



심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(15423) 경기도 안산시 단원구 해봉로 119(성곡동)		

안전인증대상 기계·기구명

호이스트 [동일형식인정 - “별첨(3모델)”]

형 식 (규 격)	KDC2.8-L	용 량 (등 급)	2.8 Ton
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산업안전보건법 제 84조 및 같은 법 시행규칙 제110조에 따라 실시한

- ☐ 예비심사
- ☒ 서면심사
 - ☐ 기술능력 및 생산체제 심사
 - ☐ 개별 제품심사
 - ☐ 개별 제품심사(제작중)
 - ☐ 형식별 제품심사

결과가 [V] 적 합
[] 부적합

합을 통지합니다.

2020년 10월 19일

인증심사원

이승태 이남진 고재욱

이 승 태

(서명 또는 인)

한국산업안전보건공단 이사장





제2021 - 2185899 호

안 전 인 증 서

(사업장명) 극동호이스트(주)

(소 재 지) (15423)경기도 안산시 단원구 해봉로 119(성곡동)

위 사업장에서 제조하는 아래의 품목이 산업안전보건법 제84조 및 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

_____ 품 목 _____

호이스트 (국내품)

_____ 형식,모델(용량,등급)/인증번호 _____

KDC2.8-L (2.8Ton) / 21-AH2AC-00025

_____ 인 증 기 준 _____

고용노동부 고시 제2020 - 41호 (위험기계·기구 안전인증 고시)

_____ 인 증 조 건 _____

(15423)경기도 안산시 단원구 해봉로 119(성곡동)에서 생산된 동일 형식 제품에 한함

2021년 11월 04일

한국산업안전보건공단 이사장



서 면 심 사 서 류

형식 번호 : KDC2.8-L

극 동 호 이 스톱 (주)



工場 : 경기도 안산시 단원구 해봉로 119 (성곡동)

電話 : 031) 491 - 5311

FAX : 031) 492 - 0473

안전보건공단

동 일 형 식 일 램 표

사업장명		극동호이스트(주)		개정일자 및 번호		인증번호	비 고
형식 및 모델		동일 형식 인정범위 및 내역					
형식	모델	권상속도 (m/min)	회행속도 (m/min)	양정 (m)	회행방식		
KDC2.8-L	KDC2.8-L6-L	MAIN : 9 (m/min) CREEP : 4.5 (m/min)	고속 : 24 (m/min) (INVERTER : 2~24 m/min) 저속 : 16 (m/min) (INVERTER : 2~16 m/min)	6	모터 구동식		
	KDC2.8-L9-L			9			
	KDC2.8-L12-L			12			
						회행 inverter 포함	



제 2012-BJ-0009 호



안 전 인 증 서

정호엔지니어링

경기도 광명시 노동사동 440-5

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

품 목

양중기용 과부하방지장치

형식·모델/용량·등급/인증번호

형식·모델

JDL-100

용량·등급

J-2

인증번호

12-AV2BJ-0009

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

아래 주소에서 생산되는 제품에 한함.

