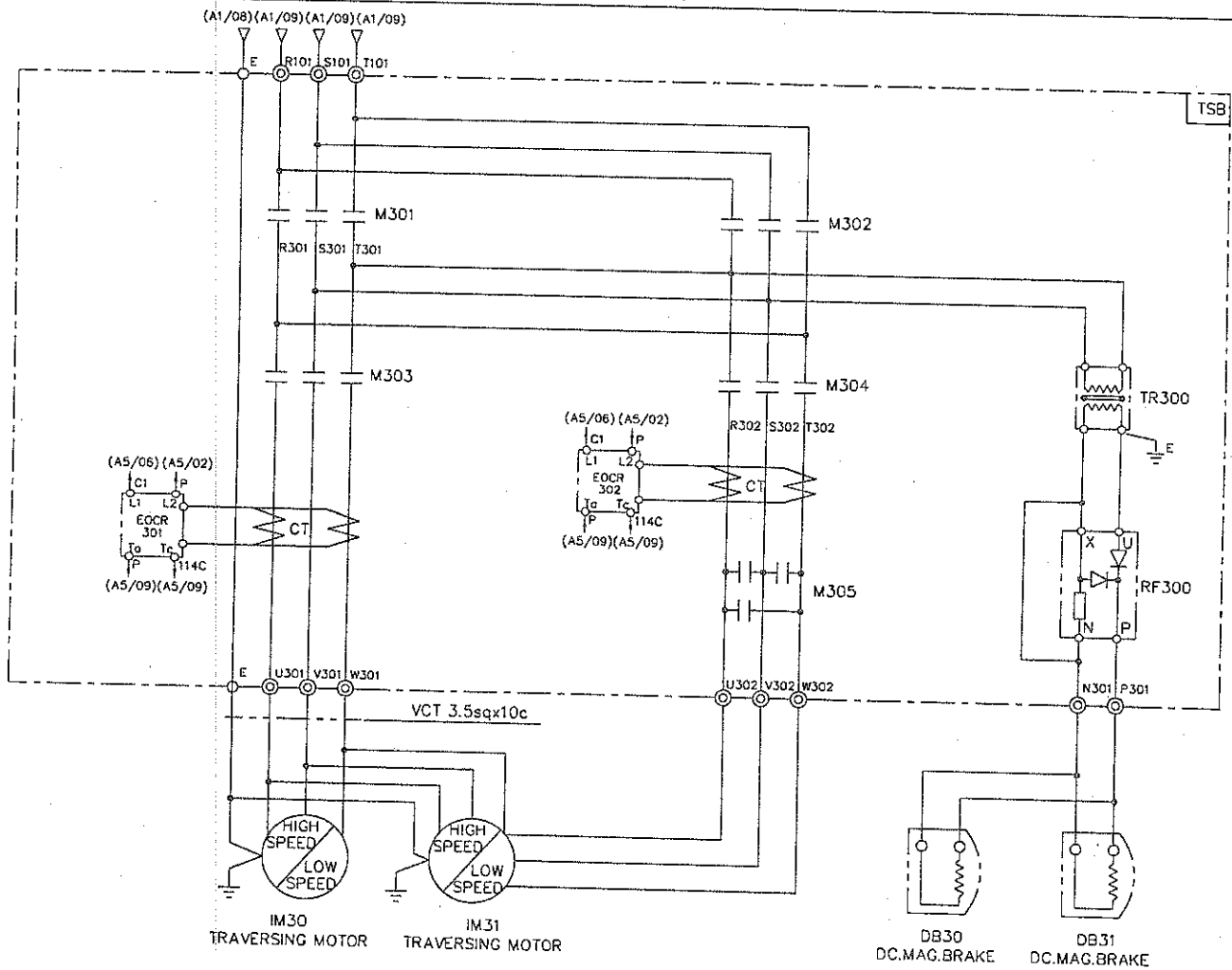
DWG. NO: KD28E035

KD28E036

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	380V	0.5/0.25KWx6/12P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
	380V	0.8/0.4KWx4/8P AC3PH 380V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC380/220V, 300VA
SELECTION / MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

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CUSTOMER

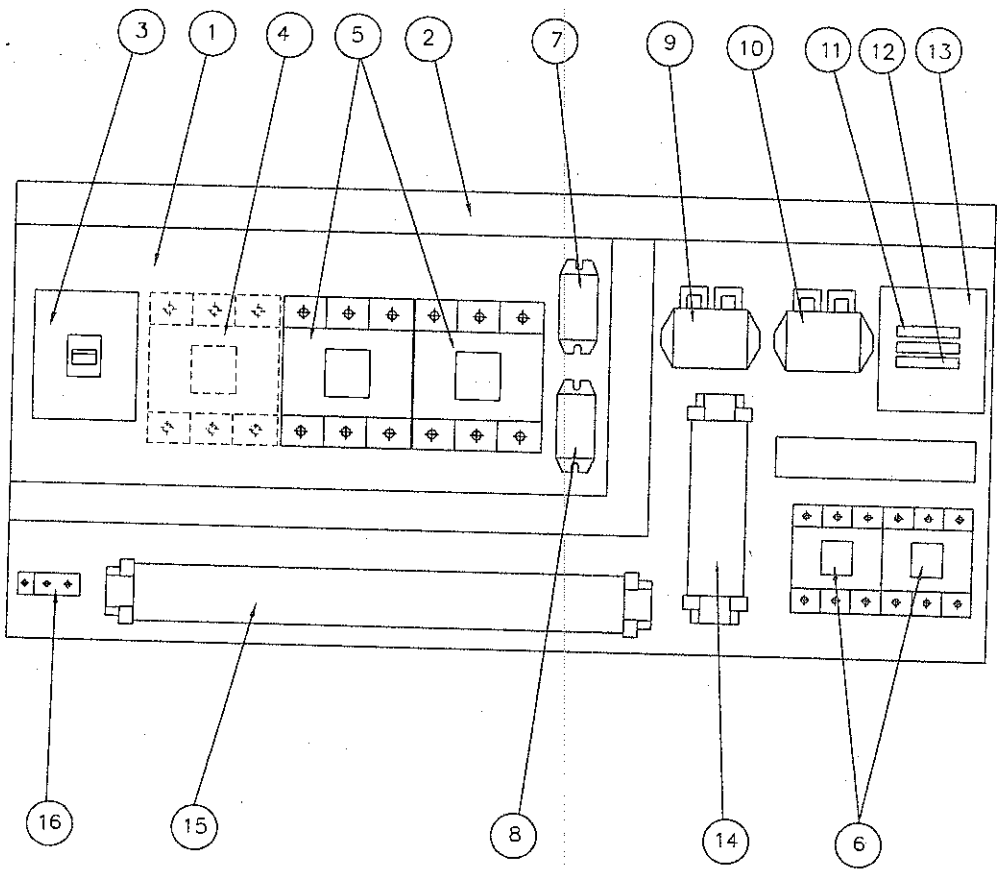
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E036

KD28BA41



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 드 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

ADR'S NO.

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 황 색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

검 사 필
KG
2010 -04- 20

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CUSTOMER

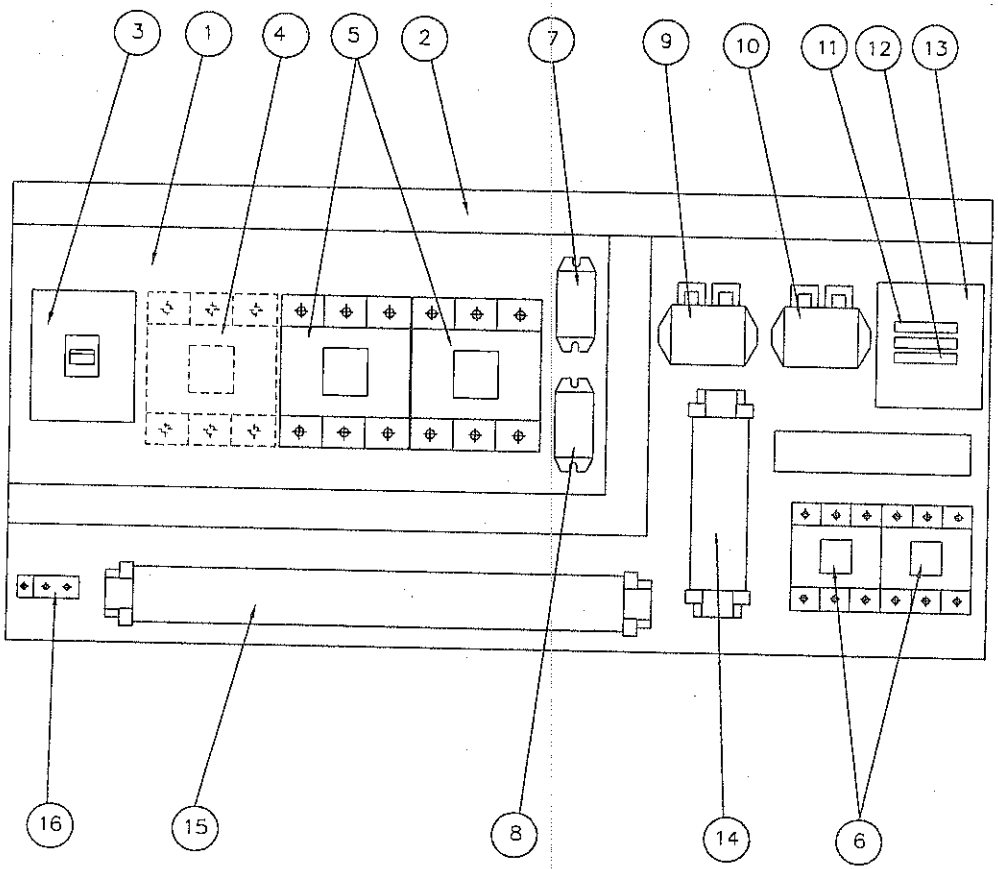
DRAWING TITLE: HOIST CONTROL BOX (고속) / ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA41

KD28BA42



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

ADR'S NO.

NOTE

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

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 교류제어선
   3) 황 색 : 직류제어선
   4) 녹색 또는 녹색과 노랑 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.

2018 -04- 20

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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (저속)

ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

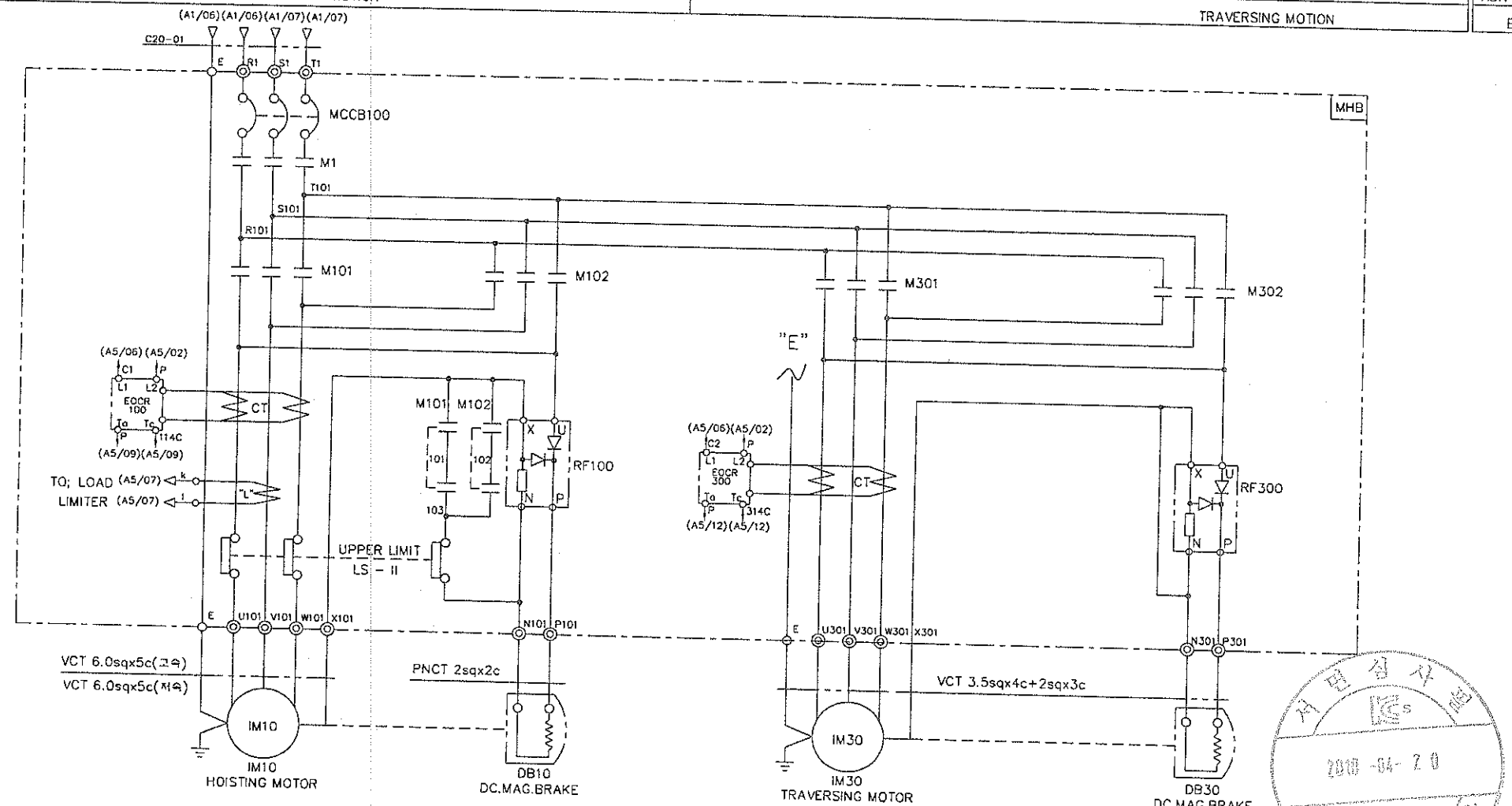
DWG. NO: KD28BA42

KD28E41

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC.MAG BRAKE	NO.FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
DESCRIPTION	HOIST	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E41

KD28E42

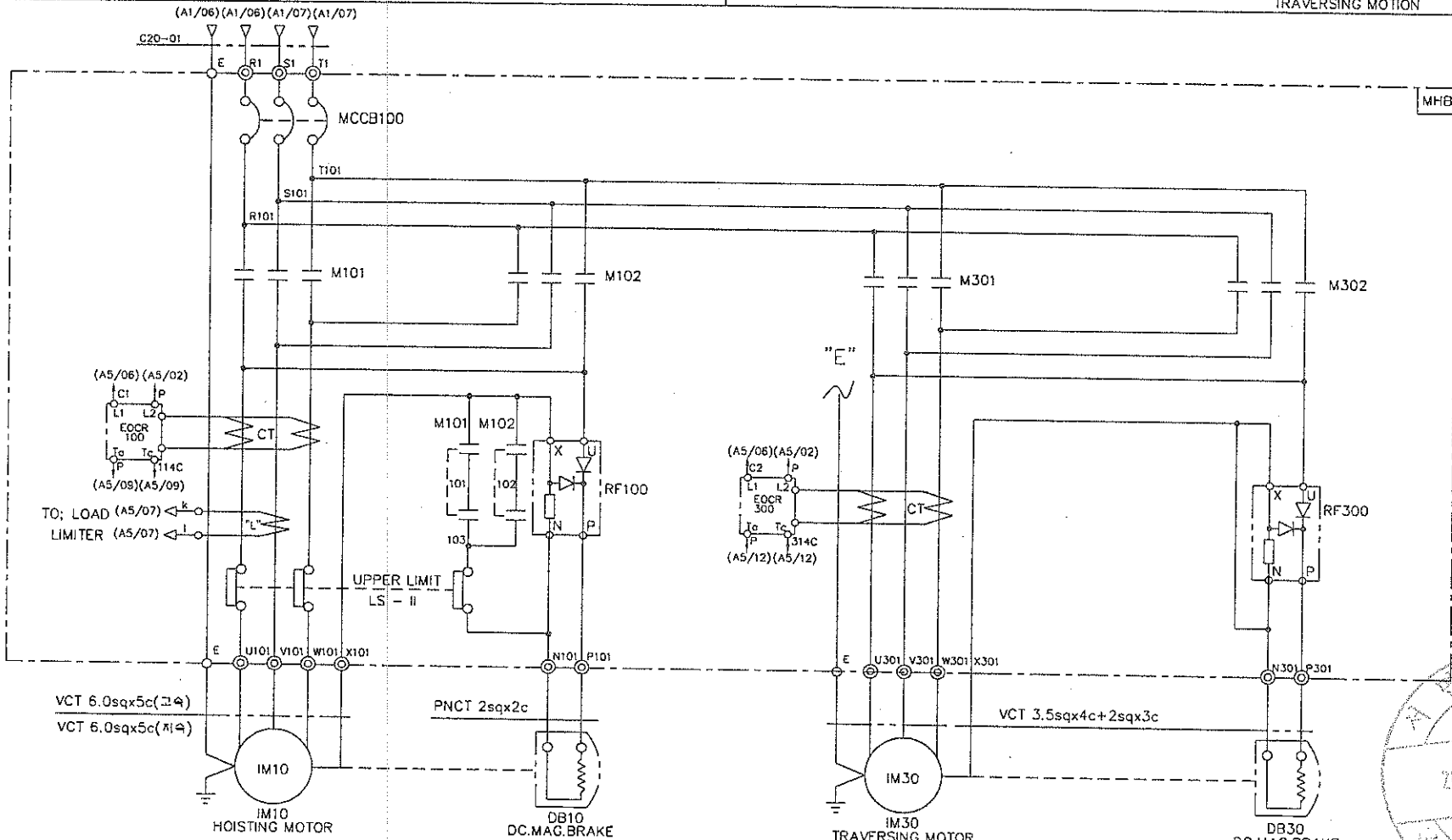
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION

TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E42

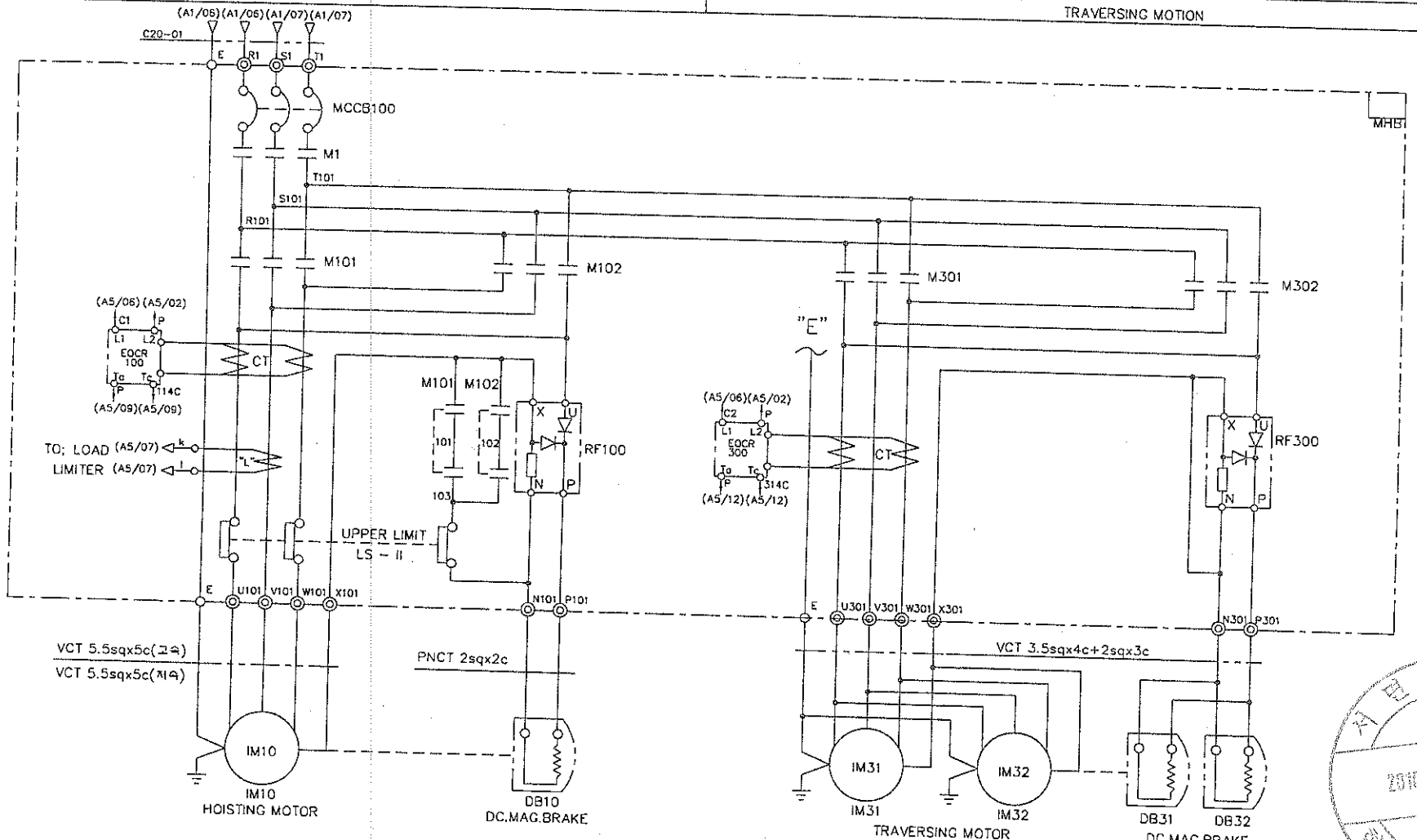
KD28E43

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION MAKER	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E43

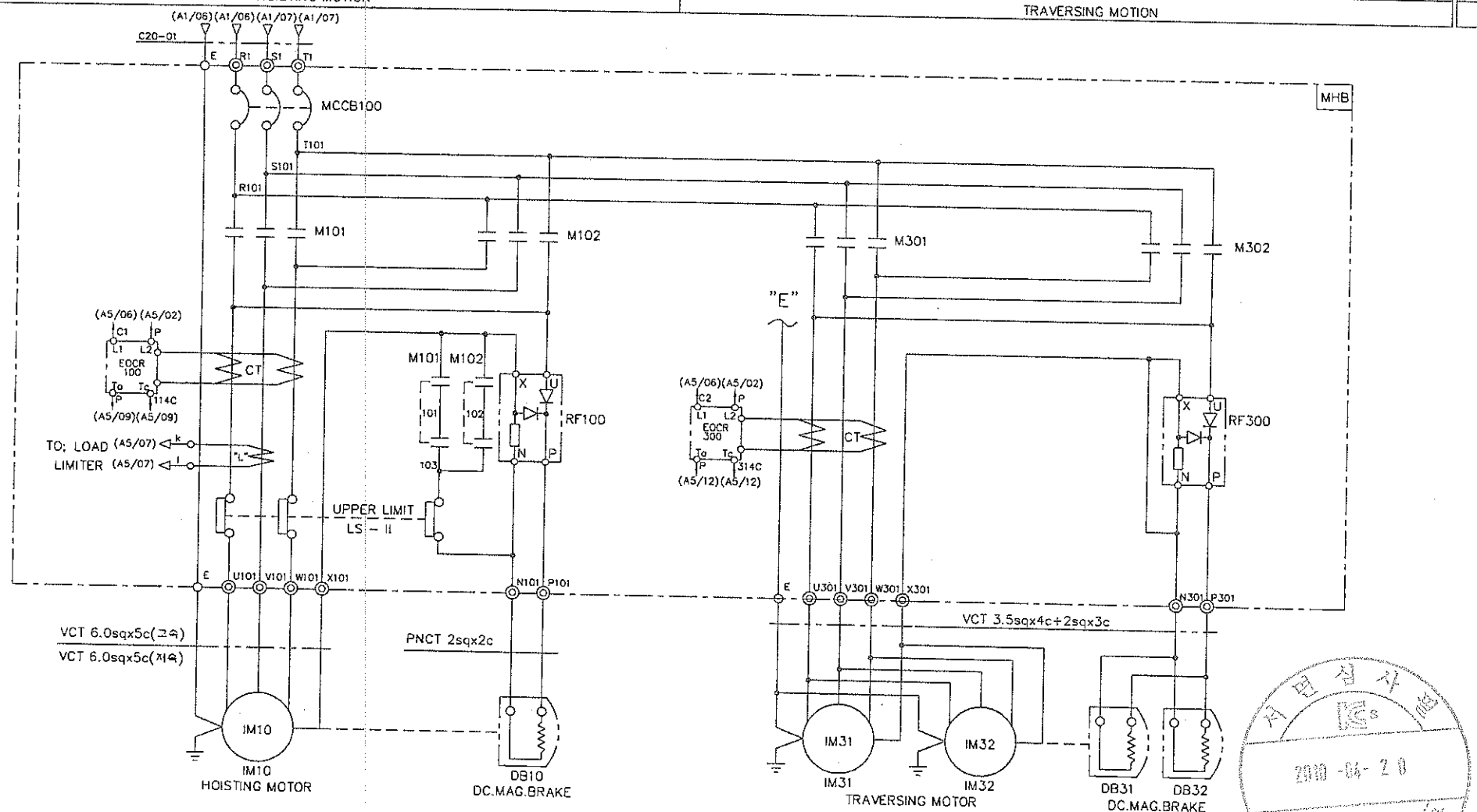
2010-04-20

KD28E44

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	440/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD28E44

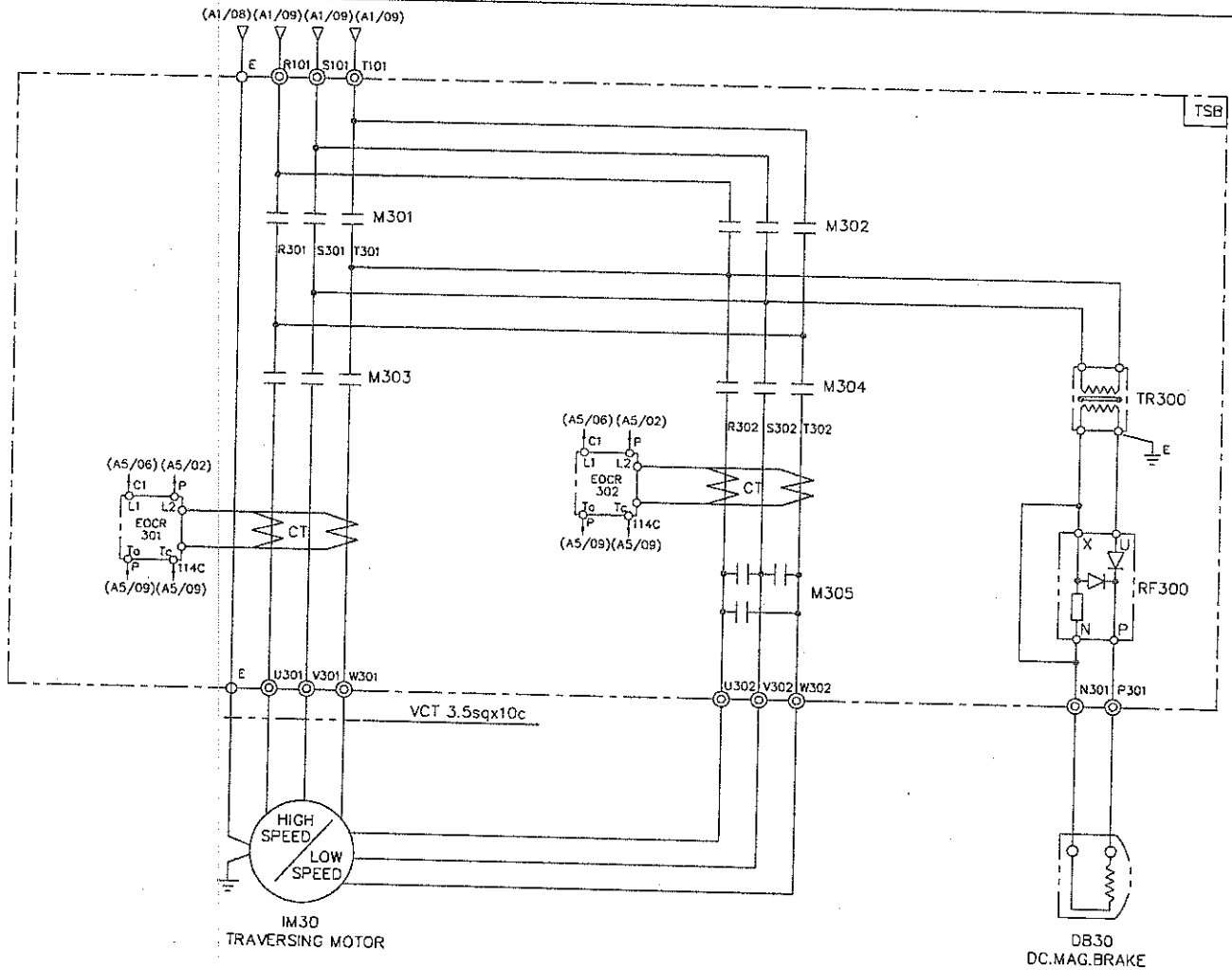
서면심사필
2010-04-20

KD28E045

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	440V	0.5/0.254KWx6/12P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
	440V	0.8/0.4KWx4/8P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
SELECTION MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

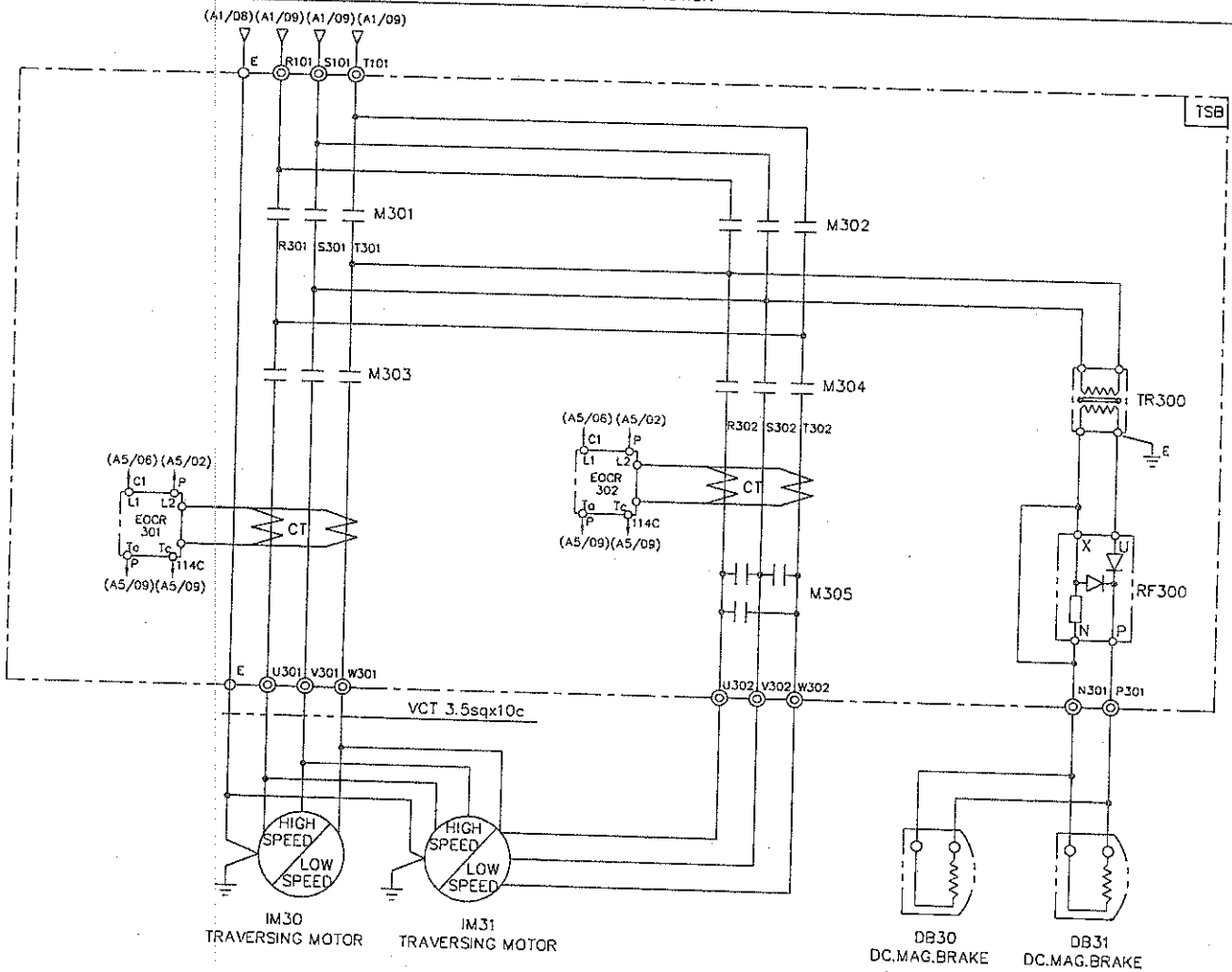
DWG. NO: KD28E045

KD28E046

POWER CIRCUIT

TRAVERSING MOTION

ADR'S NO. C2



자체검사필
2018 -04- 20

SPECIFICATION / SYMBOLS / DESCRIPTION		TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR		SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER
		IM 30 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	440V	0.5/0.25KWx6/12P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
	440V	0.8/0.4KWx4/8P AC3PH 440V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC440/220V, 300VA
SELECTION / MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

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CUSTOMER

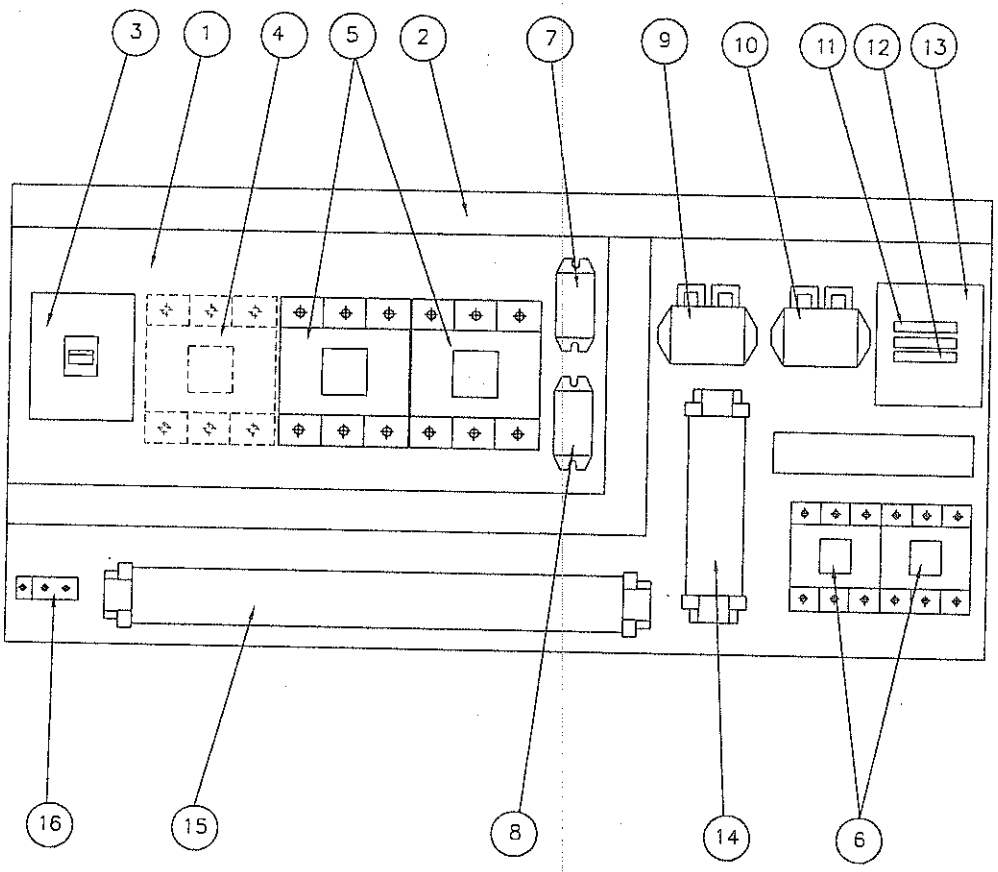
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E046

KD28BA51



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

ADR'S NO.

NOTE

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

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 교류제어선
   3) 주황색 : 직류제어선
   4) 녹색 또는 녹색과 노랑 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.

