■ 산업안전보건법 시행규칙 [별지 제10호의 6서식]

제 CE-2018-51324 호

안 전 인 증 서

(사업장명) 극동호이스트(주)

(소 재 지) 경기도 안산시 단원구 해봉로 119 (성곡동 630-2)

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

품 목	:	호이스트
형식(용량)	:	KD1-M(1 ton)
인증번호	:	18-CE2AC-51324
인증기준	:	위험기계·기구 안전인증기준 (고용노동부고시 제2016-29호)
인증조건	:	산업안전보건법 "제34조 준수"

2018년 10월 23일

한국승강기안전공단 이사장

■ 산업안전보건법 시행규칙 [별지 제10호의 5서식]

심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	13481013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	경기도 안산시 단원구 해봉로 119 (성곡동)		

안전인증대상기계 · 기구명	호이스트
형식(규격) KD1-M	용량(등급) 1 ton

『산업안전보건법』 제34조 및 같은 법 시행규칙 제58조의4제4항에 따라 실시한

[ ] 예비심사
[■] 서면심사
[ ] 기술능력 및 생산체계심사
[ ] 개별 제품심사
[ ] 형식별 제품심사

결과가 [■] 적 합 [ ] 부적합 함을 통지합니다.

2017년 05월 08일

인증심사원 박영민 (서명 또는 인)
이동윤 (서명 또는 인)

한국승강기안전공단 이사장

불법복제 및 배포금지

서 면 심 사 도 서

품　　명: Monorail Type Hoist
형식번호: KD1 - M
정격용량: 1 톤

서면심사필
2017 .05. 08
한국승강기안전공단

CE1701687

극 동 호 이 스 트 ㈜

주소: 경기도 안산시 단원구 해봉로 119 (성곡동)

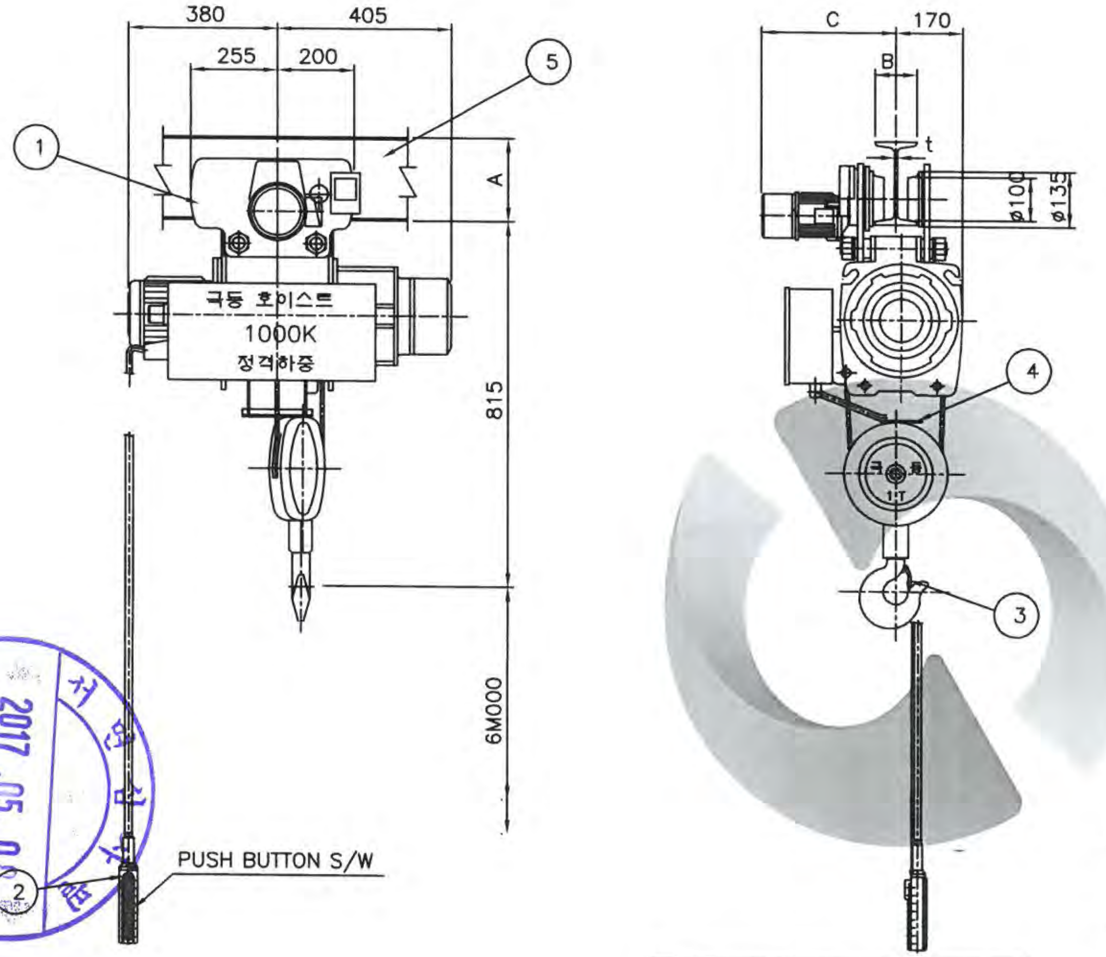
TEL : 031) 491 - 5311
FAX : 031) 363 - 3952

심사필
KGS
한국승강기안전공단

동 일 형 식 일 람 표

사업장명	극동호이스트㈜		개정일자 및 번호	2017. 04. 28	인증번호	
형식 및 모델			동일 형식 인정범위 및 내역			비 고
형식	모델	양정(m)	권상속도(m/min)	횡행속도(m/min)	횡행방식	
KD1-M	KD1-L6-S	6	고속: 12M/MIN 저속: 6M/MIN	-	정치식	
	KD1-L9-S	9				
	KD1-L12-S	12				
	KD1-L18-S	18				
	KD1-L24-S	24				
	KD1-L30-S	30				
	KD1-L6-P	6			수동 구동식	
	KD1-L9-P	9				
	KD1-L12-P	12				
	KD1-L6-M	6		고속:24M/MIN 저속:16M/MIN	모터 구동식 (인버터 콘트롤 포함)	
	KD1-L9-M	9				
	KD1-L12-M	12				
	KD1-L18-M	18				
	KD1-L24-M	24				
	KD1-L30-M	30				
	KD1-L18-M-H	18				
	KD1-L24-M-H	24				
	KD1-L30-M-H	30				힌지트롤리 타입

불법복제 및 배포금지



불법복제 및 배포금지

SPECIFICATION			
HOISTING LOAD			1000 KG
TESTING LOAD			1250 KG
LIFT			6 M
RATING			30 MIN
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4 P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10 B 3/5
WEIGHT			190 KG

형식번호 : KD1−M

TRAVERSING I − BEAM A x B x t	Ix (Cm^4)	Zx (Cm^3)	SUPPORT LENGTH	C
I 200 x 100 x 7	2180	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	1200	MAX. 11.0M	420

NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET QT'Y	UNIT WEIGHT KG.	TOTAL WEIGHT KG.	REAMERKS
5	J−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			

PROJECT				DATE: 20 . . .
TITLE	KD1 − L6 − M ARRANGEMENT DRAWING FOR HOIST			SCALE: A3/20 /
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET NO.	DRAWING NO. KD1M6000

서면심사필 2017.05.08 한국승강기안전공단

한국승강기안전공단 KCs

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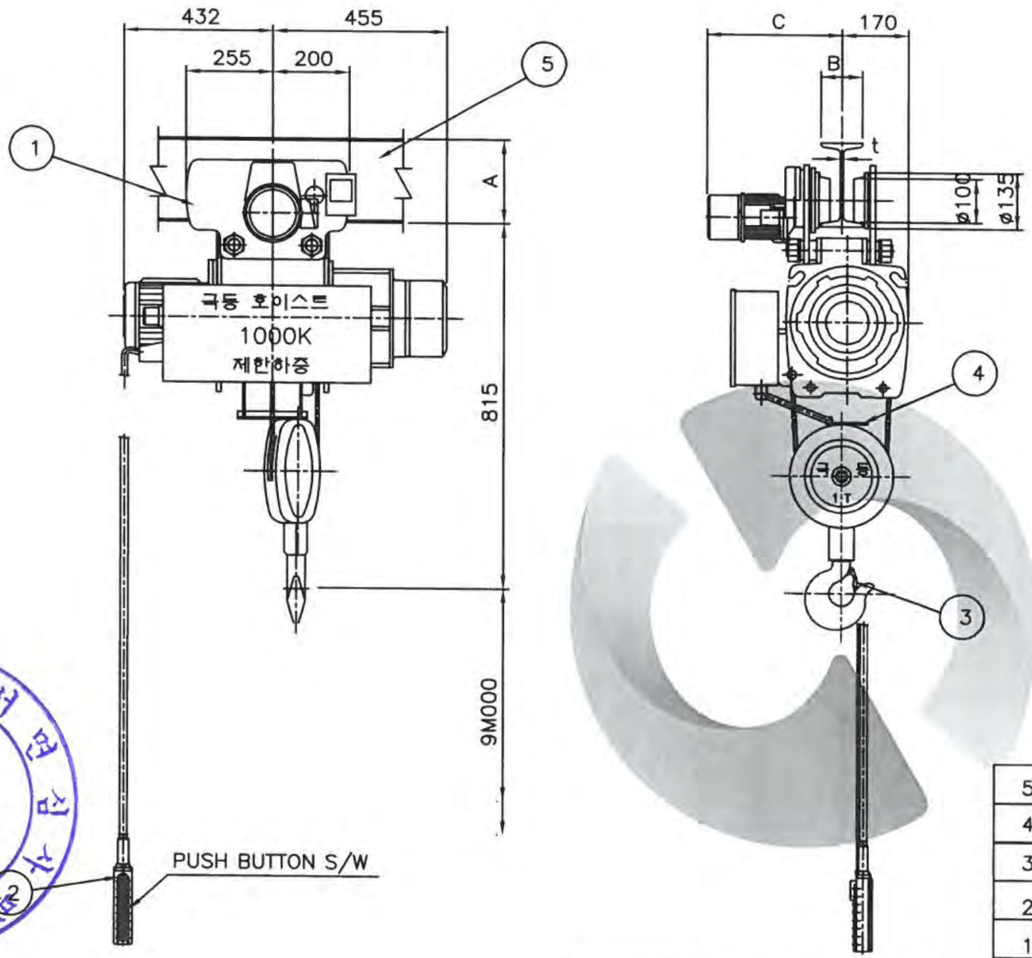
불법복제 및 배포금지



형식번호 : KD1-M

TRAVERSING I - BEAM A x B x t	Ix (Cm⁴)	Zx (Cm³)	SUPPORT LENGTH	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	1200	MAX. 11.0M	420

SPECIFICATION			
HOISTING LOAD			1000 KG
TESTING LOAD			1250 KG
LIFT			9 M
RATING			30 MIN
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4 P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10 B 3/5
WEIGHT			210 KG

NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET QT'Y	UNIT WEIGHT KG.	TOTAL WEIGHT KG.	REAMERKS
5	J-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			

PROJECT				DATE 20 . . .
TITLE	KD1 - L9 - M ARRANGEMENT DRAWING FOR HOIST			SCALE A3/20 /
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET NO.	DRAWING NO. KD1M900

서면심사 2017.05.08 한국승강기안전공단

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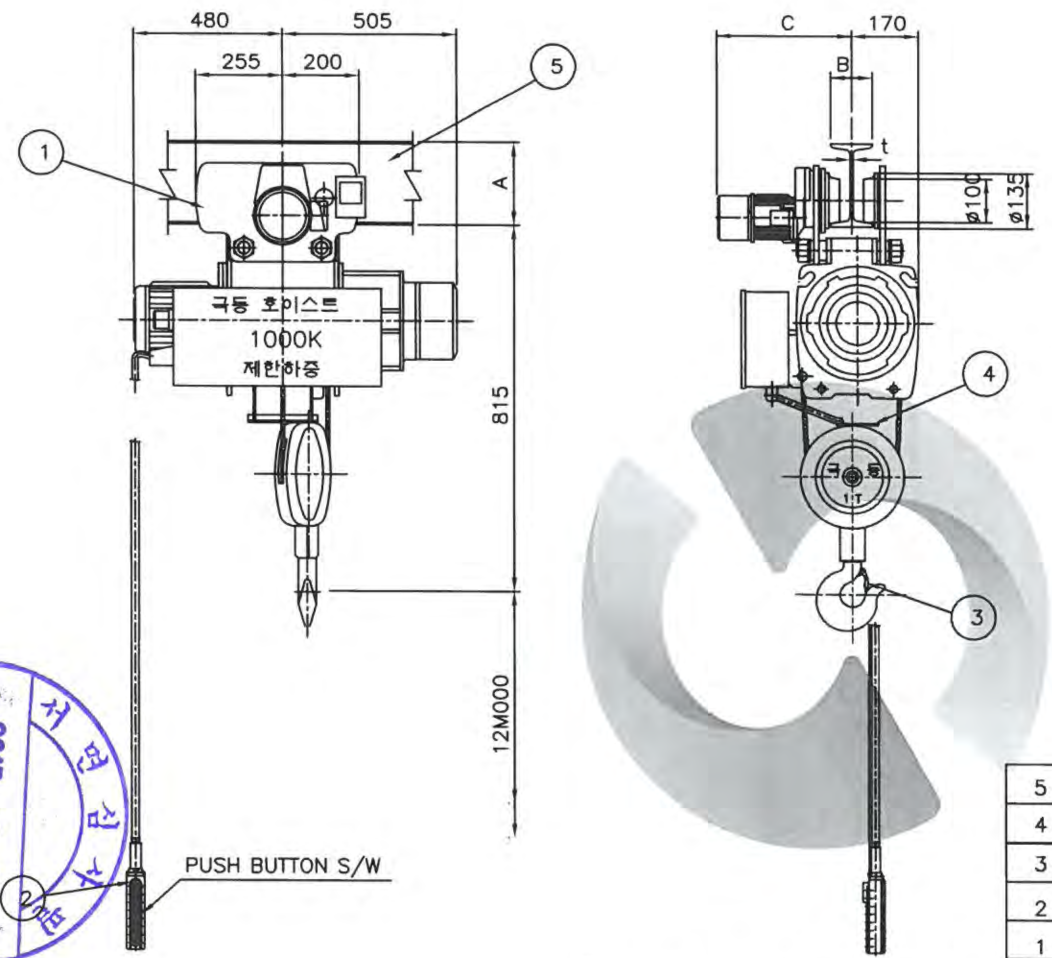
불법복제 및 배포금지



SPECIFICATION			
HOISTING LOAD			1000 KG
TESTING LOAD			1250 KG
LIFT			12 M
RATING			30 MIN
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4 P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10 B 3/5
WEIGHT			220 KG

NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET QT'Y	UNIT WEIGHT KG.	TOTAL WEIGHT KG.	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			

형식번호 : KD1－M

TRAVERSING I – BEAM A x B x t	Ix (Cm⁴)	Zx (Cm³)	SUPPORT LENGTH	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	1200	MAX. 11.0M	420

PROJECT			DATE 20 . . .
TITLE	KD1 – L12 – M ARRANGEMENT DRAWING FOR HOIST		SCALE A3/20 /
DRAWN	DESIGNED	CHECKED	APPROVED
REF DRAWING			
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.	SHEET NO.	DRAWING NO. KD1M1200	

서면심사필 2017.05.00 한국승강기안전공단

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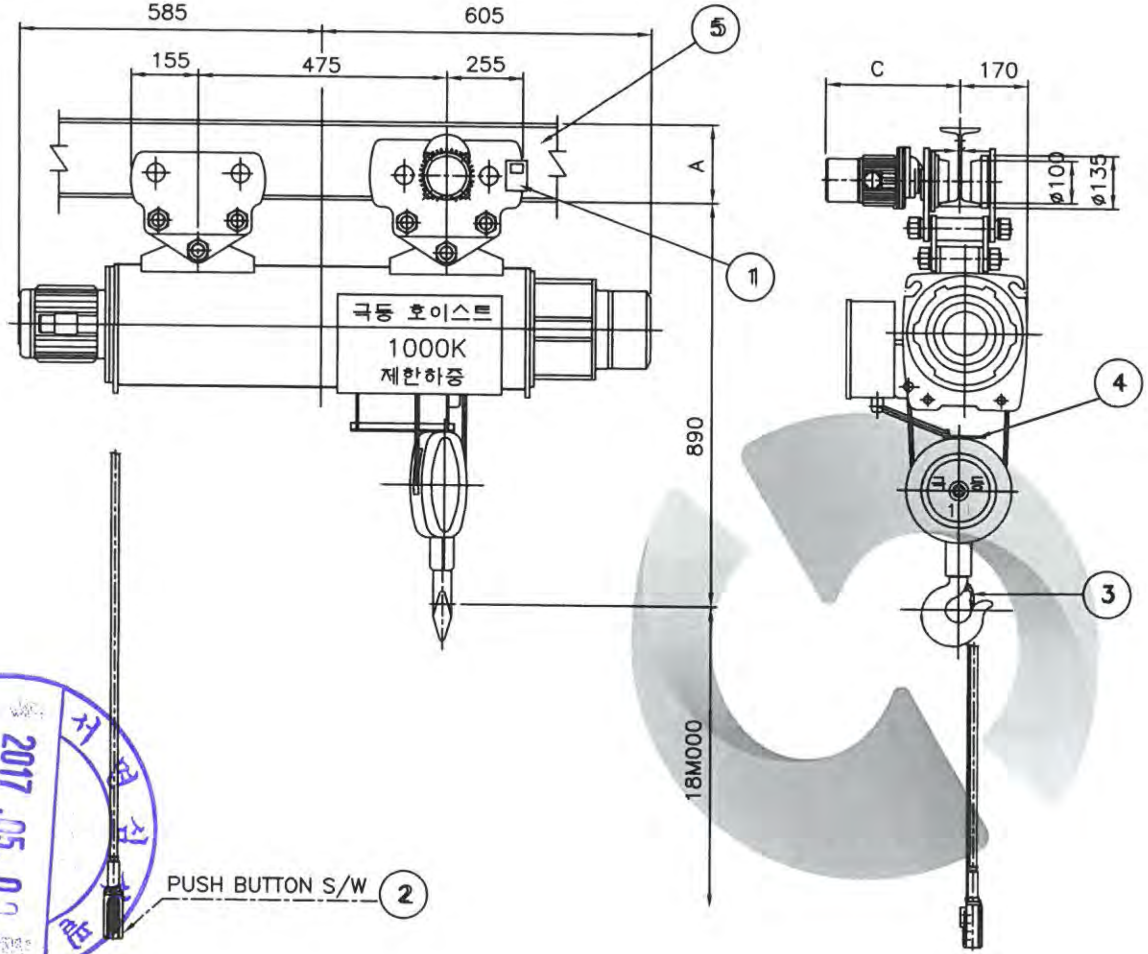

SPECIFICATION			
HOISTING LOAD			1000 KG
TESTING LOAD			1250 KG
LIFT			18 M
RATING			30 MIN
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4 P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10 B 3/5
WEIGHT			280 KG

불법복제 및 배포금지

형식번호 : KD1—M

NO.	DESCRIPTION	MT'L	QT'Y SUB	QT'Y TOTAL	WEIGHT(Kg) SUB	WEIGHT(Kg) TOTAL	REMARKS.
5	I—BEAM	SS400		—			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SPC		1			
2	PENDANT S/W	—		1			
1	LOAD LIMITER	—		1			

PROJECT				DATE	DIM mm
TITLE	KD1 — L18— M ARRANGEMENT DRAWING FOR HOIST			SCALE A3/20	PROJECTION 3rd
DRAWN	DESIGNED	CHECKED	APPROVED	REP. DRAWING	
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET No.	DWG No. KD1M — 1800		

TRAVERSING I — BEAM A x B x t	Ix (Cm^4)	Zx (Cm^3)	SUPPORT LENGTH	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	115	MAX. 11.0M	420

서면심사 필
2017.05.00
한국승강기안전공단

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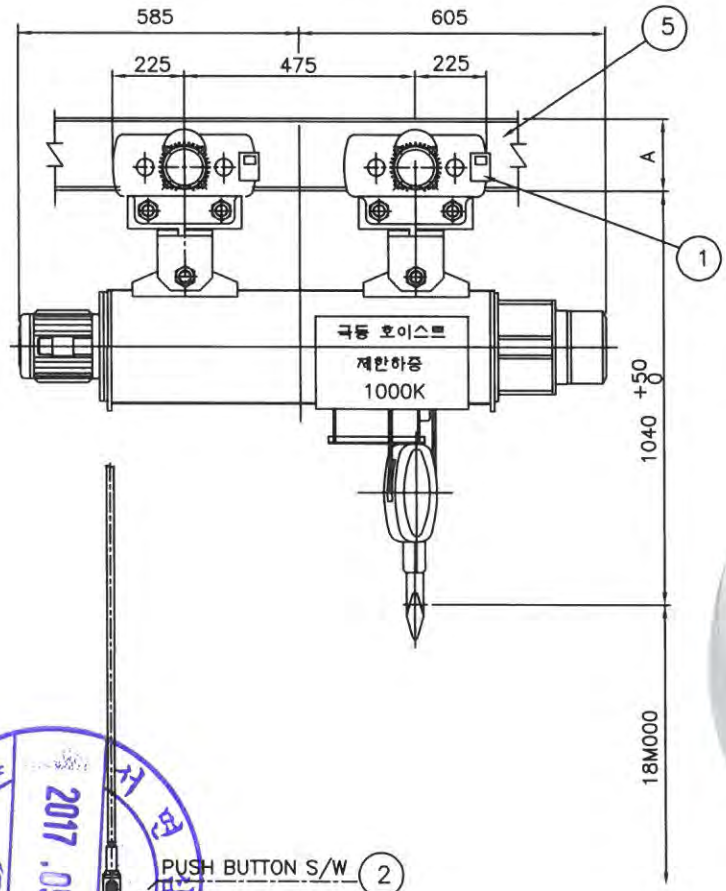
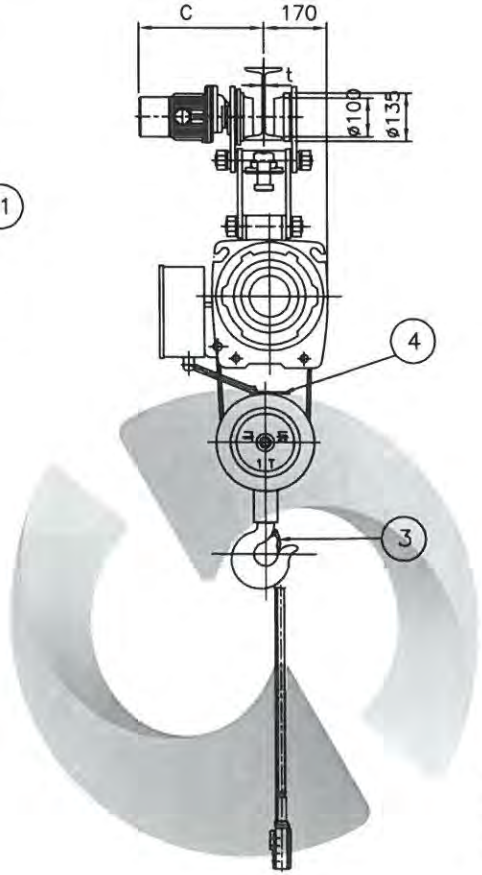




SPECIFICATION			
RATED LOAD			1 TON
TESTING LOAD			1.25 TON
LIFT			18 M
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8P
TRAVERS-ING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P (2UNITS)
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P (2UNITS)
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10B3/5
MIN.RADIUS FOR CURVE			R1500mm
GROSS WEIGHT			280 KG

형식번호 : KD1-M

NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
5	J-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	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	115	MAX. 11.0M	420

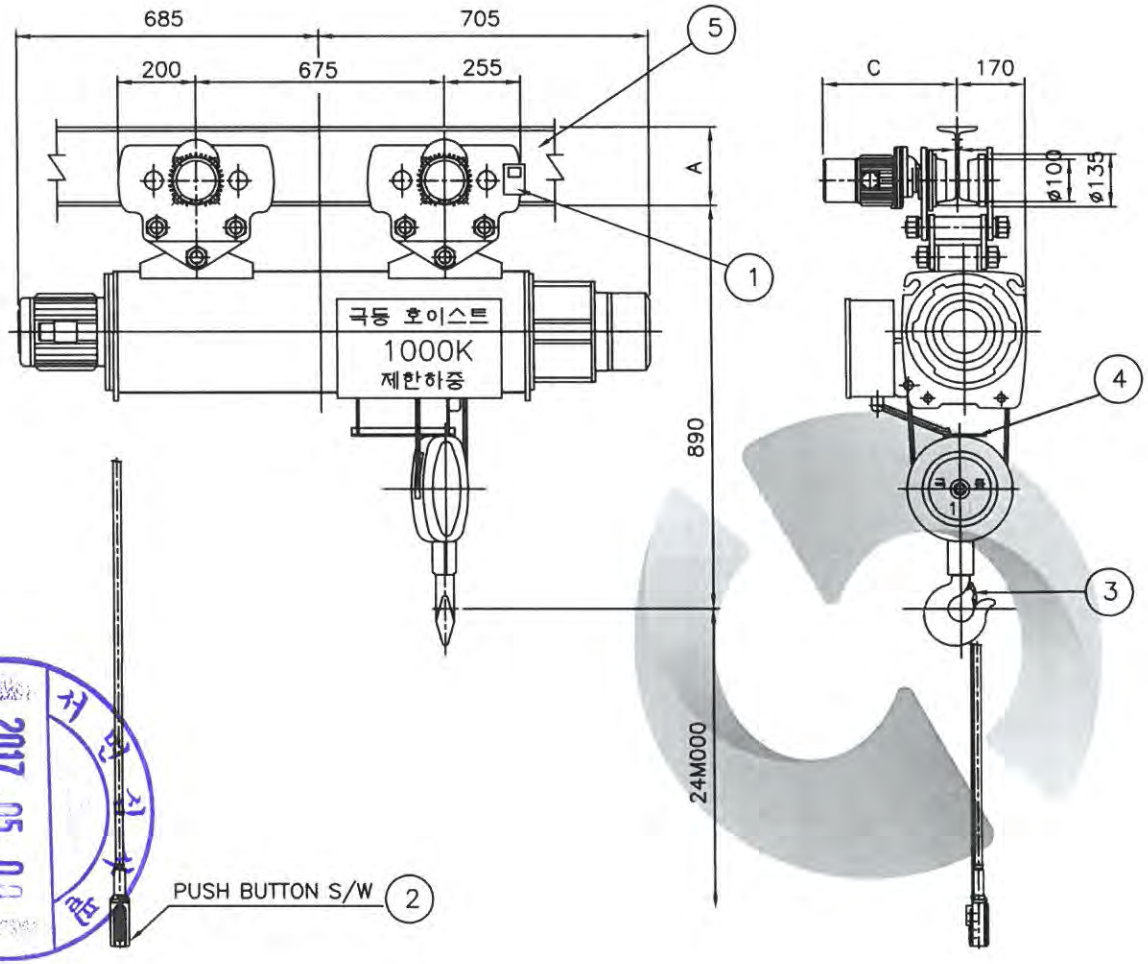
PROJECT		DATE
		20
TITLE	KD1-L18-M-H	SCALE
		A3/20 /

DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET NO.	DRAWING NO.
	KD1M1800H

시운전배포제 및 배포불가



SPECIFICATION			
HOISTING LOAD			1000 KG
TESTING LOAD			1250 KG
LIFT			24 M
RATING			30 MIN
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4 P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10 B 3/5
WEIGHT			300 KG

형식번호 : KD1-M

NO.	DESCRIPTION	MT'L	SUB QT'Y	TOTAL QT'Y	SUB WEIGHT(Kg)	TOTAL WEIGHT(Kg)	REMARKS.
5	I-BEAM	SS400		-			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SPC		1			
2	PENDANT S/W	-		1			
1	LOAD LIMITER	-		1			

TRAVERSING I - BEAM A x B x t	Ix (Cm^4)	Zx (Cm^3)	SUPPORT LENGTH	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	1200	MAX. 11.0M	420

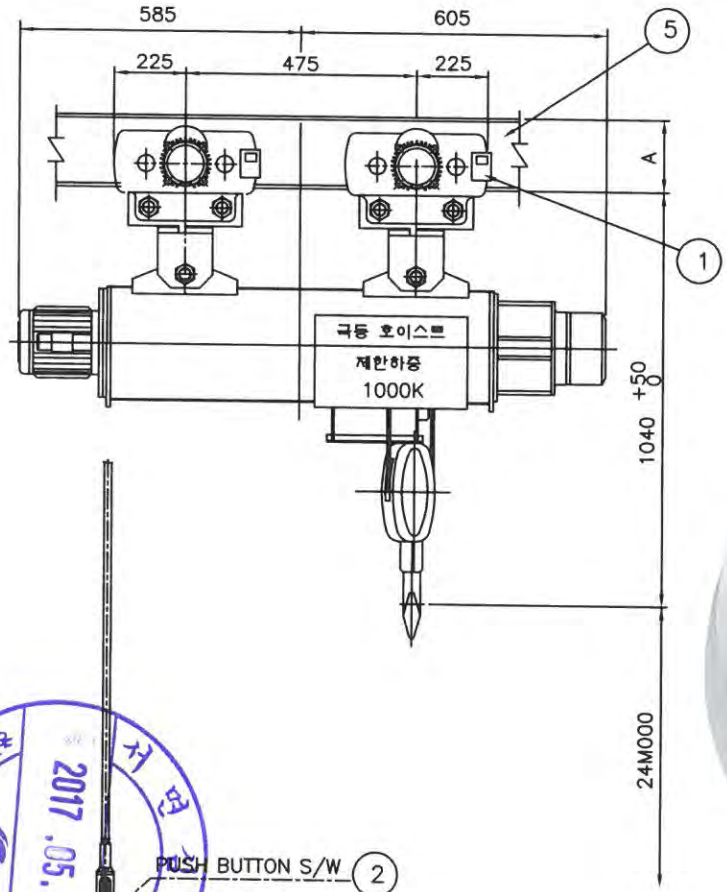
PROJECT		DATE	DIM
			mm
TITLE	KD1 - L24 - M ARRANGEMENT DRAWING FOR HOIST	SCALE	PROJECTION
		A3/20	3rd
DRAWN	DESIGNED / CHECKED / APPROVED	REP. DRAWING	

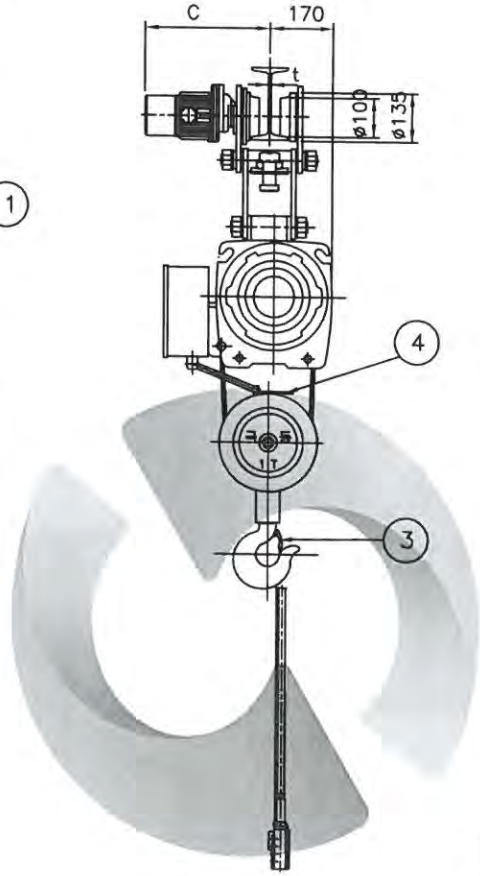
극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET No.