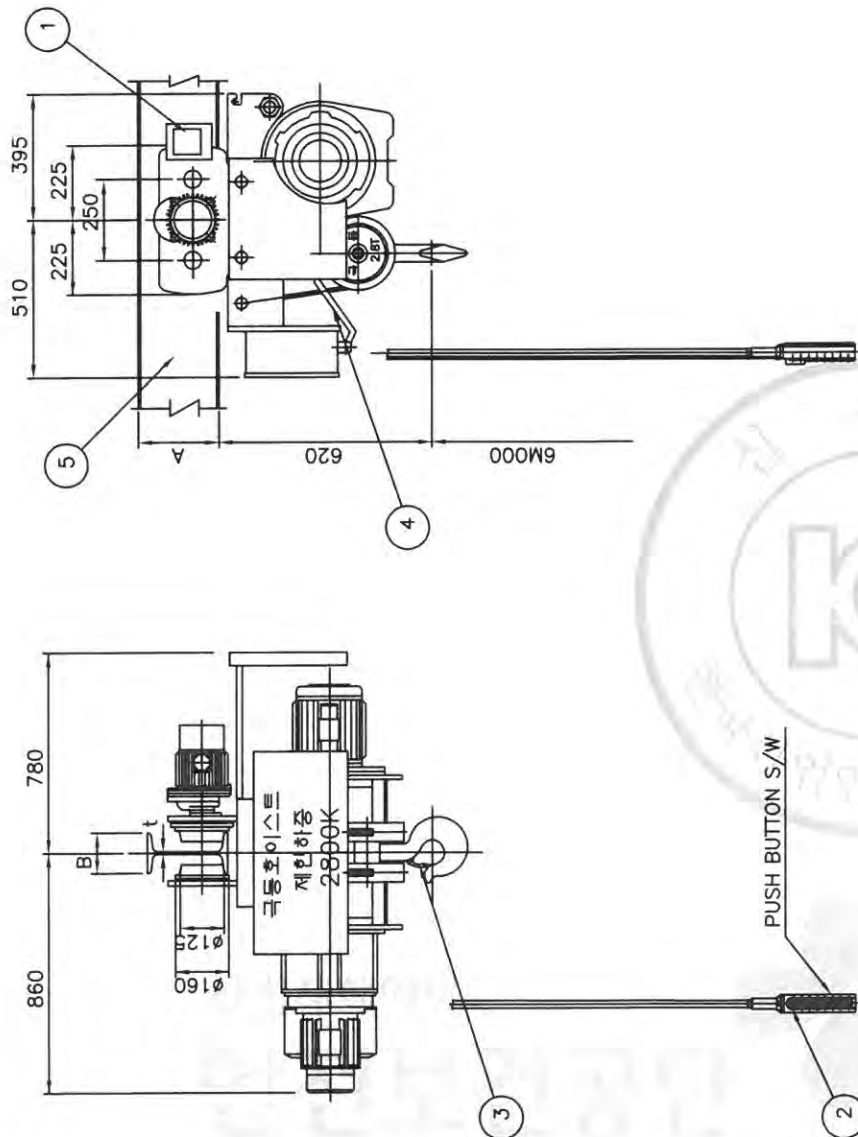
정호엔지니어링, 경기도 광명시 노동사동 440-5

2012년 06월 11일

한국산업안전보건공단 이사장



형식번호	KDC2.8-L
모델명	KDC2.8-L6-L



TRAVERSING I - BEAM		I _x (Cm ⁴)	Z _x (Cm ³)	C	적 용 (m)
A × B × t					
I	250 × 125 × 7.5	5180	414	450	3.8
I	300 × 150 × 10	12700	849	465	6.0
I	350 × 150 × 9	15200	871	465	6.5
I	400 × 150 × 10	24000	1200	465	8.3
I	450 × 175 × 11	39200	1740	465	10.5

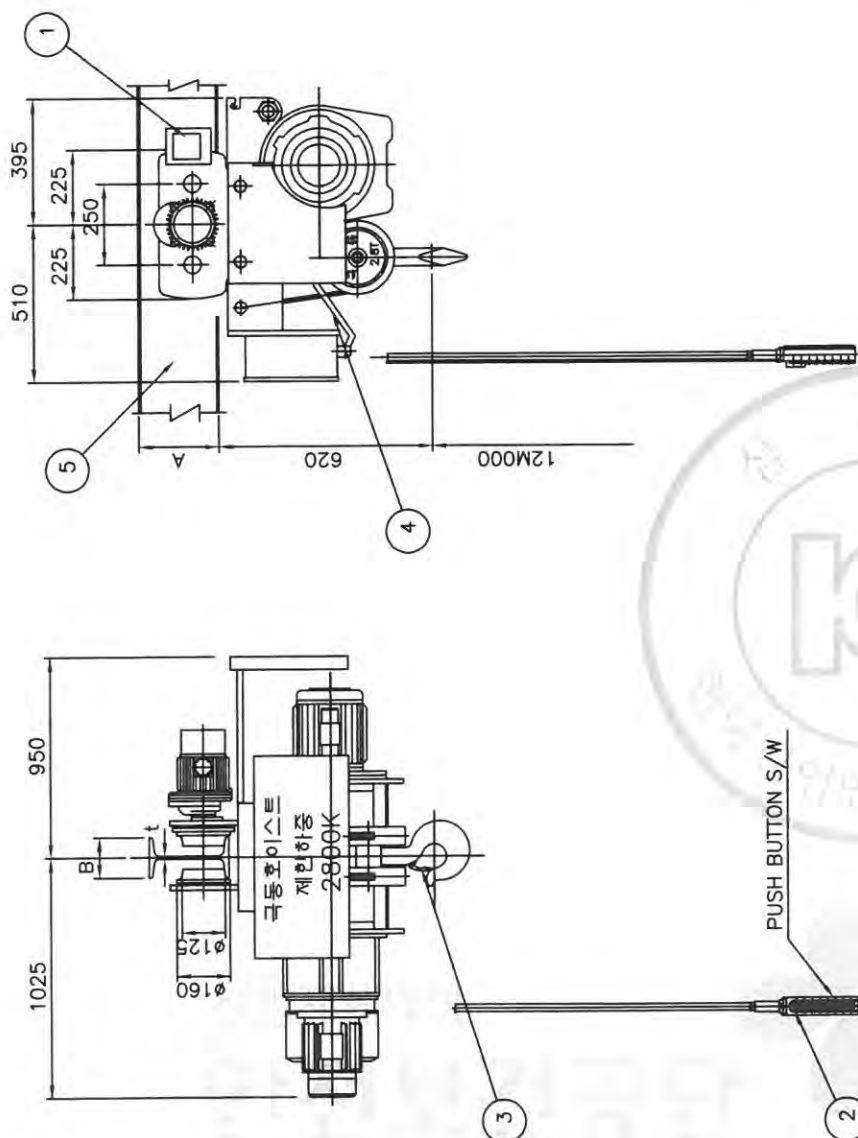


SPECIFICATION			
RATED LOAD		2800 KG	
TESTING LOAD		3500 KG	
LIFT		6 M	
RATING		30 MIN	
HOISTING	SPEED	9 / 0.9 M/MIN	
	MOTOR	5.0 / 1.5 KW x 4 P	
TRAVERSING	HIGH	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)
		MOTOR	0.75 KW x 4 P
	LOW	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)
		MOTOR	0.5 KW x 6 P
WIRE ROPE		(6x36) ø9 x 4 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480) 60Hz	
COLOR		10 B 3/5	
WEIGHT		545 KG	