적합심사필 2018-04-20

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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (고속) / ARRANGEMENT DRAWING

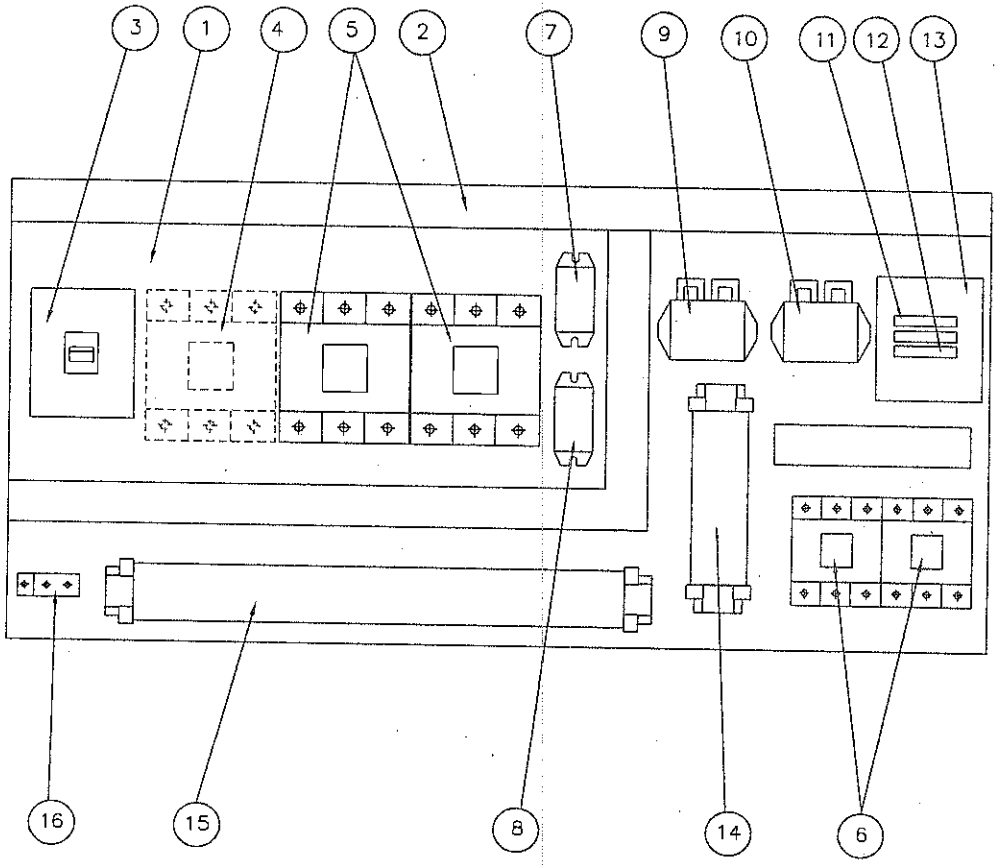
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA51

KD28BA52

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 고류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

검토심사필
2018-04-20
한국산업안전보건공단

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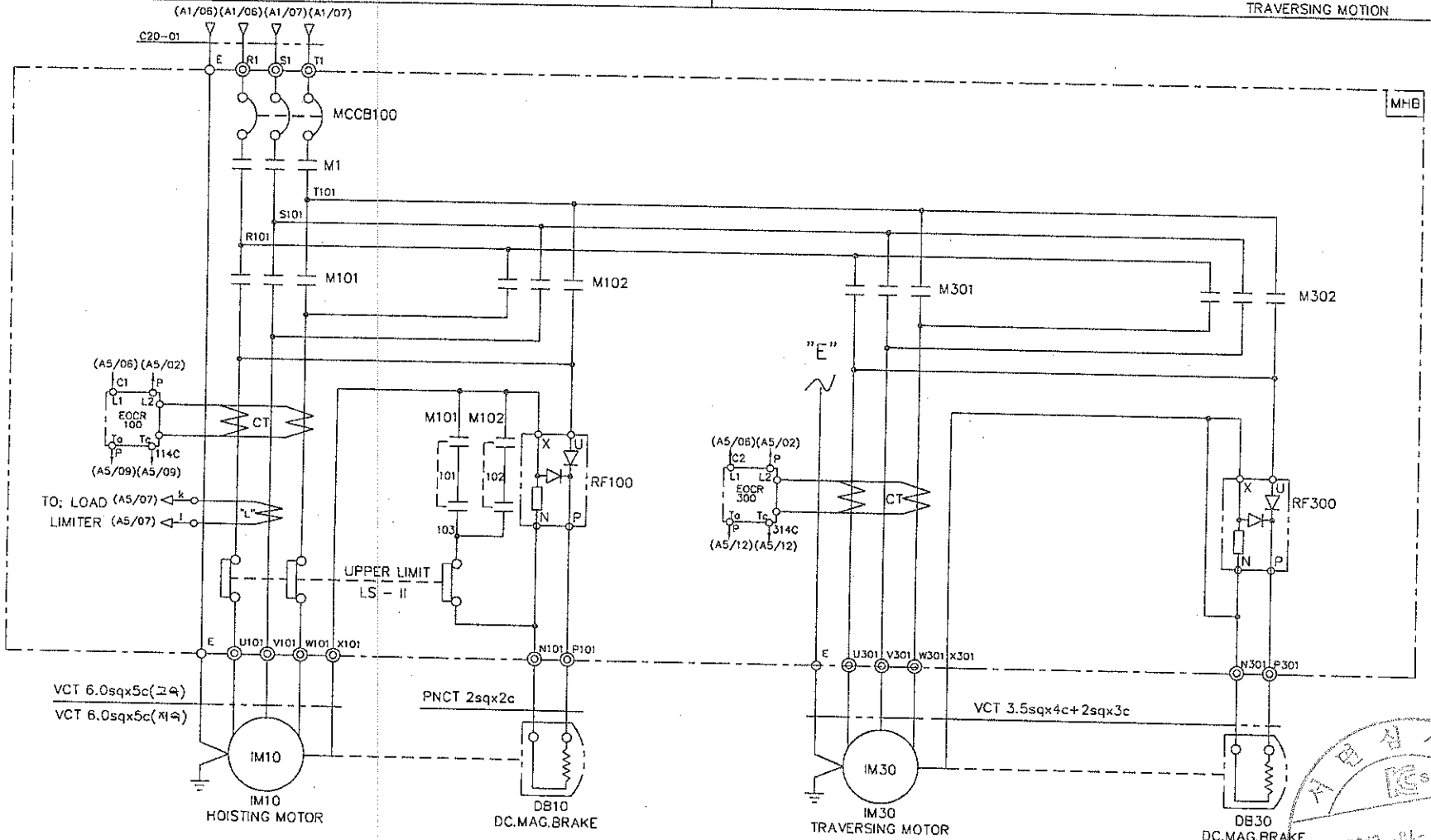
		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CUSTOMER								
DRAWING TITLE	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD28BA52	

KD28E51

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

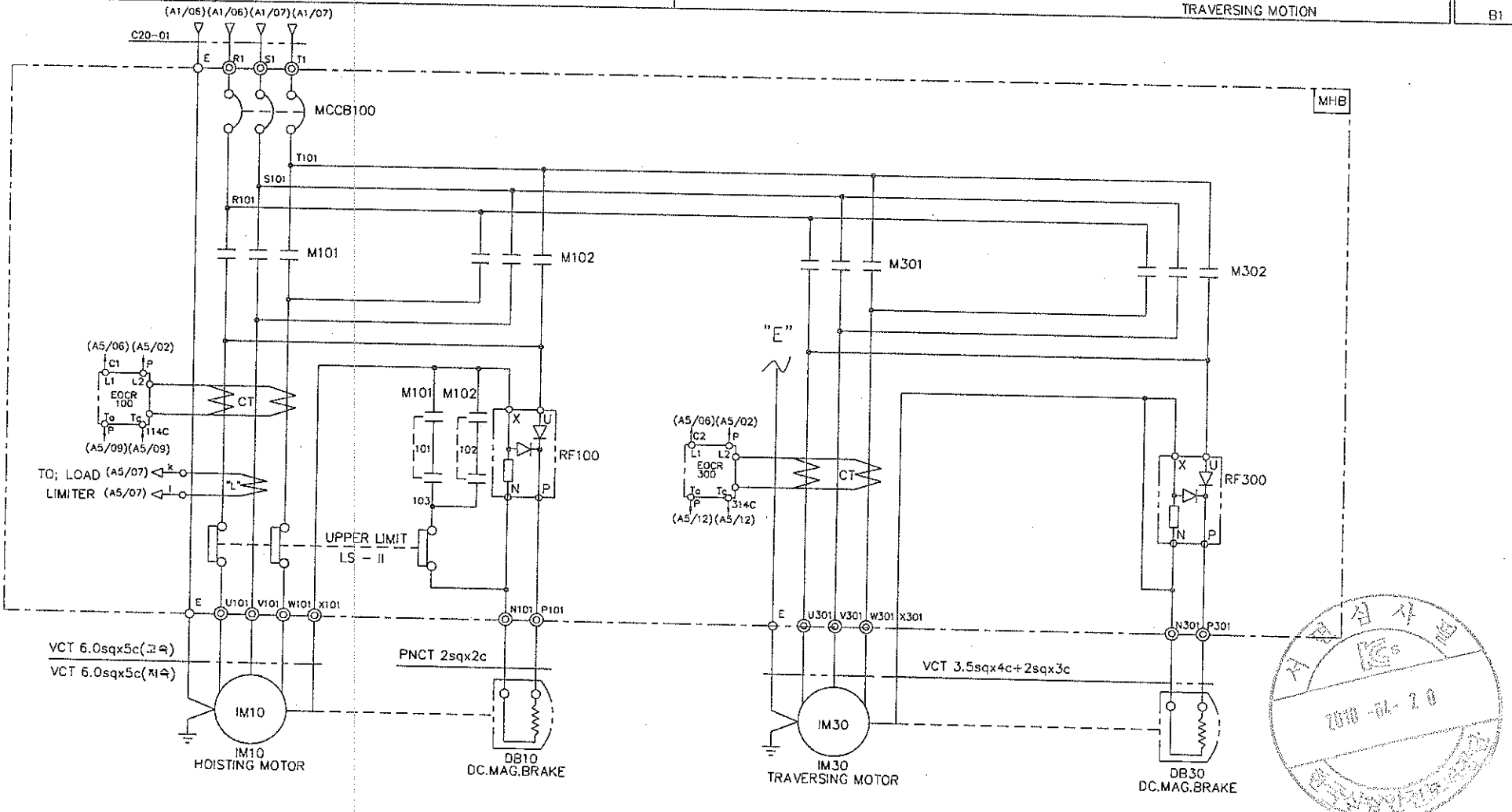
DWG. NO KD28E51

KD28E52

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

AOR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E52

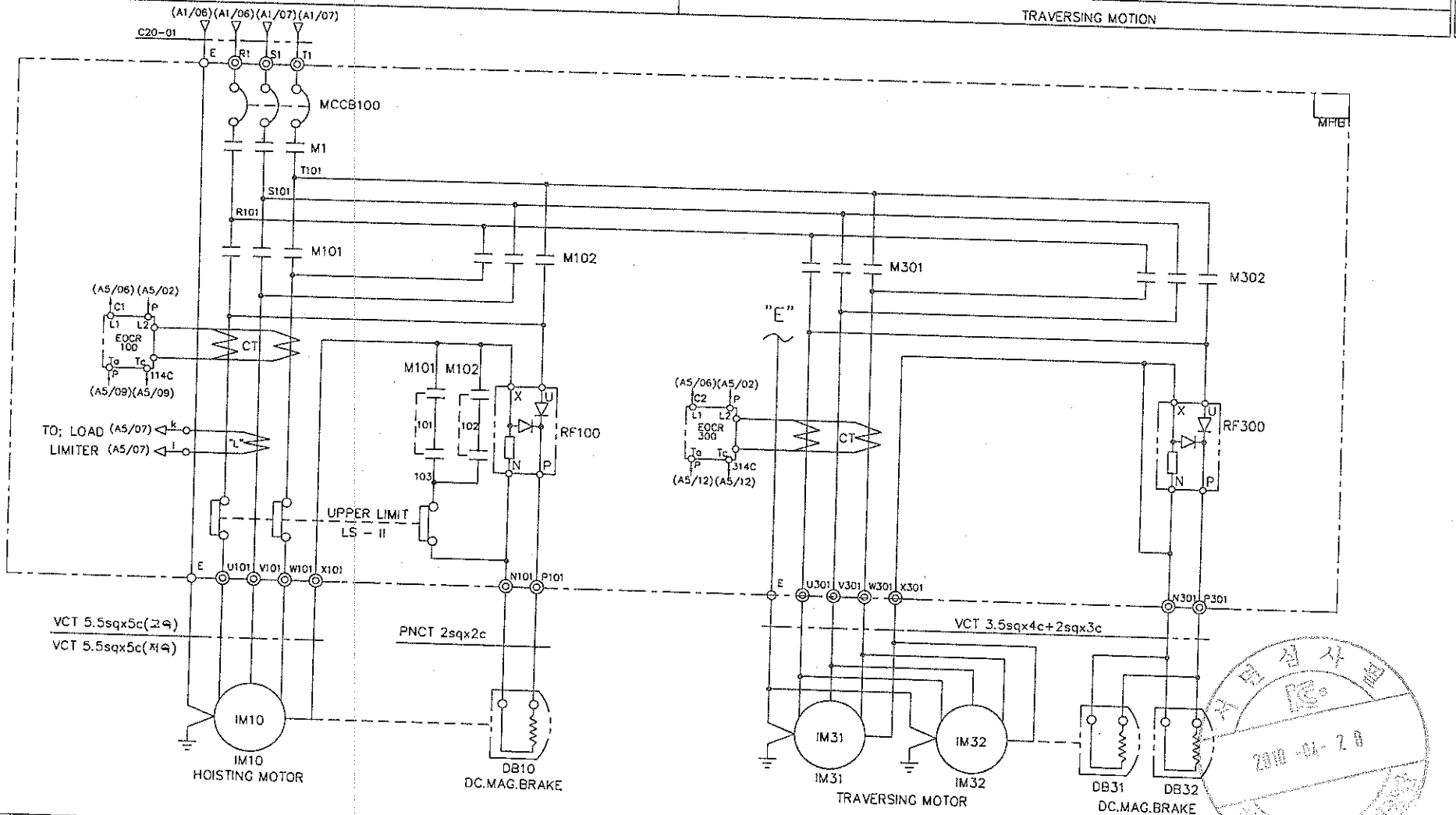
KD28E53

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

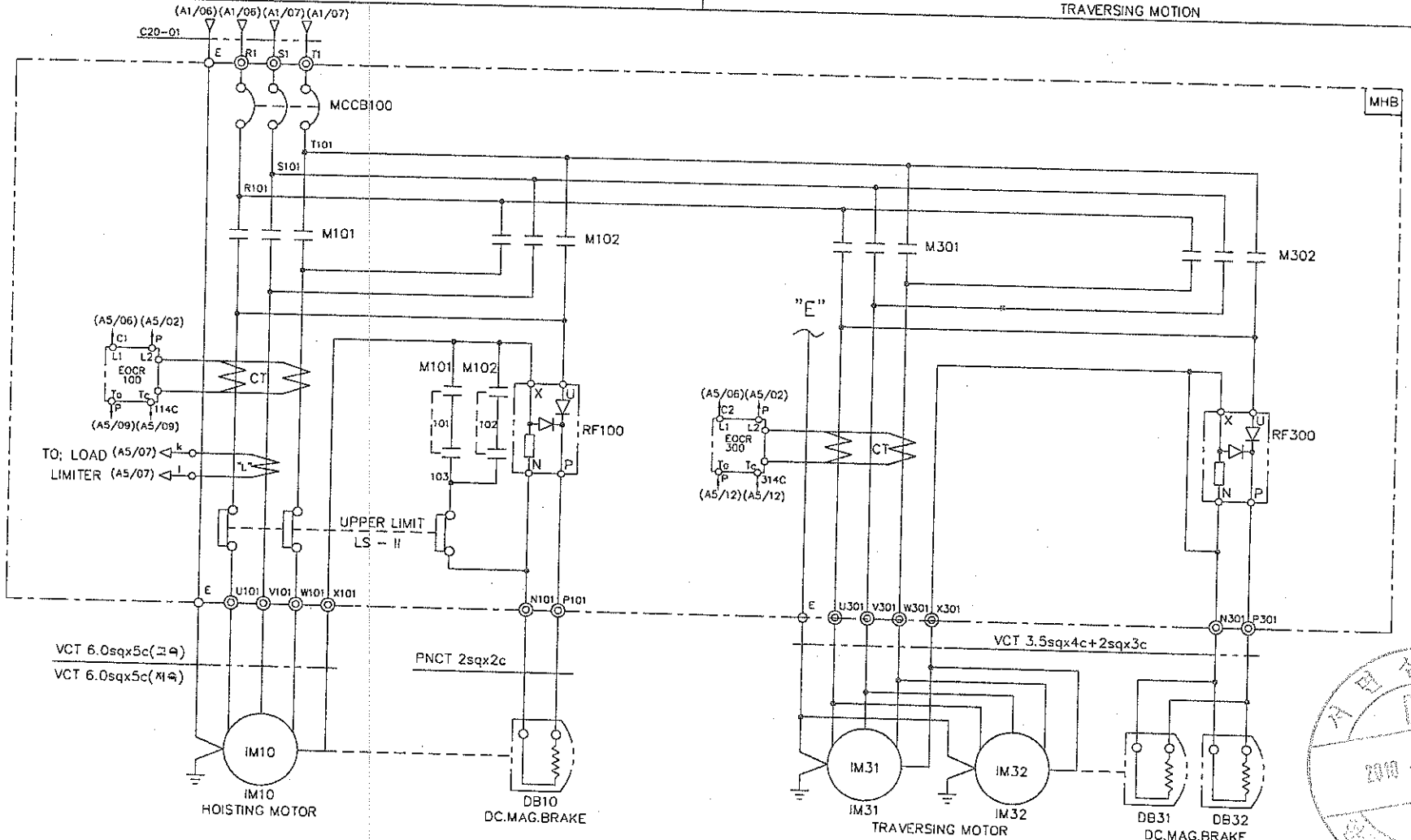
DWG. NO: KD28E53

KD28E54

POWER CIRCUIT

ADR'S NO. B1

HOISTING MOTION | TRAVERSING MOTION



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 460V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	460/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

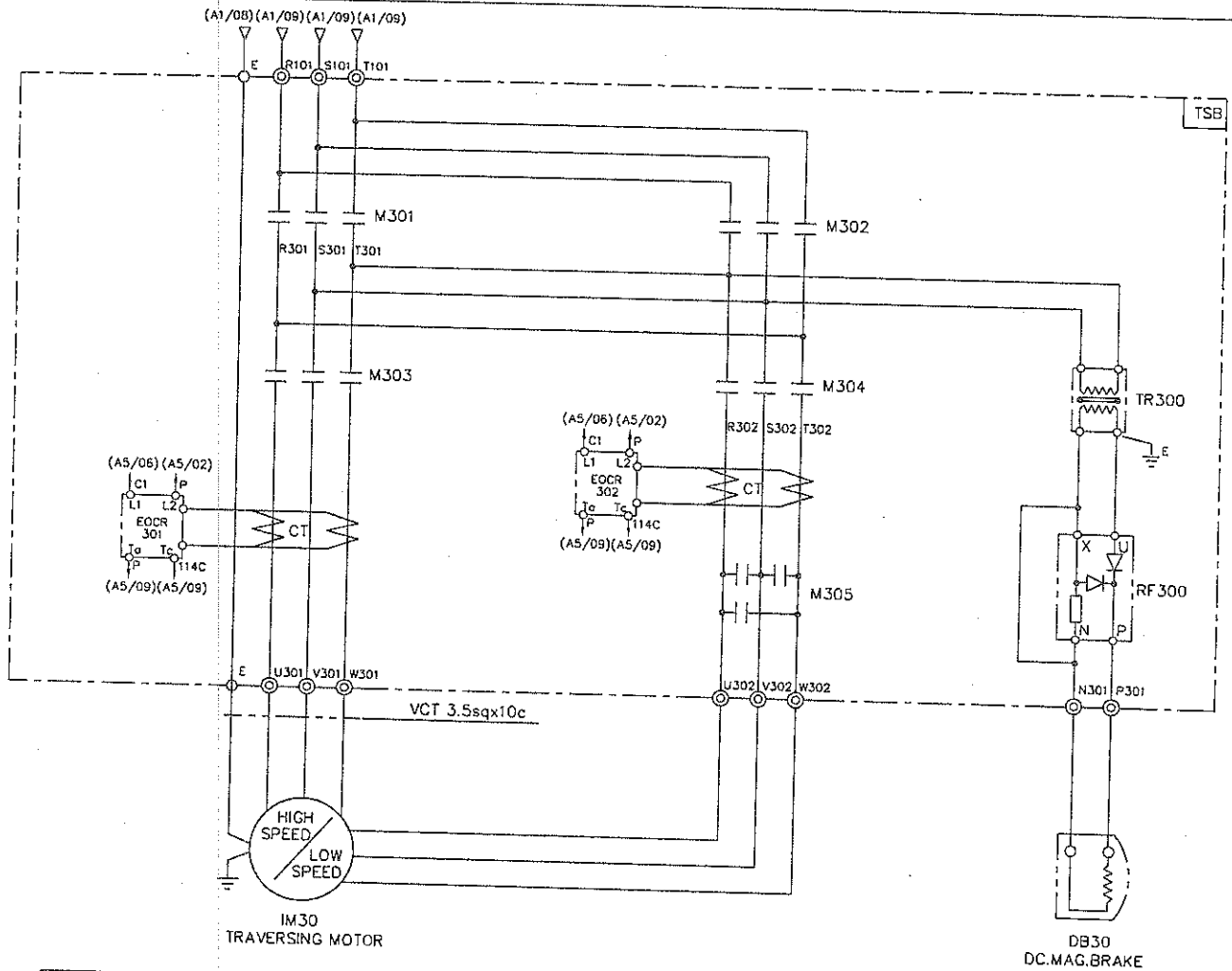
DWG. NO: KD28E54

KD28E055

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	460V	0.5/0254KWx6/12P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
	460V	0.8/0.4KWx4/8P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