DWG No. KD1M - 2400

자료제공 및 배포금지





SPECIFICATION			
RATED LOAD			1 TON
TESTING LOAD			1.25 TON
LIFT			24 M
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8P
TRAVERS-ING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P (2UNITS)
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P (2UNITS)
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10B3/5
MIN.RADIUS FOR CURVE			R1500mm
GROSS WEIGHT			300 KG

형식번호 : KD1-M

NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
5	J-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	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	115	MAX. 11.0M	420

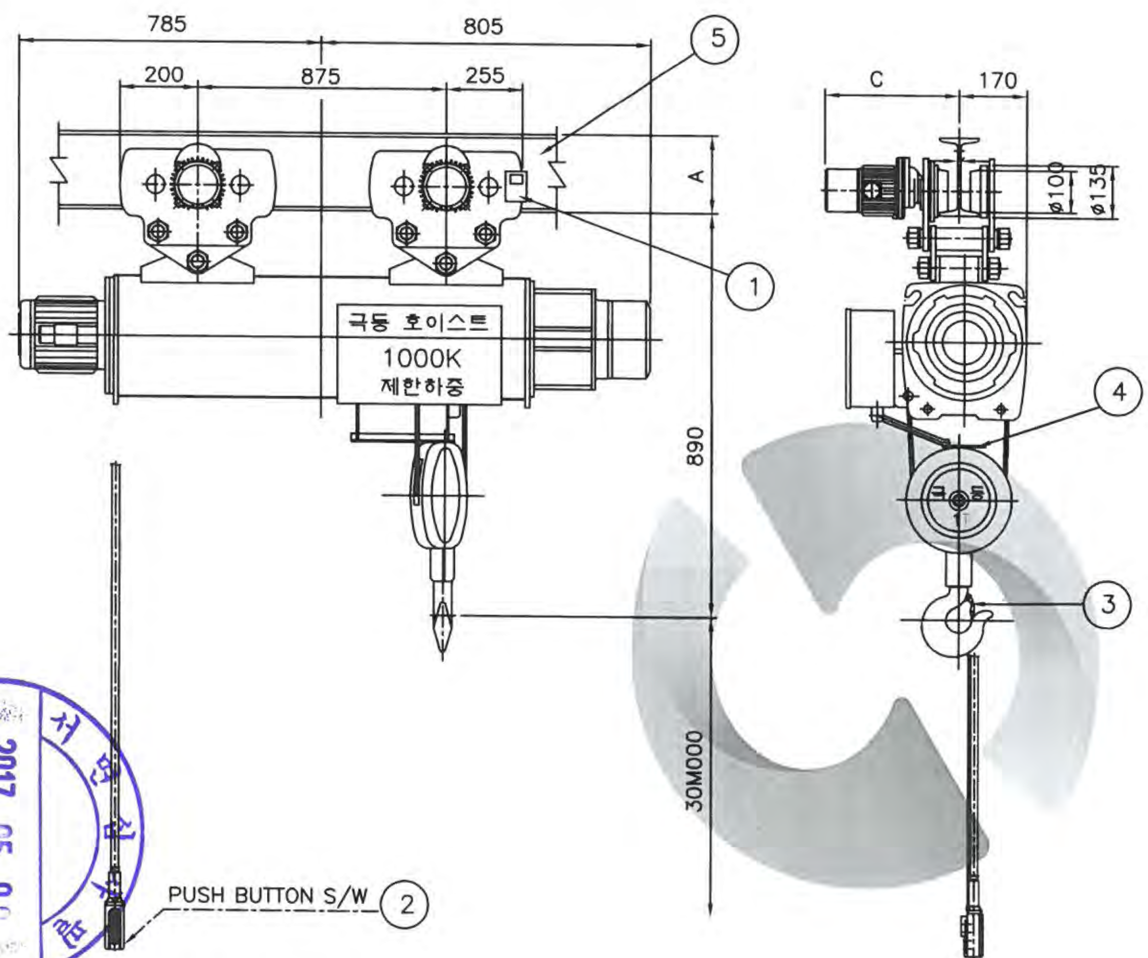
PROJECT		DATE
		20
TITLE	KD1-L24-M-H	SCALE
		A3/20

DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET NO.	DRAWING NO.
	KD1M1800H

무단 복제 및 배포 금지



SPECIFICATION			
HOISTING LOAD			1000 KG
TESTING LOAD			1250 KG
LIFT			30 M
RATING			30 MIN
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4 P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8 P
TRAVERSING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10 B 3/5
WEIGHT			320 KG

불법복제 및 배포금지

형식번호 : KD1−M

TRAVERSING I − BEAM A x B x t	Ix (Cm⁴)	Zx (Cm³)	SUPPORT LENGTH	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	1200	MAX. 11.0M	420

NO.	DESCRIPTION	MT'L	QT'Y SUB	QT'Y TOTAL	WEIGHT(Kg) SUB	WEIGHT(Kg) TOTAL	REMARKS.
5	I−BEAM	SS400		−			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SPC		1			
2	PENDANT S/W	−		1			
1	LOAD LIMITER	−		1			

PROJECT				DATE	DIM mm
TITLE	KD1 − L30 − M ARRANGEMENT DRAWING FOR HOIST			SCALE A3/20	PROJECTION 3rd
DRAWN	DESIGNED	CHECKED	APPROVED	REP. DRAWING	
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET No.	DWG No. KD1M − 3000	

서 면 심 사 필
2017 .05. 0
한국승강기안전공단

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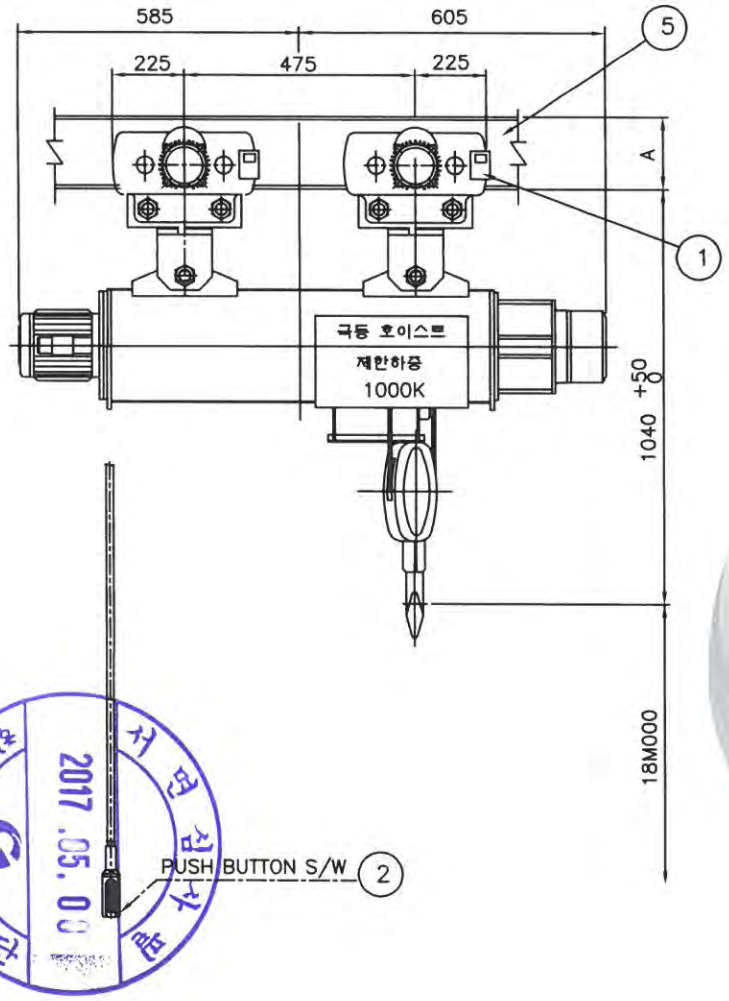
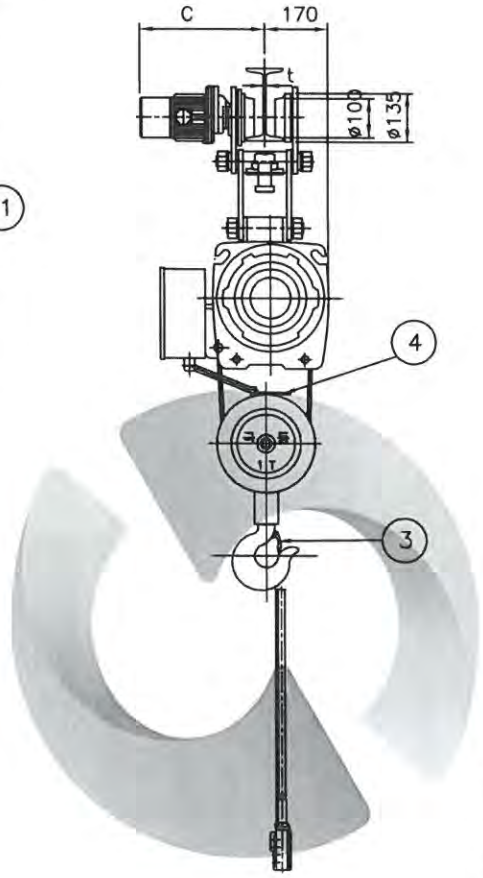
46/266





SPECIFICATION			
RATED LOAD			1 TON
TESTING LOAD			1.25 TON
LIFT			30 M
HOISTING	HIGH	SPEED	12 M/MIN
		MOTOR	2.4 KW x 4P
	LOW	SPEED	6 M/MIN
		MOTOR	1.2 KW x 8P
TRAVERS-ING	HIGH	SPEED	24 M/MIN
		MOTOR	0.4 KW x 4 P (2UNITS)
	LOW	SPEED	16 M/MIN
		MOTOR	0.2 KW x 6 P (2UNITS)
WIRE ROPE			(6X36) ø8 x 2 FALLS Stainless (7X19) ø8 x 2 FALLS
POWER SOURCE			AC3ø 220V(380,440,460,480)60HZ
COLOR			10B3/5
MIN.RADIUS FOR CURVE			R1500mm
GROSS WEIGHT			320 KG

형식번호 : KD1-M

NO.	DESCRIPTIONS	MT'L	SET QT'Y	SET	UNIT WEIGHT KG.	TOTAL	REAMERKS
5	J-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	C
I 200 x 100 x 7	2170	218	MAX. 4.0M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.2M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.6M	420
I 350 x 150 x 9	15200	870	MAX. 9.9M	420
I 400 x 150 x 10	24100	115	MAX. 11.0M	420

PROJECT		DATE
		20
TITLE	KD1-L30-M-H	SCALE
		A3/20 /

DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

SHEET NO.	DRAWING NO.
	KD1M1800H

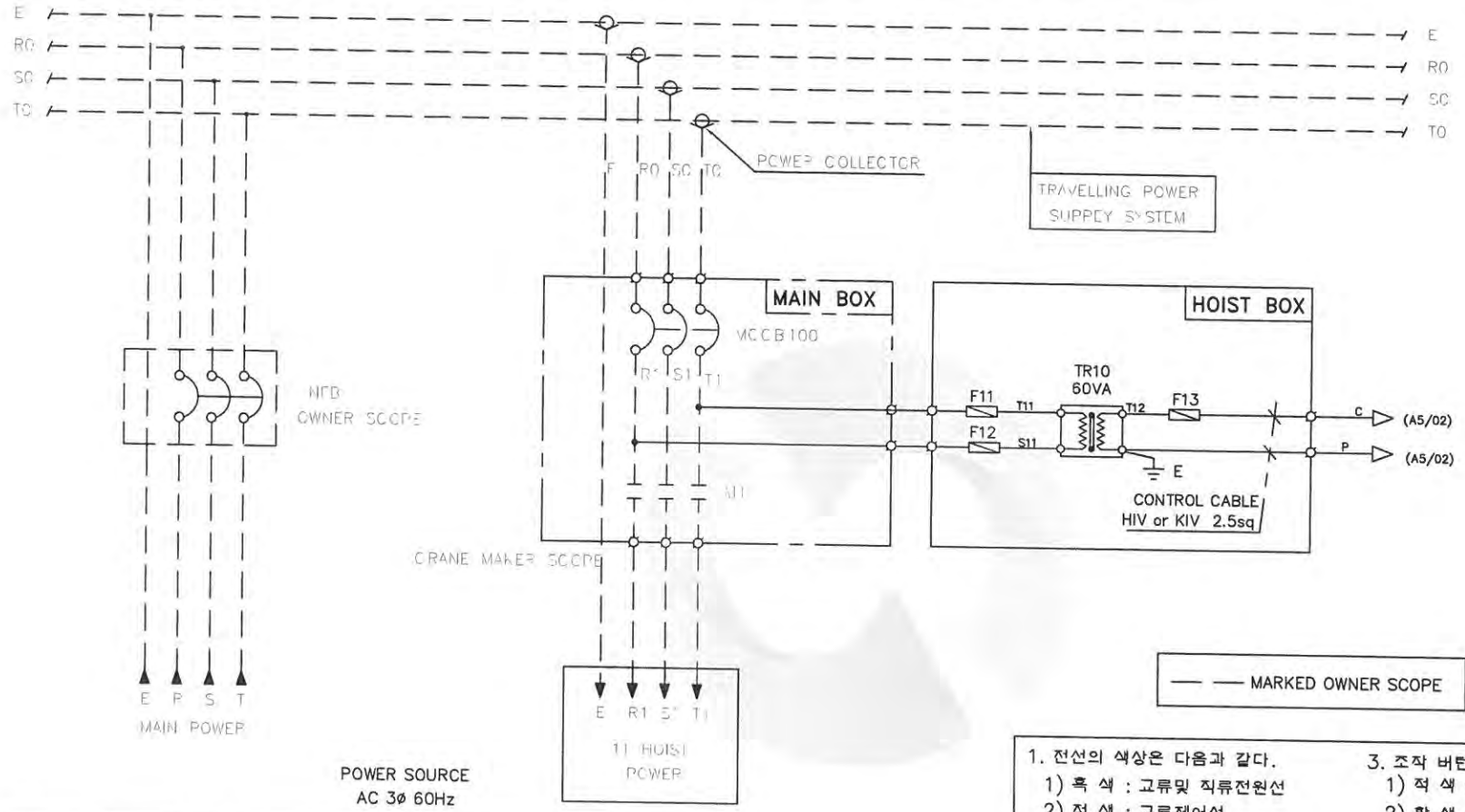
저작권법에 의한 보호를 받는 자료로 무단복제 및 배포금지

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

POWER CIRCUIT

TRAVELLING POWER SUPPLY SYSTEM

ADR'S NO. A1



POWER SOURCE
AC 3ø 60Hz

VOLTAGE	F11 F12	F13	TR10	MCCB100		
				HIGH(2.4kwx4P)	LOW(1.2kwx8P)	P,S TYPE
220V	1A	2A	220/110,120 60VA	33AF/20AT	33AF/15AT	33AF/20(15)AT
380V	1A	2A	380/110,120 60VA	33AF/15AT	33AF/10AT	33AF/10AT
440V	1A	2A	440/110,120 60VA	33AF/15AT	33AF/10AT	33AF/10AT
460V	1A	2A	460/110,120 60VA	33AF/15AT	33AF/10AT	33AF/10AT
480V	1A	2A	480/110,120 60VA	33AF/15AT	33AF/10AT	33AF/10AT

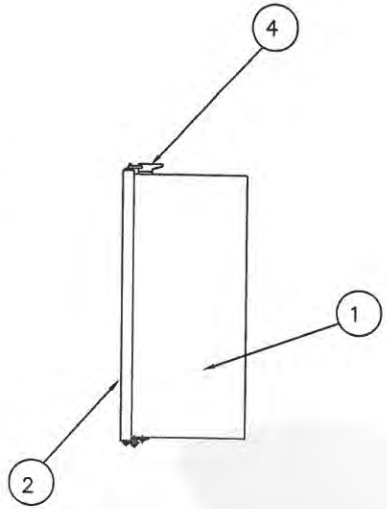
1. 전선의 색상은 다음과 같다.
   1) 흑 색 : 교류및 직류전원선
   2) 적 색 : 교류제어선
   3) 청 색 : 직류제어선
   4) 녹색 또는 녹색과 황색 혼용 : 접지
2. 표시등의 색상은 다음과 같다.
   1) 적 색 : 비상
   2) 황 색 : 비정상
   3) 녹 색 : 정상
   4) 청색 : 의무
   5) 흰색 : 중립
3. 조작 버튼의 색상은 다음과 같다.
   1) 적 색 : 비상
   2) 황 색 : 비정상
   3) 청 색 : 의무
   4) 흰색, 회색 또는 흑색 : 지정된 의미없음

불법복제 및 배포금지

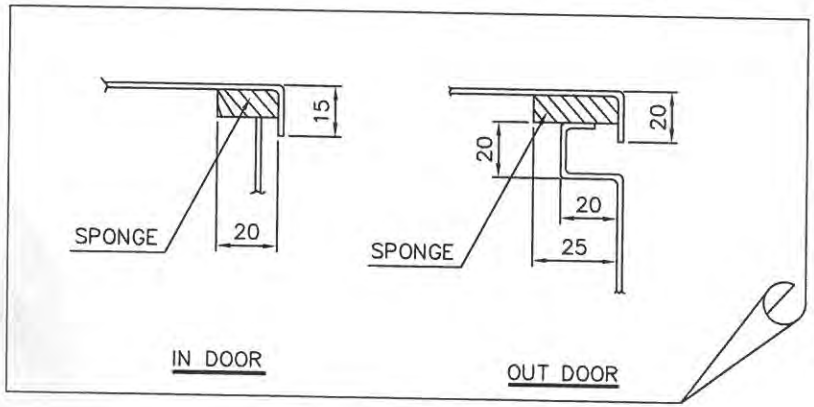
MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				
⚠				

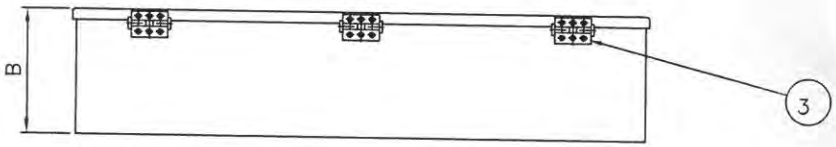
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	MAIN POWER CIRCUIT 1 DIAGRAM					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01E001	

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	
	1 TON	NORMAL	330	150	670	330	150	670	
		CREEP	330	150	670	330	150	670	

N O T E

1.PROTECTION DEGREE ;

A, INDOOR TYPE : DUST PROOF

B, OUT DOOR TYPE : SPLASH PROOF

2.FINAL PAINTING COLOR (MUNSELL NO.)

A. IN SIDE : 10B 3/5

B. OUT SIDE : 10B 3/5

3.PAINTING THICKNESS : ABOVE 40 um

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

5.제어용 전선 : 2.5sq KIV,HIV

6.외함 개방 구조는 다음과 같다.

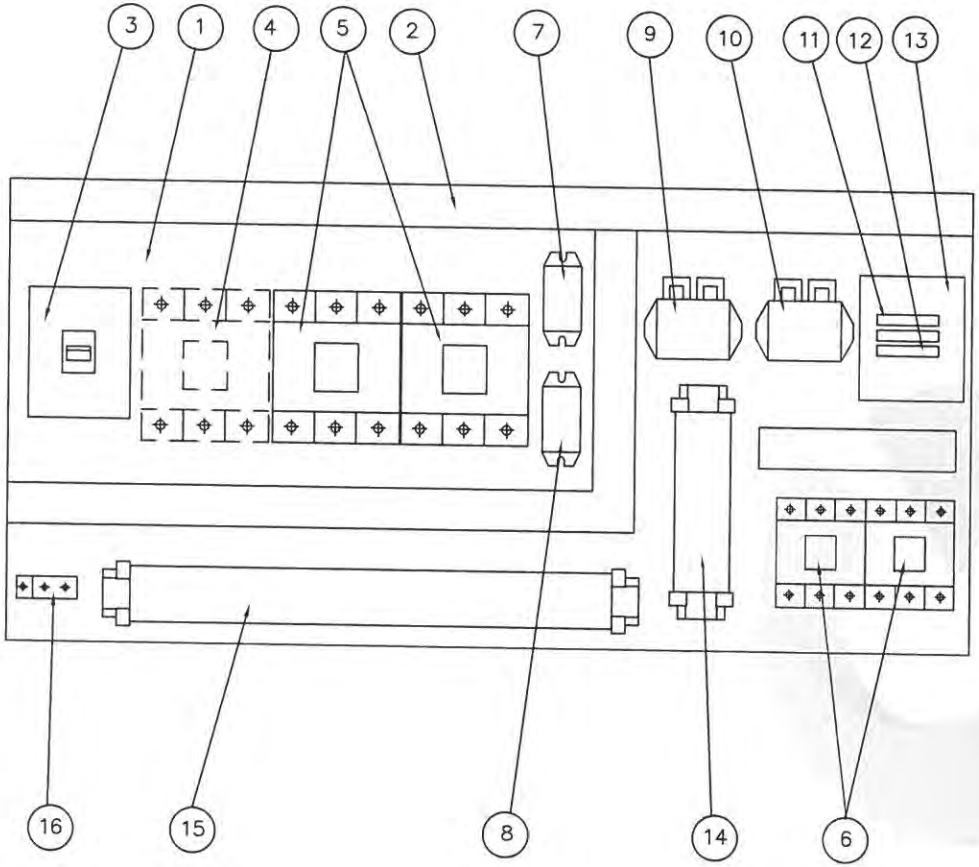
1) 외함 개방시 충전 부분이 차단되도록 한다.

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

불법복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
04				
03				
02				
01				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING CONTROL BOX					NONE		
	LAY-OUT	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01EB00	



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	220V/110,120V/60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE 1. 전선의 색상은 다음과 같다.

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

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

무단복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.

CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (고속) ARRANGEMENT DRAWING

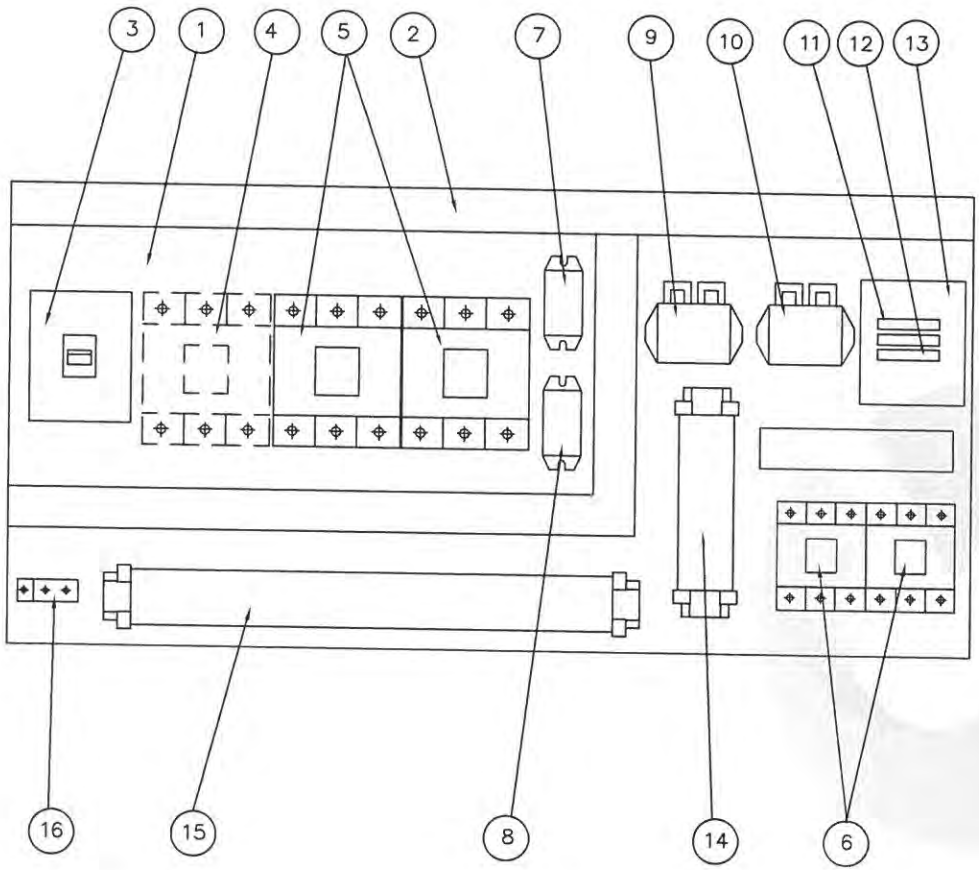
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD01BA21

ADR'S NO.