5	I-BEAM	SS275	-			TABLE 합조
4	UPPER LIMIT S/W	SS275	1			
3	SAFETY LATCH	SPC	1			
2	EMERGENCY S/W	—	1			
1	LOAD LIMITER	—	1			
No.	DESCRIPTIONS	MT'L	SET QTY	UNIT WEIGHT KG.	TOTAL WEIGHT KG.	REMARKS
PROJECT						DATE
TITLE		KDC2.8 - L6 - L				SCALE
		ARRANGEMENT DRAWING FOR HOIST				A3 / 20 /
DRAWN	DESIGNED	CHECKED	APPROVED			REF DRAWING
 Kukdong Hoist Co., Ltd.		SHEET NO.		DRAWING NO.		KDC28L600

SPECIFICATION			
RATED LOAD		2800	KG
TESTING LOAD		3500	KG
LIFT		12	M
RATING		30	MIN
HOISTING	SPEED	9 / 0.9 M/MIN	
	MOTOR	5.0 / 1.5 KW x 4 P	
TRAVERSING	HIGH	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)
		MOTOR	0.75 KW x 4 P
	LOW	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)
		MOTOR	0.5 KW x 6 P
WIRE ROPE		(6x36) ø9 x 4 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480) 60Hz	
COLOR		10 B 3/5	
WEIGHT		685 KG	

5	I-BEAM	SS275	-				TABLE 참조
4	UPPER LIMIT S/W	SS275	1				
3	SAFETY LATCH	SPC	1				
2	EMERGENCY S/W	—	1				
1	LOAD LIMITER	—	1				
NO.	DESCRIPTIONS	MT'L	SET QTY	UNIT	TOTAL WEIGHT KG.		REMARKS
PROJECT		DATE					
		200					
TITLE		SCALE					
		A3 / 20 /					
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING			
 KUK DONG HOIST CO., LTD.		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.	
						KDC28L1200	



TRAVERSING I - BEAM		I _x (Cm ⁴)	Z _x (Cm ³)	C	x _g (m)
A x B x t					
I 250 x 125 x 7.5		5180	414	450	3.8
I 300 x 150 x 10		12700	849	465	6.0
I 350 x 150 x 9		15200	871	465	6.5
I 400 x 150 x 10		24000	1200	465	8.3
T 450 x 175 x 10		39200	1740	490	10.5

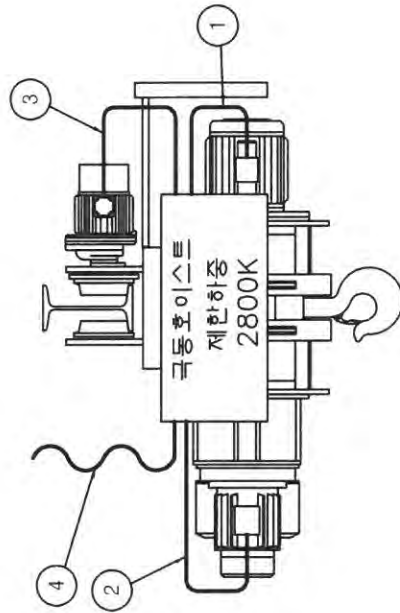
ELECTRICAL SPECIFICATION

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

CONTROL SOURCE : AC 1Φ 110V(120V) 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440,460,480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	5.0KW x 4P	23.00 A	6.0 sq	12.20 A	4.0 sq	10.5 A	10.0 A	9.6 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	1.5KW x 4P	7.30 A	2.5 sq	4.20 A	2.5 sq	3.7 A	3.5 A	3.4 A	2.5 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	2.5 sq	2.40 A	2.5 sq	2.00 A	2.00 A	1.90 A	2.5 sq	DC MAG. BRAKE	1 DRIVE
	LOW	3.40 A	2.5 sq	2.00 A	2.5 sq	1.70 A	1.70 A	1.60 A	2.5 sq	DC MAG. BRAKE	1 DRIVE
CONTROL CIRCUIT		1 A	2.5 sq	1 A	2.5 sq	1 A	1 A	1 A	2.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL		28.10 A	10.0 sq	15.60 A	6.0 sq	13.50 A	13.00 A	12.50 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	

* 위 계산은 MAIN HOIST와 T/S HIGH를 적용하여 계산함.