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CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

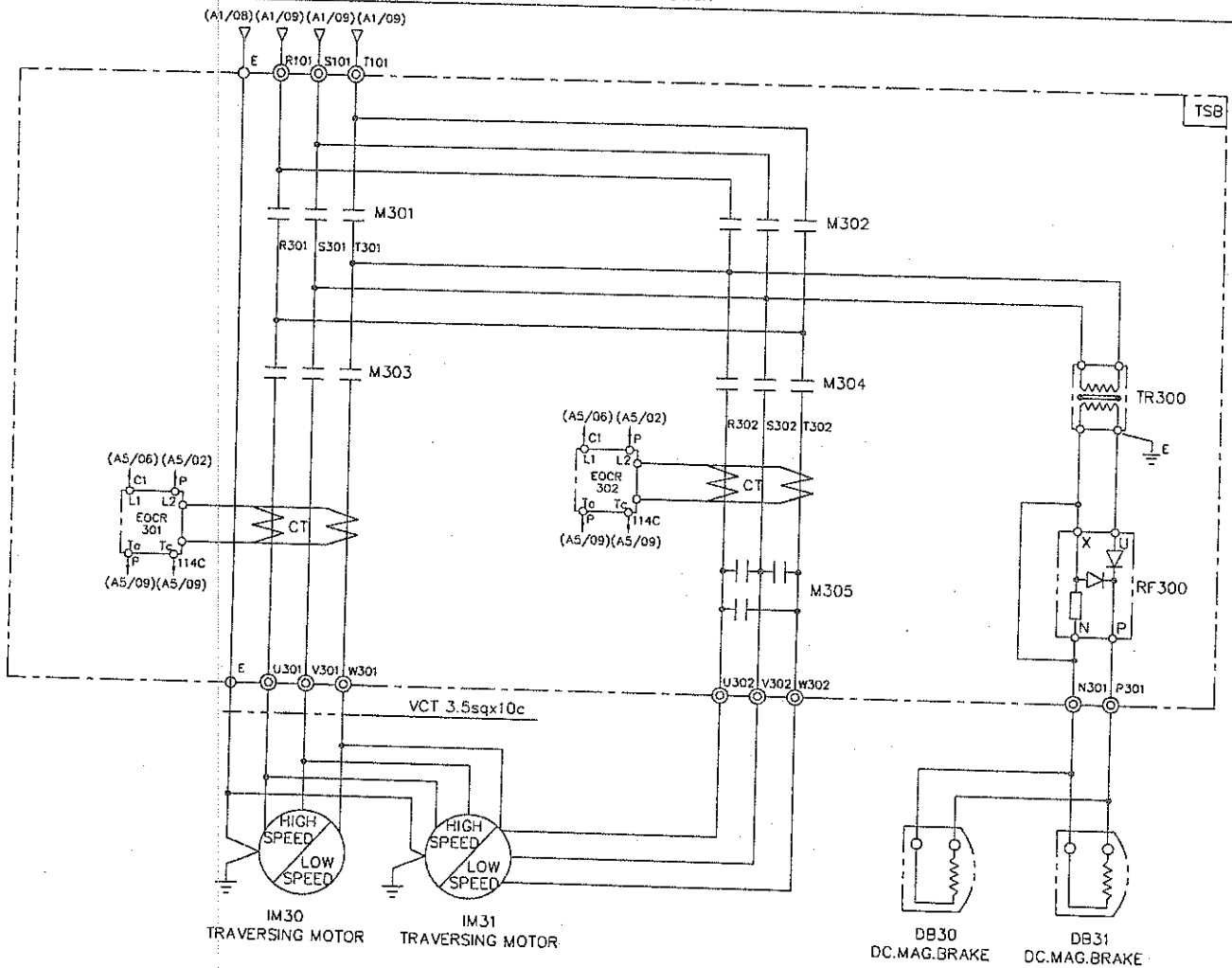
DWG. NO: KD28E055

KD28E056

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	460V	0.5/0.25KWx6/12P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
	460V	0.8/0.4KWx4/8P AC3PH 460V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC460/220V, 300VA
SELECTION / MAKER		KUKDONG		DESRYUK		ASECO		SHINWHAN

MK	DATE	REVISIONS	CHK.	APP.
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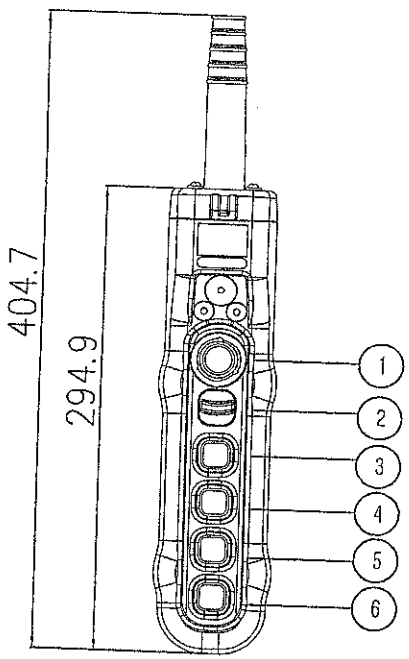
CUSTOMER

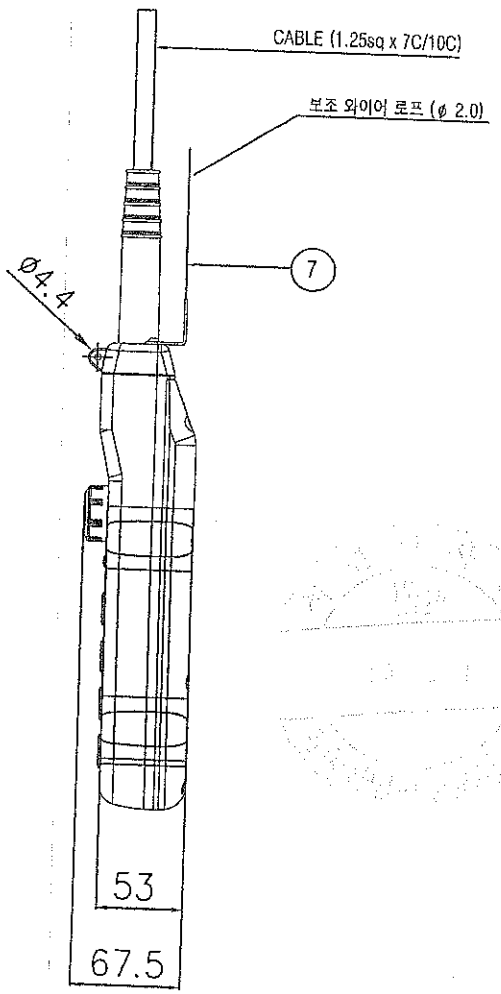
DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E056





구분 / 색상	조작버튼	표시등
빨강색	비상	비상
노란색	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.
③				
②				
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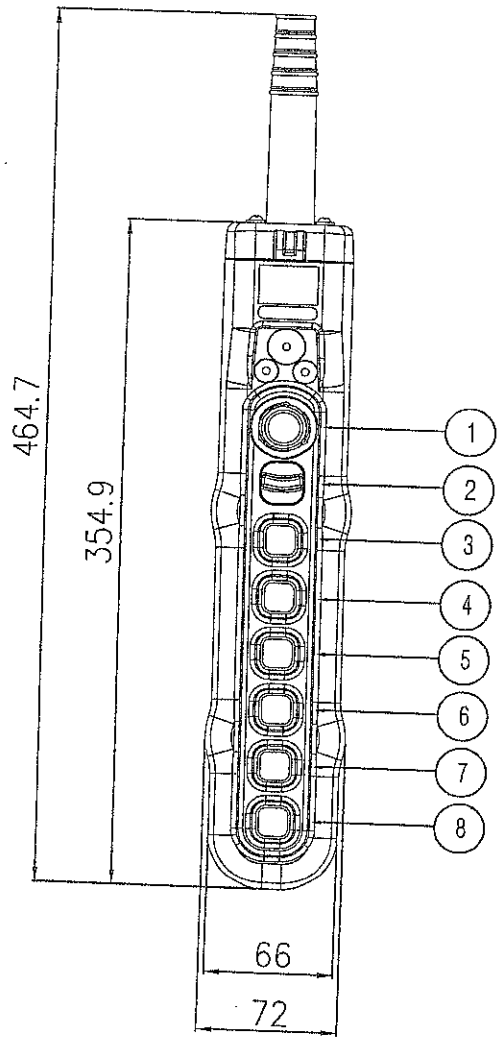
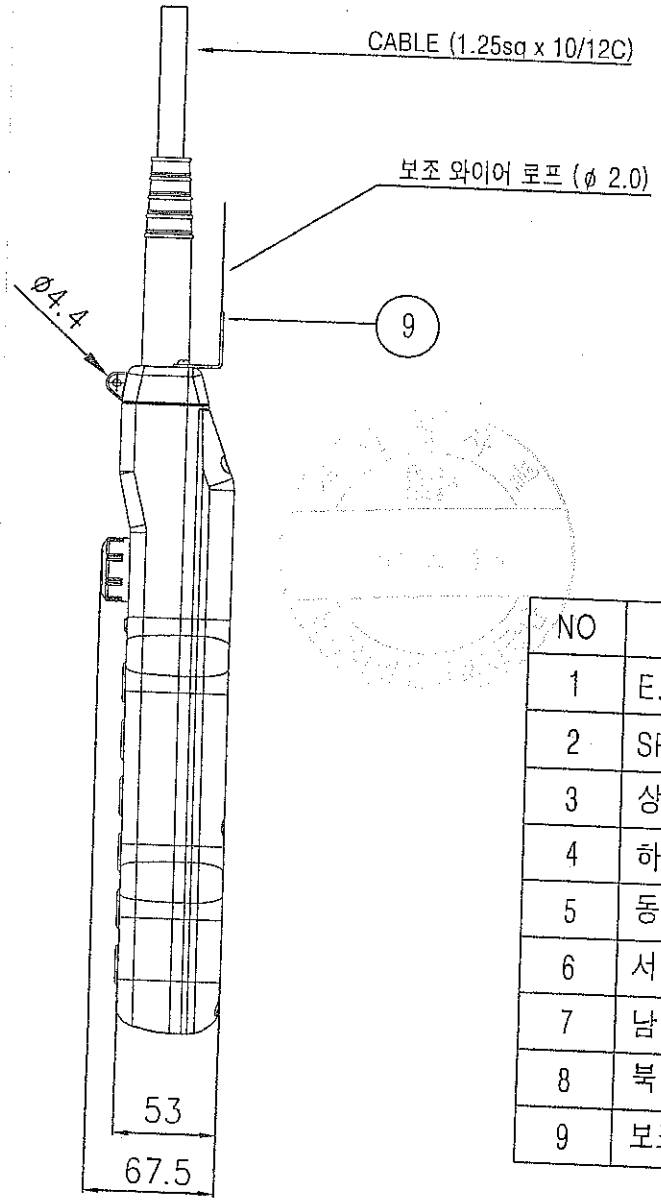
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
DRAWING TITLE	PENDANT PUSH BUTTON SWITCH						
	LAY OUT	KD KUK DONG HOIST CO., LTD.			DWG. NO	KD-PS0005	





구분 / 색상	조작버튼	표시등
빨강색	비상	비상
노란색	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		

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

CUSTOMER

DRAWING TITLE: PENDANT PUSH BUTTON SWITCH

LAY OUT

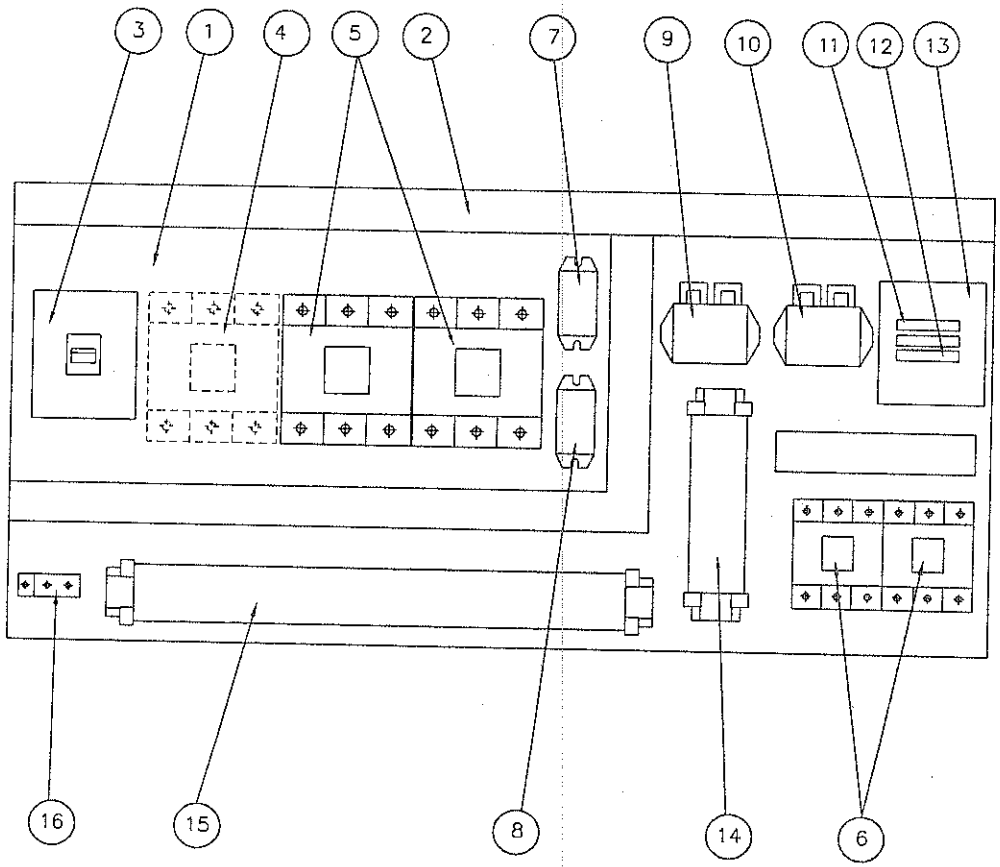
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE

KD KUK DONG HOIST CO., LTD.

DWG. NO: KD-PS0007

KD28BA61

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	O'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 전원선
   2) 적 색 : 고류제어선
   3) 주황색 : 직류제어선
   4) 녹색 또는 녹색과 노랑 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.

자 문 심 사 필
2010 -04- 20

MK	DATE	REVISIONS	CHK.	APP.
⚠				
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⚠				
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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (고속)

ARRANGEMENT DRAWING

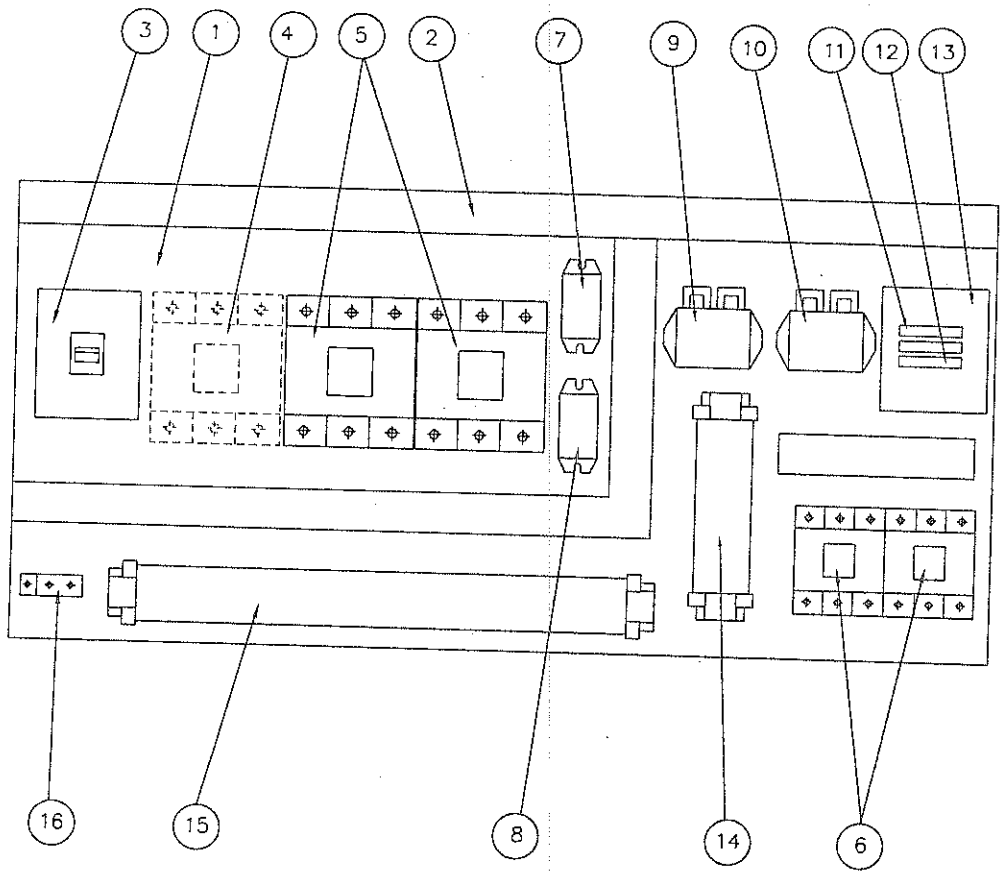
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA61

KD28BA62

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DOC-22P	1	MAIN MAG.
5	MAGNET CONTACTOR	DOC-40P	2	HOISTING
6	MAGNET CONTACTOR	DOC-22P	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-06	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 전원선
2) 적 색 : 교류제어선
3) 주황색 : 직류제어선
4) 녹색 또는 녹색과 노랑 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.