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/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR–30	1	HOISTING
8	SILICON RECTIFIER	SR–30	1	TRAVERSING
9	E.O.C.R	SS–30	1	HOISTING
10	E.O.C.R	SS–05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	220V/110,120V/ 60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

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

불법복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

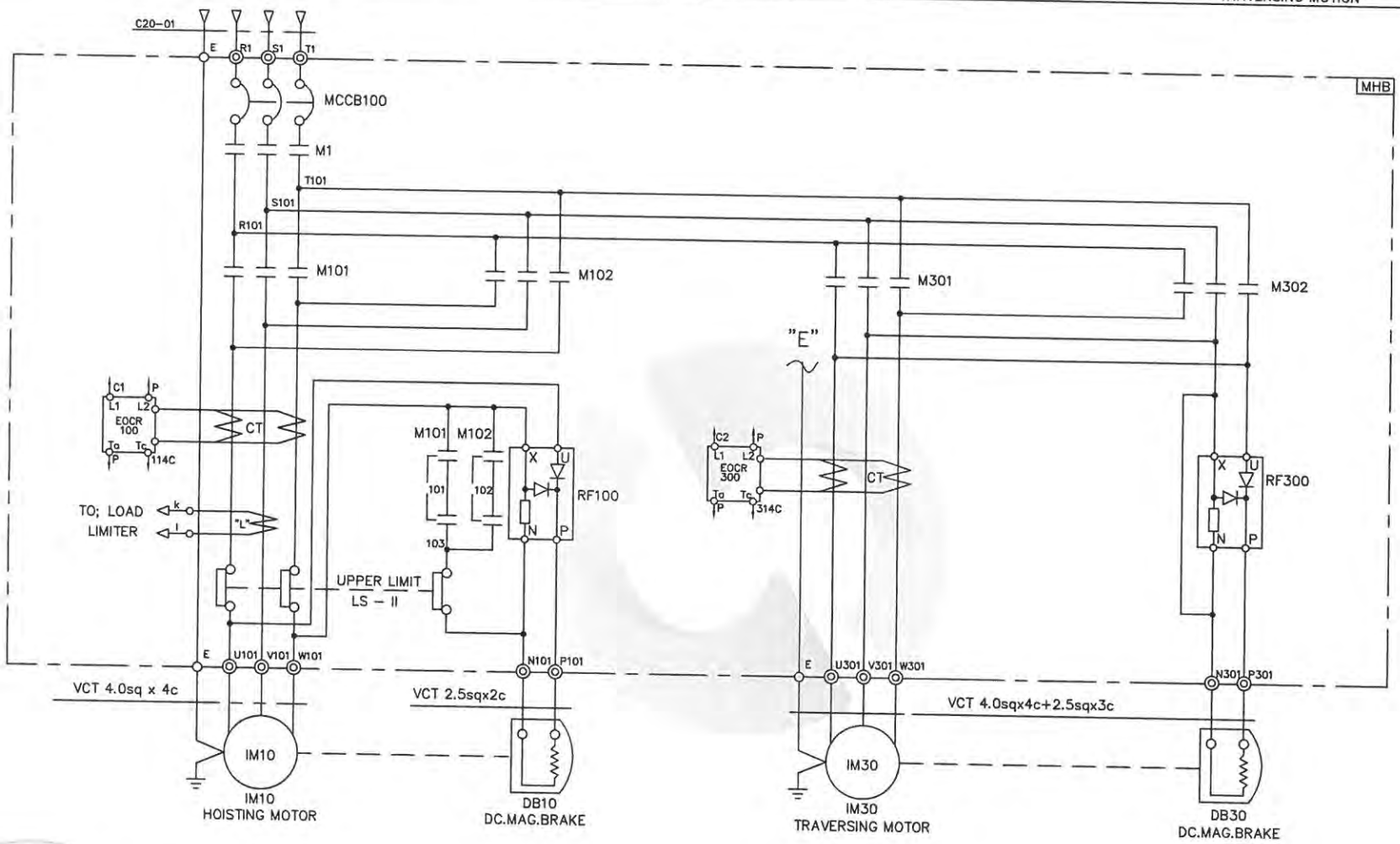
CUSTOMER

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: KD01BA22



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
	1TON AC 3PH 220V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/20AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 220V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/15AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	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		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD01E21

93/266

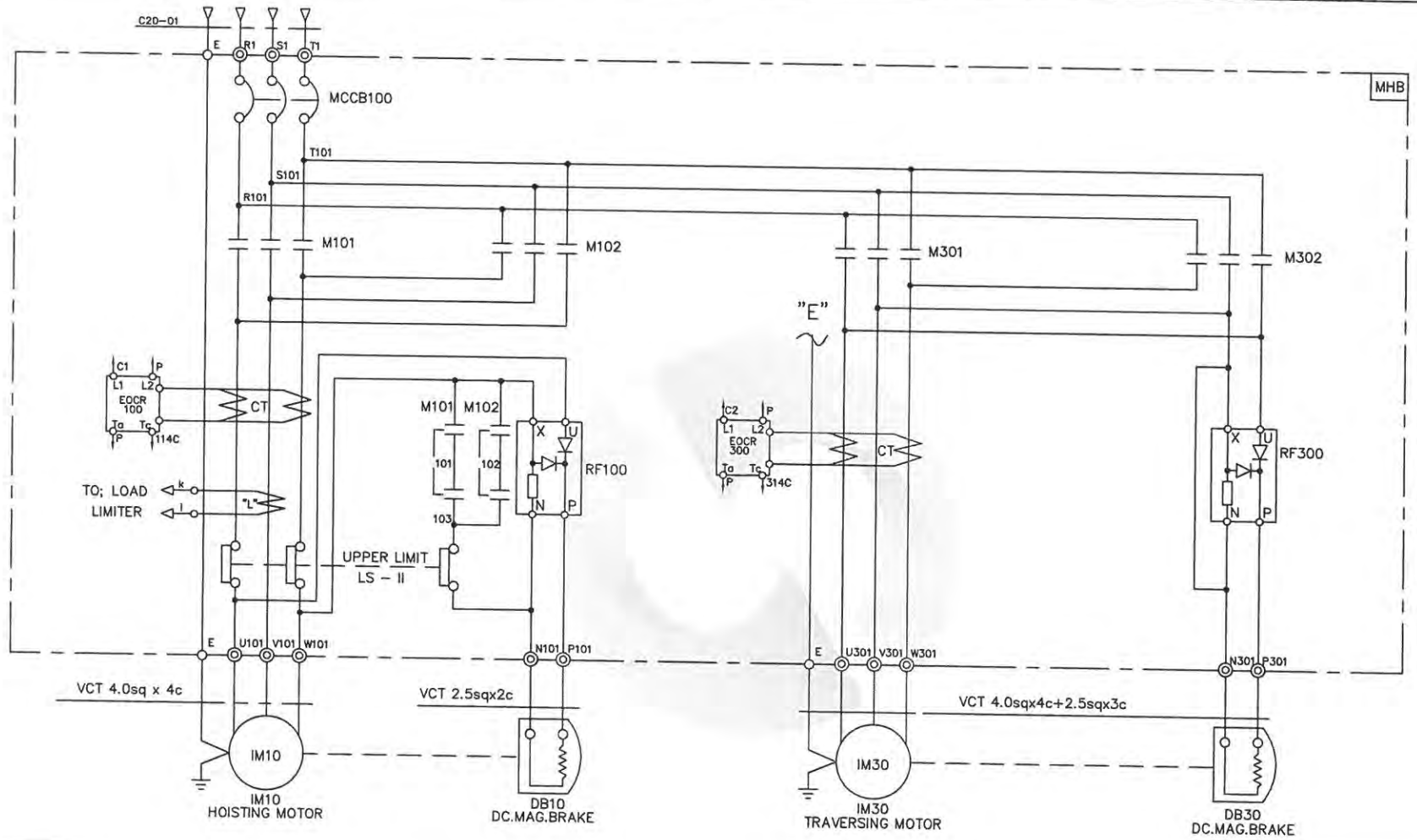
본 도면의 무단 복제를 금지합니다.

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

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
	1TON AC 3PH 220V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/20AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 220V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/15AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A		KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

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

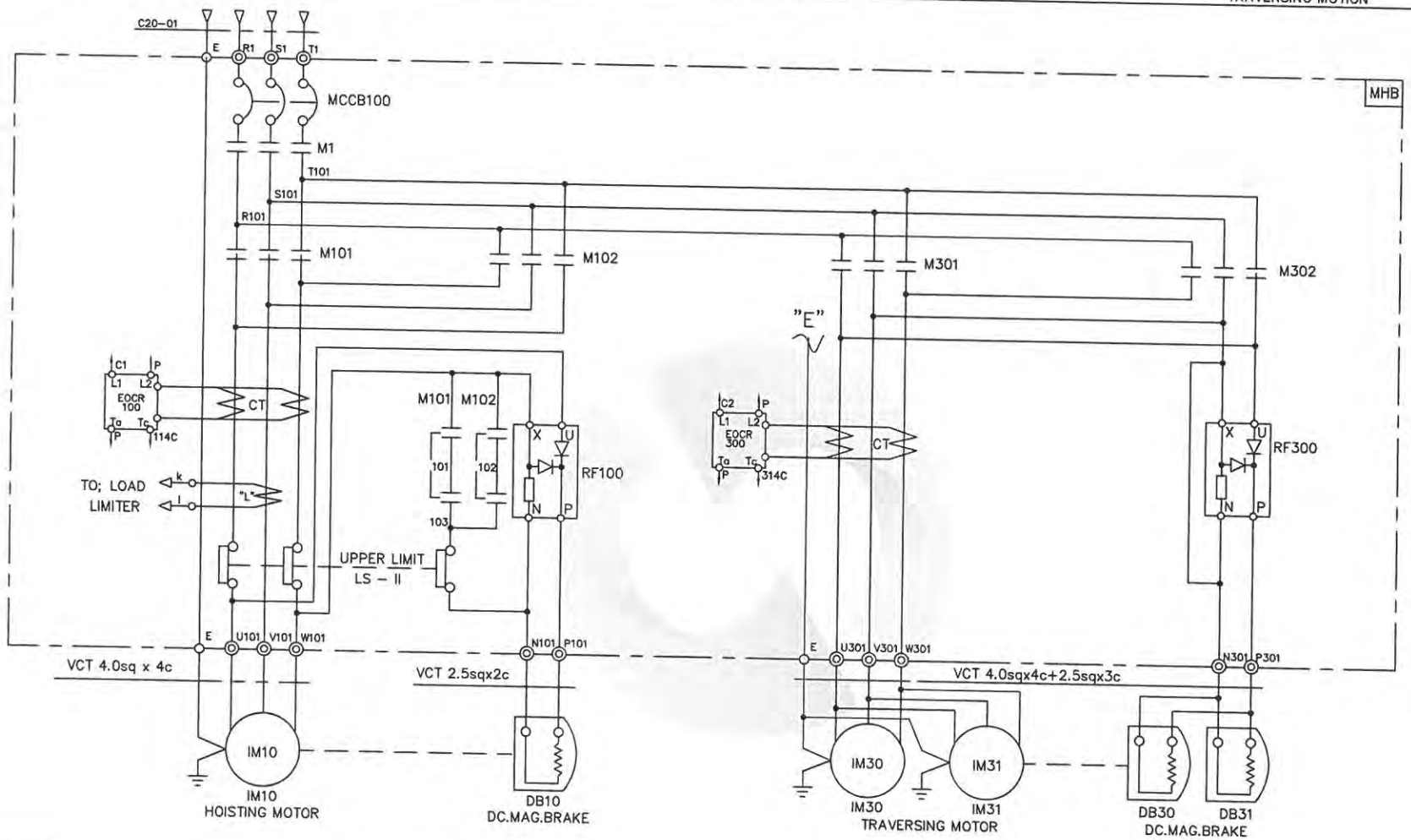
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD01E22

본 도면의 무단 배포 금지

94756

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.
HOISTING MOTION											TRAVERSING MOTION								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
	1TON AC 3PH 220V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/20AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 220V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/15AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
3				
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1				

CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

NONE

DWG. NO: KD01E23

95/266

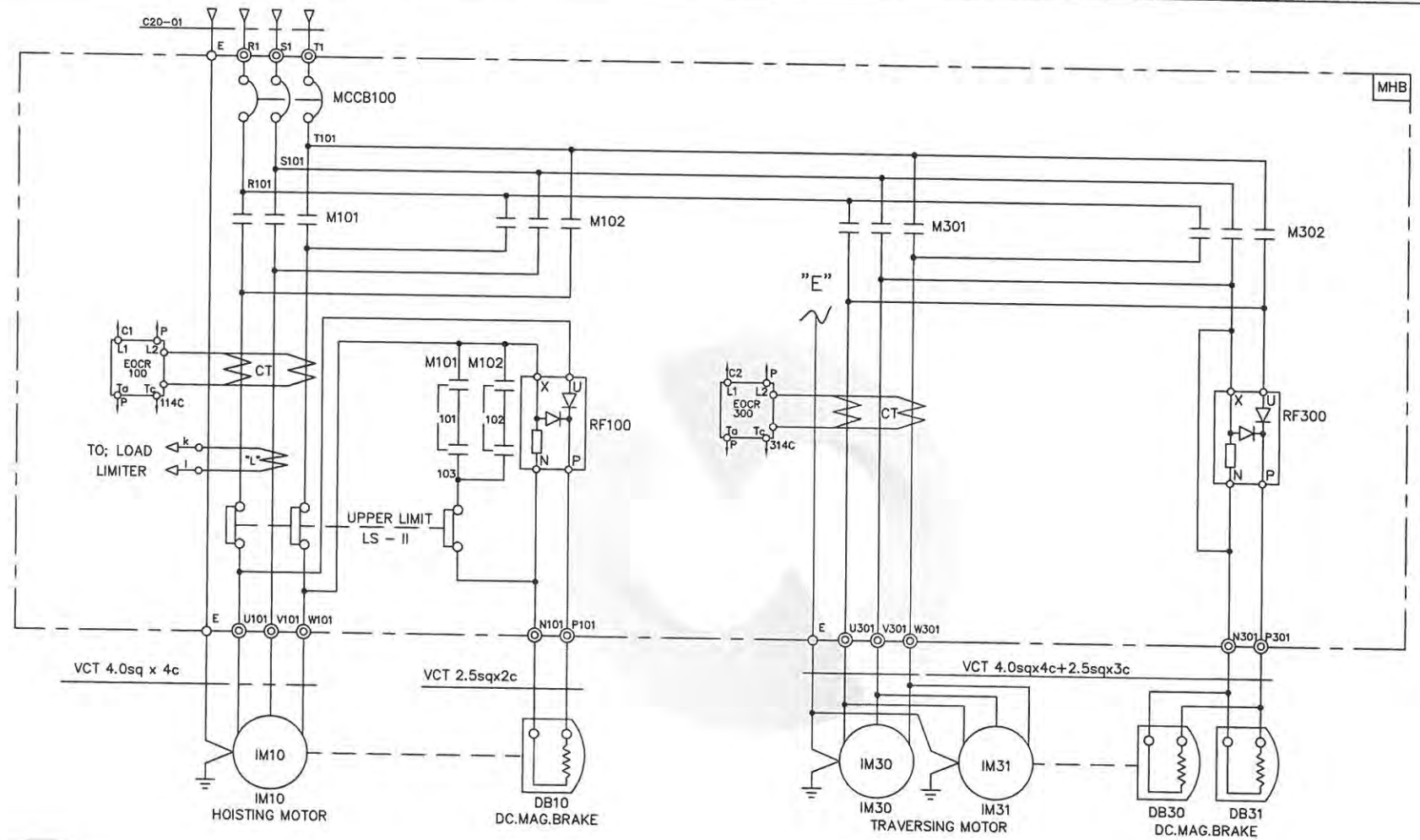
도면의 저작권 및 배포금지

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

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
	1TON AC 3PH 220V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/20AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 220V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/15AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	–		DONG-A		KUKDONG	ASAN				JUNGHO	DONGIL

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

CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

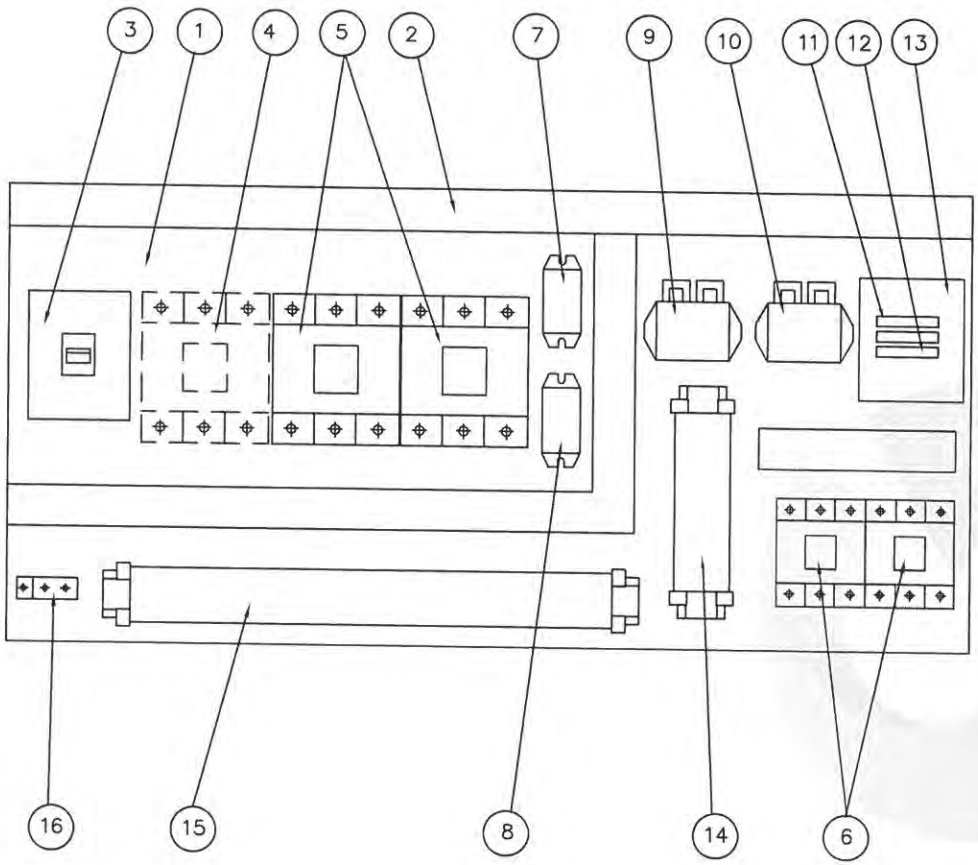
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD01E24

본 도면의 저작권은 당사에 있으며 무단 복제 및 배포를 금합니다.

96/2/26



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR–30	1	HOISTING
8	SILICON RECTIFIER	SR–30	1	TRAVERSING
9	E.O.C.R	SS–30	1	HOISTING
10	E.O.C.R	SS–05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	380V/110,120V/60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 고류 및 직류 전원선로
   2) 적색 : 교류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
   5) 청색 : 직류 제어선로
2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
   └ MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
   1) 외함 개방시 충전부분이 차단되도록 할것.
   2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

불법복제 및 배포금지

ADR'S NO.

MK	DATE	REVISIONS	CHK.	APP.

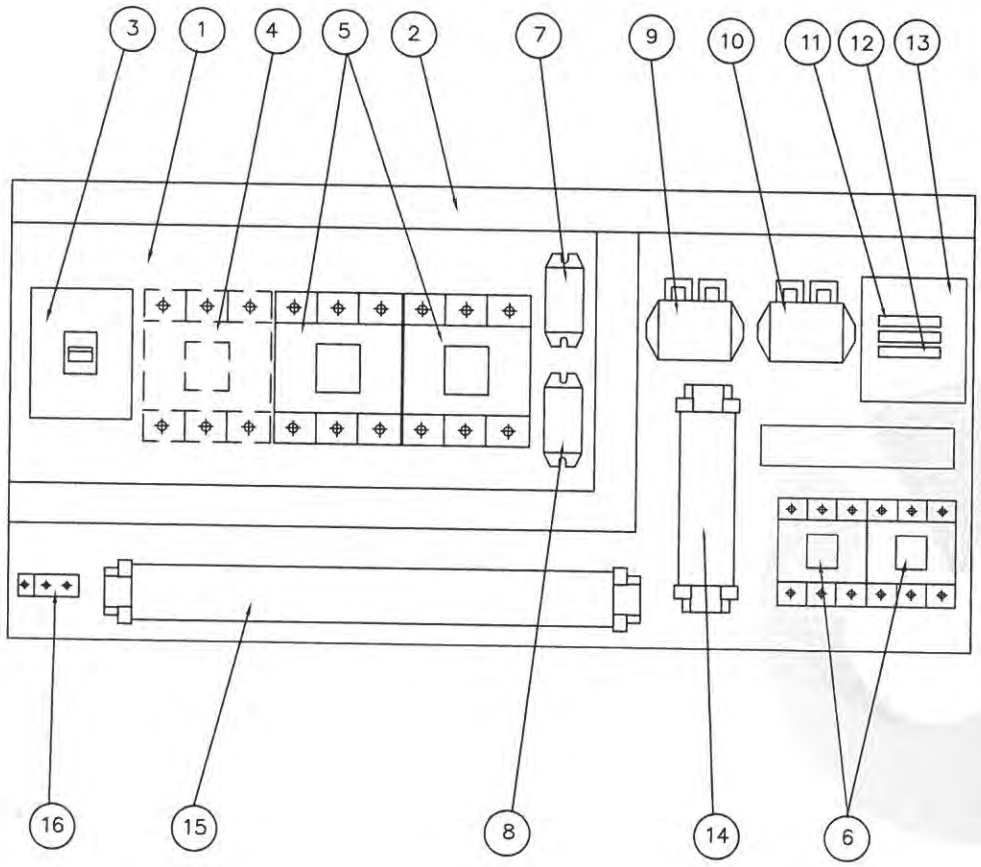
CUSTOMER

DRAWING TITLE: HOIST CONTROL BOX (고속) ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD01BA31



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

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

N O T E
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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

ADR'S NO.

불법복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.

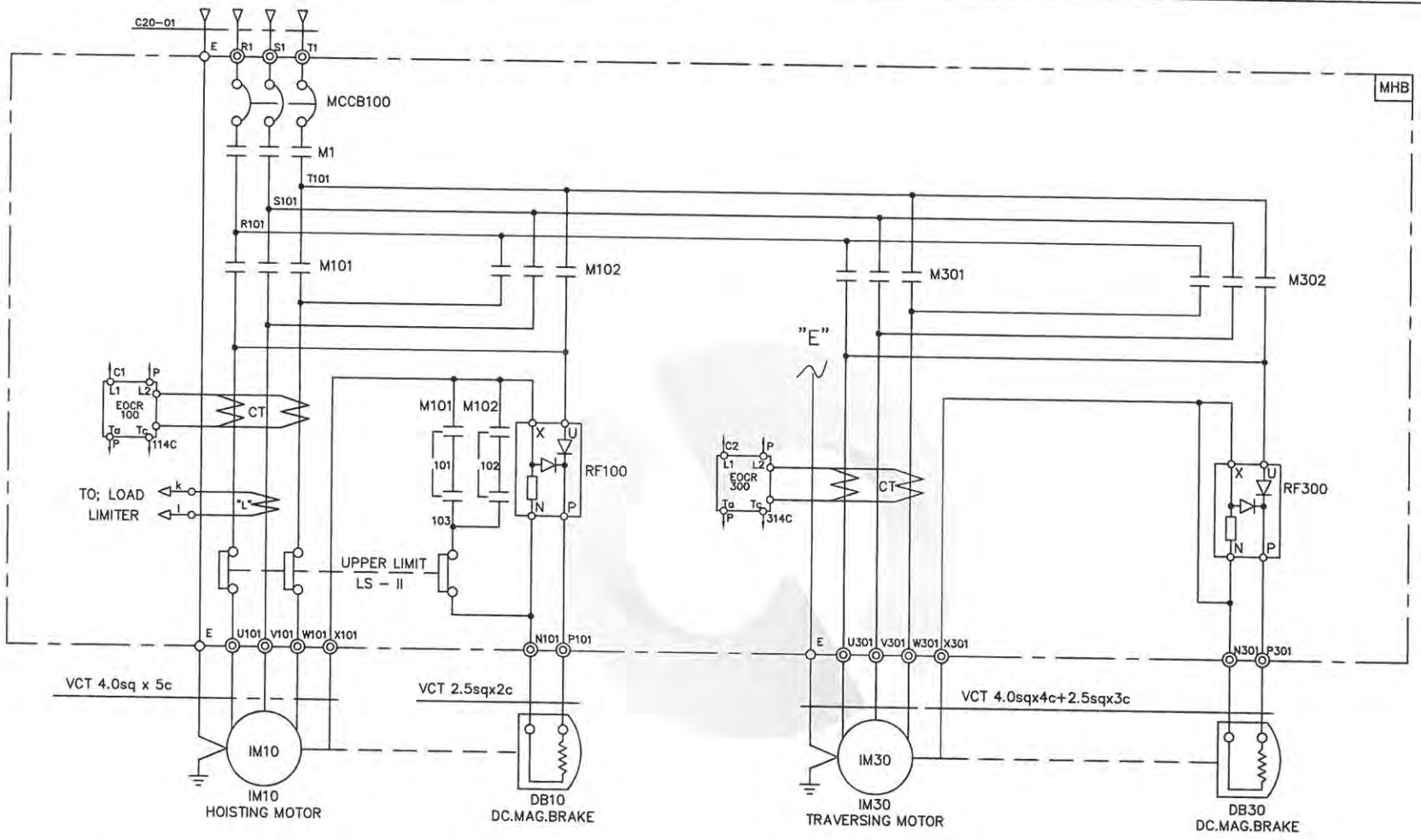
CUSTOMER
DRAWING TITLE: HOIST CONTROL BOX (저속) ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD01BA32

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.
HOISTING MOTION											TRAVERSING MOTION								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	1TON AC 3PH 380V 60Hz	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
	1TON AC 3PH 380V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 380V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	–		DONG-A			KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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⚠1				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM					NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

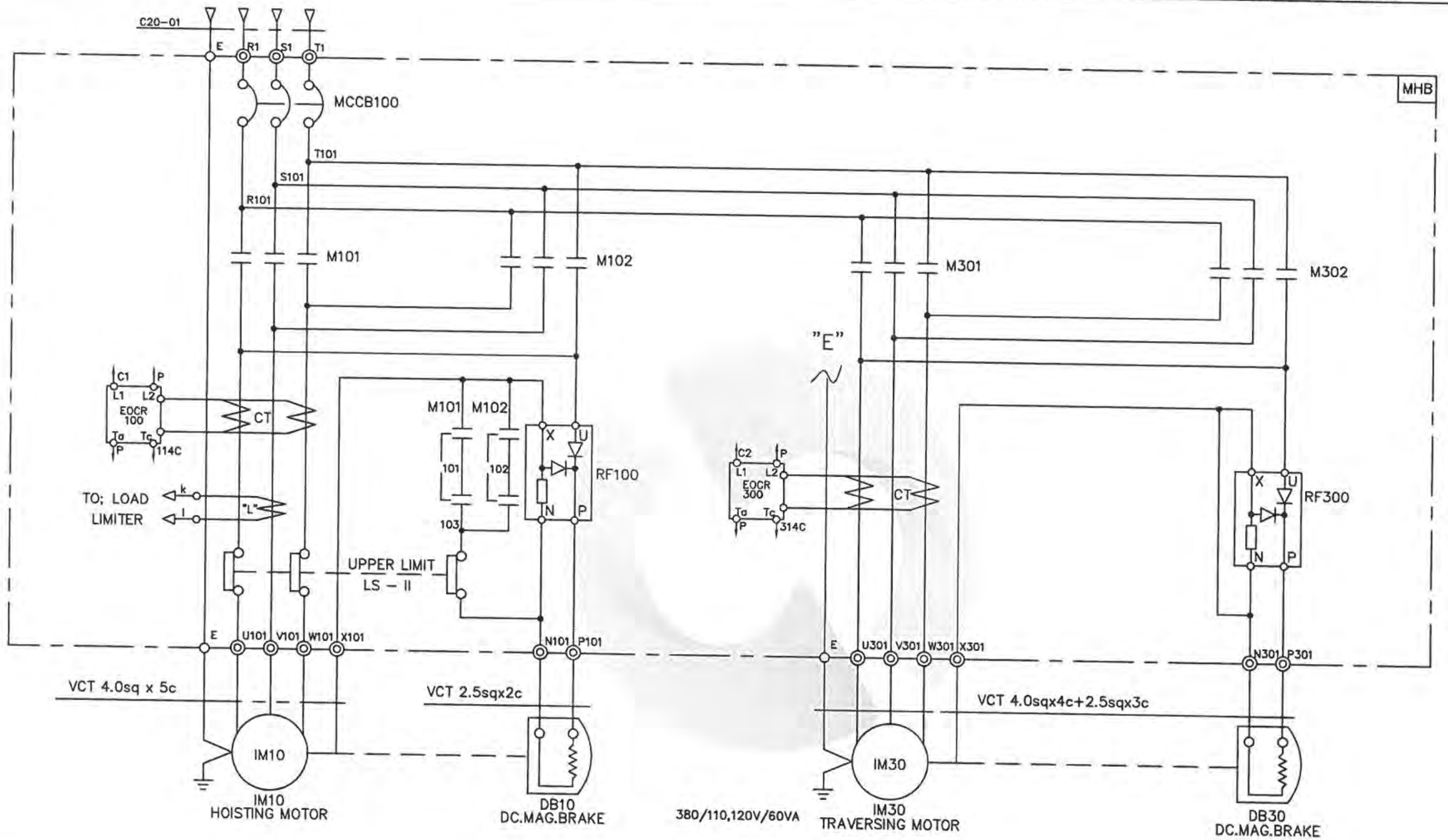
DWG. NO KD01E31

101/266

본 도면의 무단 복제 및 배포를 금지

불법복제 및 배포금지

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.
HOISTING MOTION										TRAVERSING MOTION									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
	1TON AC 3PH 380V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE–33AF/15AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS–30	SS–05	SR–30	SR–30	JDL–100	VFCT 4.0sqx4c
	1TON AC 3PH 380V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE–33AF/10AT	220/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS–30	SS–05	SR–30	SR–30	JDL–100	VFCT 4.0sqx4c
SELECTION MAKER	KUKDONG				LS	SHINHAN	–		DONG–A		KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
					DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM					NONE		
							극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01E32	