집

1. 전기장치 외합접지는 접지단자를 이용하여 설치해야 하며
 - 1) 400볼트 미만일 때 100오옴 이하일 것
 - 2) 400볼트 이상일 때 10오옴 이하일 것
2. 접지단자에는 다음중 하나의 방법으로 표기
 - 1) 기호로 표현하는 경우: 
 - 2) 문자로 표기하는 경우: PE
 - 3) 녹색 또는 녹색 및 황색 조합 접지선

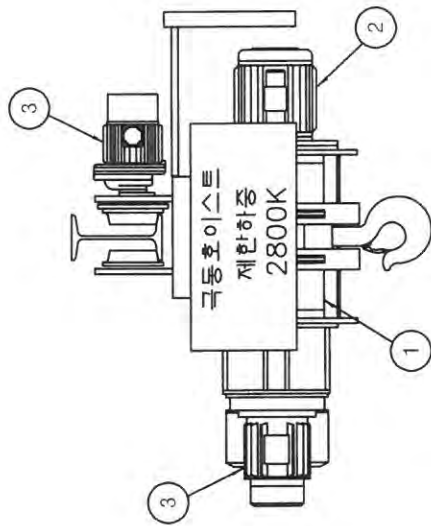
본 도면은 EARTH를 명기하기 위한 도면으로서
실제 배치와 다를 수 있으며 HOIST 본체와의
EARTH용 CABLE은 REFERENCE임

1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호본딩회로에는 계폐기, 과전류보호장치기 부착되지 않아야 한다.

NO	CABLE						REMARK
	TYPE	SIZE		TYPE	SIZE		
1	HOIST	VCT	6.0sqx4c	4.0sqx5c	VCT	4.0sqx5c	HOIST MOTOR WITH EARTH
2	CREEP	VCT	2.5sqx4c	2.5sqx5c	VCT	2.5sqx5c	CREEP MOTOR WITH EARTH
3	T/S	VCT	2.5sqx4c	+ 2.5sqx3c	VCT	2.5sqx4c + 2.5sqx3c	T/S MOTOR WITH EARTH
4	MAIN	VFCT	10sqx4c	6.0sqx4c	VFCT	4.0sqx4c	MAIN POWER WITH EARTH

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

[illegible]



		ELECTRIC WIRE ROPE HOIST			
MODEL		RATING			
CAPACITY	Kg	LIFT	m		
HOIST SPEED	m/min	POWER SOURCE	V	HZ	
HOIST MOTOR	Kw	P	AMP.S	R&T HOIST	A
TRAV.SPEED	m/min		AMP.S	R&T TRAV.	A
TRAV.MOTOR	Kw	P	WIRE ROPE		Ø
WIDTH OF RAIL	mm		WEIGET		Kg
DATE		SERIAL			

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

	3 PHASE INDUCTION MOTOR			
	KW	P TYPE	TENV	
VOLTS		VIRATING	min	
AMP.S	A	AMP.TEMP	40	
HEARTS		INS.GLASS	F	
R.P.M		BEARING		
ROTOR	C	BEARING		
SERIAL		DATE		
KUKDONG HOIST CO.,LTD				

MK	DATE	REVISIONS				CHK.	APP.	DRAWING TITLE	CUSTOMER	WIRE HOIST NAMEPLATE	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.	
 KUK DONG HOIST CO., LTD.										DWG. NO		KDC28D0601						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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NO	DESCRIPTION	CABLE SIZE
1	MAIN EARTH LINE	USER SCOPE
2	POWER SOURCE	USER SCOPE
3	TROLLEY BAR	USER SCOPE
4	POWER SOURCE WITH EARTH	USER SCOPE
5	HOIST POWER SOURCE WITH EARTH	220V : VFCI 10SD x 1C 380V : VFCI 6SD x 1C 440/660/480V : VFCI 4SD x 1C
6	HOISTING MOTOR WITH EARTH	220V : VCT 6.0SD x 1C 380/440/480/480V : VCT 6.0SD x 1C
7	CREEP MOTOR WITH EARTH	VCT 2.5SD x 1C
8	TRAVERSING MOTOR WITH EARTH	VCT 2.5SD x 1C

* CV CABLE 4C 중 1C는 EARTH로 사용함.