2018 -04- 20

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (저속) / ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28BA62

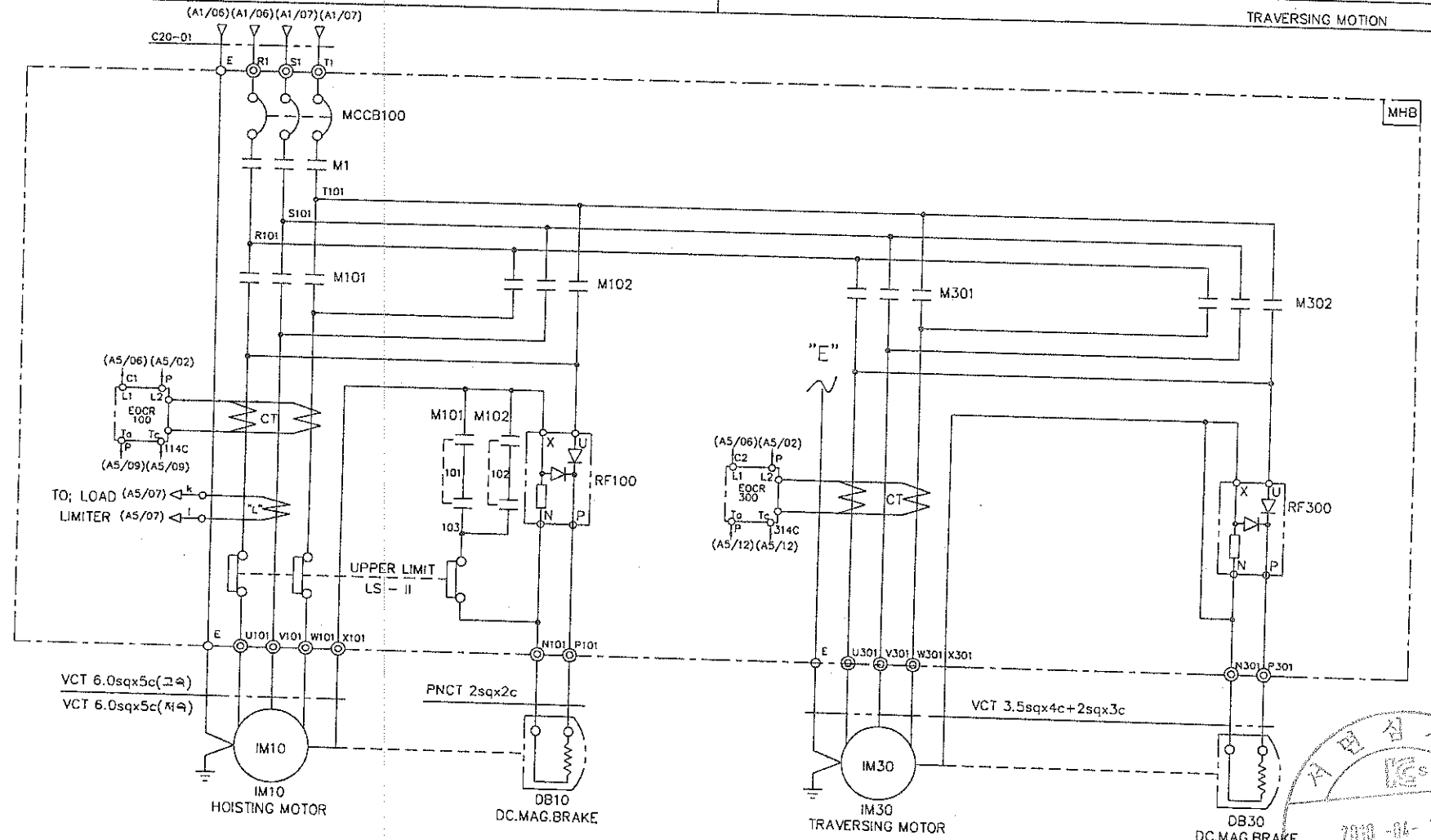
KD28E61

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E61

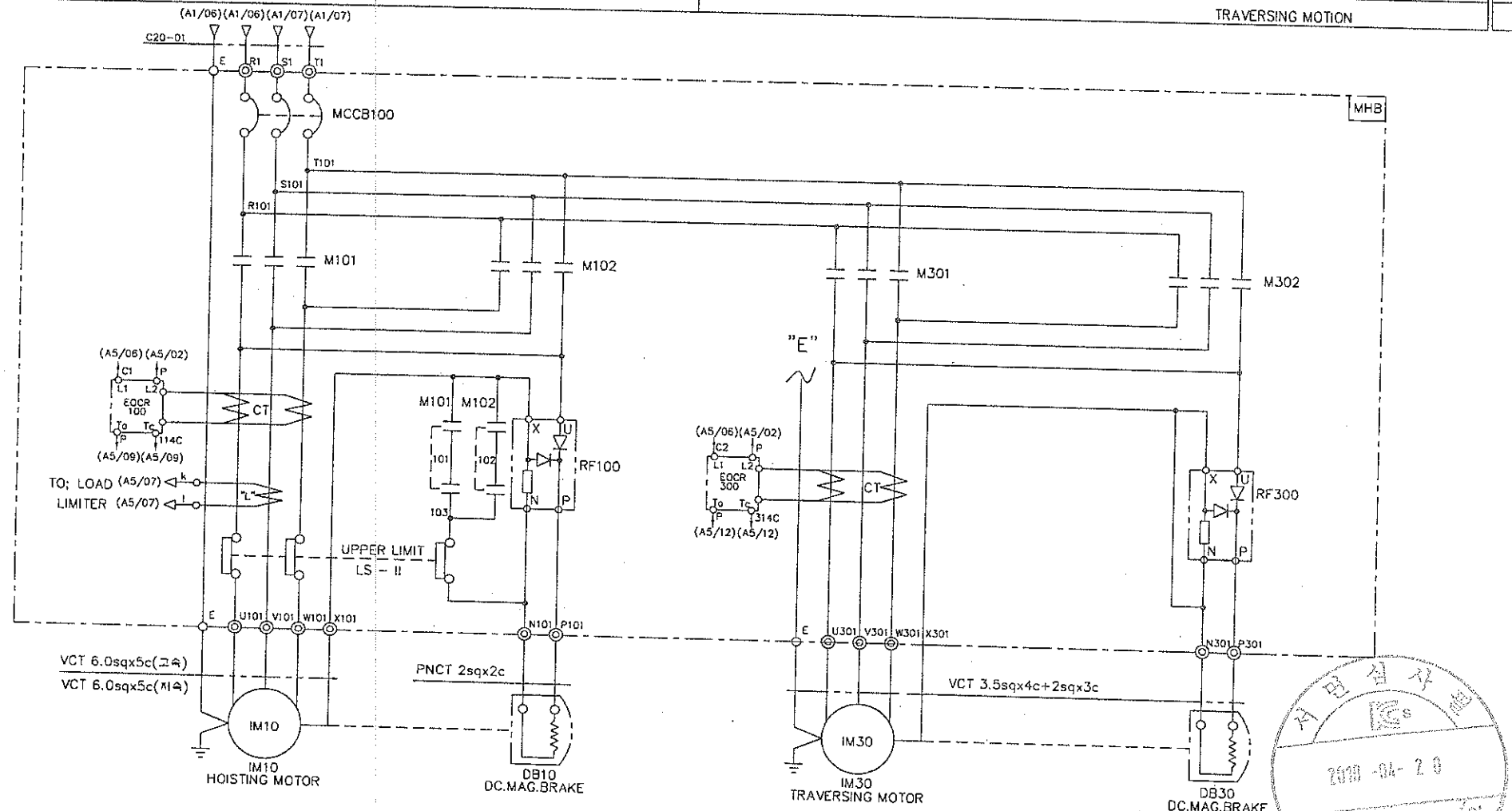
KD28E62

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC.MAG BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
DESCRIPTION	HOIST	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASCO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
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CUSTOMER

DRAWING TITLE: HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E62

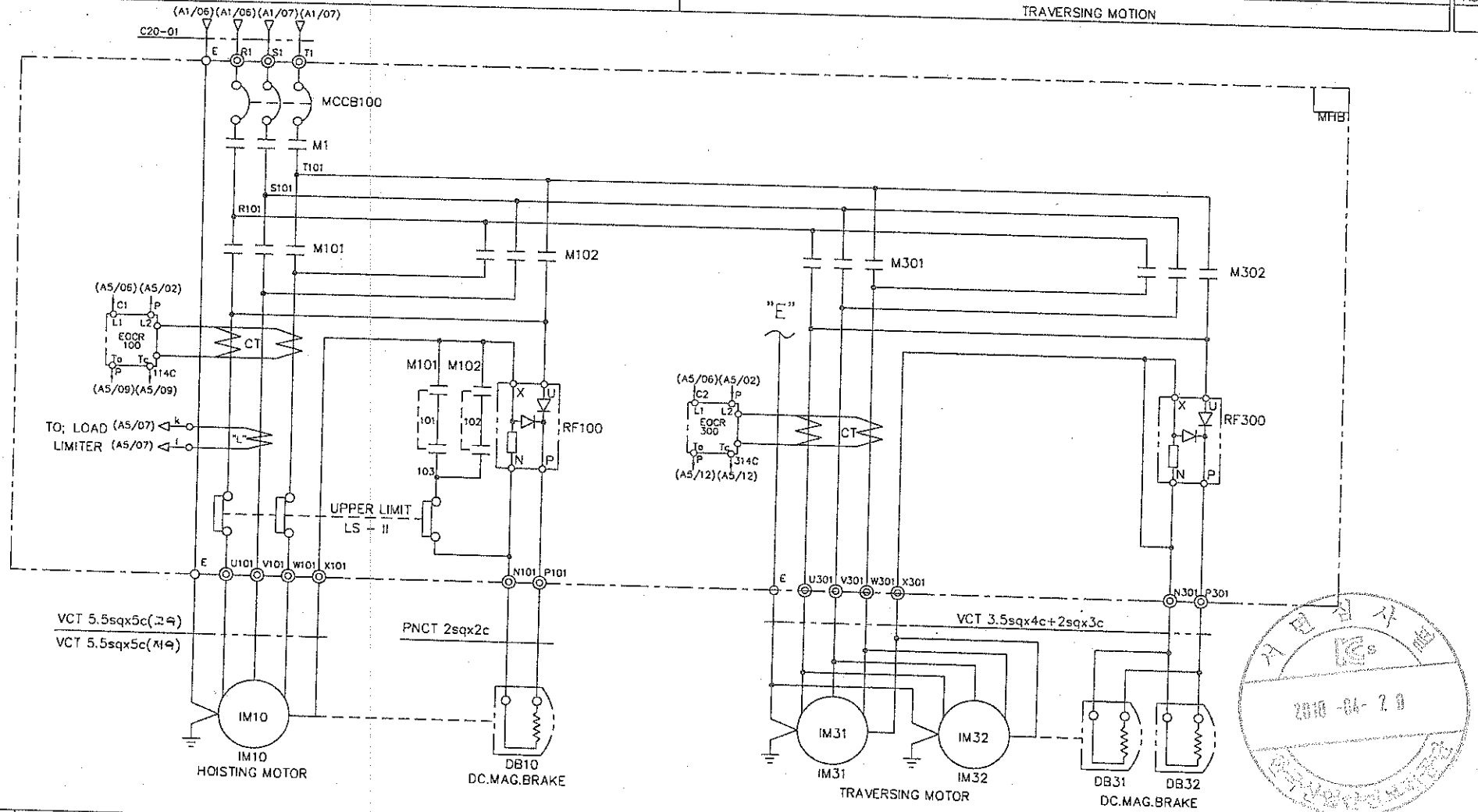
KD28E63

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-22P	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK			KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
4				
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1				

CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E63

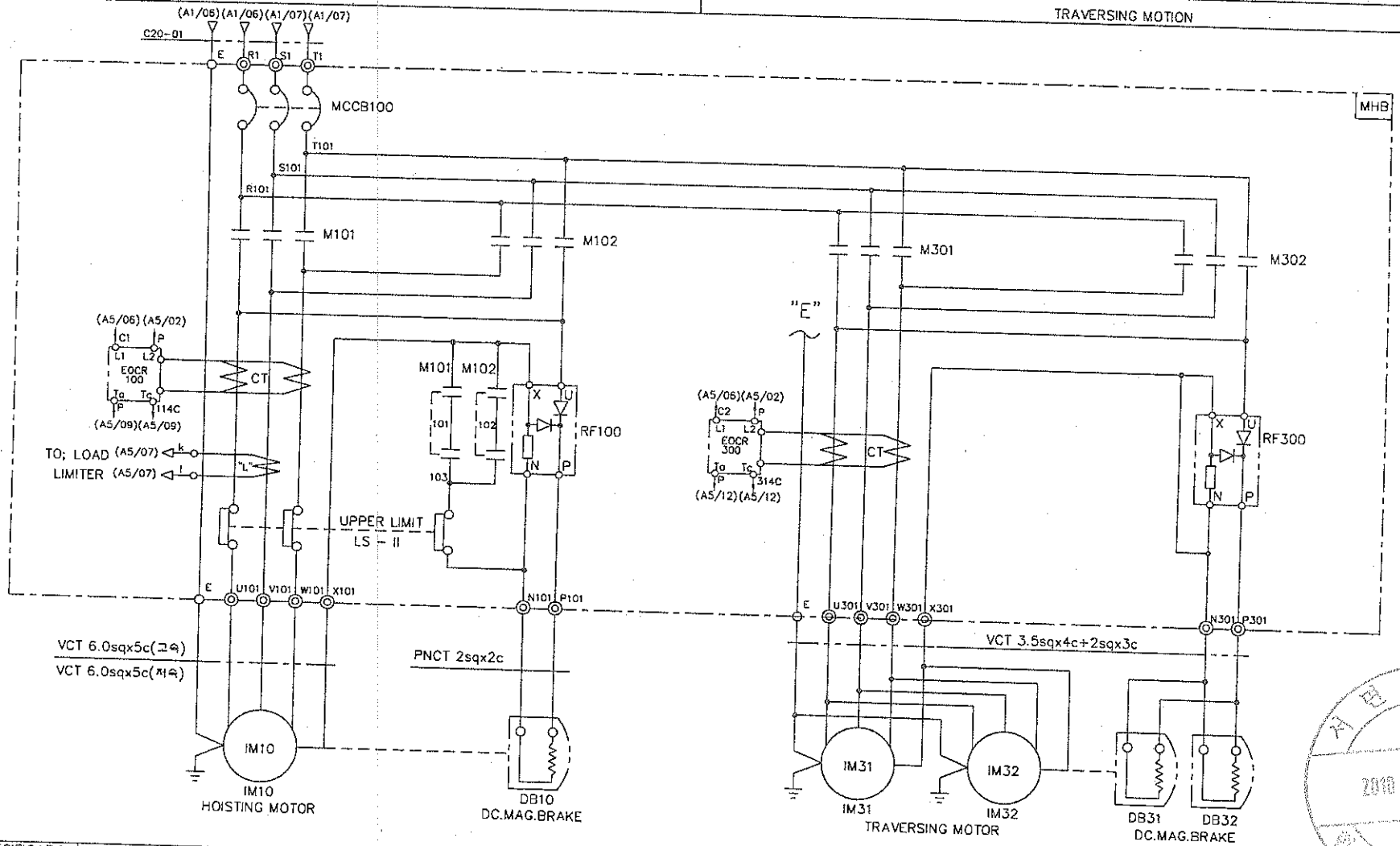
KD28E64

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

ADR'S NO. B1



SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING 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 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	2.8TON AC 3PH 480V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
SELECTION / MAKER	2.8TON AC 3PH 480V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	DBE-33AF/20AT	480/110V,100VA	1A	3A	DOC-40P	DOC-22P	AC 600V 75A	SS-30	SS-06	SR-60	SR-30	JDL-100	VFCT 6.0sqx4c
	KUKDONG				DEARYUK	SHINWHAN	-		DEARYUK		KUKDONG	ASECO				JEUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
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1				

CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

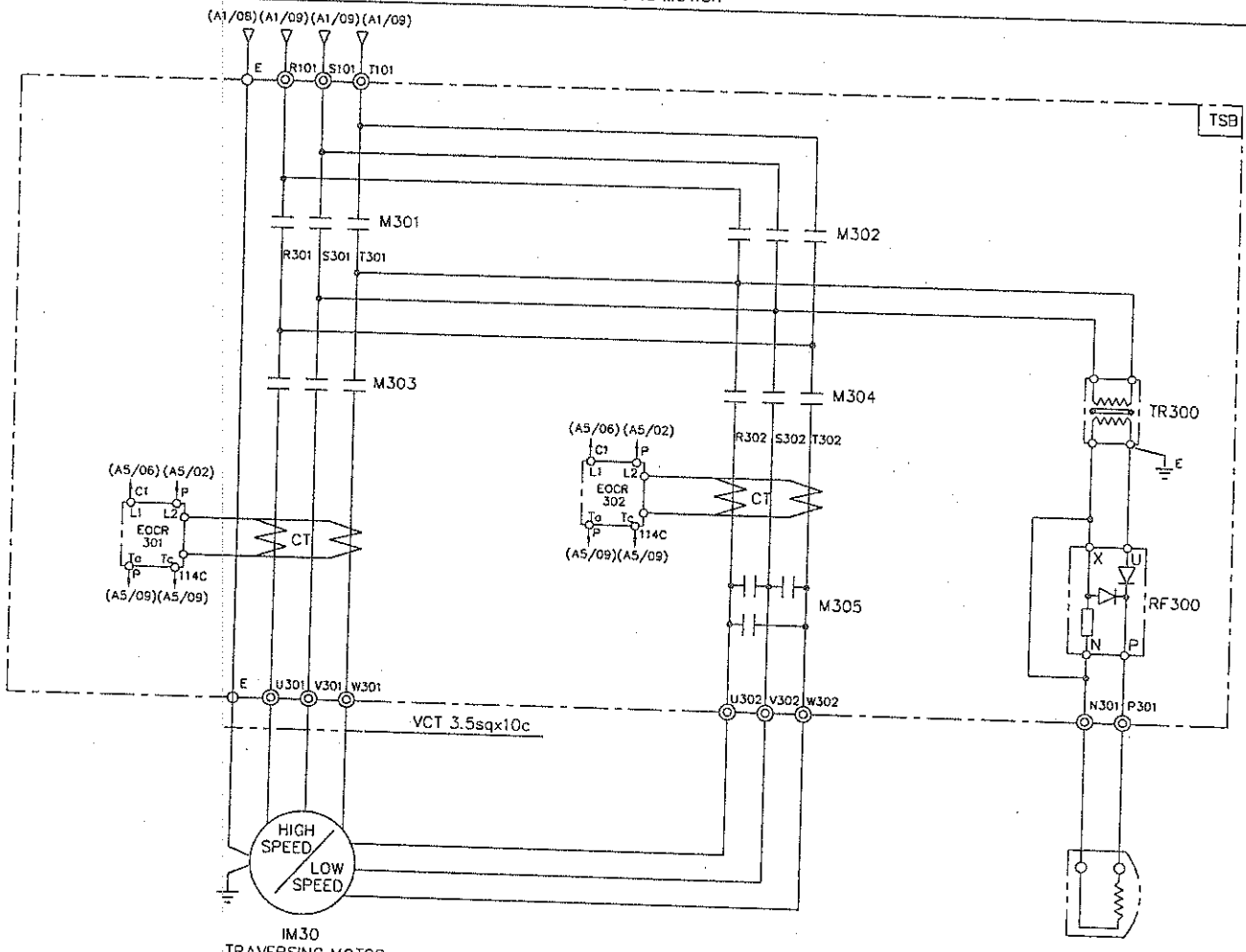
DWG. NO: KD28E64

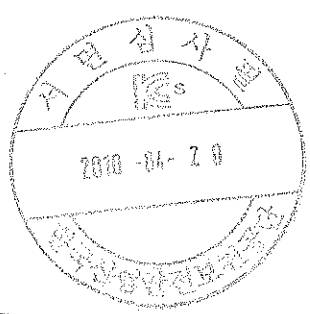
KD28E065

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	DB30	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	480V	0.5/0254KWx6/12P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
	480V	0.8/0.4KWx4/8P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
SELECTION / MAKER		KUKDONG		DEARYUK		ASECO		SHINWHAN