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

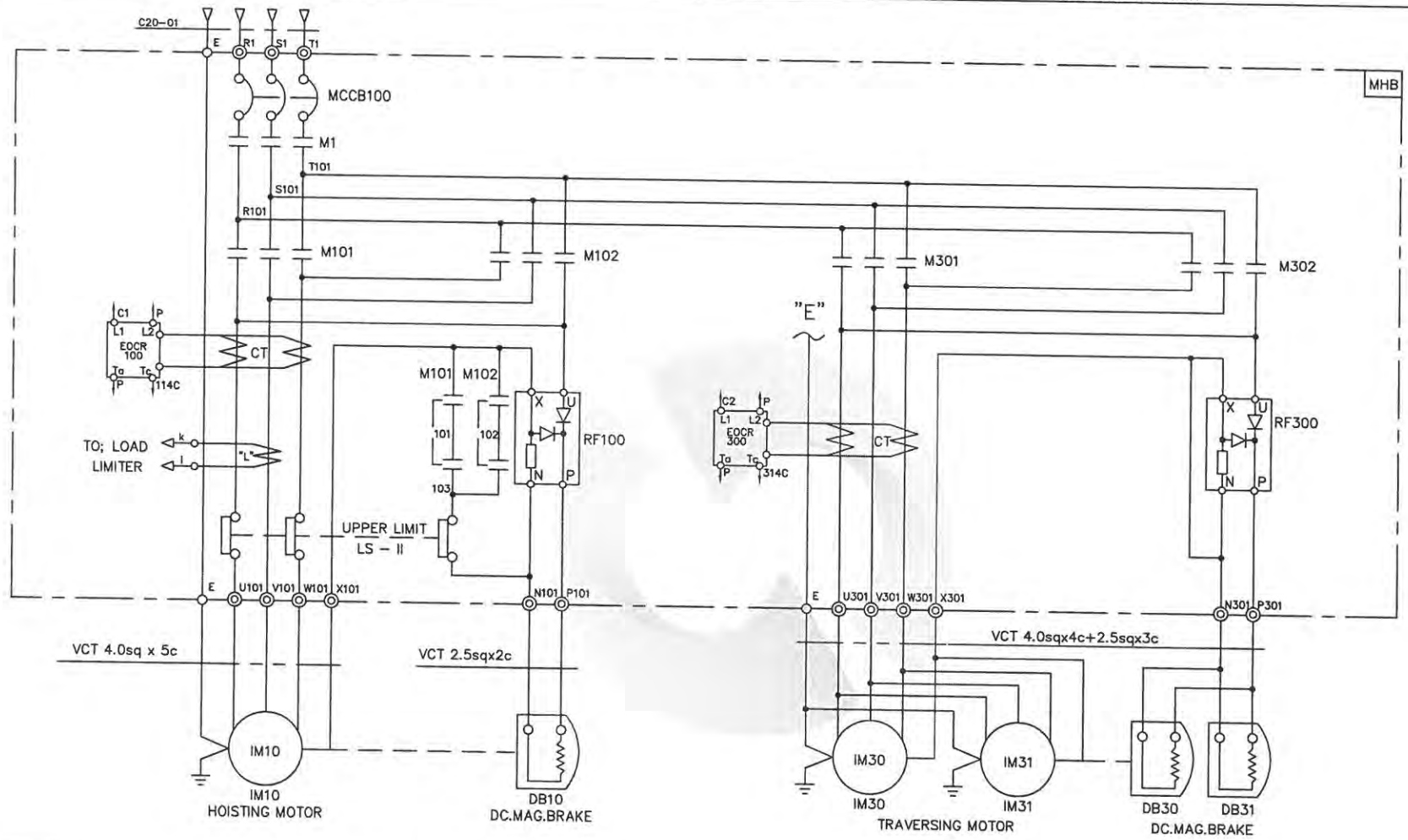
POWER CIRCUIT

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	1TON AC 3PH 380V 60Hz	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
	1TON AC 3PH 380V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	380/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 380V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	380/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	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: KD01E33

103/266

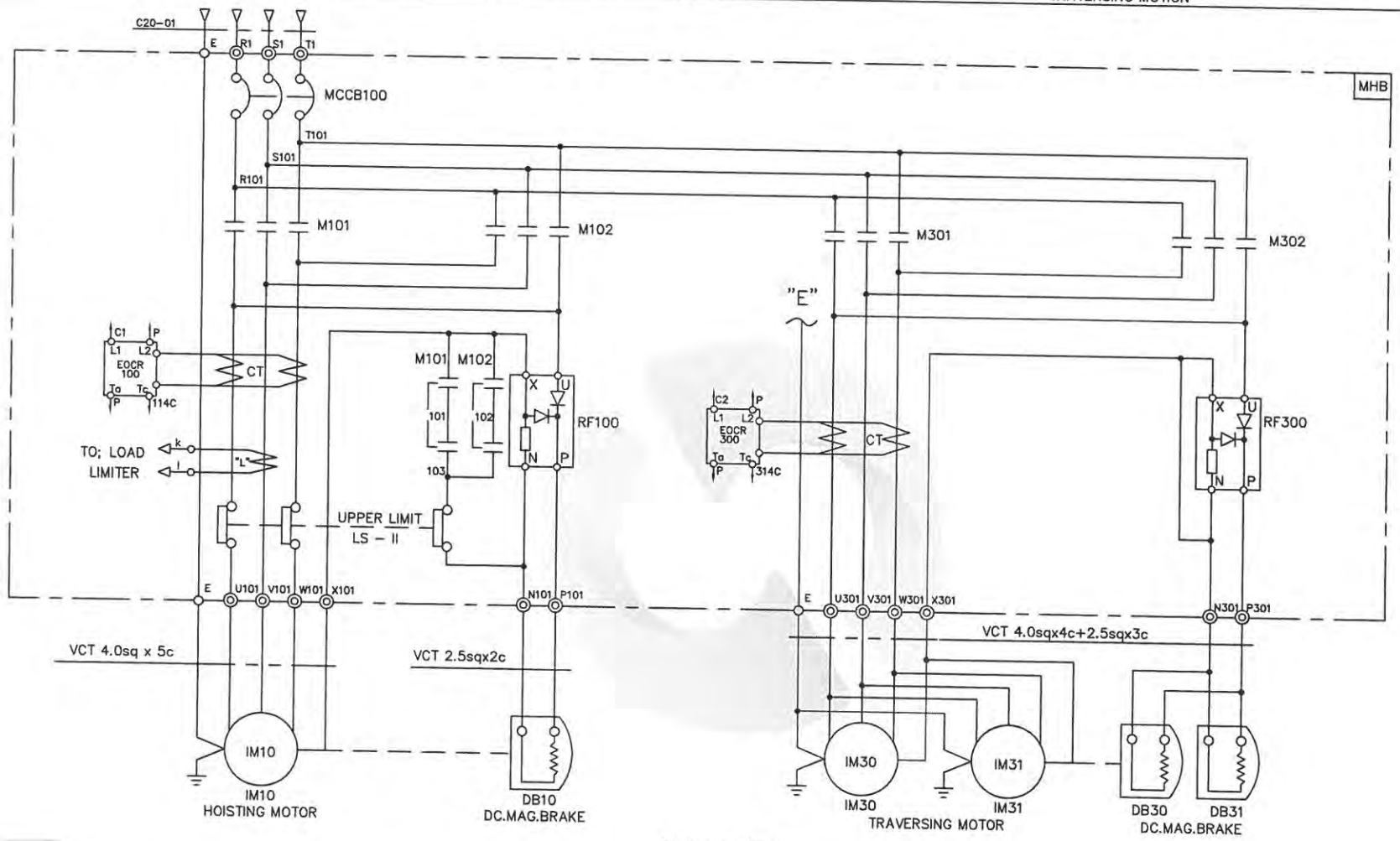
본 문서의 무단 배포 금지

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

POWER CIRCUIT

HOISTING MOTION | TRAVERSING MOTION

ADR'S NO. B1



380/110,120V/60VA

SPECIFICATION / SYMBOLS / DESCRIPTION / SELECTION / MAKER	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
	1TON AC 3PH 380V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	380/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 380V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	380/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	KUKDONG				LS	SHINHAN	-		DONG-A		KUKDONG	ASAN				JUNGHO	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		

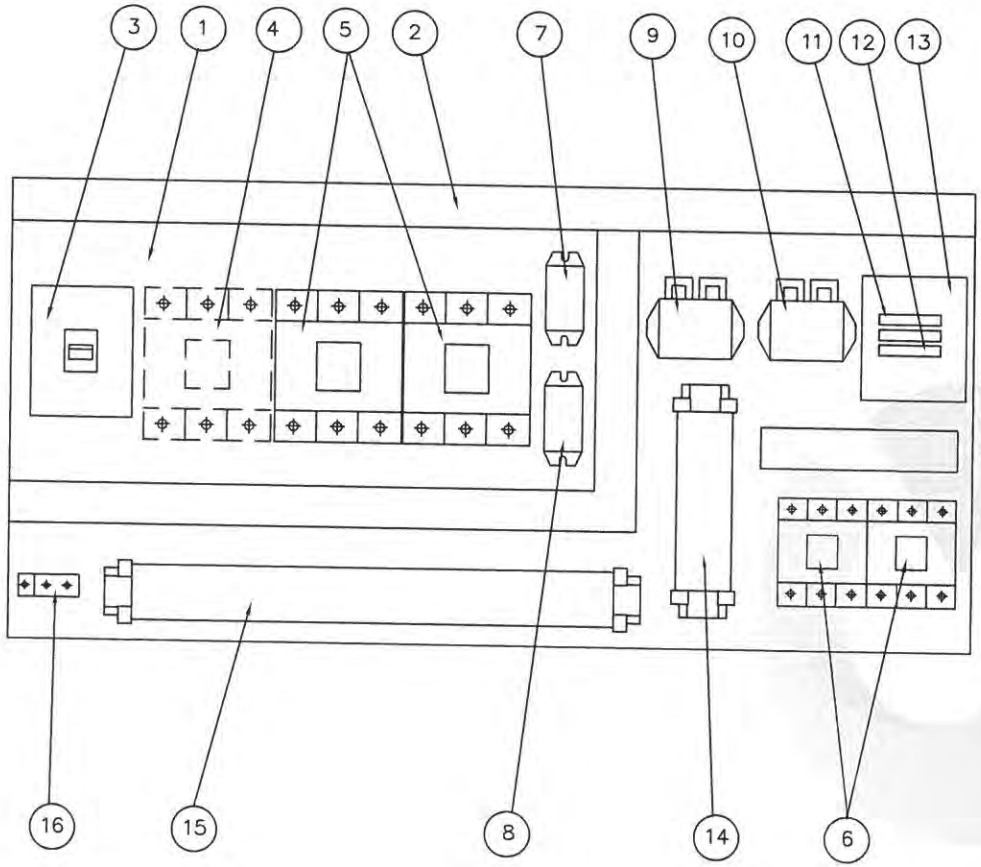
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD01E34

104/266

저작권법에 의해 보호받는 문서입니다.

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/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR–30	1	HOISTING
8	SILICON RECTIFIER	SR–30	1	TRAVERSING
9	E.O.C.R	SS–30	1	HOISTING
10	E.O.C.R	SS–05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	440V/110,120V/60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

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

불법복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
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④				
③				
②				
①				

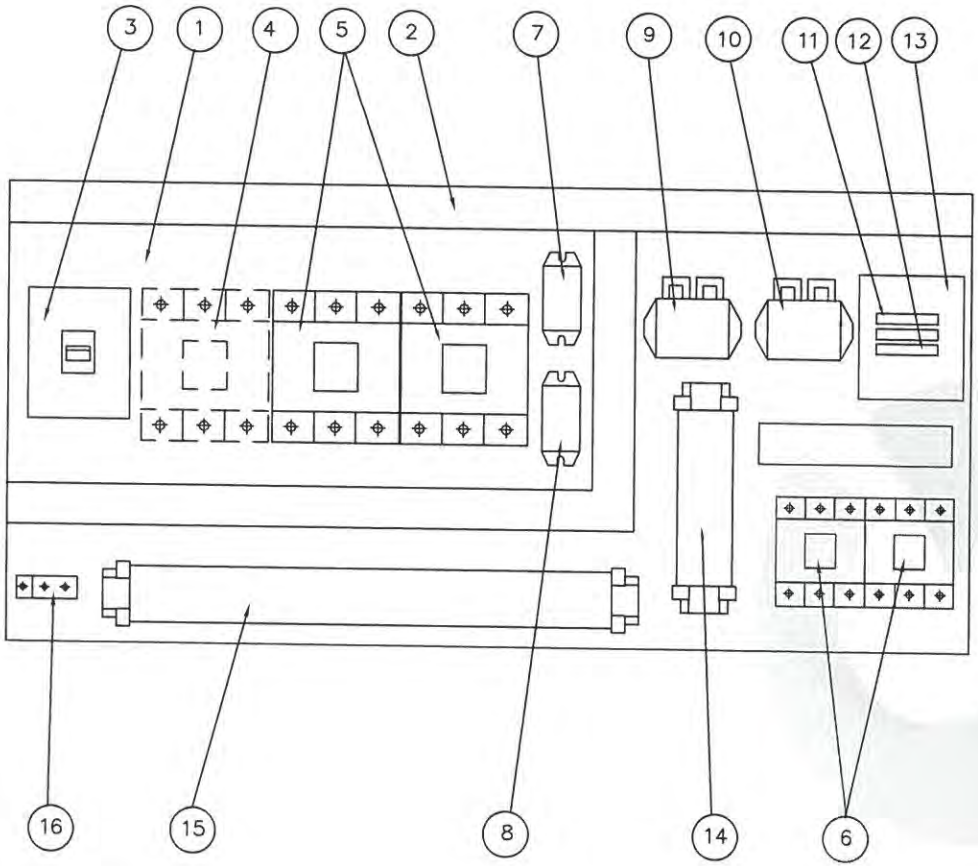
CUSTOMER

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: KD01BA41



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/10AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	440V/110,120V/ 60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 고류 및 직류 전원선로
   2) 적색 : 고류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
   5) 청색 : 직류 제어선로
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
   1) 외함 개방시 충전부분이 차단되도록 할것.
   2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

불법복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOIST CONTROL BOX (저속) ARRANGEMENT DRAWING					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01BA42	

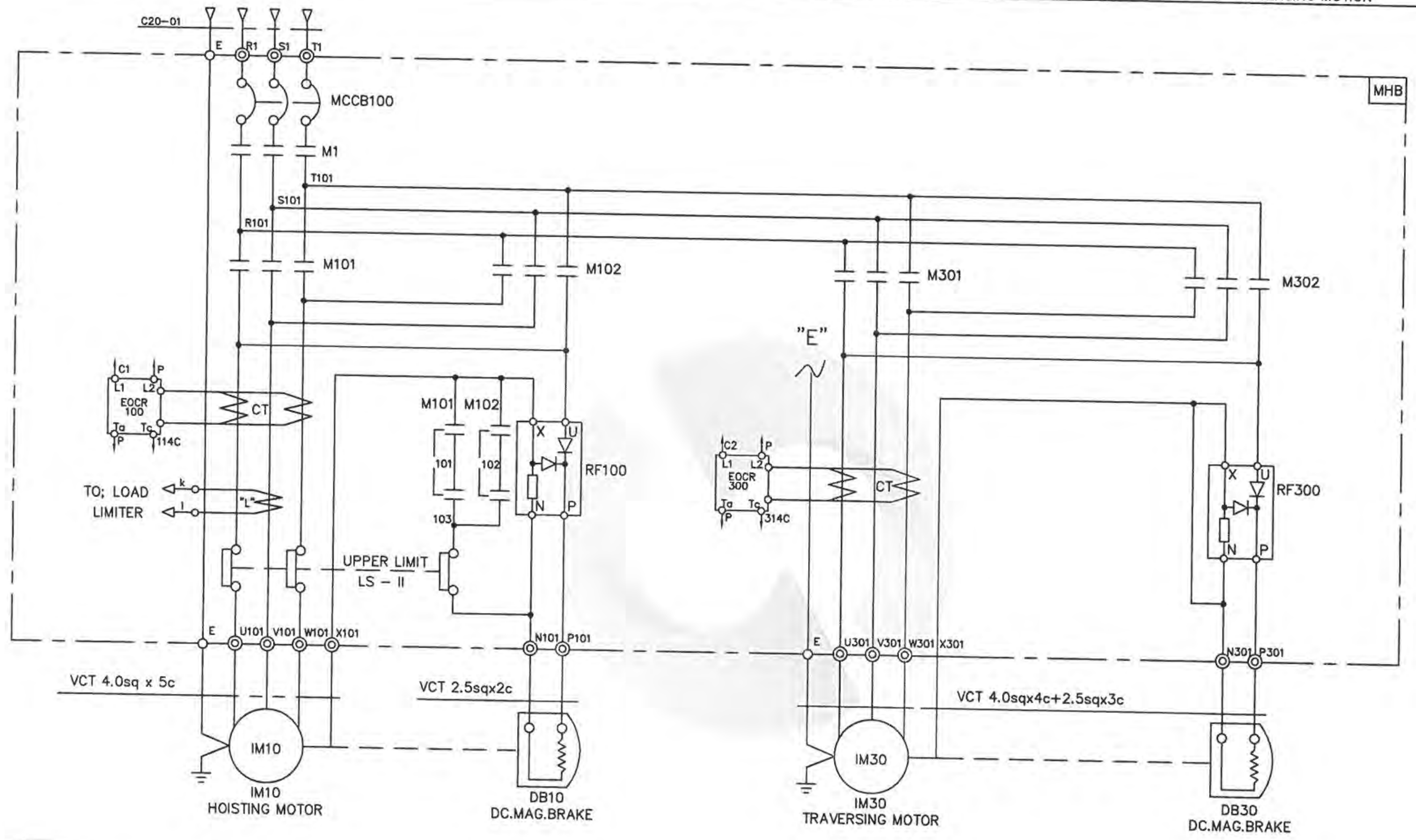
불법복제 및 배포금지

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

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
	1TON AC 3PH 440V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE–33AF/15AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS–30	SS–05	SR–30	SR–30	JDL–100	VFCT 4.0sqx4c
SELECTION	1TON AC 3PH 440V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE–33AF/10AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS–30	SS–05	SR–30	SR–30	JDL–100	VFCT 4.0sqx4c
MAKER		KUKDONG			LS	SHINHAN	–		DONG–A			KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM					NONE		

극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

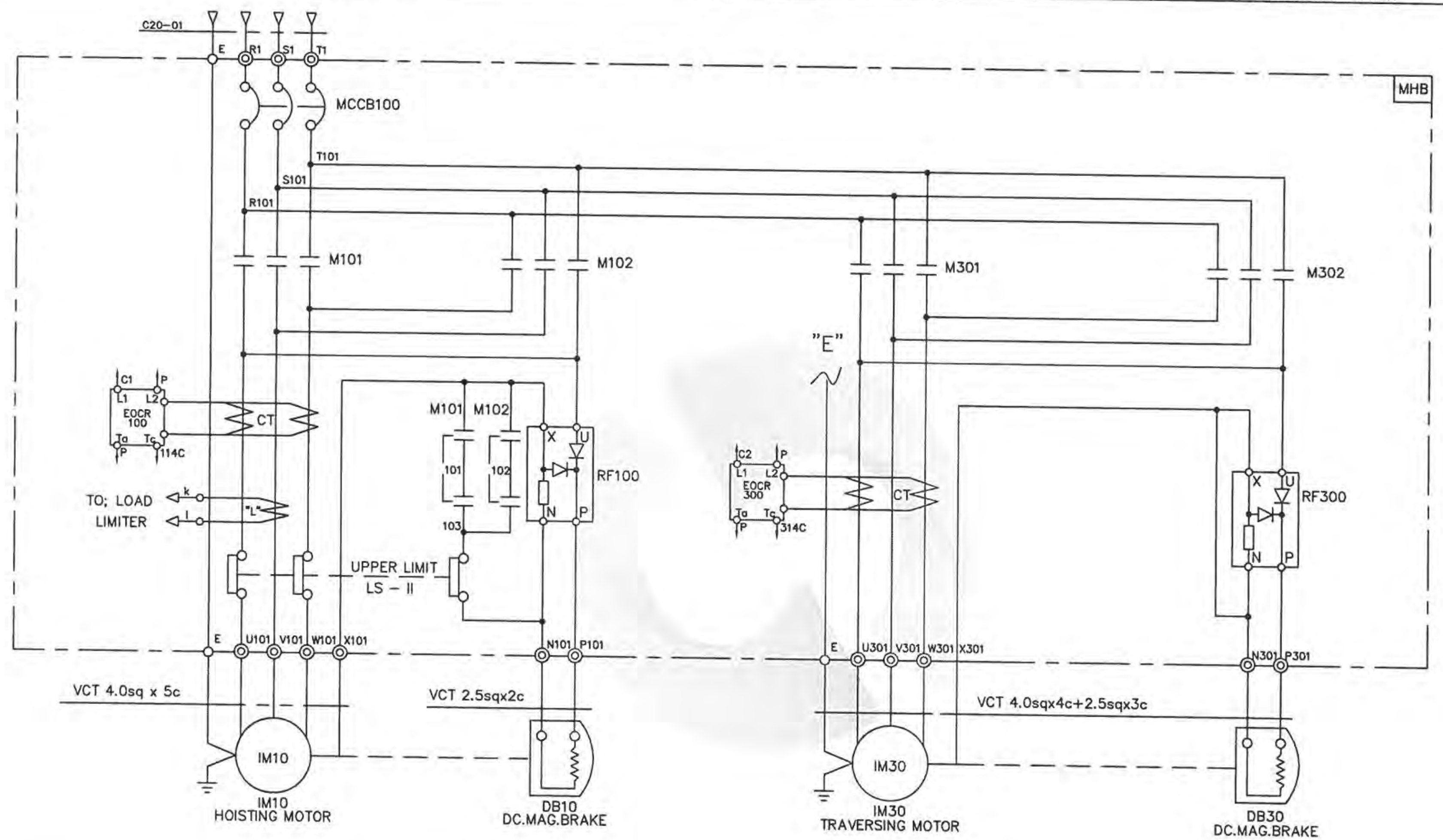
DWG. NO KD01E41

불법복제 및 배포금지

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

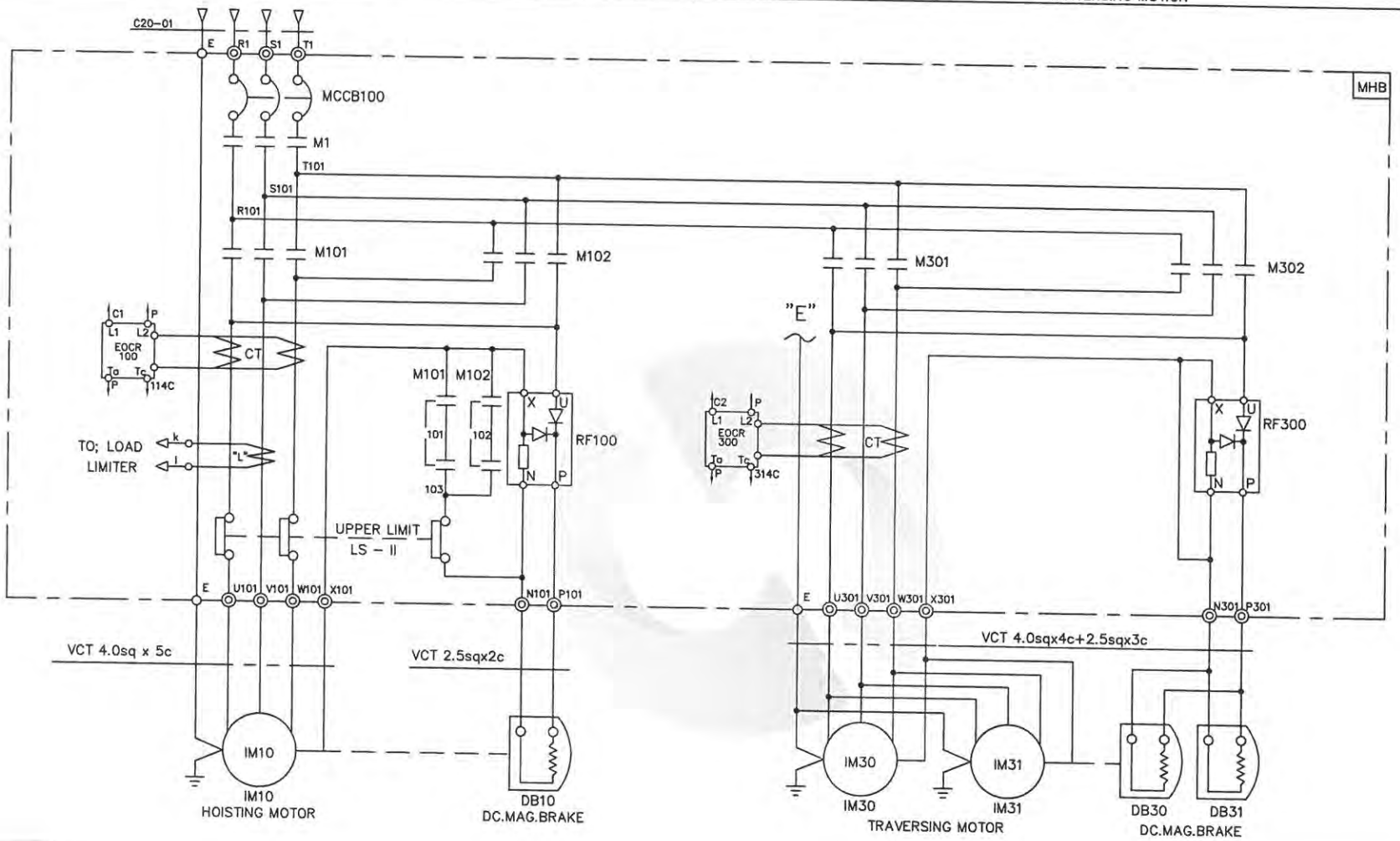
POWER CIRCUIT

HOISTING MOTION — TRAVERSING MOTION — ADR'S NO. B1



SPECIFICATION	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
SYMBOLS / 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
	1TON AC 3PH 440V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE–33AF/15AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS–30	SS–05	SR–30	SR–30	JDL–100	VFCT 4.0sqx4c
SELECTION	1TON AC 3PH 440V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE–33AF/10AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS–30	SS–05	SR–30	SR–30	JDL–100	VFCT 4.0sqx4c
MAKER	KUKDONG				LS	SHINHAN	–		DONG–A		KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
					DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM					NONE		
							극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01E42	



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
	1TON AC 3PH 440V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 440V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION MAKER		KUKDONG			LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	DONGIL