접지

1. 전기장치 외함접지는 접지단자를 이용하여 설치해야 하며

- 1) 400볼트 미만일 때 100오옴 이하일 것
- 2) 400볼트 이상일 때 10오옴 이하일 것

2. 접지단자에는 다음중 하나의 방법으로 표기

- 1) 기호로 표현하는 경우: ⊕
- 2) 문자로 표기하는 경우:PE
- 3) 녹색 또는 녹색 및 황색 조합 접지선

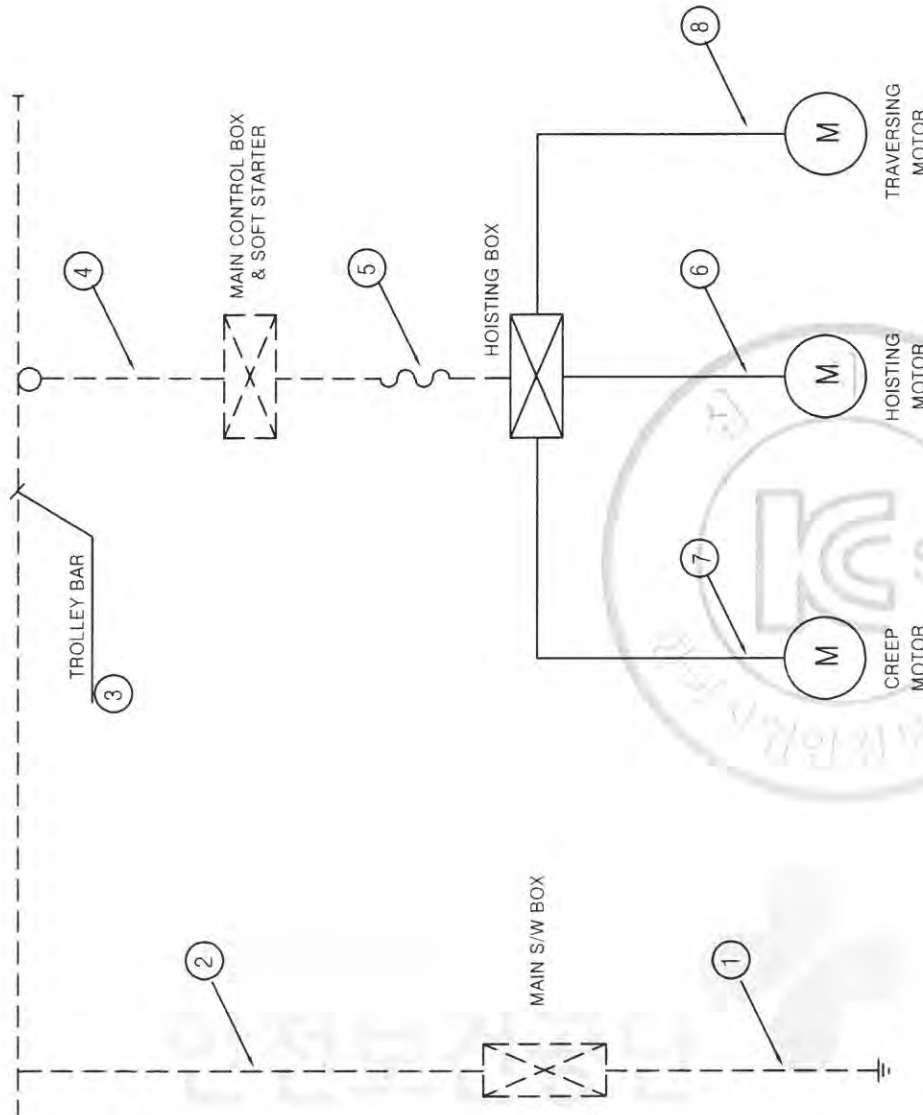
동전위접지

1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며

적절한 접지연속성 기능이 유지되어야함.

2. 보호본딩회로에는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

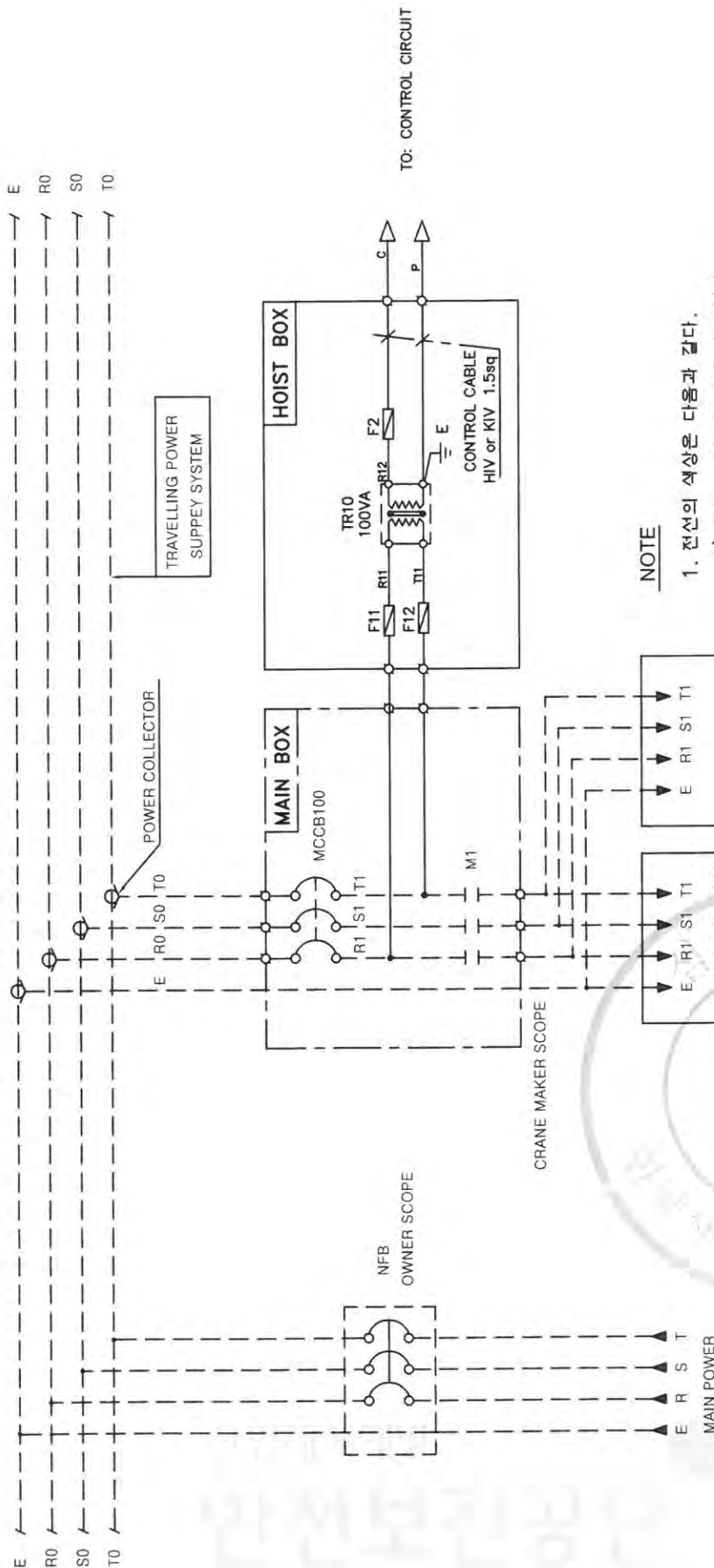
시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0