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

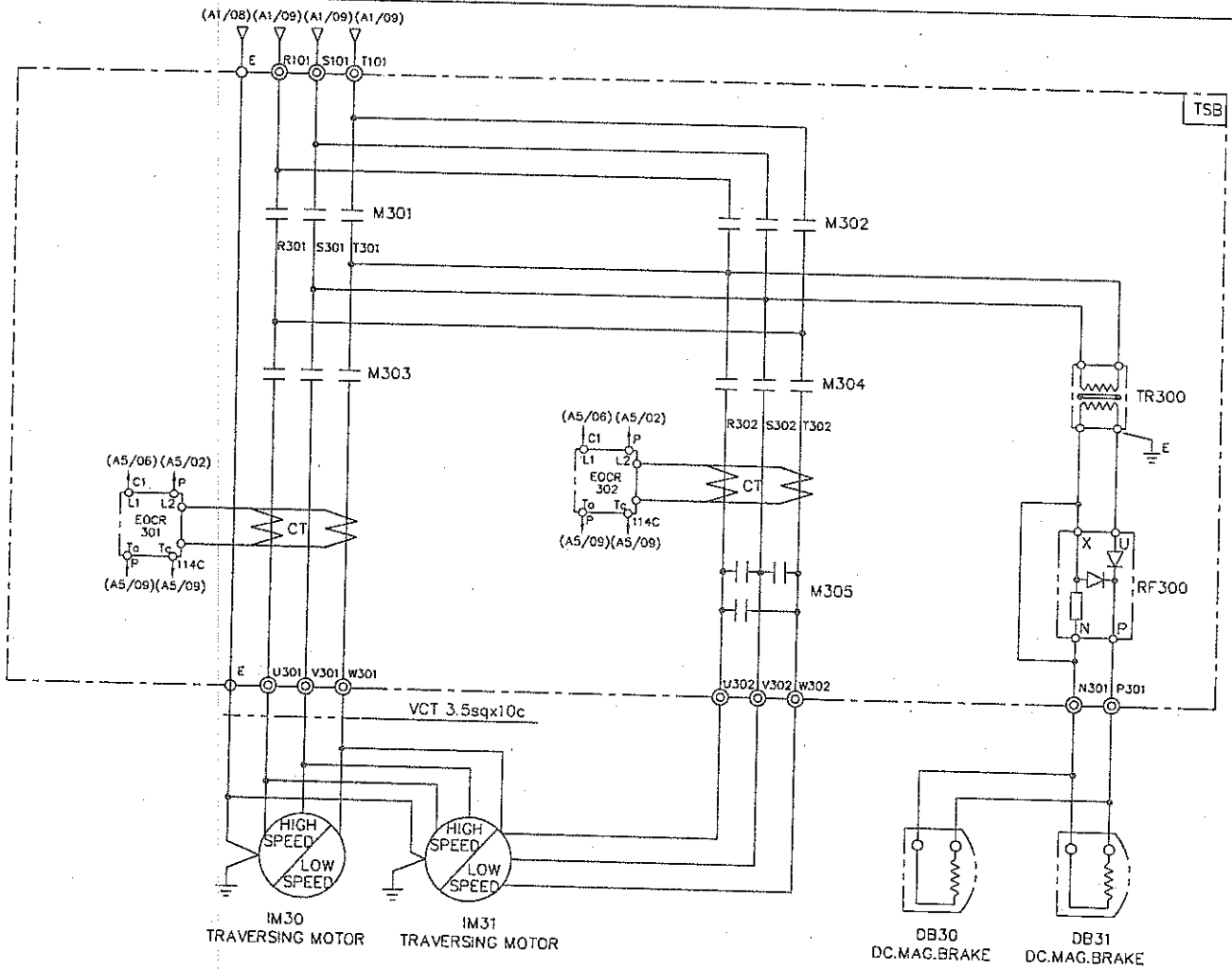
DWG. NO: KD28E065

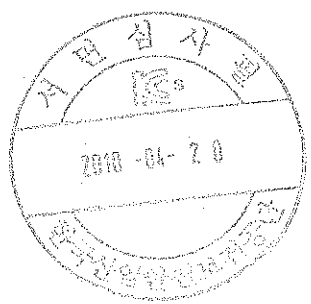
KD28E066

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 , 1M31	DB30 , DB31	M301 , M302 , M303	M304 , M305	RF 300	EOCR 301,302	TR300
	480V	0.5/0.25KWx6/12P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
	480V	0.8/0.4KWx4/8P AC3PH 480V 60Hz	DC 100V	DOC-22P	DOC-22R	SR-30	SS-06	AC480/220V, 300VA
SELECTION / MAKER		KUKOONG		DESRYUK		ASECO		SHINWHAN

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER

DRAWING TITLE: TRAVERSING POWER CONTROL CIRCUIT DIAGRAM

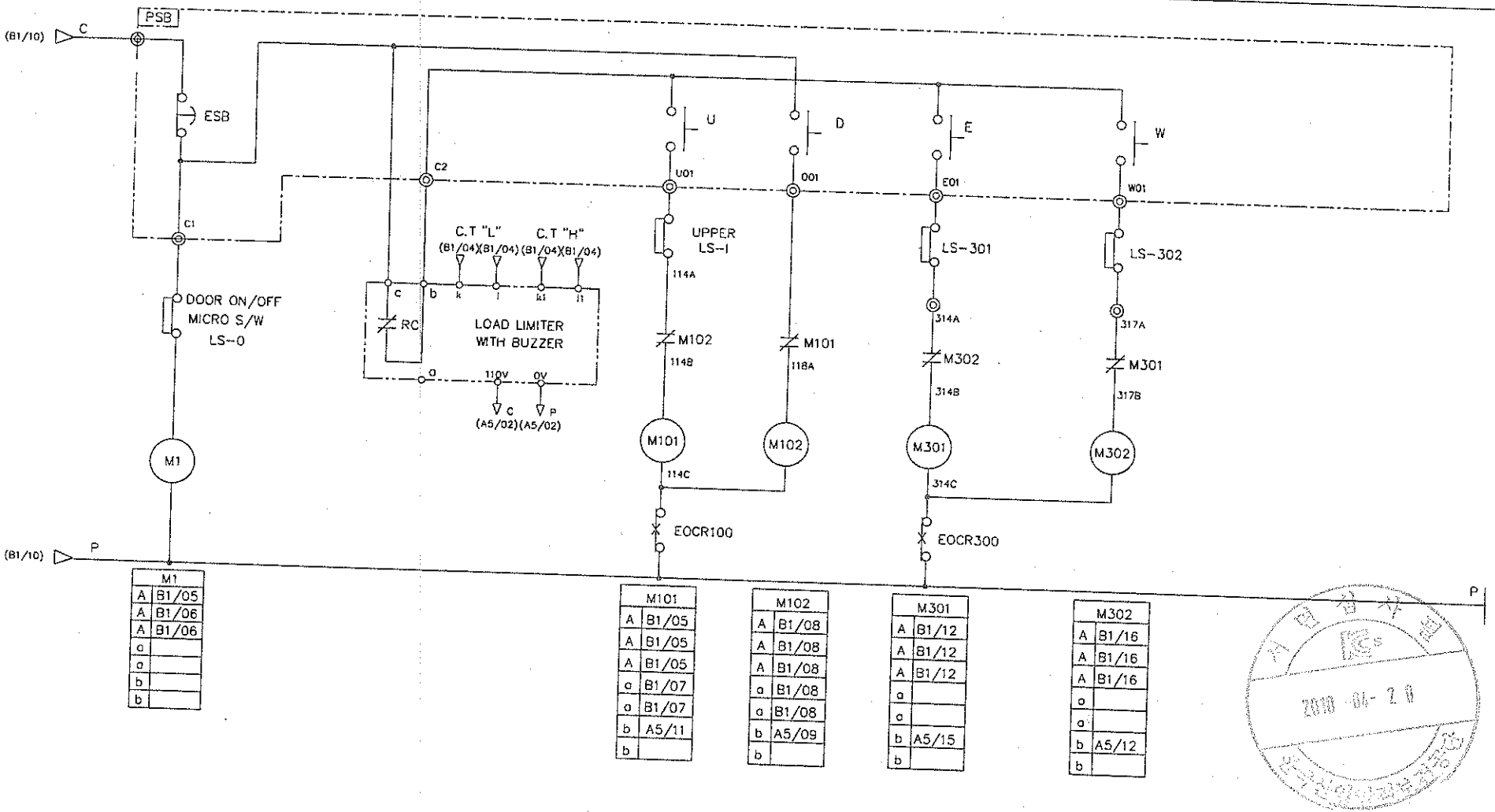
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD28E066

KD28E005

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



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A5/11
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A5/09
b	

M301	
A	B1/12
A	B1/12
A	B1/12
a	
a	
b	A5/15
b	

M302	
A	B1/16
A	B1/16
A	B1/16
a	
a	
b	A5/12
b	

2010 -04- 20

SPECIFICATION / SYMBOLS / DESCRIPTION	DOOR ON/OFF	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-0	LS-1	E.S.B	LOAD LIMITER	LS-301,302
		AC 600V 3A	250V 3A	JDL-100	HY - W904
	HY-R704B	AC 600V 3A	250V 3A	JDL-100	HY - W904
MAKER	HAN YOUNG	KUNHUNG	KUNHUNG	JUNGHO	HANYOUNG

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER

DRAWING TITLE: MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

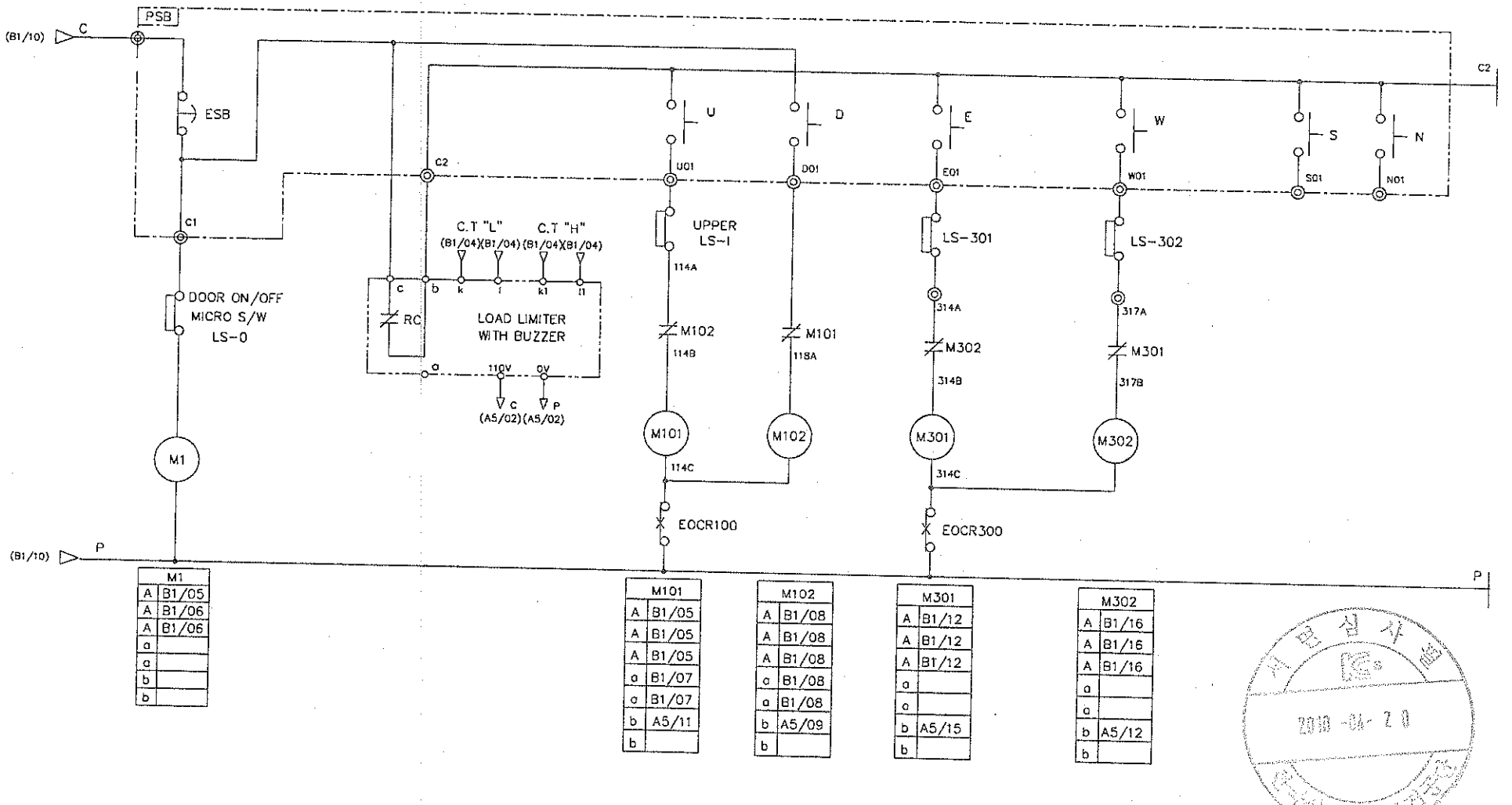
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E002

KD28e005

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



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A5/11
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A5/09
b	

M301	
A	B1/12
A	B1/12
A	B1/12
a	
a	
b	A5/15
b	

M302	
A	B1/16
A	B1/16
A	B1/16
a	
a	
b	A5/12
b	

사본입니다
2019-04-20

SPECIFICATION / SYMBOLS / DESCRIPTION	DOOR ON/OFF	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-0	LS-1	E.S.B	LOAD LIMITER	LS-301,302
		AC 600V 3A	250V 3A	JDL-100	HY - W904
	HY-R704B	AC 600V 3A	250V 3A	JDL-100	HY - W904
MAKER	HAN YOUNG	KUNHUNG	KUNHUNG	JUNG-HO	HANYOUNG

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER	
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

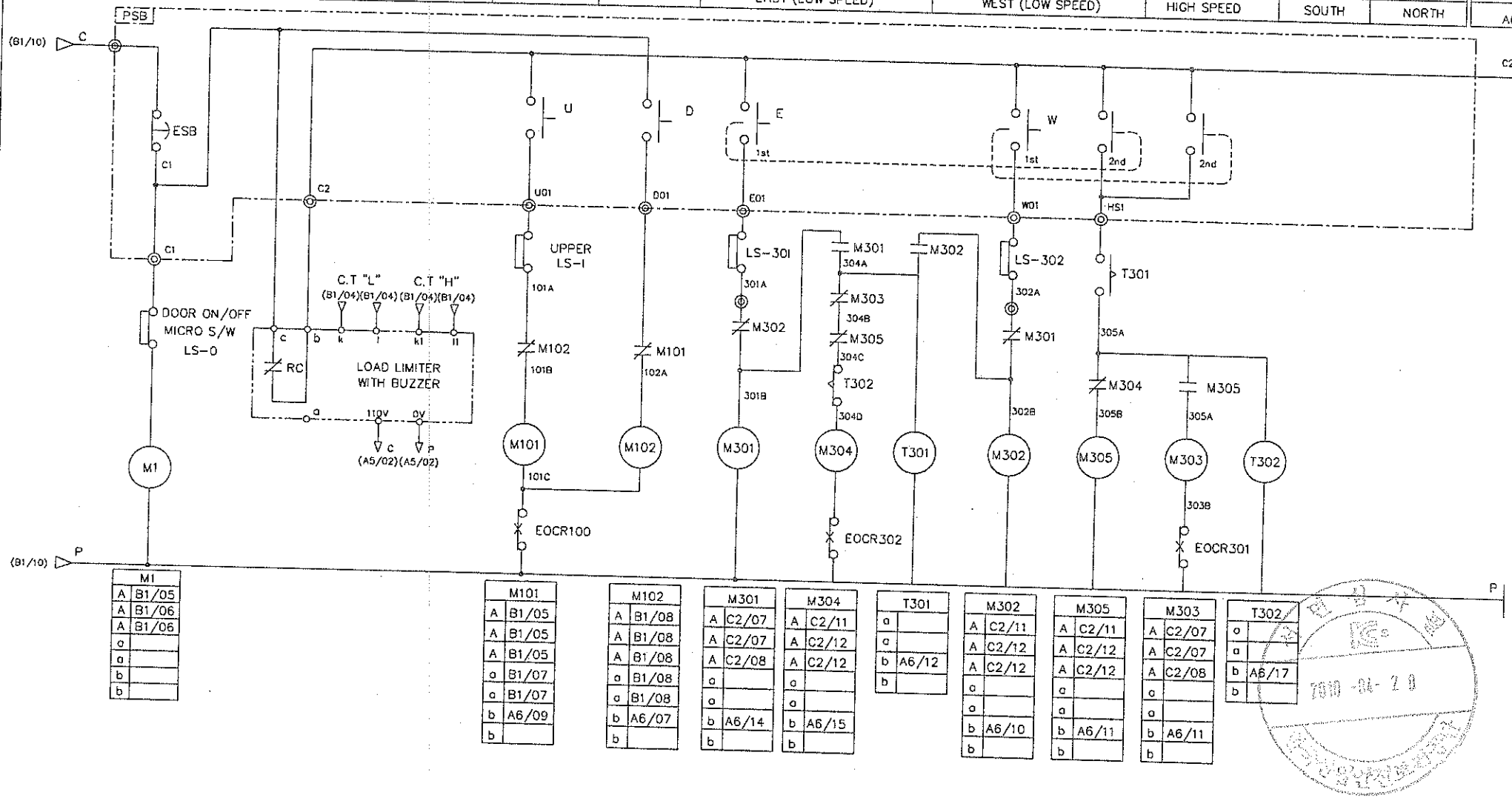
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD28E003

KD28e006

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.
EM, STOP	LOAD LIMIT	UP	DOWN	EAST (LOW SPEED)	WEST (LOW SPEED)	HIGH SPEED	SOUTH	NORTH	ADR'S NO.
					CONTROL CIRCUIT				A6



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A6/09
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A6/07
b	