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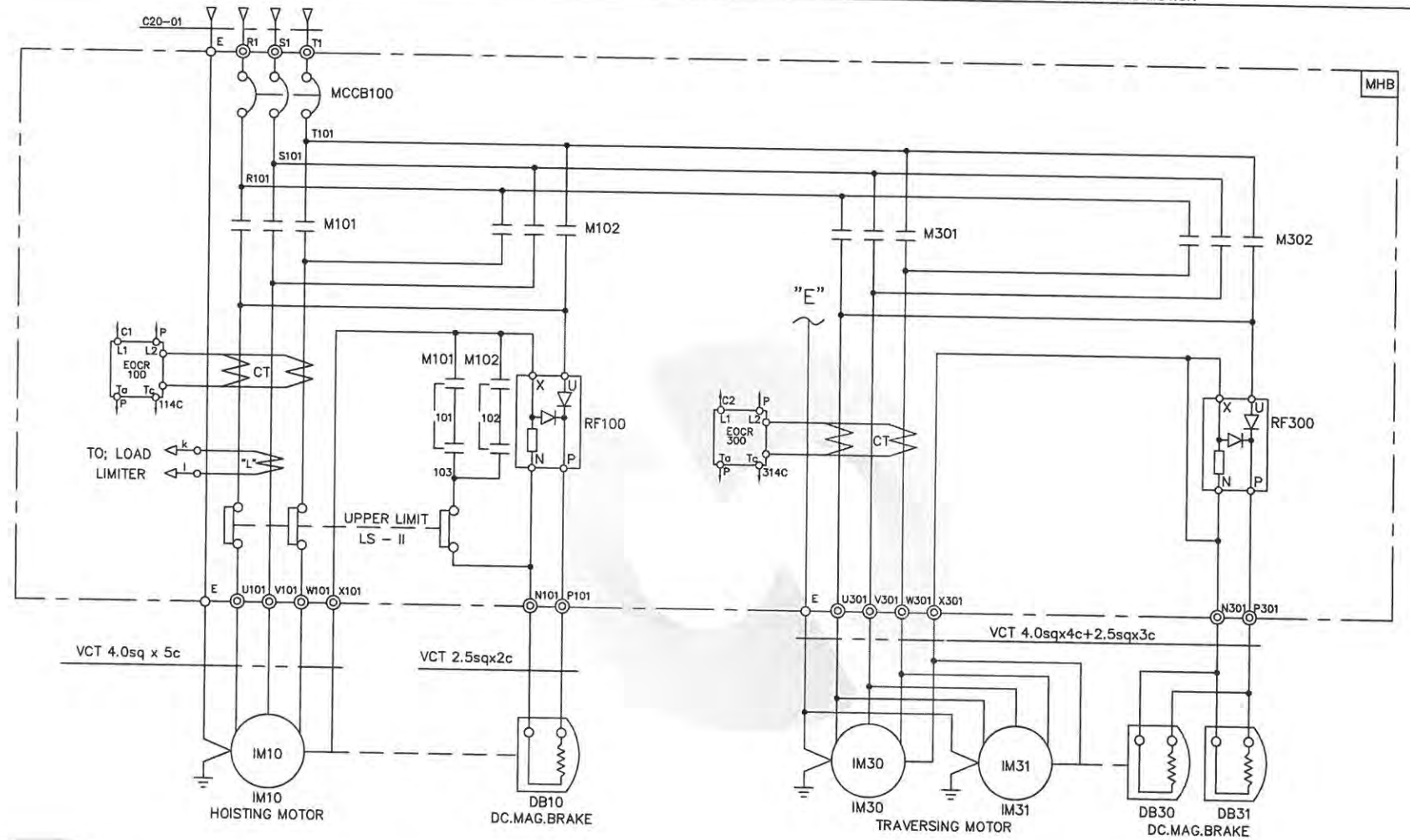
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING POWER & CONTROL CIRCUIT DIAGRAM					NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KD01E43

사용금지 배포금지

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.
HOISTING MOTION										TRAVERSING MOTION									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
	1TON AC 3PH 440V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 440V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	440/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION MAKER	KUKDONG				LS	SHINHAN	–		DONG-A		KUKDONG	ASAN				JUNGHO	DONGIL

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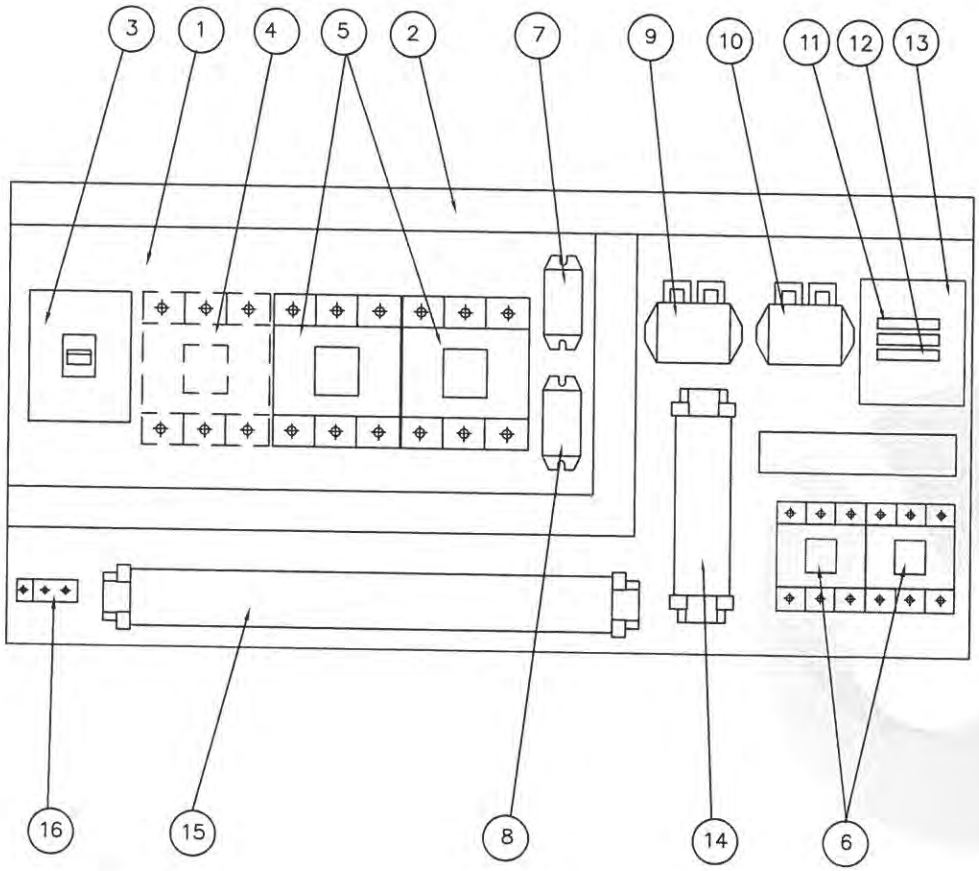
⚠3				
⚠2				
⚠1				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING POWER & CONTROL CIRCUIT DIAGRAM					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01E44	

무단 복제 및 배포 금지

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/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR–30	1	HOISTING
8	SILICON RECTIFIER	SR–30	1	TRAVERSING
9	E.O.C.R	SS–30	1	HOISTING
10	E.O.C.R	SS–05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	460V/110,120V/60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

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

무단복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
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1				

CUSTOMER

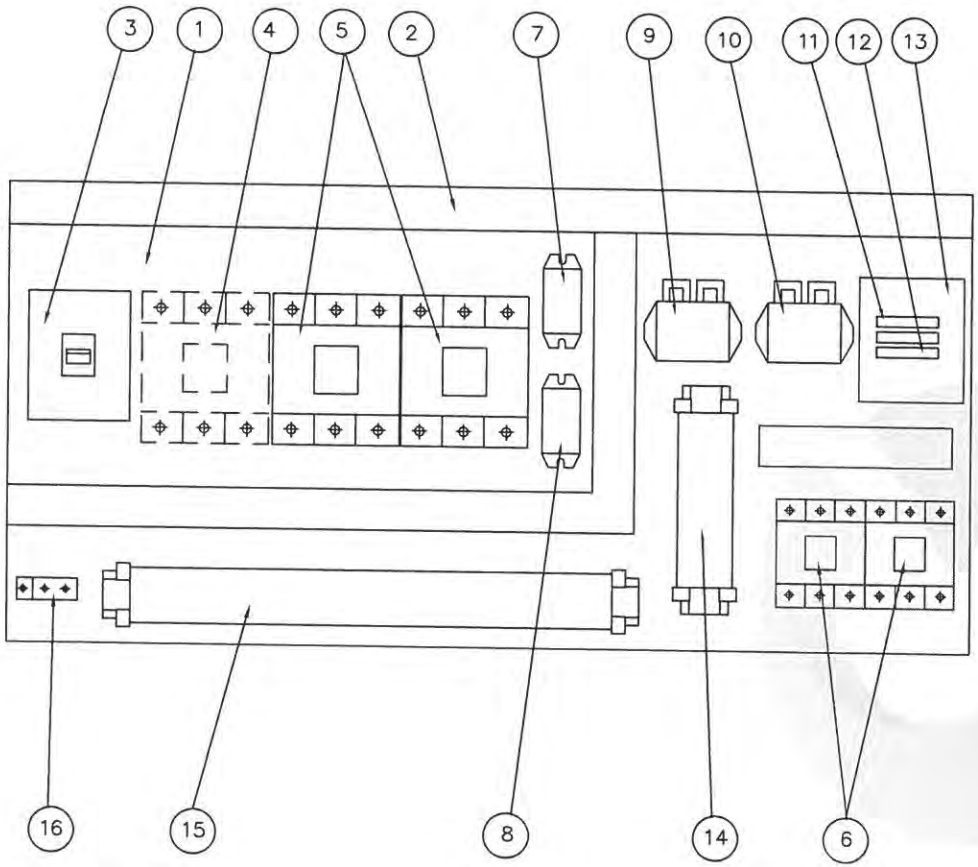
DRAWING TITLE: HOIST CONTROL BOX (고속) ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD01BA51

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/10AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	460V/110,120V/ 60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

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

무단복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
4				
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CUSTOMER

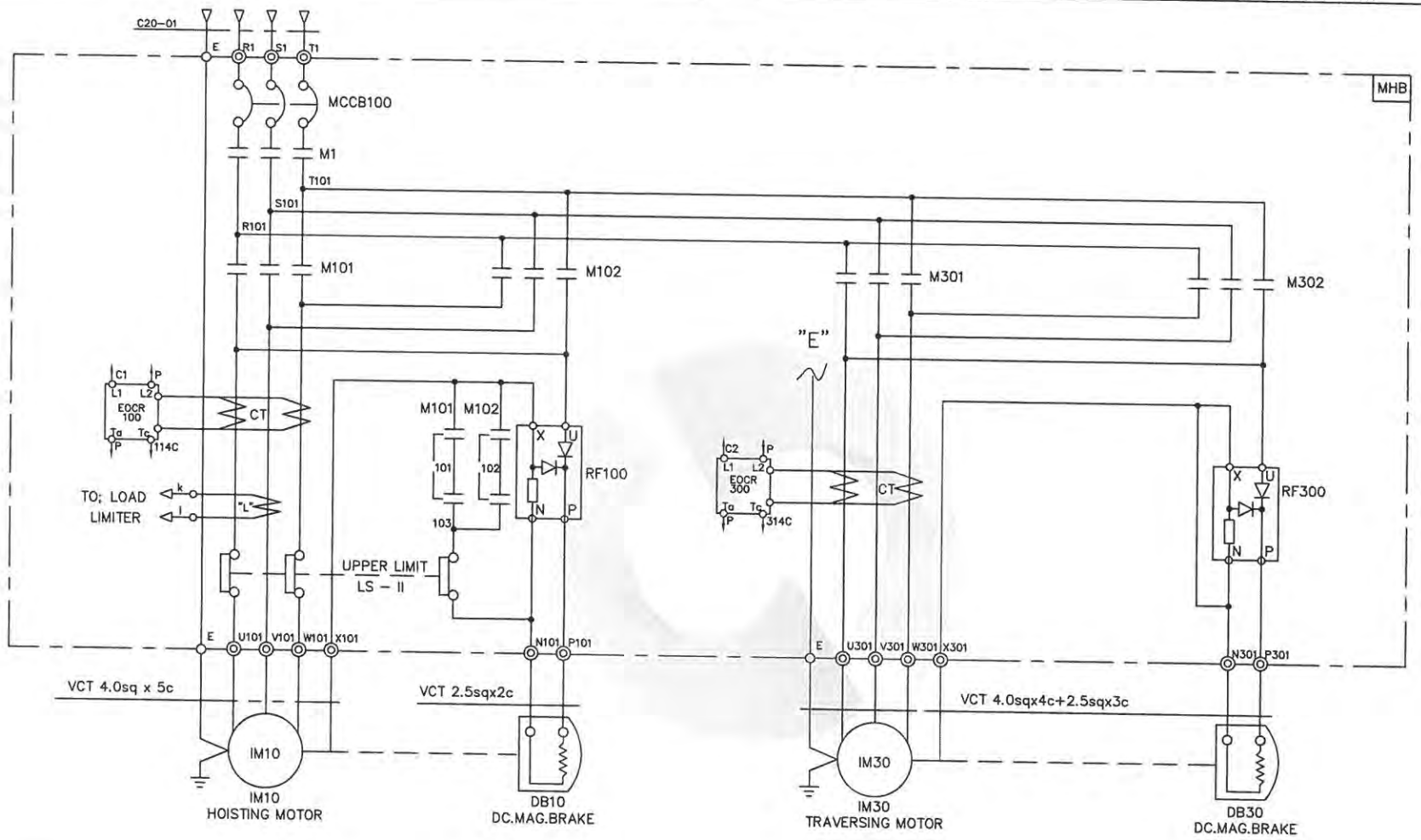
DRAWING TITLE: HOIST CONTROL BOX (저속) ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD01BA52

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.
HOISTING MOTION											TRAVERSING MOTION								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	1TON AC 3PH 460V 60Hz	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
	1TON AC 3PH 460V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 460V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	DONGIL

MK	DATE	REVISIONS	CHK.	APP.
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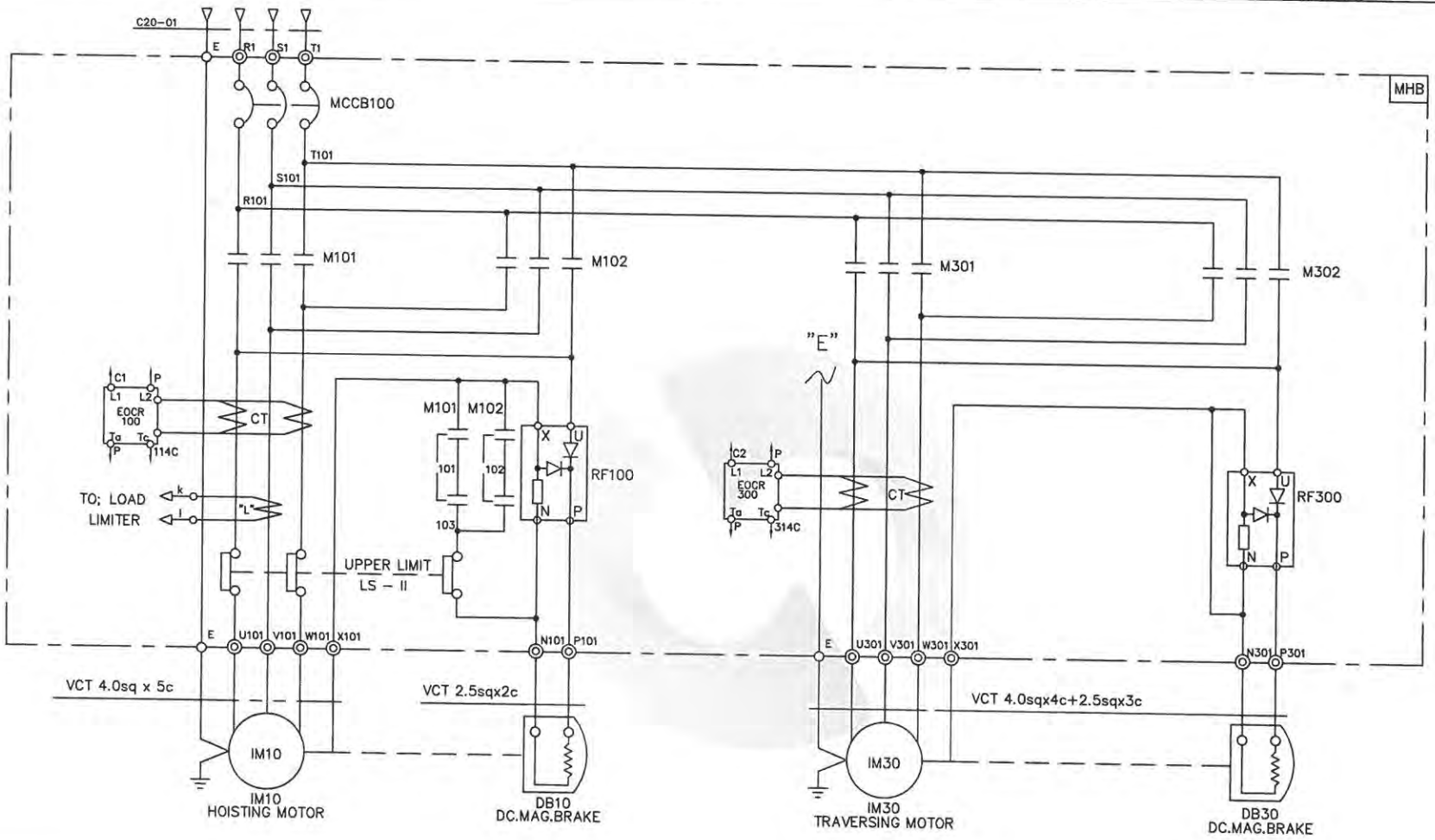
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01E51	

지문포함 무단복제금지

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.
HOISTING MOTION													TRAVERSING MOTION						B1



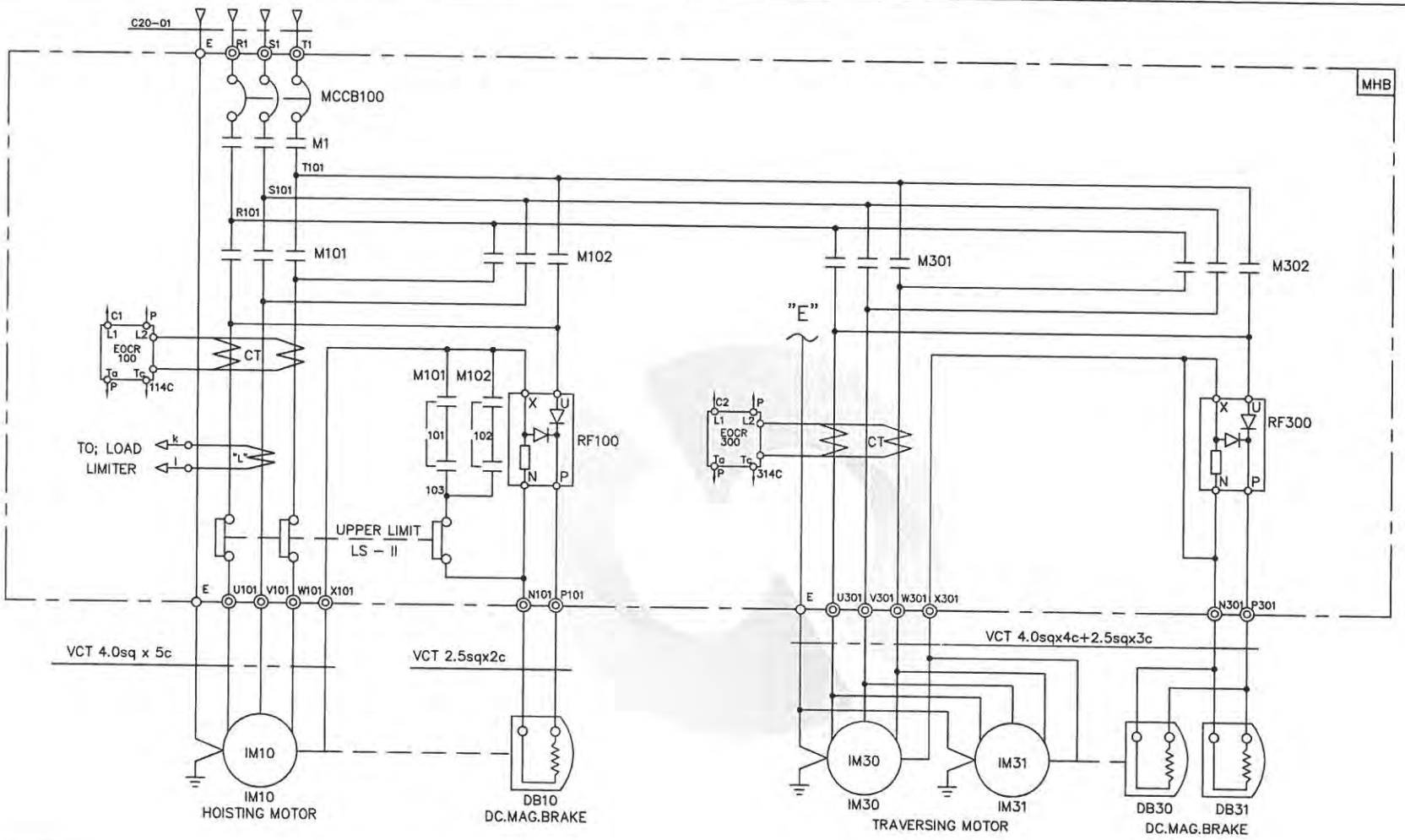
SPECIFICATION / SYMBOLS / DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC.MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER	CABLE
HOIST		IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	LOAD LIMITER	C20-01
	1TON AC 3PH 460V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 460V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	–		DONG-A		KUKDONG	ASAN				JUNGHO	DONGIL

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

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT DIAGRAM					NONE		
		KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01E52	

본 도면의 무단 복제 및 배포를 금지

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.
HOISTING MOTION										TRAVERSING MOTION									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
	1TON AC 3PH 460V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 460V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER		KUKDONG			LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	DONGIL

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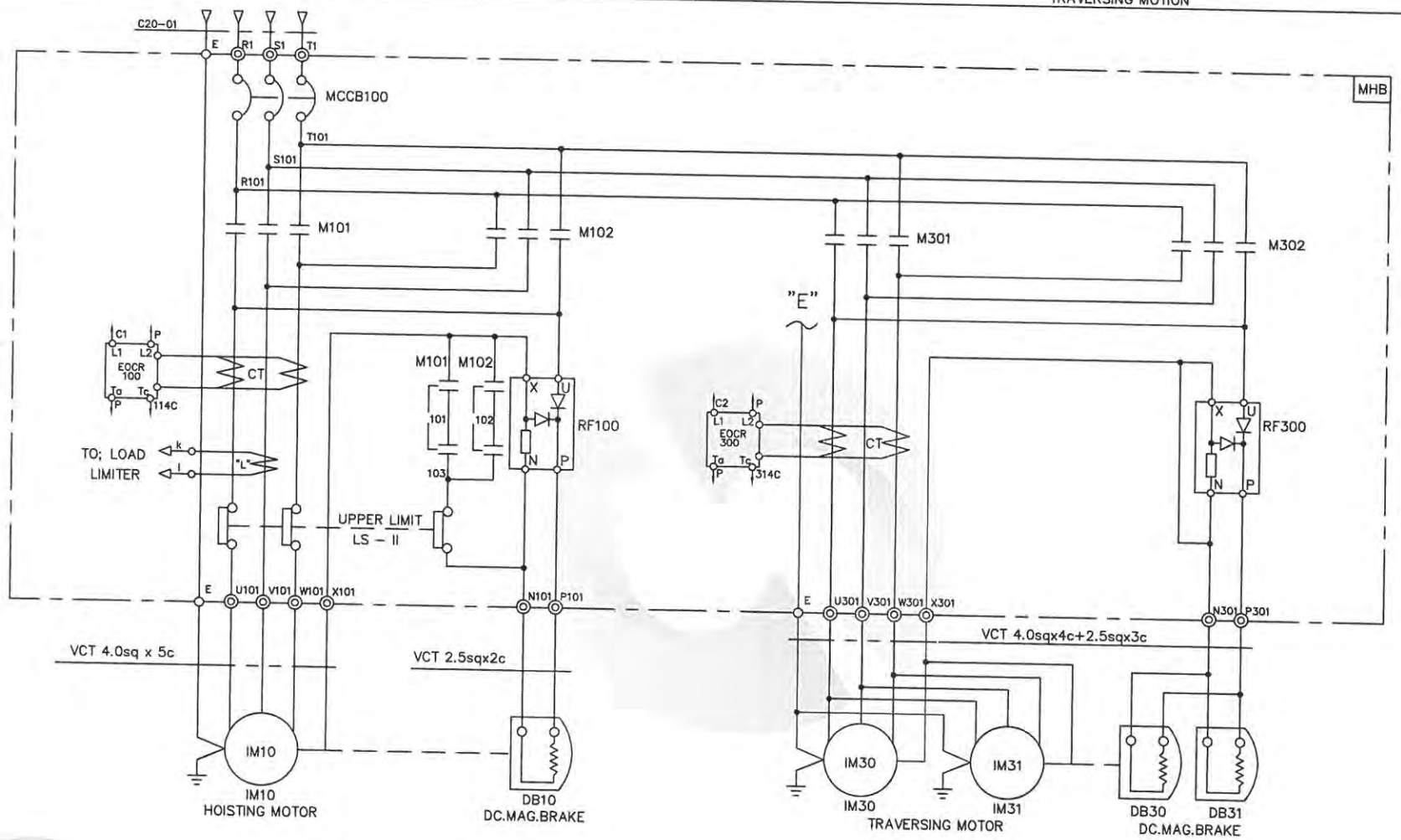
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOISTING POWER & CONTROL CIRCUIT DIAGRAM					NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD01E53

지문포함 배포제한물



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
	1TON AC 3PH 460V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 460V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	460/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION MAKER	KUKDONG				LS	SHINHAN	-		DONG-A		KUKDONG	ASAN				JUNGHO	DONGIL

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CUSTOMER

DRAWING TITLE: HOISTING POWER & CONTROL CIRCUIT DIAGRAM

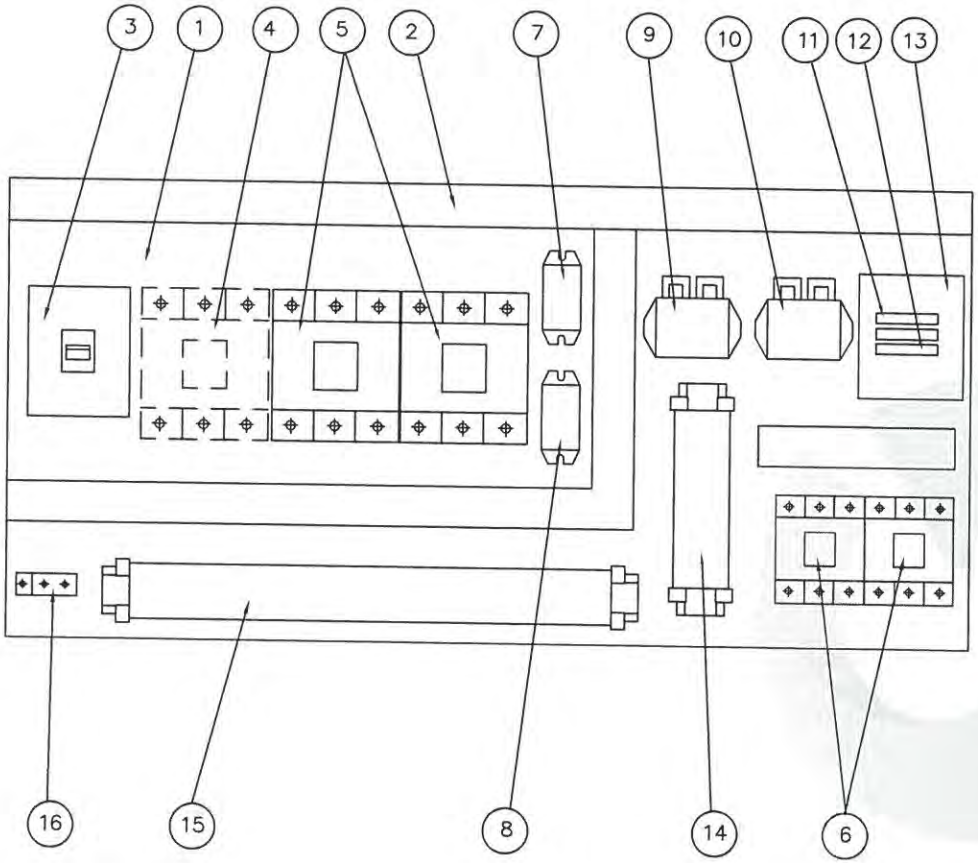
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD01E54

120/266

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/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	480V/110,120V/60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

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

무단복제 및 배포금지

MK	DATE	REVISIONS	CHK.	APP.
4				
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1				

CUSTOMER

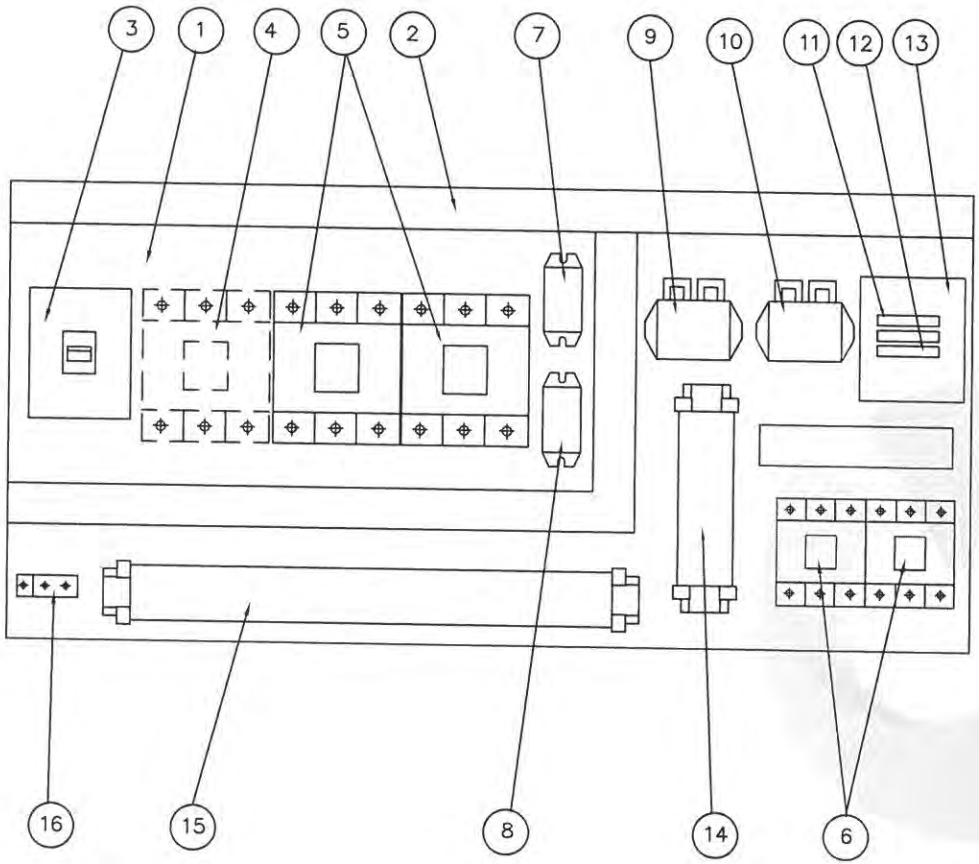
DRAWING TITLE: HOIST CONTROL BOX (고속) ARRANGEMENT DRAWING

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO: KD01BA61

ADR'S NO.