---	USER SCOPE
---	KUKDONG SCOPE

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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



NOTE

1. 전선의 색상은 다음과 같다.

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

2. 제어용 전선 : 1.5mm KIV, H/V

3. 제작시 다소 변경 될수있음.

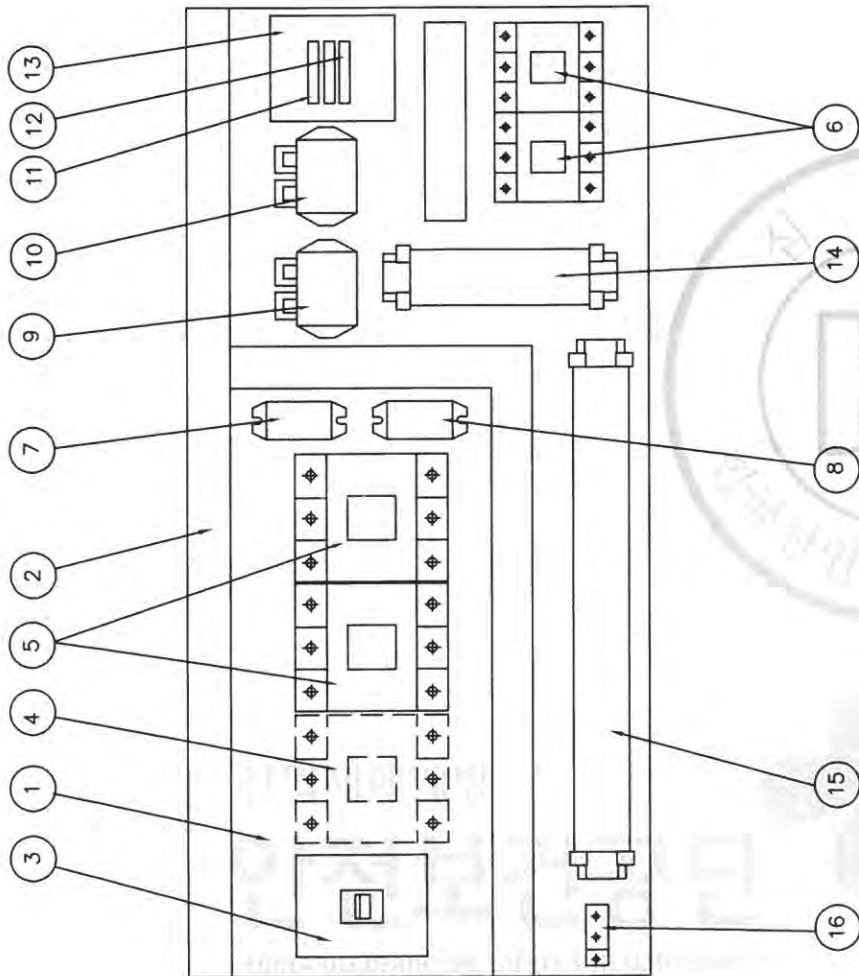
4. 외함 개방구조는 다음과 같을것.