M301	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/14
b	

M304	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/15
b	

T301	
a	
a	
b	A6/12
b	

M302	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/10
b	

M305	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/11
b	

M303	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/11
b	

T302	
a	
a	
b	A6/17
b	

접수 KC 2010-06-20

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

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER

DRAWING TITLE: MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

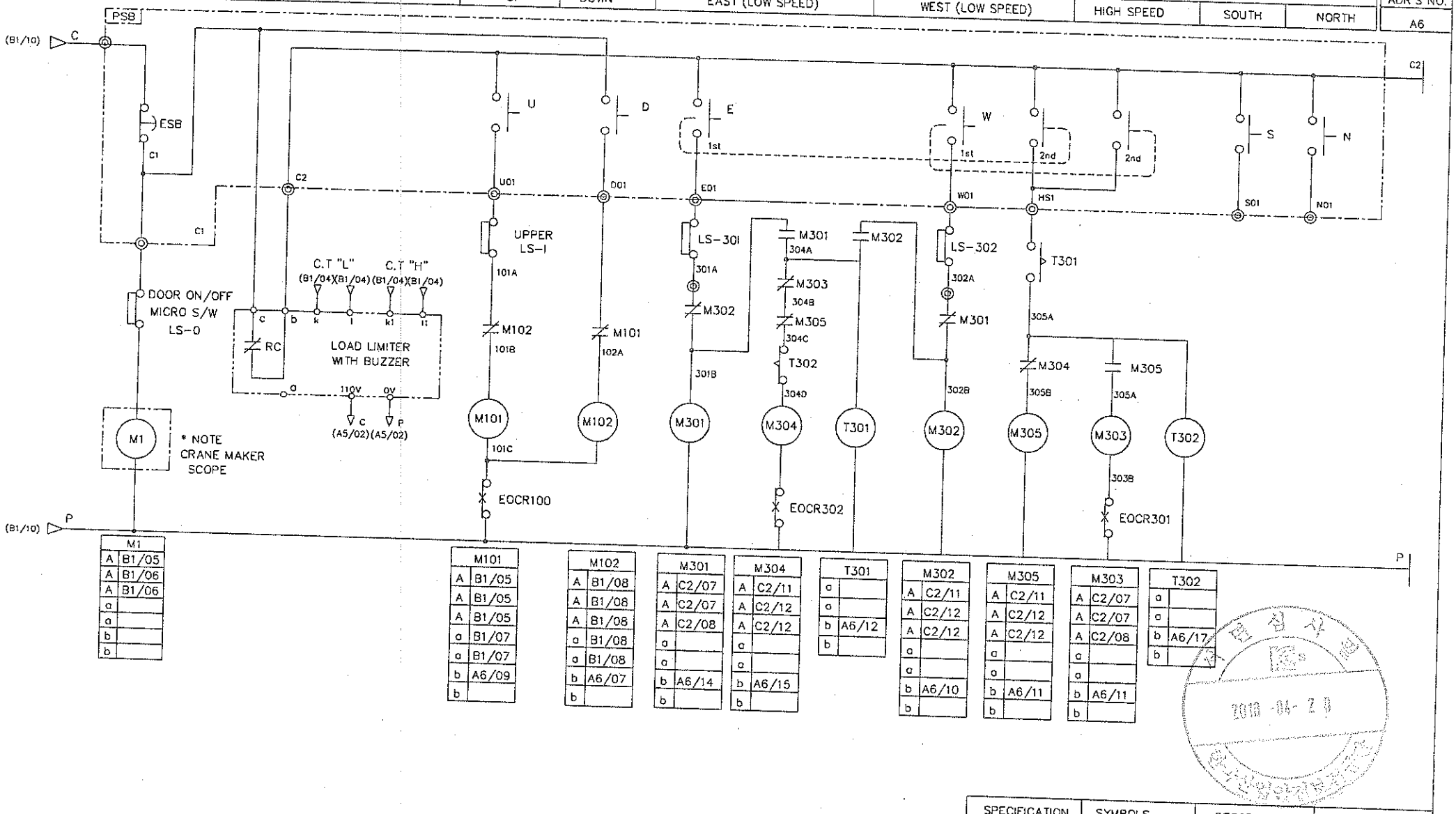
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD28003

KD28E006

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.
EM. STOP	LOAD LIMIT	UP	DOWN	EAST (LOW SPEED)	WEST (LOW SPEED)	HIGH SPEED	SOUTH	NORTH	ADR'S NO.
									A6

CONTROL CIRCUIT



M1	
A	B1/05
A	B1/06
A	B1/06
a	
a	
b	
b	

M101	
A	B1/05
A	B1/05
A	B1/05
a	B1/07
a	B1/07
b	A6/09
b	

M102	
A	B1/08
A	B1/08
A	B1/08
a	B1/08
a	B1/08
b	A6/07
b	

M301	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/14
b	

M304	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/15
b	

T301	
a	
a	
b	A6/12
b	

M302	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/10
b	

M305	
A	C2/11
A	C2/12
A	C2/12
a	
a	
b	A6/11
b	

M303	
A	C2/07
A	C2/07
A	C2/08
a	
a	
b	A6/11
b	

T302	
a	
a	
b	A6/17
b	

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

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

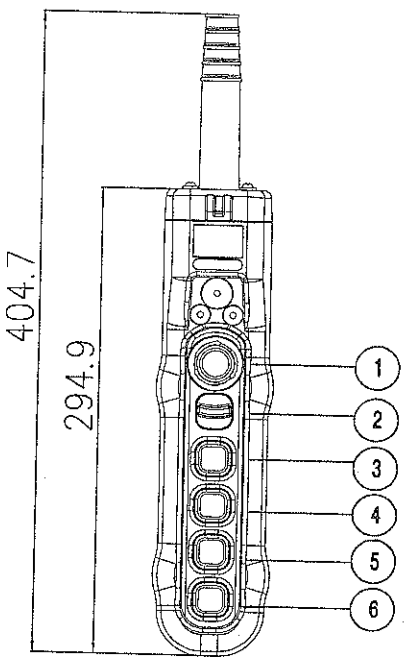
CUSTOMER

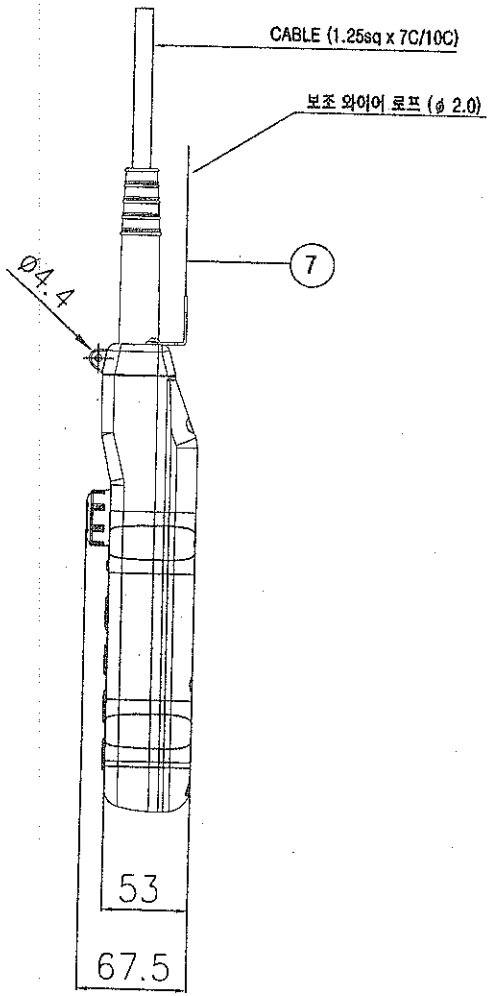
DRAWING TITLE: MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD28E004



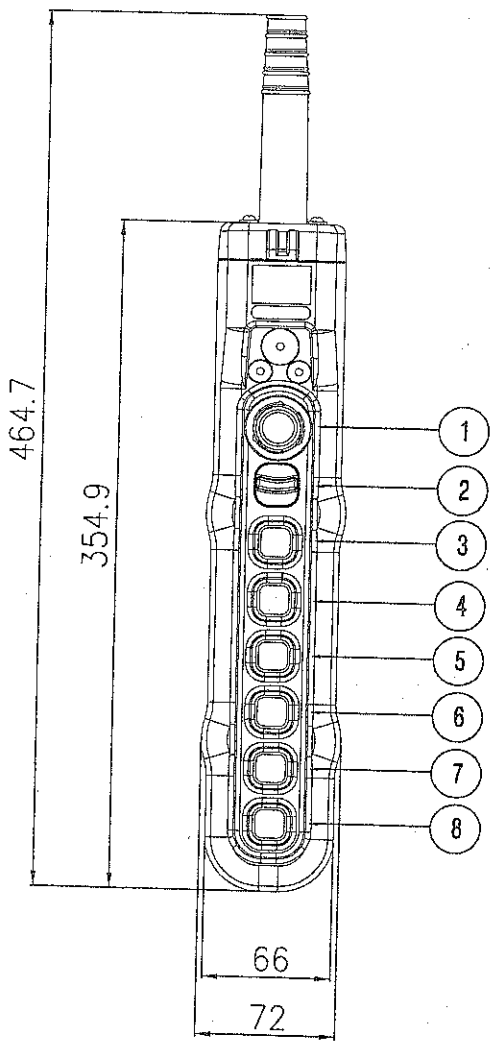


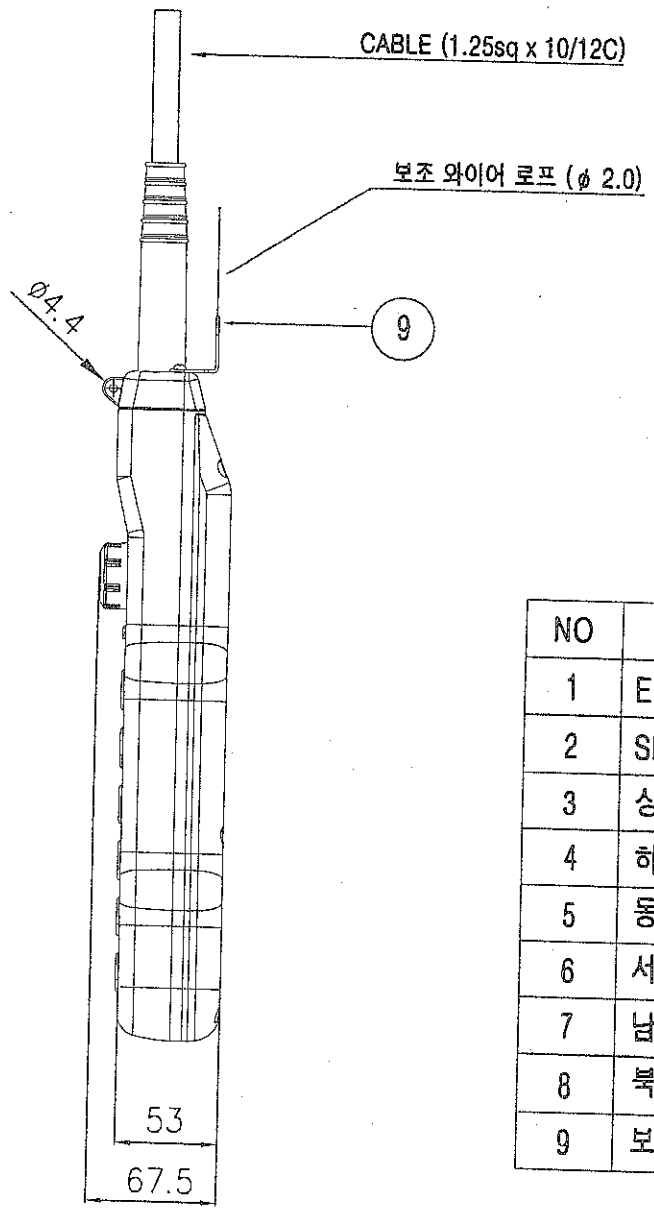
구분 / 색상	조작버튼	표시등
빨강색	비상	비상
노란색	비정상	비정상
녹색	정상	정상
청색	의무	의무
흰색,회색-흑색	지정된의미없음	기타

* 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			
3	상	PUSH BUTTON		
4	하	PUSH BUTTON		
5	동(전)	PUSH BUTTON		BLACK
6	서(후)	PUSH BUTTON		
7	보조 와이어	ø 2.0		

③					CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
②					DRAWING TITLE	PENDANT PUSH BUTTON SWITCH						
①						LAY OUT	KD KUK DONG HOIST CO., LTD.			DWG. NO		
MK	DATE	REVISIONS	CHK.	APP.								





구분 / 색상	조작버튼	표시등
빨강색	비상	비상
노란색	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	PUSH BUTTON		
4	하	PUSH BUTTON		
5	동 (좌)	PUSH BUTTON		
6	서 (우)	PUSH BUTTON		
7	남 (전)	PUSH BUTTON		
8	북 (후)	PUSH BUTTON		
9	보조 WIRE	ø 2.0		

MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				

CUSTOMER

DRAWING TITLE: PENDANT PUSH BUTTON SWITCH

LAY OUT

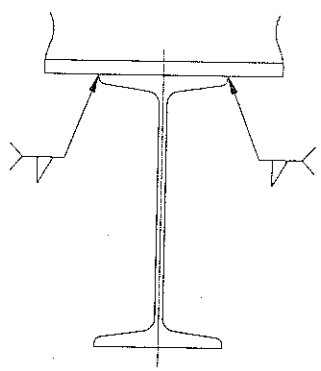
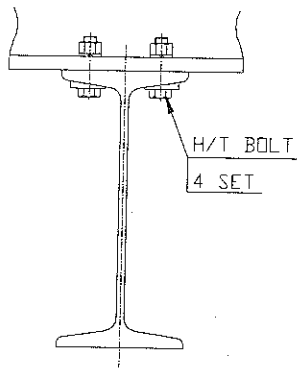
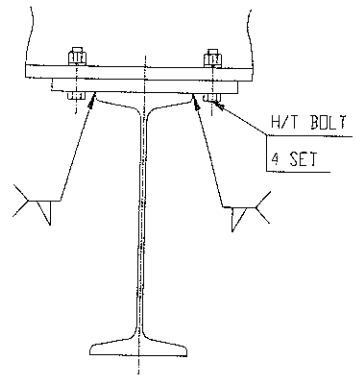
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE

KD KUK DONG HOIST CO., LTD.

DWG. NO

Ⅰ-4. Ⅰ-BEAM의 고정방법 및 사양

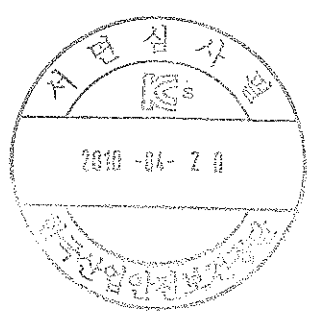
1. Ⅰ-BEAM의 고정방법

용 접 구 조	BOLT 체 결 구 조	복 합 구 조
		

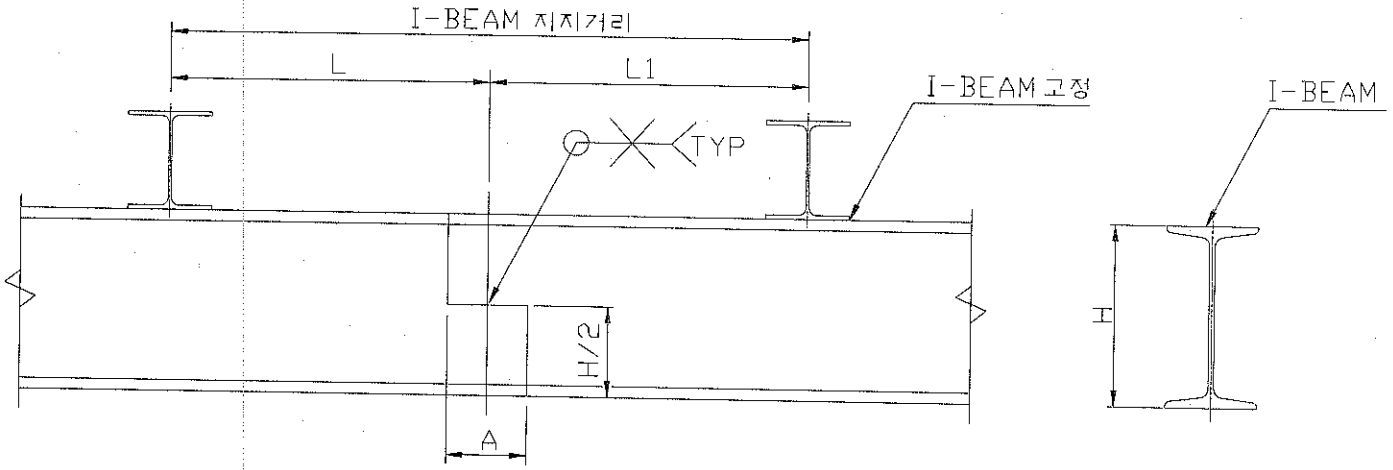
2. 기본조건 및 사양

* 등하중에 의한 용접이음의 허용응력 (필렛용접 효율 80% 포함) : 560 kg/㎠ M
* H/T BOLT의 허용 인장응력 : 2500kg/㎠

정격하중 (TON)	용 접 구 조 (mm)		BOLT 체결구조
	용접두께	최소 용접길이	최소 BOLT SIZE
1.0	6	100 × 2개소	M12 × 4 SET
2.0	6	125 × 2개소	M12 × 4 SET
2.8	6	125 × 2개소	M12 × 4 SET
3.0	6	125 × 2개소	M12 × 4 SET
5.0	8	150 × 2개소	M16 × 4 SET



3. I-BEAM의 연결방법



구조 (단위 : mm)

* I-BEAM의 용접 연결부위는 I-BEAM 고정 지점과 동일 선상에 위치하지 않도록 한다.
* 고정 지점 사이 중앙에 용접 연결부위가 일치하지 않도록 한다.