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	–	1	
3	N.F.B	33AF/10AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR–30	1	HOISTING
8	SILICON RECTIFIER	SR–30	1	TRAVERSING
9	E.O.C.R	SS–30	1	HOISTING
10	E.O.C.R	SS–05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	480V/110,120V/ 60VA	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 : 0.018 Ω

* TRAVERLLING 적용 시 NFB는 CRANE SCOPE

NOTE

1. 전선의 색상은 다음과 같다.
   1) 흑색 : 고류 및 직류 전원선로
   2) 적색 : 고류제어회로
   3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
   4) 녹색 또는 녹색과 황색 혼용 : 접지선
   5) 청색 : 직류 제어선로
2. CABLE MATERIAL : KIV OR EQUIVALENT
   MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
   1) 외함 개방시 충전부분이 차단되도록 할것.
   2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

MK	DATE	REVISIONS	CHK.	APP.
4				
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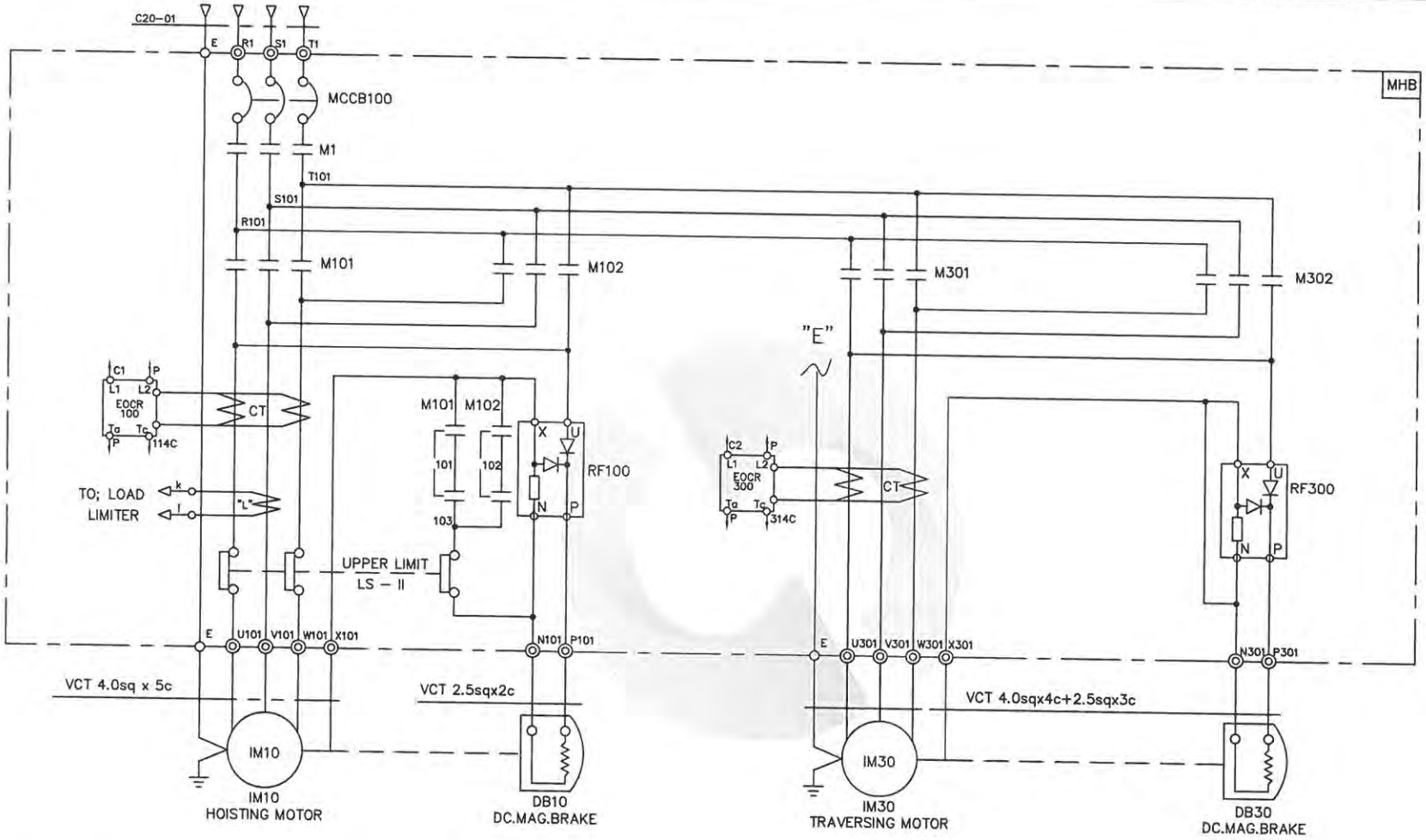
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	HOIST CONTROL BOX (저속)					NONE		
	ARRANGEMENT DRAWING	KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD01BA62	

도면번호 및 제품 배포금지

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.
HOISTING MOTION											TRAVERSING MOTION								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
	1TON AC 3PH 480V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 480V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	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: KD01E61

125/266

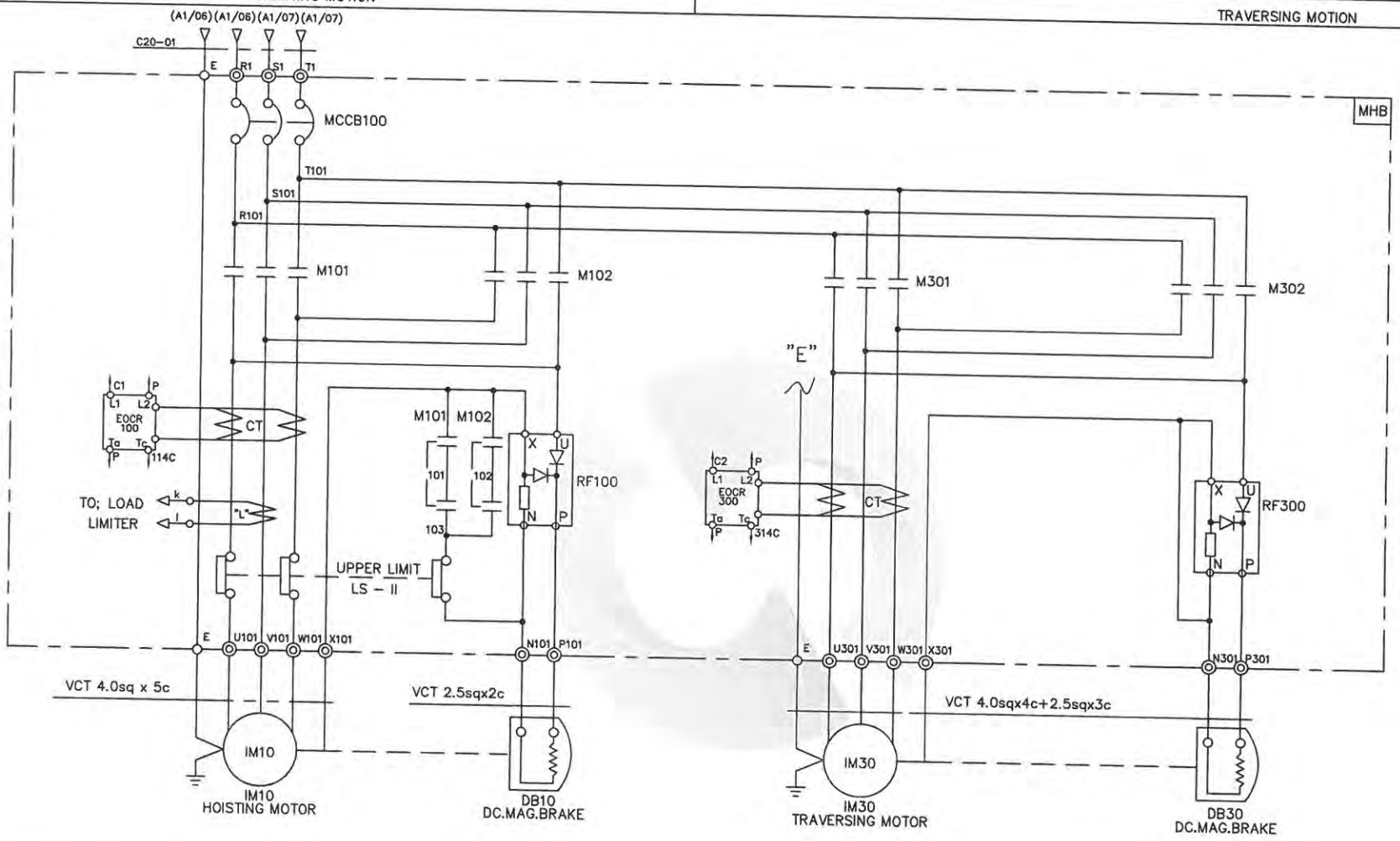
이 문서의 무단 배포 금지

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

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
	1TON AC 3PH 480V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 480V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A		KUKDONG	ASAN				JUNGHO	DONGIL

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⚠1				

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 KD01E62

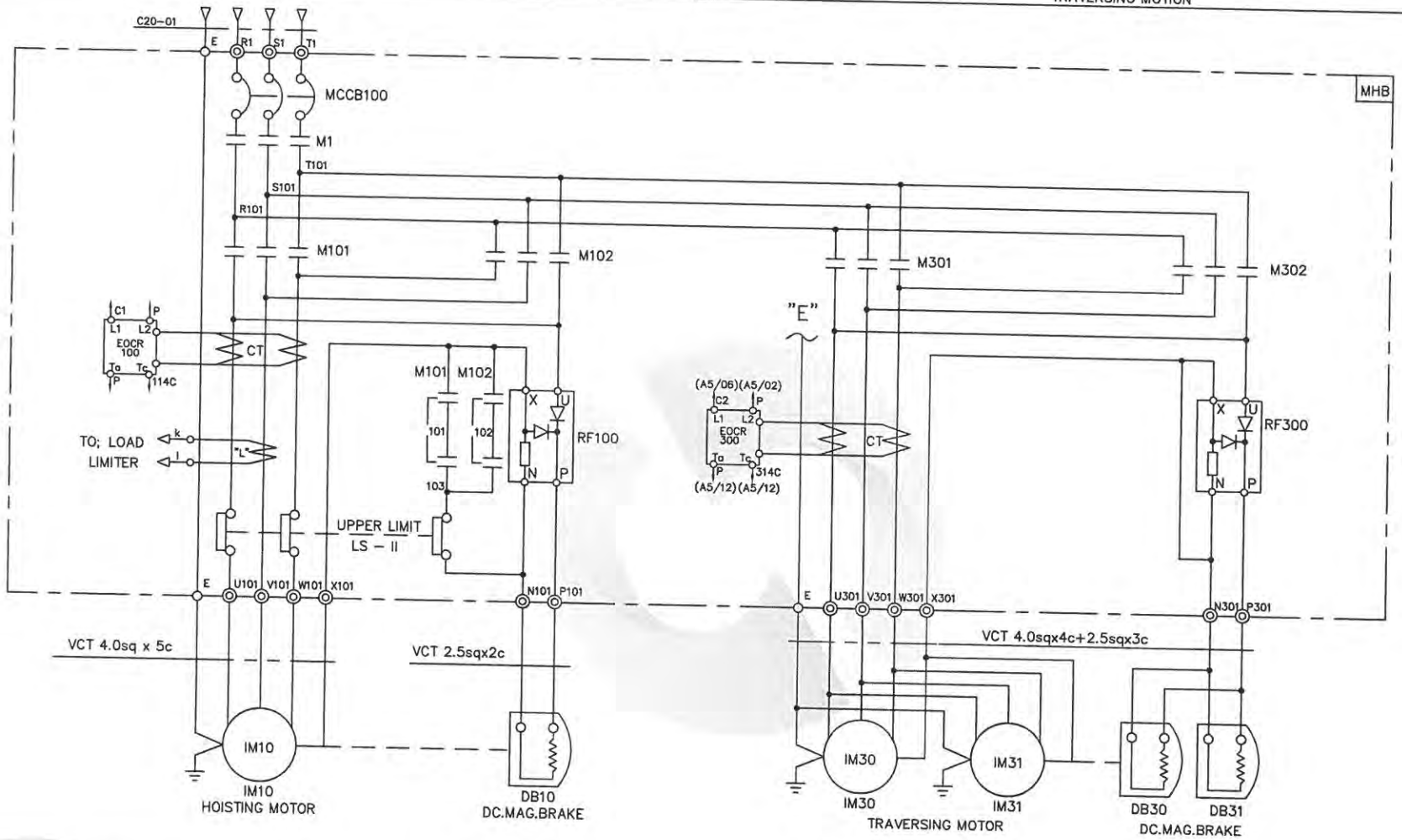
126/266

저작권법에 의한 보호물입니다.

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

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
	1TON AC 3PH 480V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 480V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A			KUKDONG	ASAN				JUNGHO	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		

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO: KD01E63

127/266

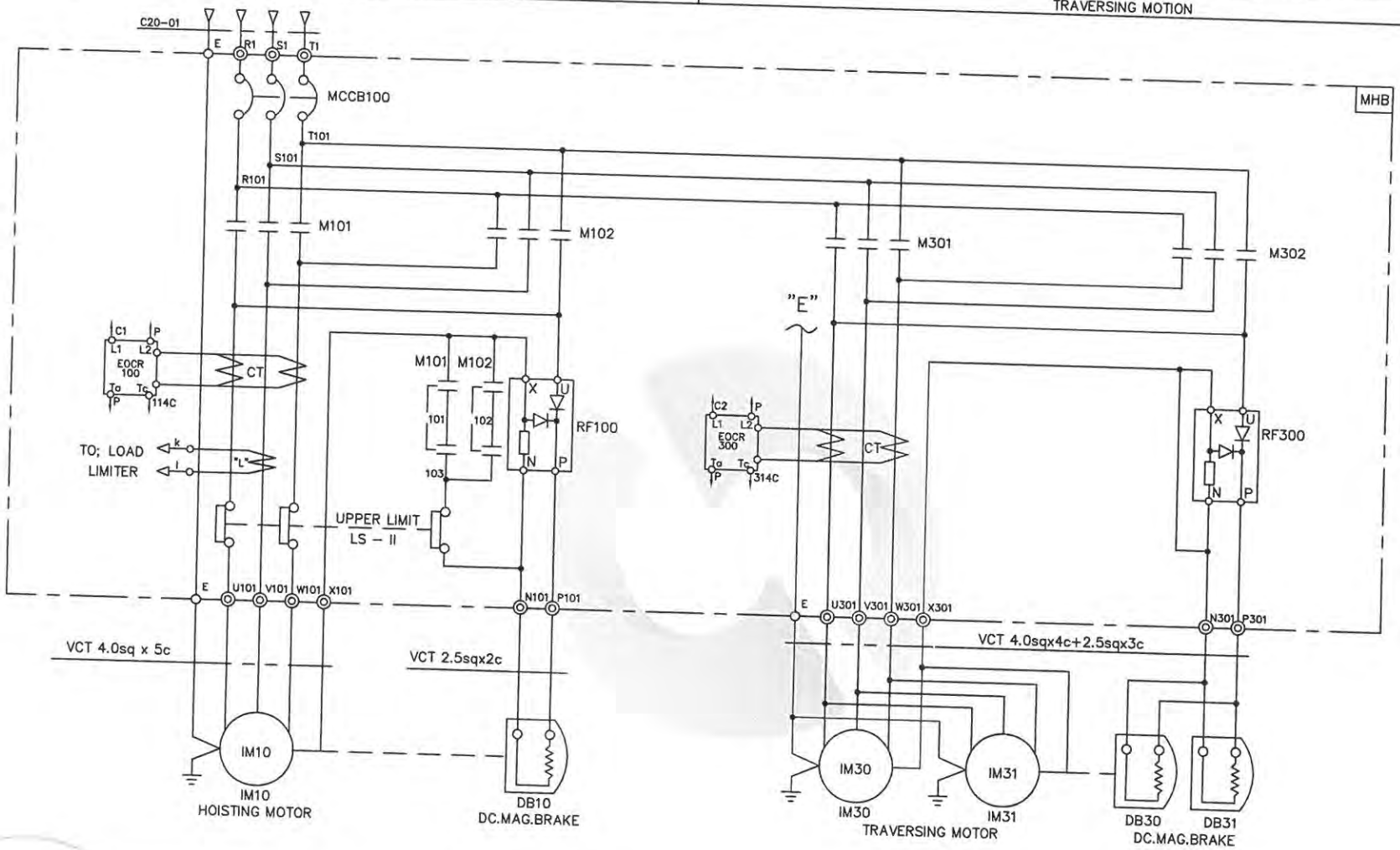
본 도면의 저작권은 극동호이스트에 있으며 무단 복제 및 배포를 금합니다.

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

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
	1TON AC 3PH 480V 60Hz	2.4KW x 4P	0.4KW x 4P	DC 100V	ABE-33AF/15AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1TON AC 3PH 480V 60Hz	1.2KW x 8P	0.2KW x 6P	DC 100V	ABE-33AF/10AT	480/110,120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION / MAKER	KUKDONG				LS	SHINHAN	-		DONG-A		KUKDONG	ASAN				JUNGHO	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.

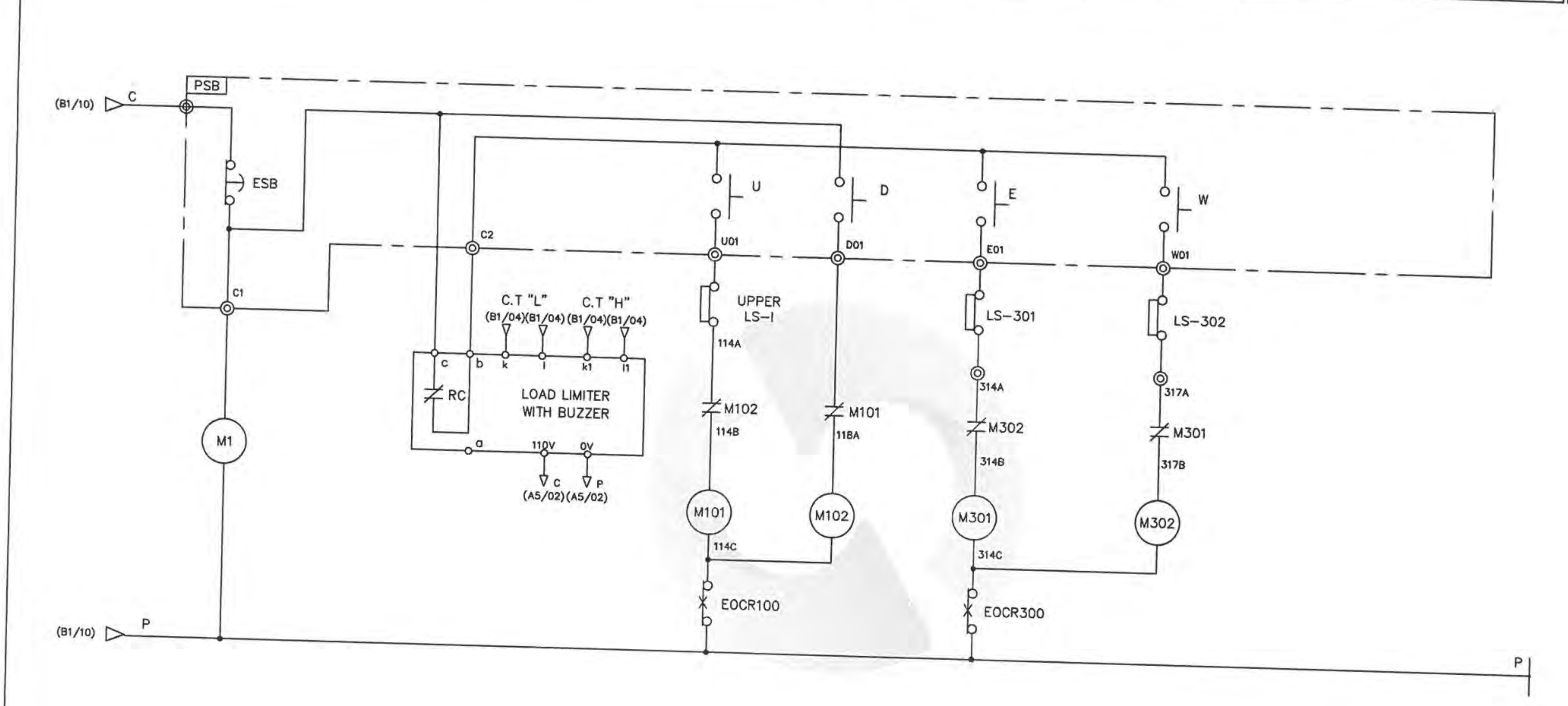
DWG. NO: KD01E64

128/266

무단복제 및 배포금지

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	CONTROL CIRCUIT					ADR'S NO.
		UP	DOWN	EAST	WEST		A5



불법복제 및 배포금지

SPECIFICATION / SYMBOLS / DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 3A	250V 3A	JDL-100	KG - L001
MAKER	KUKDONG	KUNHUNG	JEUNGHO	KG-AUTO

MK	DATE	REVISIONS	CHK.	APP.

CUSTOMER	
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM

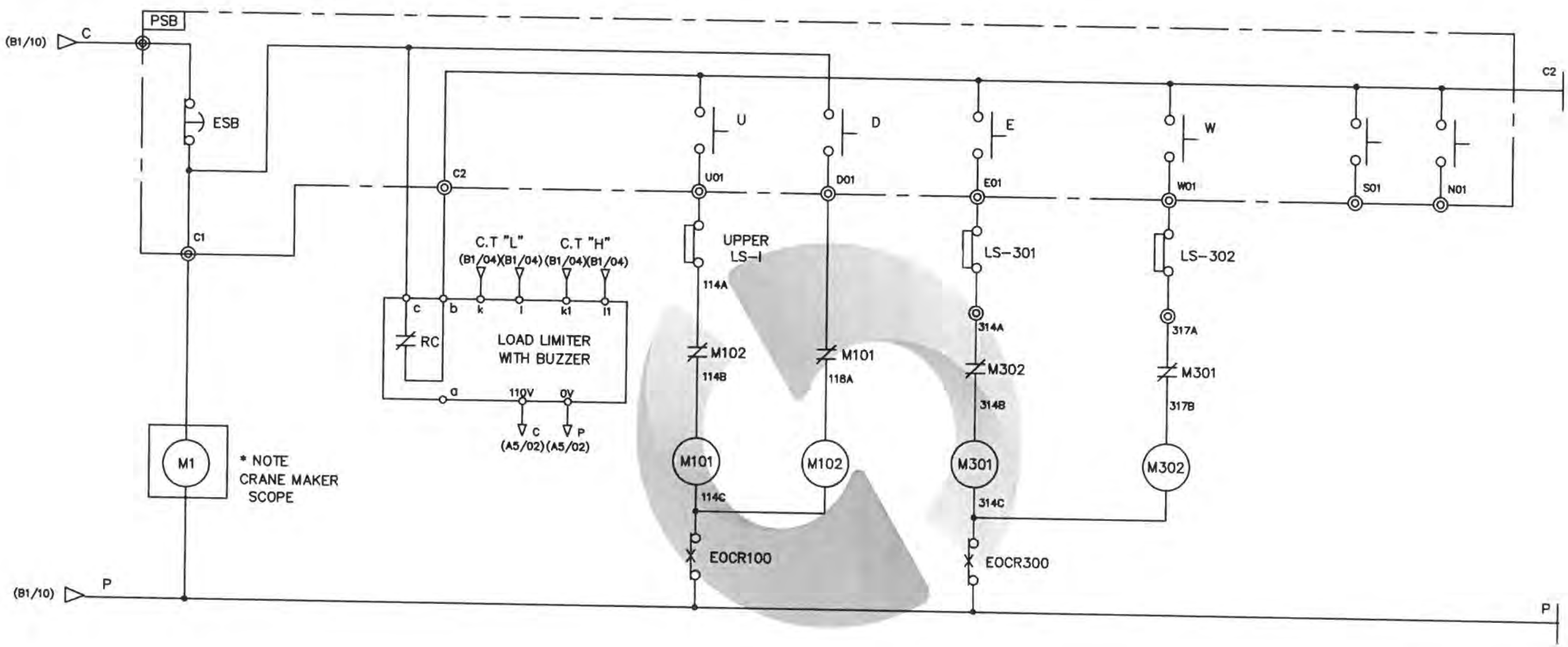
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD2E002	

심사필 한국승강기안전공단

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

CONTROL CIRCUIT

EM. STOP	OVER LOAD BUZZER	UP	DOWN	EAST	WEST		ADR'S NO.
							A5



불법복제 및 배포금지

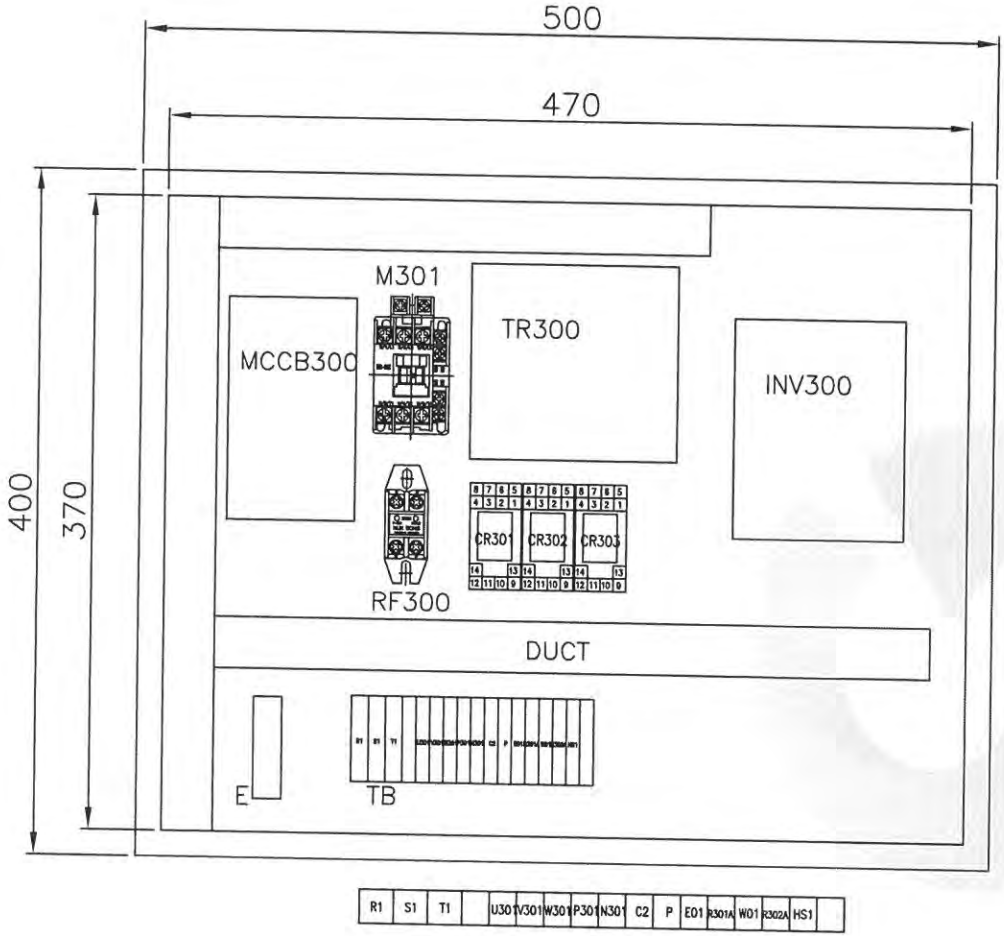
SPECIFICATION SYMBOLS DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 3A	250V 3A	JDL-100	KG - L001
MAKER	KUKDONG	KUNHUNG	JEUNGHO	KG-AUTO