외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

POWER SOURCE
AC 3ø 60Hz

SELECTION	VOLTAGE	F11 F12	F13	MCCB100	TRIP
	220V	2A	3A	50AF/50AT	220/110,120V 100VA
	380V	1A	3A	30AF/30AT	380/110,120V 100VA
	440V	1A	3A	30AF/30AT	440/110,120V 100VA
	460V	1A	3A	30AF/30AT	460/110,120V 100VA
	480V	1A	3A	30AF/30AT	480/110,120V 100VA

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						KDC28E001
DWG. NO						
MAIN POWER CIRCUIT 1						
DIAGRAM						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
CHK. APP.						
DATE						



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



- NOTE 1. 전선의 색상은 다음과 같다.
- 1) 흑색 : 교류 및 직류 전원선으로 5) 청색 : 직류 제어회로
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV,HIV
 4. 제작시 다소 변경 될수있음.
 5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 충전부분이 차단되도록 함것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	50AF/50AT	1	HOISTING
4	MAGNET CONTACTOR	DMC40b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC65	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-30	1	CREEP HOIST
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

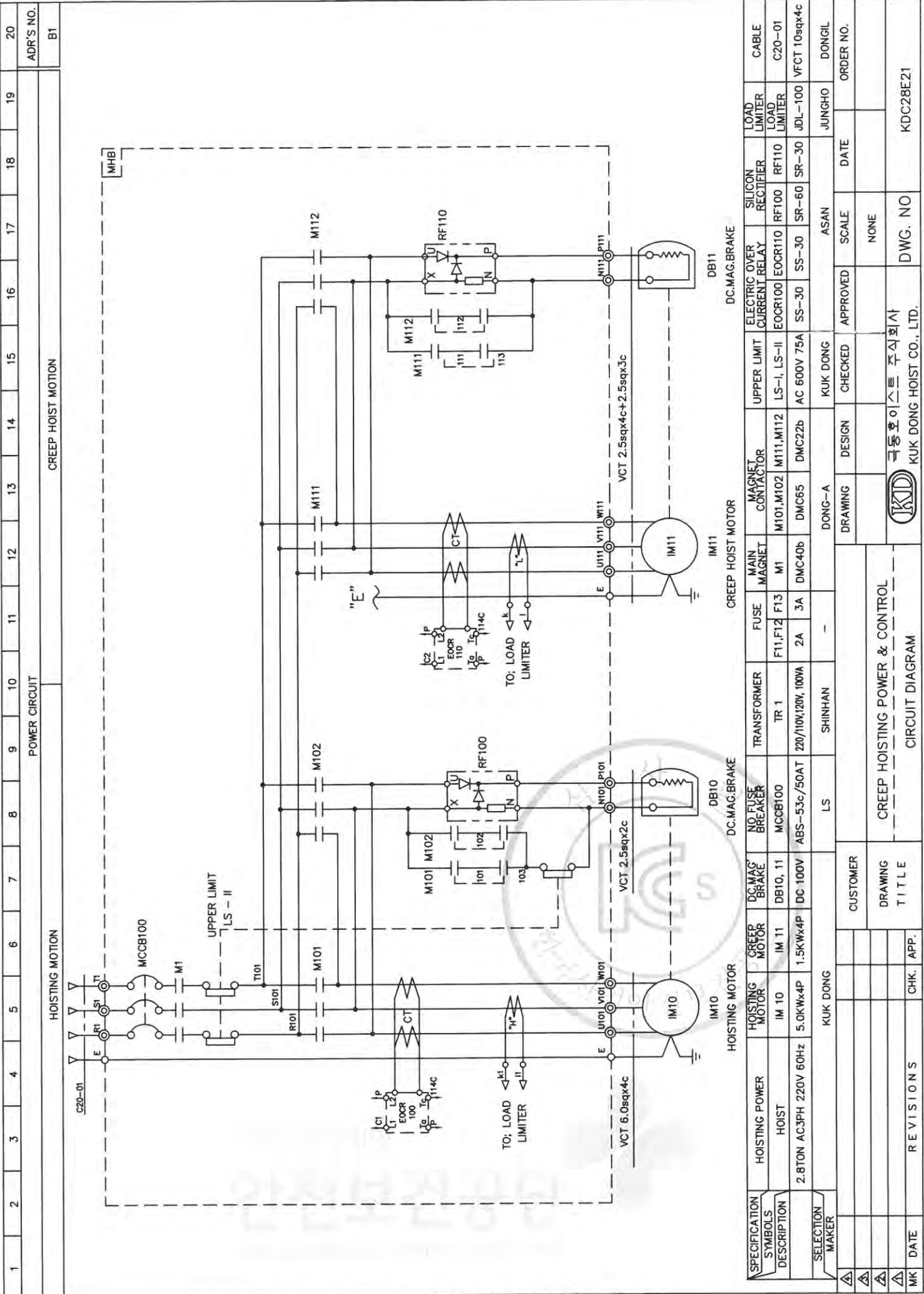
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO KDC28BA21
HOIST CONTROL BOX ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
DATE	REVISIONS	CHK.	APP.			