사용 I-BEAM	A	H	H/2	최대 지지거리				
				1 T	2 T	2.8 T	3 T	5 T
200×100×t7/10	200	200	100	4000				
250×125×t7.5/12.5	200	250	125	6200	4400	3700	3600	
300×150×t10/18.5	300	300	150	9300	6800	5800	5800	4600
350×150×t9/15	300	350	175	10200	7500	6300	6000	5900
400×150×t10/18	300	400	200	12600	9400	8000	7700	5800
450×175×t11/20	300	450	225		11000	10000	9900	7700

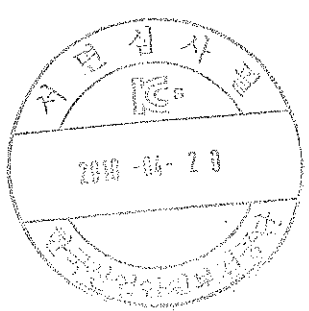
단, 사용 I-BEAM은 MODEL별 기술사양서의 BEAM 폭을 참조 할 것

* I-BEAM 고정 방법 중 용접 구조의 용접 강도

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

I-BEAM 규격	BEAM 자중 (kg/m)	용접 두께 (cm)	최소 용접길이 (cm)	1 T		2 T		2.8 T		3 T		5 T	
				HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)	HOIST 자중 (KG)	용접강도 (kcal/cm²)
200×100×t7/10	26.0	0.6	10×2	230	210.1								
250×125×t7.5/12.5	38.3	0.6	12.5×2	230	169.4	390	325.3	510	448.9	510	475.8		
300×150×t10/18.5	65.6	0.6	15.0×2	230	143.6	390	273.5	510	376.5	510	398.9	810	492.3
350×150×t9/15	58.5	0.6	15.0×2	230	143.0	390	272.9	510	375.9	510	398.3	810	491.9
400×150×t10/18	72.0	0.8	15.0×2	230	108.1	390	274.1	510	377.1	510	399.5	810	492.8
450×175×t11/20	91.7	0.8	17.5×2			390	275.8	510	378.9	510	343.9	810	494.1

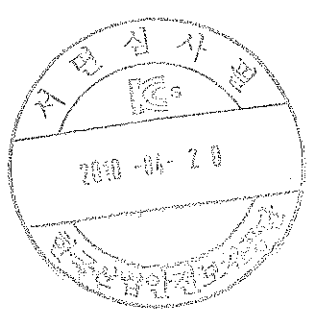
단, 사용 I-BEAM은 MODEL 별 기술사양서의 BEAM 폭을 참조 할 것



* I-BEAM 고정 방법 중 BOLT 고정 강도

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

I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규 격	BOLT 수	BOLT 단면적 (cm^2)	1 T		2 T		2.8 T		3 T		5 T	
					HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)	HOIST 자중(KG)	BOLT강도 (kcal/cm²)
200×100×t7/10	26.0	M12	4	1.13	230	394.3								
250×125×t7.5/12.5	38.3	M12	4	1.13	230	397.4	390	763.1	510	1053.2	480	1106.8		
300×150×t10/18.5	65.6	M12	4	1.13	230	404.3	390	770.0	510	1060.1	480	1114	810	1039.1
350×150×t9/15	58.5	M12	4	1.13	230	402.5	390	768.2	510	1058.3	480	1112	810	1038.1
400×150×t10/18	72.0	M16	4	2.01	230	228.2	390	433.8	510	596.9	480	627.0	810	1040.0
450×175×t11/20	91.7	M16	4	2.01			390	436.6	510	599.7	480	629.8	810	1042.8



Ⅰ-5. Ⅰ-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 38.3 * 370\text{^}2}{8} = 6882 \text{ kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 510) * 370}{4} = 383943 \text{ kg-cm}$$

* 호이스트 자중 = 510 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 6882 + 383943 = 390825 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{32.93 * 370}{2} = 6092.9 \text{ kg-cm}$$

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 1.16 = 32.93 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 0.79 + 0.37 = 1.16 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	∑Mv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	383943	390825	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	601857	630821	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	653742	684216	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	830148	890628	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1037685	1181425	126.91	50764.9	4.47

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

5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{390825}{415} = 941.7 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

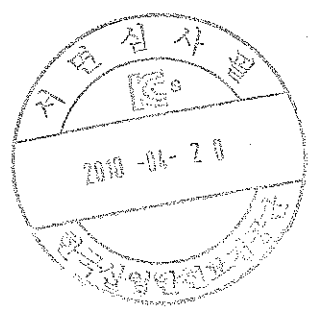
$$= \frac{6092.9}{56.2} = 108.4 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sum\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	∑Mv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	∑σ (kg/cm²)
250×125×t7.5/12.5	415	56.2	390825	6092.9	941.7	108.4	1050.2
300×150×t10/18.5	849	118	630821	17373.1	743.0	147.2	890.2
350×150×t9/15	871	95.4	684216	22090.4	785.6	231.6	1017.1
400×150×t10/18	1220	118	890628	36001.1	730.0	305.1	1035.1
450×175×t11/20	1740	177	1181425	50764.9	679.0	286.8	965.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 38.3 * 370\text{^}3}{384 * 2100000 * 5180} = 0.0232 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 510) \times 370\text{^}3}{48 * 2100000 * 5180} = 0.321 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.321}{370} = \frac{1}{1152} < \frac{1}{1000}$$

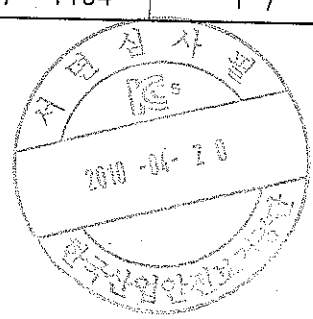
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0232+0.321}{370} = \frac{1}{1075} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.321	1 / 1152	1 / 1075
300×150×t10/18.5	12700	65.6	0.06249	0.504	1 / 1150	1 / 1023
350×150×t9/15	15200	58.5	0.05967	0.540	1 / 1166	1 / 1050
400×150×t10/18	24100	72	0.09484	0.698	1 / 1147	1 / 1010
450×175×t11/20	39200	91.7	0.14504	0.838	1 / 1194	1 / 1018

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



Ⅰ-6. Ⅰ-BEAM의 최대 지지거리

6-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$Ms = \frac{1.05 * 65.6 * 580^2}{8} = 28964$ kg-cm

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

$M_d = 1.254 \times \frac{(2800 + 510) * 580}{4} = 601857$ kg-cm

* 호이스트 자중 = 510 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 28964 + 601857 = 630821 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \frac{59.91 * 580}{2} = 17373.1$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 2.11 = 59.91 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 1.74 + 0.37 = 2.11 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	∑Mv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	383943	390825	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	601857	630821	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	653742	684216	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	830148	890628	90.00	36000.0	3.17
450×175×t11/20	91.7	1000	143740	1037685	1181425	126.91	50764.9	4.47

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

6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{630821}{849} = 743.0 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

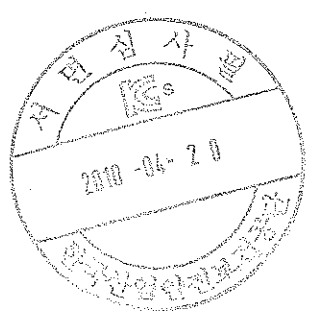
$$= \frac{17373.1}{118} = 147.2 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \Sigma\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣMv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	Σσ (kg/cm²)
250×125×t7.5/12.5	415	56.2	390825	6092.9	941.7	108.4	1050.2
300×150×t10/18.5	849	118	630821	17373.1	743.0	147.2	890.2
350×150×t9/15	871	95.4	684216	22090.4	785.6	231.6	1017.1
400×150×t10/18	1220	118	890628	36000.0	730.0	305.1	1035.1
450×175×t11/20	1740	177	1181425	50764.9	679.0	286.8	965.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \ \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \ (\text{cm})$$

$$= \frac{5 * 65.6 * 580\text{^}3}{384 * 2100000 * 5180} = 0.0625 \ (\text{cm})$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \ \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (\text{cm})$$

$$= \frac{(2800 + 510) \times 580\text{^}3}{48 * 2100000 * 5180} = 0.504 \ (\text{cm})$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.504}{580} = \frac{1}{1150} < \frac{1}{1000}$$

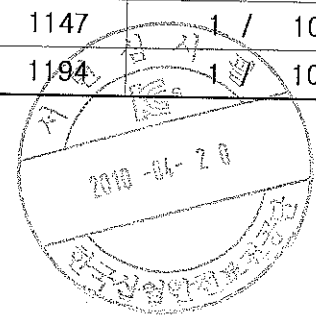
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0625+0.504}{580} = \frac{1}{1023} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.321	1 / 1152	1 / 1075
300×150×t10/18.5	12700	65.6	0.06249	0.504	1 / 1150	1 / 1023
350×150×t9/15	15200	58.5	0.05967	0.540	1 / 1166	1 / 1050
400×150×t10/18	24100	72	0.09484	0.698	1 / 1147	1 / 1010
450×175×t11/20	39200	91.7	0.14504	0.838	1 / 1194	1 / 1018

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



I-7. I-BEAM의 최대 지지거리

7-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$Ms = \dfrac{1.05 * 58.5 * 630\text{^}2}{8} = 30474$ kg-cm

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

$M_d = 1.254 \times \dfrac{(2800 + 510) * 630}{4} = 653742$ kg-cm

* 호이스트 자중 = 510 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\Sigma M_v = M_s + M_d$ = 30474 + 653742 = 684216 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \dfrac{70.13 * 630}{2} = 22090.4$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 2.47 = 70.13 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 2.1 + 0.37 = 2.47 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	ΣMv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	383943	390825	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	601857	630821	59.91	17373.1	2.11
⇒ 350×150×t9/15	58.5	630	30474	653742	684216	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	830148	890628	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1037685	1181425	126.91	50764.9	4.47

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

7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{684216}{871} = 785.6 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

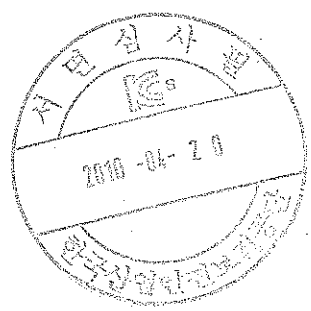
$$= \frac{22090.4}{95.4} = 231.6 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \Sigma\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣMv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	Σσ (kg/cm²)
250×125×t7.5/12.5	415	56.2	390825	6092.9	941.7	108.4	1050.2
300×150×t10/18.5	849	118	630821	17373.1	743.0	147.2	890.2
350×150×t9/15	871	95.4	684216	22090.4	785.6	231.6	1017.1
400×150×t10/18	1220	118	890628	36001.1	730.0	305.1	1035.1
450×175×t11/20	1740	177	1181425	50764.9	679.0	286.8	965.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 58.5 * 630\text{^}3}{384 * 2100000 * 15200} = 0.0597 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 510) \times 630\text{^}3}{48 * 2100000 * 15200} = 0.540 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.540}{630} = \frac{1}{1166} < \frac{1}{1000}$$

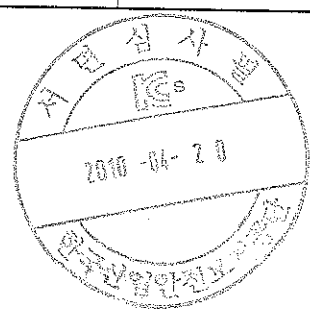
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0597+0.54}{630} = \frac{1}{1050} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.321	1 / 1152	1 / 1075
300×150×t10/18.5	12700	65.6	0.06249	0.504	1 / 1150	1 / 1023
⇨ 350×150×t9/15	15200	58.5	0.05967	0.540	1 / 1166	1 / 1050
400×150×t10/18	24100	72	0.09484	0.698	1 / 1147	1 / 1010
450×175×t11/20	39200	91.7	0.14504	0.838	1 / 1194	1 / 1018

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



I-8. I-BEAM의 최대 지지거리

8-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 72 * 800\text{^}2}{8} = 60480 \text{ kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 510)*800}{4} = 830148 \text{ kg-cm}$$

* 호이스트 자중 = 510 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 60480 + 830148 = 890628 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{90 * 800}{2} = 36001.1 \text{ kg-cm}$$

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 3.17 = 90.00 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 2.8 + 0.37 = 3.17 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	ΣMv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	383943	390825	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	601857	630821	59.91	17378.1	2.11
350×150×t9/15	58.5	630	30474	653742	684216	70.13	22090.4	2.47
⇨ 400×150×t10/18	72.0	800	60480	830148	890628	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1037685	1181425	126.91	50764.9	4.47

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

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{890628}{1220} = 730.0 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

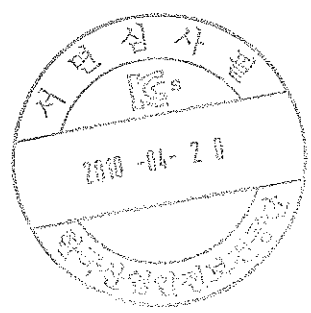
$$= \frac{36001.1}{118} = 305.1 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \Sigma\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣMv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	Σσ (kg/cm²)
250×125×t7.5/12.5	415	56.2	390825	6092.9	941.7	108.4	1050.2
300×150×t10/18.5	849	118	630821	17373.1	743.0	147.2	890.2
350×150×t9/15	871	95.4	684216	22090.4	785.6	231.6	1017.1
400×150×t10/18	1220	118	890628	36001.1	730.0	305.1	1035.1
450×175×t11/20	1740	177	1181425	50764.9	679.0	286.8	965.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 72 * 800\text{^}3}{384 * 2100000 * 24100} = 0.0948 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 510) \times 800\text{^}3}{48 * 2100000 * 24100} = 0.698 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.698}{800} = \frac{1}{1147} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.0948+0.698}{800} = \frac{1}{1010} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.321	1 / 1152	1 / 1075
300×150×t10/18.5	12700	65.6	0.06249	0.504	1 / 1150	1 / 1023
350×150×t9/15	15200	58.5	0.05967	0.540	1 / 1166	1 / 1050
400×150×t10/18	24100	72	0.09484	0.698	1 / 1147	1 / 1010
450×175×t11/20	39200	91.7	0.14504	0.838	1 / 1194	1 / 1018

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

Ⅰ-9. Ⅰ-BEAM의 최대 지지거리

9-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$Ms = \dfrac{1.05*91.7*1000^2}{8} = 143740$ kg-cm

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

$M_d = 1.254 \times \dfrac{(2800+510)*1000}{4} = 1037685$ kg-cm

* 호이스트 자중 = 510 KG 용 량 : 2800 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 143740 + 1037685 = 1181425 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \dfrac{126.91 * 800}{2} = 50764.9$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)

= 23.66 x 1.2 x 4.47 = 126.91 (kg)

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

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (m^2)

= 4.1 + 0.37 = 4.47 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.8m^2

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	Ms (kg-cm)	M_d (kg-cm)	ΣMv (kg-cm)	W (kg)	Mw (kg-cm)	A (m^2)
250×125×t7.5/12.5	38.3	370	6882	383943	390825	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	601857	630821	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	653742	684216	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	830148	890628	90.00	36001.1	3.17
⇨ 450×175×t11/20	91.7	1000	143740	1037685	1181425	126.91	50764.9	4.47

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

9-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$* \ \sigma_v = \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \ (kg/cm^2)$$

$$= \frac{1181425}{1740} = 679.0 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sigma_w = \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \ (kg/cm^2)$$

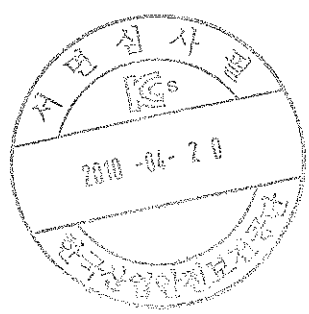
$$= \frac{50764.9}{177} = 286.8 \ (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

$$* \ \sum\sigma = \sigma v + \sigma w \leqq 0.8 \times 1449 = 1159 \ kg/cm^2$$

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	∑Mv (kg-cm)	Mw (kg-cm)	σv (kg/cm²)	σw (kg/cm²)	∑σ (kg/cm²)
250×125×t7.5/12.5	415	56.2	390825	6092.9	941.7	108.4	1050.2
300×150×t10/18.5	849	118	630821	17373.1	743.0	147.2	890.2
350×150×t9/15	871	95.4	684216	22090.4	785.6	231.6	1017.1
400×150×t10/18	1220	118	890628	36001.1	730.0	305.1	1035.1
450×175×t11/20	1740	177	1181425	50764.9	679.0	286.8	965.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



9-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$* \delta_s = \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (cm)$$

$$= \frac{5 * 91.7 * 1000\text{^}3}{384 * 2100000 * 39200} = 0.1450 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$* \delta_d = \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} (cm)$$

$$= \frac{(2800 + 510) \times 1000\text{^}3}{48 * 2100000 * 39200} = 0.838 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000}$$

$$= \frac{0.838}{1000} = \frac{1}{1194} < \frac{1}{1000}$$

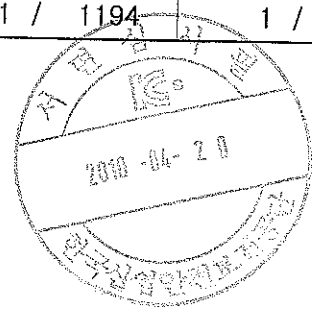
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800}$$

$$= \frac{0.145+0.838}{1000} = \frac{1}{1018} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
250×125×t7.5/12.5	5180	38.3	0.023	0.321	1 / 1152	1 / 1075
300×150×t10/18.5	12700	65.6	0.06249	0.504	1 / 1150	1 / 1023
350×150×t9/15	15200	58.5	0.05967	0.540	1 / 1166	1 / 1050
400×150×t10/18	24100	72	0.09484	0.698	1 / 1147	1 / 1010
450×175×t11/20	39200	91.7	0.14504	0.838	1 / 1194	1 / 1018

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	12.0 A	13.2 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.6 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.1 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	7.0 A	7.7 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	10.3 A	CT-1	K, L	5 V.A	
⇨ 2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 440V 60Hz

극동호이스트㈜

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%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.6 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.5 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.9 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.6 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.5 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.9 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.8 A	6.4 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.5 A	12.7 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.5 A	12.7 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.3 A	5.9 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
2.8T	2.5KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
3TON	2.8KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3¢ 480V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.1 A	5.8 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.3 A	6.0 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.0 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.6 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
1 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.0 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.6 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
2 TON	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	2.5KW x 6P	12.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.0 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
2.8 TON	2.5KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.7 A	
	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
3 TON	2.8KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.7 A	
	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
5 TON	4.2KW x 8P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	34.4 A	
7.5 TON	4.2KW x 8P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	34.4 A	

NOTE

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REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	1 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.4 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
1 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.4 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
2 TON	1.8KW x 8P	6.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
	2.5KW x 6P	7.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.0 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
2.8 TON	2.5KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
3 TON	2.8KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
5 TON	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	
7.5 TON	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 440V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
1 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
2 TON	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
	2.5KW x 6P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
2.8 TON	2.5KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.9 A	
	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
3 TON	2.8KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.9 A	
	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
5 TON	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	
7.5 TON	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	

NOTE

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REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3¢ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	1.5KW x 6P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	2.4KW x 4P	4.8 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.8 A	
1 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
2 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
2.8 TON	2.5KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
3 TON	2.8KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	
7.5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	

NOTE

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

REFERENCE

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3 ¢ 480V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.5 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.6 A	
1 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.5 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.6 A	
2 TON	1.8KW x 8P	5.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.1 A	
	2.5KW x 6P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
⇨ 2.8 TON	2.5KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
3 TON	2.8KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.8 A	
7.5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.8 A	

NOTE

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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 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	1750 RPM
11. FULL LOAD CURRENT	28.8 A
12. LOCKED ROTOR CURRENT	136.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KG.M
17. SITE 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 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	1750 RPM
11. FULL LOAD CURRENT	12.2 A
12. LOCKER ROTOR CURRENT	72.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.5 A
12. LOCKER ROTOR CURRENT	63.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.0 A
12. LOCKER ROTOR CURRENT	60.0 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	9.6 A
12. LOCKER ROTOR CURRENT	57.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KG.M
17. SITE 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	17.7 A
12. LOCKED ROTOR CURRENT	92.9 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	10.3 A
12. LOCKED ROTOR CURRENT	53.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	8.9 A
12. LOCKED ROTOR CURRENT	46.6 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	7.7 A
12. LOCKED ROTOR CURRENT	40.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	860 RPM
11. FULL LOAD CURRENT	7.3 A
12. LOCKED ROTOR CURRENT	38.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	4.1 A
12. LOCKED ROTOR CURRENT	22.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	FL : 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

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1.SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.4 A
12. LOCKED ROTOR CURRENT	12.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	11.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	10.6 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	1.9 A
12. LOCKED ROTOR CURRENT	10.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	3.4 A
12. LOCKED ROTOR CURRENT	16.4 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

REFERENCE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	9.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	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

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