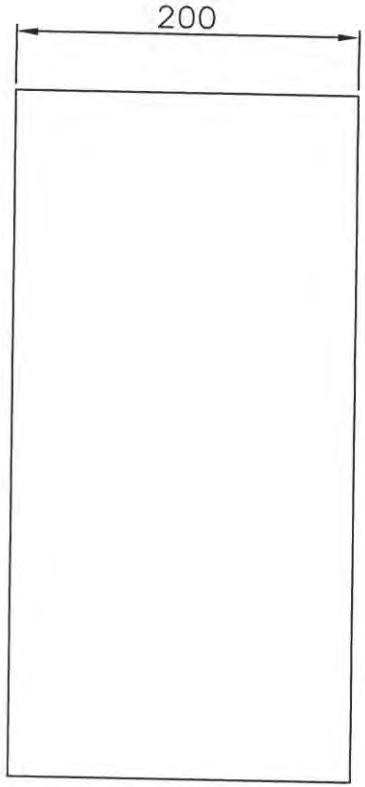
MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING TITLE	MAIN POWER 2 & CONTROL CIRCUIT DIAGRAM					NONE		
		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD2E003	

심사필 한국승강기안전공단

131/266





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

PROJECT				DATE	DIM
					mm
TITLE	T/S CONTROL PANEL(INVERTER)			SCALE	PROJECTION
				A3/3	3rd
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING	
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				SHEET No.	DWG No. KD1EI001

지문포함 및 배포금지

한국기술교육대학교 산업기술진흥원 산학협력단

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

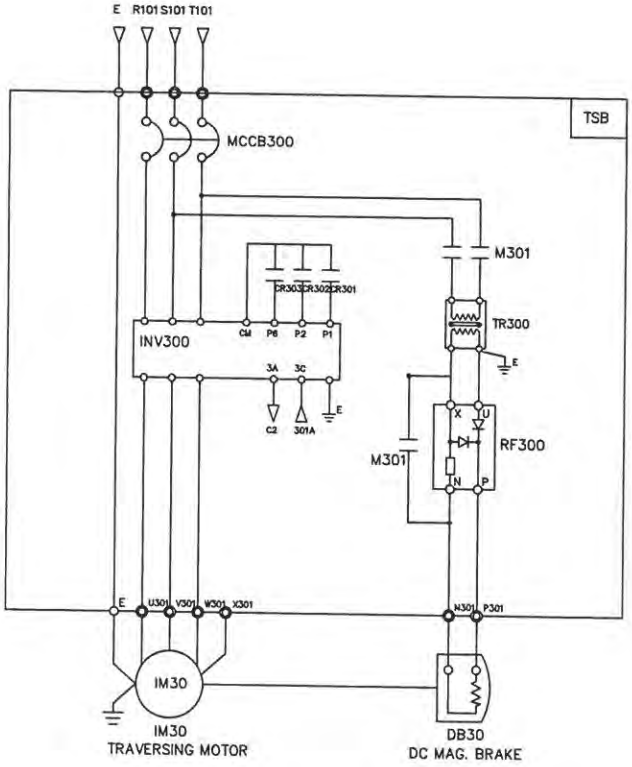
TRAVERSING MOTION

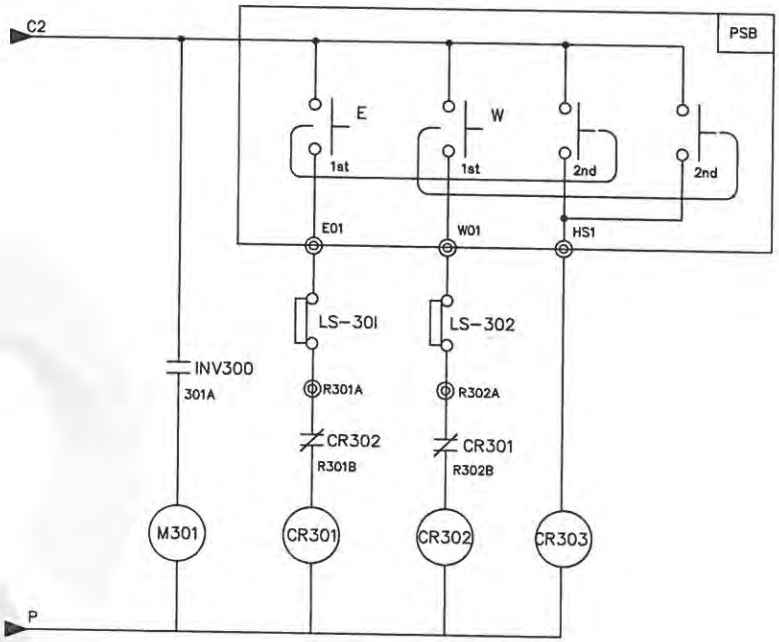
POWER CIRCUIT DIAGRAM

CONTROL CIRCUIT DIAGRAM

ADR'S NO.

BRAKE | EAST | WEST | HIGH SPEED





SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING POWER	TRAVERSING MOTOR	DC.MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER	
		IM 30	DB30	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300	
	AC 3PH 220V 60Hz	0.2KW x 6P	DC 100V	ABE-33AF/5AT	220/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV04iG5A-2	SR-30	
	AC 3PH 380(440,460,480)V 60Hz	0.2KW x 6P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV04iG5A-4	SR-30	
SELECTION MAKER	KUK DONG HOIST							LS	ASAN	

MK	DATE	REVISIONS	CHK.	APP.
5				
4				
3				
2				
1				

CUSTOMER	INVERTER CONTROL
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KD1EI002

무단복제 및 배포금지

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

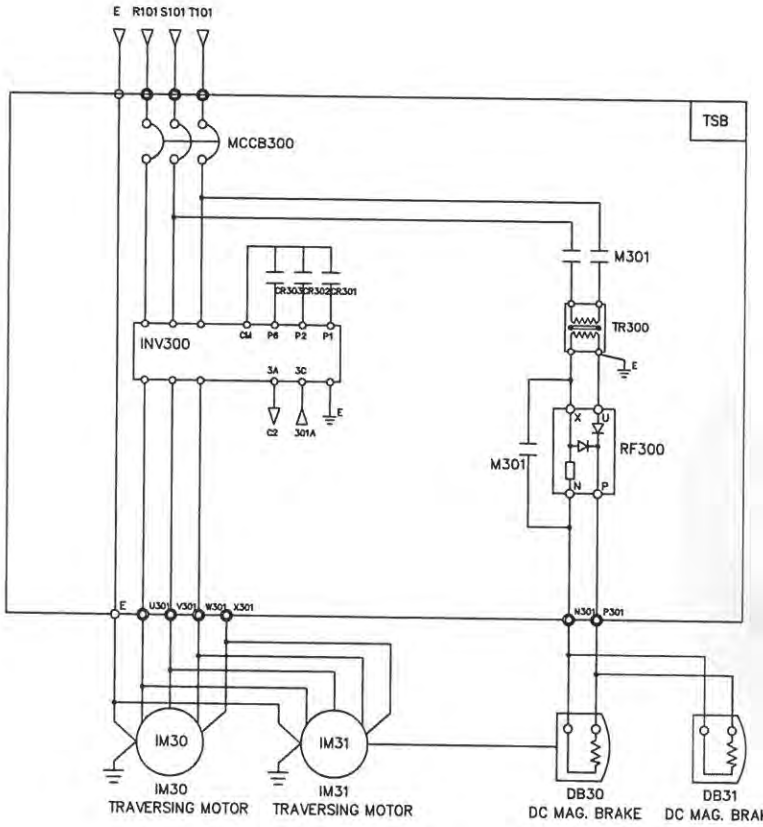
TRAVERSING MOTION

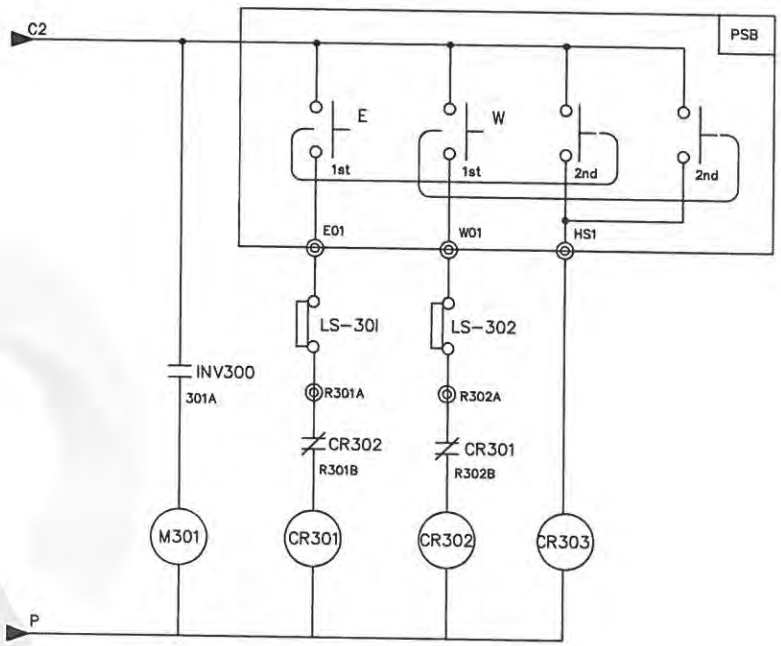
POWER CIRCUIT DIAGRAM

ADR'S NO.

CONTROL CIRCUIT DIAGRAM

BRAKE	EAST	WEST	HIGH SPEED





SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING POWER	TRAVERSING MOTOR	DC.MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER	
		IM 30,31	DB30,31	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300	
	AC 3PH 220V 60Hz	0.2KW x 6P	DC 100V	ABE-33AF/10AT	220/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV08iG5A-2	SR-30	
	AC 3PH 380(440,460,480)V 60Hz	0.2KW x 6P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV08iG5A-4	SR-30	
SELECTION MAKER	KUK DONG HOIST							LS	ASAN	

MK	DATE	REVISIONS	CHK.	APP.
4				
3				
2				
1				

CUSTOMER	INVERTER CONTROL
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD1EI003

무단복제 및 배포금지

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

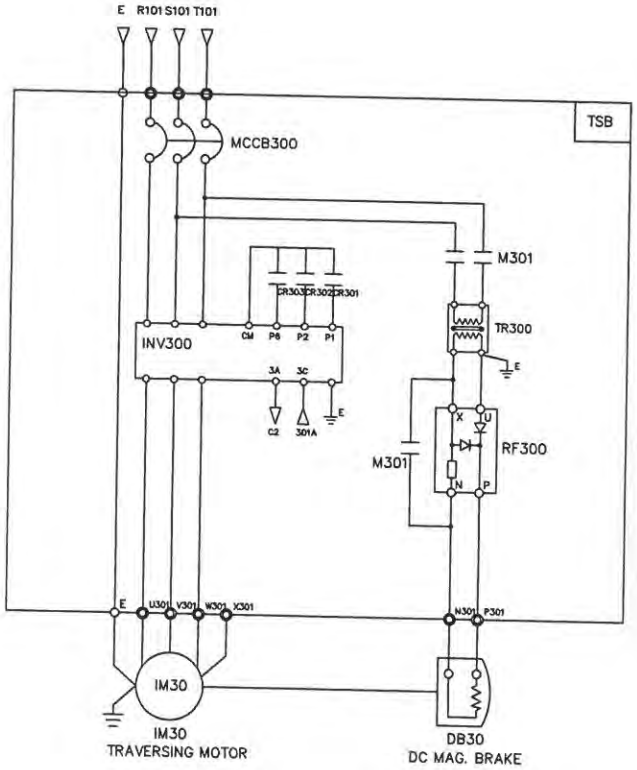
TRAVERSING MOTION

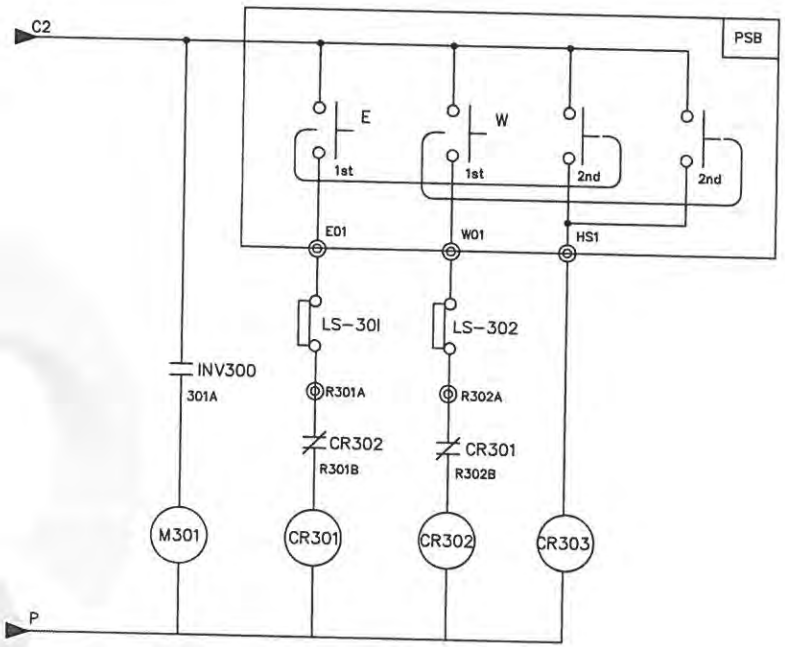
POWER CIRCUIT DIAGRAM

CONTROL CIRCUIT DIAGRAM

BRAKE | EAST | WEST | HIGH SPEED

ADR'S NO.





SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING POWER	TRAVERSING MOTOR	DC.MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER	
		IM 30	DB30	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300	
	AC 3PH 220V 60Hz	0.4KW x 4P	DC 100V	ABE-33AF/5AT	220/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV08iG5A-2	SR-30	
	AC 3PH 380(440,460,480)V 60Hz	0.4KW x 4P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV08iG5A-4	SR-30	
SELECTION / MAKER	KUK DONG HOIST							LS	ASAN	

MK	DATE	REVISIONS	CHK.	APP.
3				
2				
1				

CUSTOMER	INVERTER CONTROL
DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.

KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.

DWG. NO KD1E1004

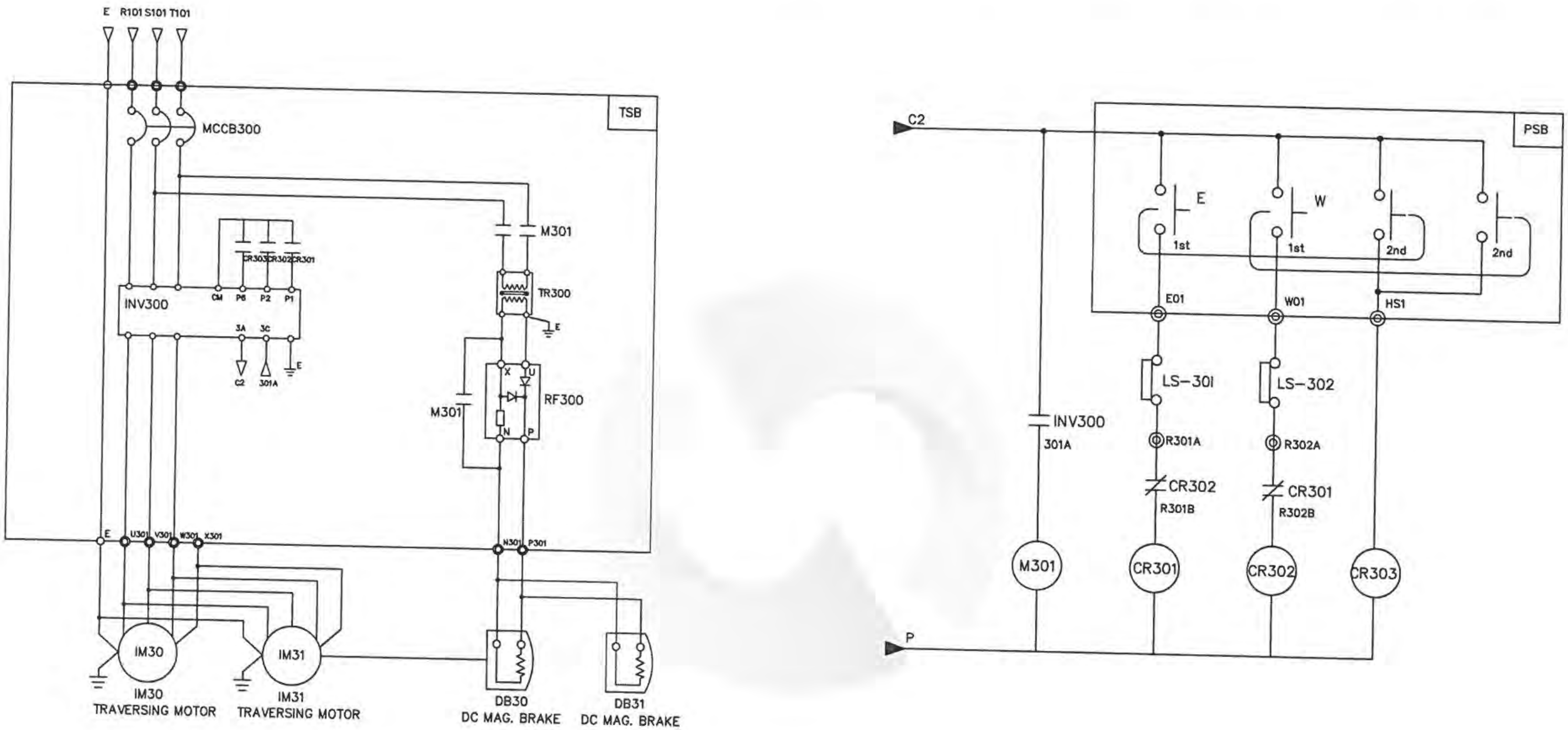
불법복제 및 배포금지

TRAVERSING MOTION

POWER CIRCUIT DIAGRAM

CONTROL CIRCUIT DIAGRAM: BRAKE | EAST | WEST | HIGH SPEED

ADR'S NO.



불법복제 및 배포금지

SPECIFICATION / SYMBOLS / DESCRIPTION	TRAVERSING POWER	TRAVERSING MOTOR	DC.MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER
		IM 30,31	DB30,31	MCCB300	TR 300	M301	CR301,302,303	INV300	RF300
	AC 3PH 220V 60Hz	0.4KW x 4P	DC 100V	ABE-33AF/10AT	220/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015iG5A-2	SR-30
SELECTION	AC 3PH 380(440,460,480)V 60Hz	0.4KW x 4P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,300VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015iG5A-4	SR-30
MAKER	KUK DONG HOIST							LS	ASAN

MK	DATE	REVISIONS	CHK.	APP.

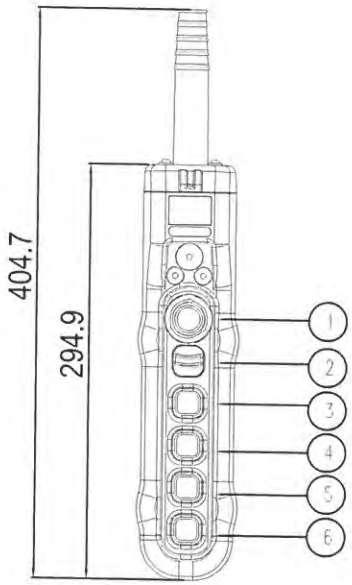
CUSTOMER: INVERTER CONTROL

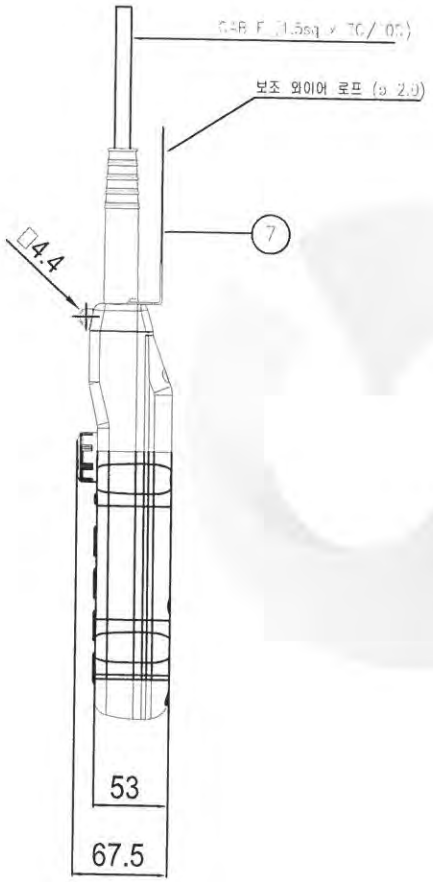
DRAWING TITLE: TRAVERSING POWER & CONTROL CIRCUIT DIAGRAM

DRAWING | DESIGN | CHECKED | APPROVED | SCALE | DATE | ORDER NO.

극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

DWG. NO KD1EI005





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

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

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

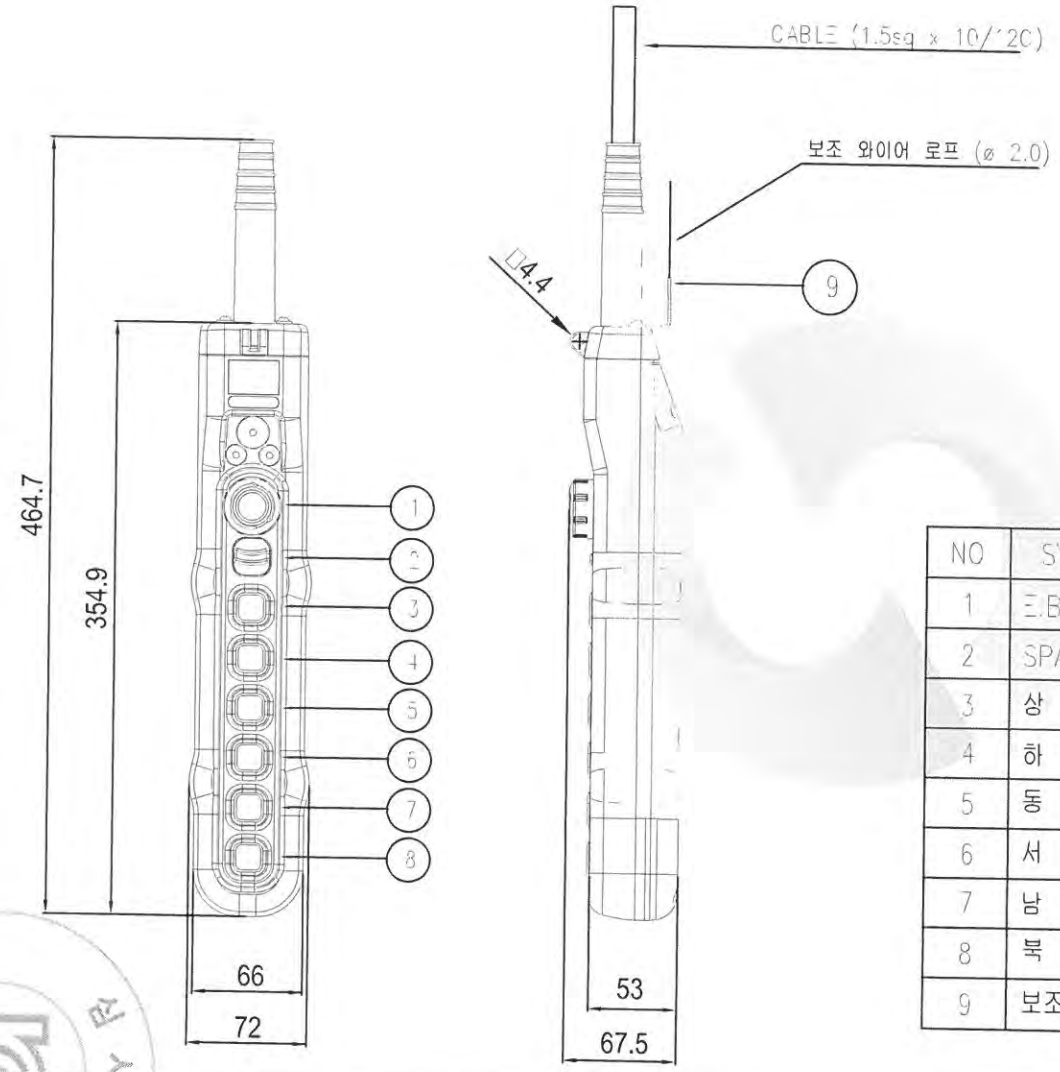
MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				

CUSTOMER
DRAWING TITLE: PENDANT PUSH BUTTON SWITCH
LAY OUT

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE

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

무단복제 및 배포금지



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

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

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

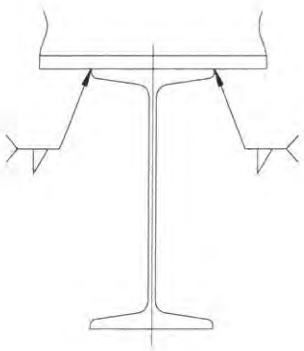
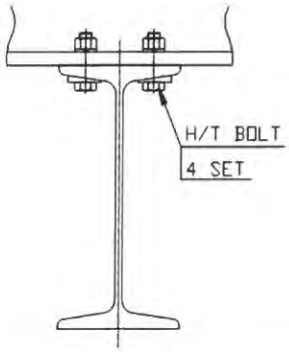
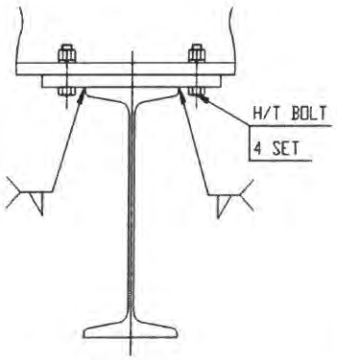
MK	DATE	REVISIONS	CHK.	APP.
⚠				
⚠				
⚠				

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

불법복제 및 배포금지

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

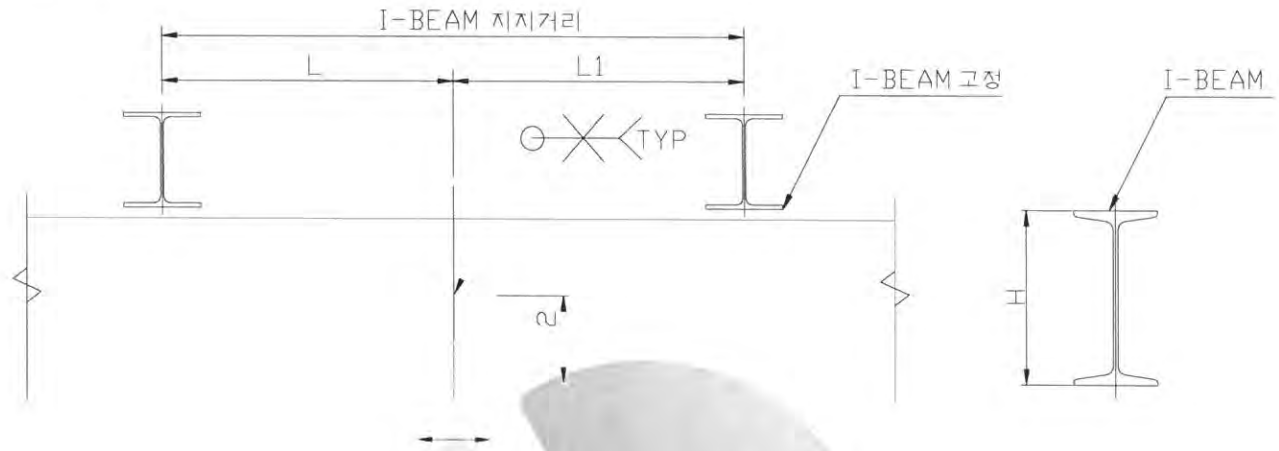
* 동하중에 의한 용접이음의 허용응력 (필렛용접 효율 80% 포함) : 560 kg/㎠
* H/T BOLT의 허용 인장응력 : 2500kg/㎠

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

* I-BEAM 200×100×t7/10 기준.
(기타 규격은 용접강도, BOLT강도 테이블 참조)

심 사 필
KCS
한국승강기안전공단

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	4500	3600	3600	
300×150×t10/18.5	300	300	150	9600	7100	5800	5800	4500
350×150×t9/15	300	350	175	9900	7800	6300	6000	5900
400×150×t10/18	300	400	200	11000	9800	8000	7700	5700
450×175×t11/20	300	450	225		12400	10000	9900	7700

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

무단복제 및 배포금지

* 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	320	225.2								
250×125×t7.5/12.5	38.3	0.6	12.5×2	320	181.5	470	336.0	690	473.1	620	490.5		
300×150×t10/18.5	65.6	0.6	15.0×2	320	153.7	470	282.5	690	396.7	620	411.2	642	478.2
350×150×t9/15	58.5	0.6	15.0×2	320	153.0	470	281.8	690	396.0	620	410.6	642	477.8
400×150×t10/18	72.0	0.8	15.0×2	320	115.7	470	283.0	690	397.2	620	411.8	642	478.7
450×175×t11/20	91.7	0.8	17.5×2			470	284.8	690	399.0	620	354.5	642	480.0

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

본 사 용 한국건기안전공단

* I-BEAM 고정 방법 중 BOLT 고정 강도

$$\text{BOLT 강도}\ \sigma = 1.14\ \frac{\text{I-BEAM자중}+1.25\times(\text{정격하중}+\text{Hoist자중})}{\text{BOLT 단면적}\times\text{BOLT 수}} \leqq 2500\ \text{kg/㎠}$$

I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규 격	BOLT 수	BOLT 단면적 (cm^2)	1 T		1.2 T		2.8 T		3 T		5 T	
					HOIST 자중(KG)	BOLT강도 (㎉/㎠)	HOIST 자중(KG)	BOLT강도 (㎉/㎠)	HOIST 자중(KG)	BOLT강도 (㎉/㎠)	HOIST 자중(KG)	BOLT강도 (㎉/㎠)	HOIST 자중(KG)	BOLT강도 (㎉/㎠)
200×100×t7/10	26.0	M12	4	1.13	320	422.7								
250×125×t7.5/12.5	38.3	M12	4	1.13	320	425.8	470	788.4	690	1109.9	620	1150.9		
300×150×t10/18.5	65.6	M12	4	1.13	320	432.7	470	795.3	690	1116.8	620	1157.8	642	1009.3
350×150×t9/15	58.5	M12	4	1.13	320	430.9	470	793.5	690	1115.0	620	1156.0	642	1008.3
400×150×t10/18	72.0	M16	4	2.01	320	244.2	470	448.0	690	628.8	620	651.8	642	1010.2
450×175×t11/20	91.7	M16	4	2.01			470	450.8	690	631.6	620	654.6	642	1013.0

불법복제 및 배포금지

심사필 한국승강기안전공단

불법복제 및 배포금지

Ⅰ-5. Ⅰ-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$Ms = \frac{1.05 * 26 * 400\text{^}2}{8} = 5460 \text{ kg-cm}$$

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

$$M_d = 1.254 \times \frac{(1000 + 320) * 400}{4} = 165528 \text{ kg-cm}$$

* 호이스트 자중 = 320 KG 용 량 : 1000 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 5460 + 165528 = 170988 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{31.52 * 400}{2} = 6303.0 \text{ kg-cm}$$

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

= 23.66 x 1.2 x 1.11 = 31.52 (kg)

속도압 : $q = 8.5 \times \sqrt[4]{h(kg/m^2)} = 8.5 \times \sqrt[4]{60} =$ 23.66 (kg/㎡)

속도계수 : C = 1.2 (크레인 제작기준 참조)

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

= 0.8 + 0.31 = 1.11 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.31㎡

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)
⇨ 200×100×t7/10	26	400	5460	165528	170988	31.52	6303.0	1.11
250×125×t7.5/12.5	38.3	620	19323	256568	275892	51.39	15980.8	1.81
300×150×t10/18.5	65.5	960	79229	397267	476496	88.30	42383.6	3.11
350×150×t9/15	58.5	990	75253	409682	484935	105.33	52140.5	3.71
400×150×t10/18	72	1100	114345	455202	569547	139.40	76672.8	4.91

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

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5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

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

$$= \frac{170988}{218} = 784.3 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

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

$$= \frac{6303.0}{27.7} = 227.5 \quad (kg/cm^2)$$

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)
200×100×t7/10	218	27.7	170988	6303.0	784.3	227.5	1011.9
250×125×t7.5/12.5	414	53.9	275892	15930.8	666.4	295.6	962.0
300×150×t10/18.5	849	118	476496	42383.6	561.2	359.2	920.4
350×150×t9/15	870	93.5	484935	52140.5	557.4	557.7	1115.0
400×150×t10/18	1200	115	569547	76672.6	474.6	666.7	1141.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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불법복제 및 배포금지

5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

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

$$= \frac{5 * 26 * 400\text{^}3}{384 * 2100000 * 2170} = 0.048 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

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

$$= \frac{(1000 + 320) \times 400\text{^}3}{48 * 2100000 * 2170} = 0.386 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

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

$$= \frac{0.386}{400} = \frac{1}{1036} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

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

$$= \frac{0.048+0.386}{400} = \frac{1}{922} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
200×100×t7/10	2170	26	0.048	0.386	1 / 1036	1 / 922
250×125×t7.5/12.5	5180	38.3	0.109	0.603	1 / 1029	1 / 871
300×150×t10/18.5	12700	65.5	0.283	0.912	1 / 1052	1 / 803
350×150×t9/15	15200	58.5	0.232	0.836	1 / 1184	1 / 927
400×150×t10/18	24100	72	0.247	0.723	1 / 1521	1 / 1134

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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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

$Ms = \frac{1.05 * 38.3 * 620\text{^}2}{8} = 19323$ kg-cm

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

$M_d = 1.254 \times \frac{(1000 + 320) * 620}{4} = 256568$ kg-cm

* 호이스트 자중 = 320 KG 용 량 : 1000 KG

* DYNAMIC COEFFICIENT : F = 1.254
* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 19323 + 256568 = 275892 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \frac{51.39 * 620}{2} = 15930.8$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)
= 23.66 x 1.2 x 1.81 = 51.39 (kg)

속도압 : $q = 8.5 \times \sqrt[4]{h(kg/m^2)} = 8.5 \times \sqrt[4]{60} = 23.66$ (kg/㎡)

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (㎡)
= 1.5 + 0.31 = 1.81 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.31㎡

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)
200×100×t7/10	26	400	5460	165528	170988	31.52	6303.0	1.11
⇨ 250×125×t7.5/12.5	38.3	620	19323	256568	275892	51.39	15930.8	1.81
300×150×t10/18.5	65.5	960	79229	397267	476496	88.30	42883.6	2.11
350×150×t9/15	58.5	990	75253	409682	484935	105.33	52140.5	3.71
400×150×t10/18	72	1100	114345	455202	569547	151.07	76672.6	5.32

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

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6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

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

$$= \frac{275892}{414} = 666.4 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

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

$$= \frac{15930.8}{53.9} = 295.6 \quad (kg/cm^2)$$

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)
200×100×t7/10	218	27.7	170988	6303.0	784.3	227.5	1011.9
⇨ 250×125×t7.5/12.5	414	53.9	275892	15930.8	666.4	295.6	962.0
300×150×t10/18.5	849	118	476496	42383.6	561.2	359.2	920.4
350×150×t9/15	870	93.5	484935	52140.5	557.4	557.7	1115.0
400×150×t10/18	1200	115	569547	76672.6	474.6	666.7	1141.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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불법복제 및 배포금지

6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

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

$$= \frac{5 * 38.3 * 620\text{^}3}{384 * 2100000 * 5180} = 0.1093 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

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

$$= \frac{(1000 + 320) \times 620\text{^}3}{48 * 2100000 * 5180} = 0.603 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

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

$$= \frac{0.603}{620} = \frac{1}{1029} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

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

$$= \frac{0.1093+0.603}{620} = \frac{1}{871} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
200×100×t7/10	2170	26	0.048	0.386	1 / 1036	1 / 922
⇨ 250×125×t7.5/12.5	5180	38.3	0.109	0.603	1 / 1029	1 / 871
300×150×t10/18.5	12700	65.5	0.283	0.912	1 / 1052	1 / 803
350×150×t9/15	15200	58.5	0.232	0.836	1 / 1184	1 / 927
400×150×t10/18	24100	72	0.247	0.723	1 / 1521	1 / 1134

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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불법복제 및 배포금지

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

$Ms = \dfrac{1.05 * 65.5 * 960\text{^}2}{8} = 79229$ kg-cm

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

$M_d = 1.254 \times \dfrac{(1000 + 320) * 960}{4} = 397267$ kg-cm

* 호이스트 자중 = 320 KG 용 량 : 1000 KG

* DYNAMIC COEFFICIENT : F = 1.254
* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 79229 + 397267 = 476496 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \dfrac{88.3 * 960}{2} = 42383.6$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)
= 23.66 x 1.2 x 3.11 = 88.30 (kg)

속도압 : $q = 8.5 \times \sqrt[4]{h(kg/m^2)} = 8.5 \times \sqrt[4]{60} =$ 23.66 (kg/㎡)

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (㎡)
= 2.8 + 0.31 = 3.11 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.31㎡

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)
200×100×t7/10	26	400	5460	165528	170988	31.52	6303.0	1.36
250×125×t7.5/12.5	38.3	620	19323	256568	275892	63.34	19636.2	2.23
⇨ 300×150×t10/18.5	65.5	960	79229	397267	476496	88.30	42383.6	3.11
350×150×t9/15	58.5	990	75253	409682	484935	105.33	52140.5	3.71
400×150×t10/18	72	1100	114345	455202	569547	151.07	76672.6	5.32

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

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7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

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

$$= \frac{476496}{849} = 561.2 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

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

$$= \frac{42383.6}{118} = 359.2 \quad (kg/cm^2)$$

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)
200×100×t7/10	218	27.7	170988	6303.0	784.3	227.5	1011.9
250×125×t7.5/12.5	414	53.9	275892	19636.2	666.4	364.3	1030.7
⇨ 300×150×t10/18.5	849	118	476496	42383.6	561.2	359.2	920.4
350×150×t9/15	870	93.5	484935	52140.5	557.4	557.7	1115.0
400×150×t10/18	1200	115	569547	76672.6	474.6	666.7	1141.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

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

$$= \frac{5 * 65.5 * 960\text{^}3}{384 * 2100000 * 12700} = 0.283 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

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

$$= \frac{(1000 + 320) \times 960\text{^}3}{48 * 2100000 * 12700} = 0.912 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

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

$$= \frac{0.912}{960} = \frac{1}{1052} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

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

$$= \frac{0.283+0.912}{960} = \frac{1}{803} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
200×100×t7/10	2170	26	0.048	0.386	1 / 1036	1 / 922
250×125×t7.5/12.5	5180	38.3	0.1093	0.603	1 / 1029	1 / 871
⇨ 300×150×t10/18.5	12700	65.5	0.2829	0.912	1 / 1052	1 / 803
350×150×t9/15	15200	58.5	0.2315	0.836	1 / 1184	1 / 927
400×150×t10/18	24100	72	0.2466	0.723	1 / 1521	1 / 1134

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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Ⅰ-8. Ⅰ-BEAM의 최대 지지거리

8-1. 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

$Ms = \dfrac{1.05 * 58.5 * 990\text{^}2}{8} = 75253$ kg-cm

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

$M_d = 1.254 \times \dfrac{(1000 + 320) * 990}{4} = 409682$ kg-cm

* 호이스트 자중 = 320 KG 용 량 : 1000 KG

* DYNAMIC COEFFICIENT : F = 1.254
* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 75253 + 409682 = 484935 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \dfrac{105.33 * 990}{2} = 52140.5$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)
= 23.66 x 1.2 x 3.71 = 105.33 (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)
= 3.4 + 0.310 = 3.71 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.31m^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)
200×100×t7/10	26	400	5460	165528	170988	31.52	6303.0	1.110
250×125×t7.5/12.5	38.3	620	19323.3	256568	275892	63.34	19636.2	2.231
300×150×t10/18.5	65.5	960	79229	397267	476496	88.30	42383.6	3.11
⇨ 350×150×t9/15	58.5	990	75253	409682	484935	105.33	52140.5	3.71
400×150×t10/18	72	1100	10395.0	455202	569547	139.40	76672.6	4.91

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

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불법복제 및 배포금지

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

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

$$= \frac{484935}{870} = 557.4 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

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

$$= \frac{52140.5}{93.5} = 557.7 \quad (kg/cm^2)$$

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)
200×100×t7/10	218	27.7	170988	6303.0	784.3	227.5	1011.9
250×125×t7.5/12.5	414	53.9	275892	19636.2	666.4	364.3	1030.7
300×150×t10/18.5	849	118	476496	42383.6	561.2	359.2	920.4
⇨ 350×150×t9/15	870	93.5	484935	52140.5	557.4	557.7	1115.0
400×150×t10/18	1200	115	569547	76672.6	474.6	666.7	1141.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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불법복제 및 배포금지

8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

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

$$= \frac{5 * 58.5 * 990\text{^}3}{384 * 2100000 * 15200} = 0.232 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

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

$$= \frac{(1000 + 320) \times 990\text{^}3}{48 * 2100000 * 15200} = 0.836 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

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

$$= \frac{0.836}{990} = \frac{1}{1184} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

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

$$= \frac{0.232+0.836}{990} = \frac{1}{927} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
200×100×t7/10	2170	26	0.048	0.386	1 / 1036	1 / 922
250×125×t7.5/12.5	5180	38.3	0.1093	0.603	1 / 1029	1 / 871
300×150×t10/18.5	12700	65.5	0.2829	0.912	1 / 1052	1 / 803
⇨ 350×150×t9/15	15200	58.5	0.2315	0.836	1 / 1184	1 / 927
400×150×t10/18	24100	72	0.2466	0.723	1 / 1521	1 / 1134

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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불법복제 및 배포금지

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

$Ms = \dfrac{1.05 * 72 * 1100\text{^}2}{8} = 114345$ kg-cm

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

$M_d = 1.254 \times \dfrac{(1000 + 320) * 1100}{4} = 455202$ kg-cm

* 호이스트 자중 = 320 KG 용 량 : 1000 KG

* DYNAMIC COEFFICIENT : F = 1.254
* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\sum M_v = M_s + M_d$ = 114345 + 455202 = 569547 kg-cm

2. 풍하중에 의한 굽힘 MOMENT

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

$M_w = \dfrac{139.4 * 990}{2} = 76672.6$ kg-cm

풍하중 : W = 속도압(q) × 속도계수(C) × 압력을 받는 면적(A) (kg)
= 23.66 x 1.2 x 4.91 = 139.40 (kg)

속도압 : $q = 8.5 \times \sqrt[4]{h(kg/m^2)} = 8.5 \times \sqrt[4]{60} =$ 23.66 (kg/㎡)

속도계수 : C = 1.2 (크레인 제작기준 참조)

풍압을 받는 면적 A = I-BEAM의 면적 + HOIST의 면적 (㎡)
= 4.6 + 0.310 = 4.91 (m^2)

* 호이스트의 풍압을 받는 면적 ≒ 0.31㎡

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)
200×100×t7/10	26	400	5460	165528	170988	31.52	6303.0	1.110
250×125×t7.5/12.5	38.3	620	19323.3	256568	275892	51.39	15930.8	1.81
300×150×t10/18.5	65.5	960	79229	397267	476496	88.30	42383.6	3.11
350×150×t9/15	58.5	990	75253	409682	484935	105.33	52140.5	3.71
⇨ 400×150×t10/18	72	1100	114345	455202	569547	139.40	76672.6	4.91

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

참조사항
KCS 한국승강기안전공단

9-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

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

$$= \frac{569547}{1200} = 474.6 \quad (kg/cm^2)$$

2. 풍하중에 의한 굽힘 응력

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

$$= \frac{76672.6}{115} = 666.7 \quad (kg/cm^2)$$

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)
200×100×t7/10	218	27.7	170988	6303.0	784.3	227.5	1011.9
250×125×t7.5/12.5	414	53.9	275892	15930.8	666.4	295.6	962.0
300×150×t10/18.5	849	118	476496	42383.6	561.2	359.2	920.4
350×150×t9/15	870	93.5	484935	52140.5	557.4	557.7	1115.0
⇨ 400×150×t10/18	1200	115	569547	76672.6	474.6	666.7	1141.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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불법복제 및 배포금지

9-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

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

$$= \frac{5 * 72 * 1100\text{^}3}{384 * 2100000 * 24100} = 0.247 \quad (cm)$$

2. 이동하중에 의한 처짐 (DEFLECTION)

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

$$= \frac{(1000 + 320) \times 1100\text{^}3}{48 * 2100000 * 24100} = 0.723 \quad (cm)$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

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

$$= \frac{0.723}{1100} = \frac{1}{1521} < \frac{1}{1000}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

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

$$= \frac{0.282+0.826}{1100} = \frac{1}{1134} < \frac{1}{800}$$

I-BEAM 규격	단면2차 MOMENT Ix	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에의한 처짐판정
200×100×t7/10	2170	26	0.048	0.386	1 / 1036	1 / 922
250×125×t7.5/12.5	5180	38.3	0.1093	0.603	1 / 1029	1 / 871
300×150×t10/18.5	12700	65.5	0.2829	0.912	1 / 1052	1 / 803
350×150×t9/15	15200	58.5	0.2315	0.836	1 / 1184	1 / 927
⇨ 400×150×t10/18	24100	72	0.2466	0.723	1 / 1521	1 / 1134

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

심사필 KCS 한국승강기안전공단

불법복제 및 배포금지

Ⅳ. 참 고 도 서

심사필
한국승강기안전공단

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	
	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.

한국승강기안전공단

불법복제 및 배포금지

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	
	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.

불법복제 및 배포금지

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	
	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.

불법복제 및 배포금지

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	
	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.

불법복제 및 배포금지

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	
	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.

한국기술안전공단

불법복제 및 배포금지

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	
	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

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

한국산업안전공단 산업안전

불법복제 및 배포금지

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	
	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.

불법복제 및 배포금지

한국승강기안전공단 검사필

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-30	3 SEC	1 SEC	4.0 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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한국산업안전공단 승인

불법복제 및 배포금지

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	1.2KW x 8P	3.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.4KW x 4P	5%	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

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한국승강기안전공단 검사품

불법복제 및 배포금지

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-30	3 SEC	1 SEC	3.6 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	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.

무단복제 및 배포금지

한국승강기안전공단 검사용

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3¢ 220V 60Hz

극동호이스트 (주)

MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
				DELAY TIME	OPERATION TIME	CURRENT	
0.2KW x 6P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
0.4KW x 4P	2.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	5.4 A	
0.5KW x 6P	3.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.8 A	
0.75KW x 4P	4.1 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.2 A	
1.0KW x 6P	6.7 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	13.4 A	
1.5KW x 4P	7.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14.6 A	
1.5KW x 6P	7.6 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.2 A	
2.2KW x 4P	10 A	1 DRIVE	SS - 30	3 SEC	1 SEC	10 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	20 A	
0.8/0.4KW x 4/8P	4.8/4.25 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
			SS - 06	3 SEC	1 SEC	4.25 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	9.6 A	
			SS - 30	3 SEC	1 SEC	8.5 A	
2.2KW x 6P	12 A	1 DRIVE	SS - 30	3 SEC	1 SEC	12 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	24 A	
3.7KW x 4P	16 A	1 DRIVE	SS - 30	3 SEC	1 SEC	16 A	
		2DRIVE	SS - 60	3 SEC	1 SEC	32 A	

NOTE

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

불법복제 및 배포금지

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3¢ 380V 60Hz

극동호이스트 (주)

MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
				DELAY TIME	OPERATION TIME	CURRENT	
0.2KW x 6P	1.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.2 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
0.4KW x 4P	1.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.6 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.2 A	
0.5KW x 6P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
0.75KW x 4P	2.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
1.0KW x 6P	3.9 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.9 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.8 A	
1.5KW x 4P	4.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.4 A	
1.5KW x 6P	4.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.8 A	
2.2KW x 4P	5.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.8 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	11.6 A	
0.8/0.4KW x 4/8P	2.78/2.63 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.78 A	
			SS - 06	3 SEC	1 SEC	2.63A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	5.48 A	
			SS - 30	3 SEC	1 SEC	5.26 A	
2.2KW x 6P	7.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14 A	
3.7KW x 4P	9.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	9.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	18.6 A	

NOTE

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

무단복제 및 배포금지

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3¢ 440V 60Hz

극동호이스트 (주)

MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
				DELAY TIME	OPERATION TIME	CURRENT	
0.2KW x 6P	1.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
0.4KW x 4P	1.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.4 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.8 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.7 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
1.0KW x 6P	3.3 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.6 A	
1.5KW x 4P	3.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.4 A	
1.5KW x 6P	3.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.6 A	
2.2KW x 4P	5.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.0 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	10 A	
0.8/0.4KW x 4/8P	2.4/2.27 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
			SS - 06	3 SEC	1 SEC	2.27 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
			SS - 06	3 SEC	1 SEC	4.54 A	
2.2KW x 6P	6.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12.0 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	16 A	

NOTE

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

무단복제 및 배포금지

한국승강기안전공단 KCS 사본

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3¢ 460V 60Hz

극동호이스트 (주)

MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
				DELAY TIME	OPERATION TIME	CURRENT	
0.2KW x 6P	1.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
0.4KW x 4P	1.3 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.3 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.6 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.7 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
1.0KW x 6P	3.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
1.5KW x 4P	3.5 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
1.5KW x 6P	3.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.2 A	
2.2KW x 4P	4.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	9.6 A	
0.8/0.4KW x 4/8P	2.3/2.15 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.3 A	
			SS - 06	3 SEC	1 SEC	2.15 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	4.6 A	
			SS - 06	3 SEC	1 SEC	4.3 A	
2.2KW x 6P	4.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.6 A	
3.7KW x 4P	7.7 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.4 A	

NOTE

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

무단복제 및 배포금지

한국산업안전공단 산업안전보건연구원

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Ø 480V 60Hz

극동호이스트 (주)

MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
				DELAY TIME	OPERATION TIME	CURRENT	
0.2KW x 6P	0.9 A	1 DRIVE	SS - 06	3 SEC	1 SEC	0.9 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	1.8 A	
0.4KW x 4P	1.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.2 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
0.5KW x 6P	1.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.6 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.2 A	
0.75KW x 4P	1.9 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.9 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.8 A	
1.0KW x 6P	3.1 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	4.2 A	
1.5KW x 4P	3.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.8 A	
1.5KW x 6P	3.5 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
2.2KW x 4P	4.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.6 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	9.2 A	
0.8/0.4KW x 4/8P	2.22/2.05 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.22 A	
			SS - 06	3 SEC	1 SEC	2.05 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	4.44 A	
			SS - 06	3 SEC	1 SEC	4.1 A	
2.2KW x 6P	4.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.2 A	
3.7KW x 4P	7.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14.6 A	

NOTE

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

무단복제 및 배포금지

한국승강기안전공단 검사용

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	10.0 A
12. STARTING CURRENT AT RATED VOLTAGE	56.0 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	75.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	2.56 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KGS 한국산업안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	5.8 A
12. STARTING CURRENT AT RATED VOLTAGE	43.2 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	2.56 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KCS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	5.0 A
12. STARTING CURRENT AT RATED VOLTAGE	29.7 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	75.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	2.56 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KGS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	4.9 A
12. STARTING CURRENT AT RATED VOLTAGE	25.49 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	75.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	2.56 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	4.8 A
12. STARTING CURRENT AT RATED VOLTAGE	24.97 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	75.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	2.56 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KGS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	1.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	8.0 A
12. STARTING CURRENT AT RATED VOLTAGE	41.3 A
13. MINIMUM STARTING VOLTAGE	220 V
14. EFFICIENCY AT 100% RATED LOAD	71.0 %
15. POWER FACTOR AT 100% RATED LOAD	51.5 %
16. STARTING TORQUE	3.62 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6208zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KCS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	1.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	4.6 A
12. STARTING CURRENT AT RATED VOLTAGE	23.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	71.0 %
15. POWER FACTOR AT 100% RATED LOAD	51.5 %
16. STARTING TORQUE	3.62 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6208zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	1.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	4.0 A
12. STARTING CURRENT AT RATED VOLTAGE	20.5 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	71.0 %
15. POWER FACTOR AT 100% RATED LOAD	51.5 %
16. STARTING TORQUE	3.62 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6208zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KCS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	1.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	3.8 A
12. STARTING CURRENT AT RATED VOLTAGE	19.8 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	71.0 %
15. POWER FACTOR AT 100% RATED LOAD	51.5 %
16. STARTING TORQUE	3.62 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6208zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 KGS 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 S
4. RATED POWER	1.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	18.9 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	71.0 %
15. POWER FACTOR AT 100% RATED LOAD	51.5 %
16. STARTING TORQUE	3.62 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6208zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1660 RPM
11. FULL LOAD CURRENT	2.7 A
12. STARTING CURRENT AT RATED VOLTAGE	11.2 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.515 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1660 RPM
11. FULL LOAD CURRENT	1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	7.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.515 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1660 RPM
11. FULL LOAD CURRENT	1.4 A
12. STARTING CURRENT AT RATED VOLTAGE	6.71 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.515 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

검사필 한국승강기안전공단

불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1660 RPM
11. FULL LOAD CURRENT	1.3 A
12. STARTING CURRENT AT RATED VOLTAGE	6.61A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.515 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1660 RPM
11. FULL LOAD CURRENT	1.2 A
12. STARTING CURRENT AT RATED VOLTAGE	6.42 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.515 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	9.4 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	56.0 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. STARTING TORQUE	0.25 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6202zz OPL : 6202zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050 RPM
11. FULL LOAD CURRENT	1.2 A
12. STARTING CURRENT AT RATED VOLTAGE	6.6 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	56.0 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. STARTING TORQUE	0.25 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6202zz OPL : 6202zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050 RPM
11. FULL LOAD CURRENT	1.0 A
12. STARTING CURRENT AT RATED VOLTAGE	5.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	56.0 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. STARTING TORQUE	0.25 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6202zz OPL : 6202zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

사 본
한국승강기안전공단

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THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050 RPM
11. FULL LOAD CURRENT	0.97 A
12. STARTING CURRENT AT RATED VOLTAGE	4.07 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	56.0 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. STARTING TORQUE	0.25 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6202zz OPL : 6202zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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불법복제 및 배포금지

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 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 TEMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050 RPM
11. FULL LOAD CURRENT	0.93 A
12. STARTING CURRENT AT RATED VOLTAGE	4.03 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	56.0 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. STARTING TORQUE	0.25 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6202zz OPL : 6202zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 ℃
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

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KISWIRE

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

MILL TEST CERTIFICATE

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

OF KSD 3514 - 2002 (B Grade)

TO MESSRS KISWIRE LTD

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

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

TYPE KSD 3514-1997

EX NO. PW10105-8

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

DIAMETER OF ROPE 08.00 mm TYPE OF CORE POLYPROPYLENE

SPECIFIED NOMINAL

BREAKING STRENGTH 37.90 kN SAMPLE BROKE AT 42.96 kN

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

ROPE LAY RHRL LAY LENGTH 85.15 mm

LUBRICATION A-3

CHEMICAL ANALYSIS OF WIRE ROD

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

ISO 9001 REGISTERED DNV MGMT SYS RvA C 024

ABS TYPE APPROVAL PROGRAM

DATE OF SAMPLE TEST *21. Oct, 2010*

Q.A . MANAGER
KISWIRE

검사필 KCS 한국승강기안전공단

불법복제 및 배포금지

ORIGINAL

D|S|R DSR CORP

SALES OFFICE : Woosin Bldg. 7F, 646-15, Yeoksam-dong, Gangnam-gu, Seoul, 135-911, Korea
TEL : 82-2-3420-3500, FAX : 82-2-3420-3600, E-mail : sales@dsrcorp.com, http : //www.dsrcorp.com

FACTORY : TEL : 82-61-762-8351, FAX : 82-61-762-8354

MILL TEST CERTIFICATE / CERTIFICATE OF INSPECTION

Cert. No. : 20130527 - 002
Invoice No. : DO
P.O. No. : -
L/C No. : -

Date : May. 27, 2013
Reel No : 1
Sampling No : 1
Purchaser : .

1. TYPE / GRADE

Construction : 7 X 19
Grade : AISI 304
Lay : RHRL

Diameter : 8.00 MM
Length : 1,525 Mtrs X 1 R/L
Specification : DSR C 206

2. ROPE TEST RESULTS

Items	Norminal or Specified	Actual
Diameter	8.00 ~ 8.40 MM	8.090 MM
Breaking Strength	40.18 KN	47.70 KN
Lay Length	6.0 ~ 8.0 x Cable Dia	6.7 x Cable Dia
Preforming	Good	Good

3. WIRE TEST RESULTS

Items / No	Diameter		Tensile Strength	
	Nominal	Actual	Nominal	Actual
1	0.480 - 0.520 MM	0.519 MM	1810 N/mm2	2123 N/mm2

Chemical Composition (%)

Heat No	C	Si	Mn	P	S	Ni	Cr				
S10086	0.065	0.472	1.127	0.0304	0.0022	8.331	18.178				

Remark

2-IAO-QMC-01022 TGA-ZM-13-96-00

BY J.B.JOO
Chief Inspector

Comment : Manufactured in accordance with Quality Management System approved to ISO 9001 : 2008