NOTE

1. 전선의 색상은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전원선도
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼합 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV,HIV
4. 제지시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
 - 1) 외함 개방시 충전부분이 차단되도록 할것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 차단 전속 방호조

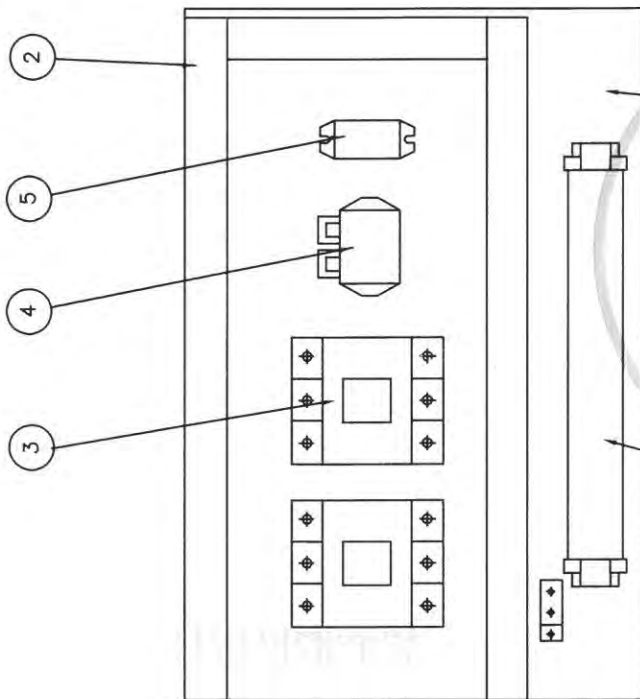
[illegible]



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ADR'S NO.																			



NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 1.5sq

3. 제어용 전선 : 1.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

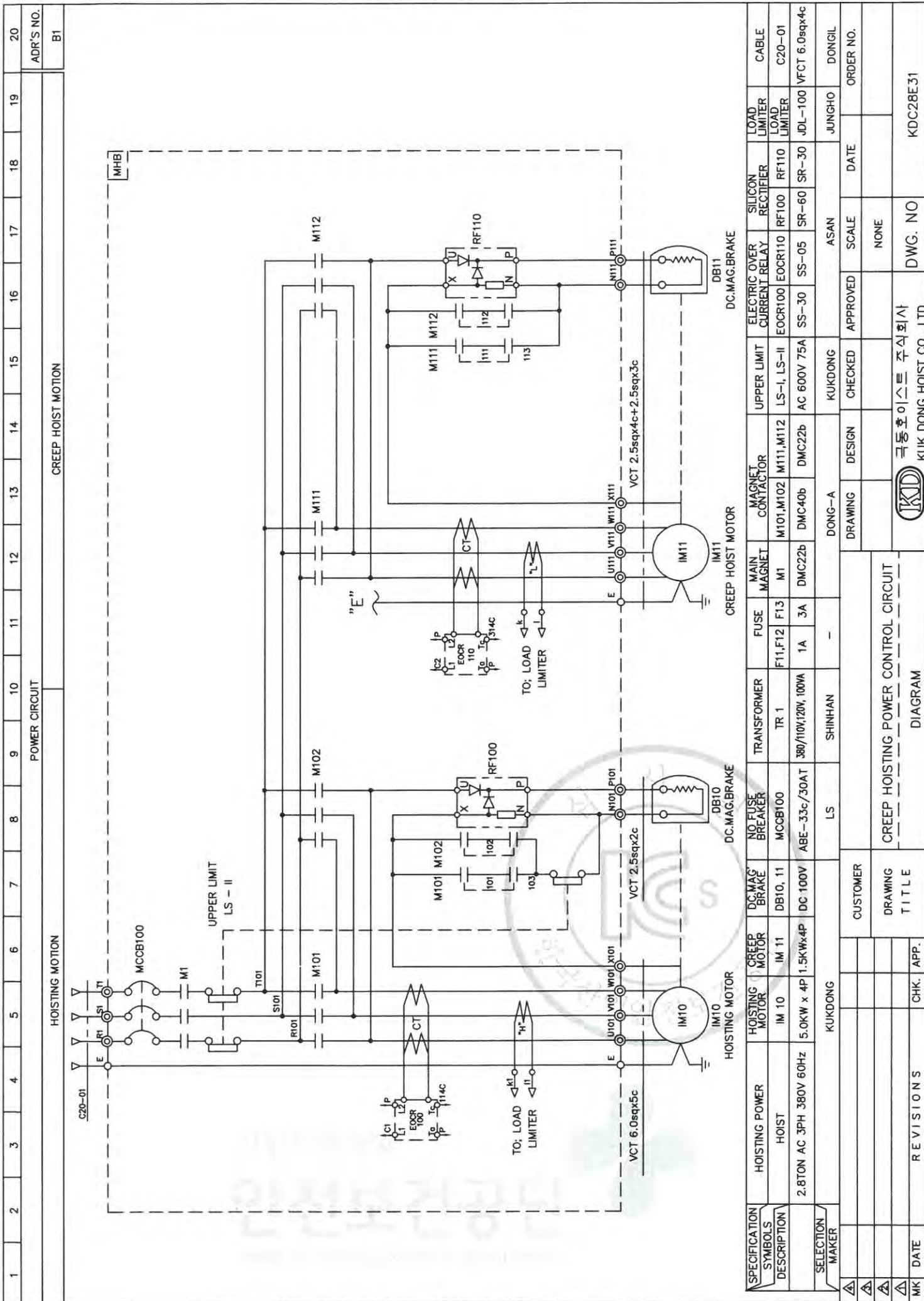
5. 외함 개방구조는 다음과 같을것.

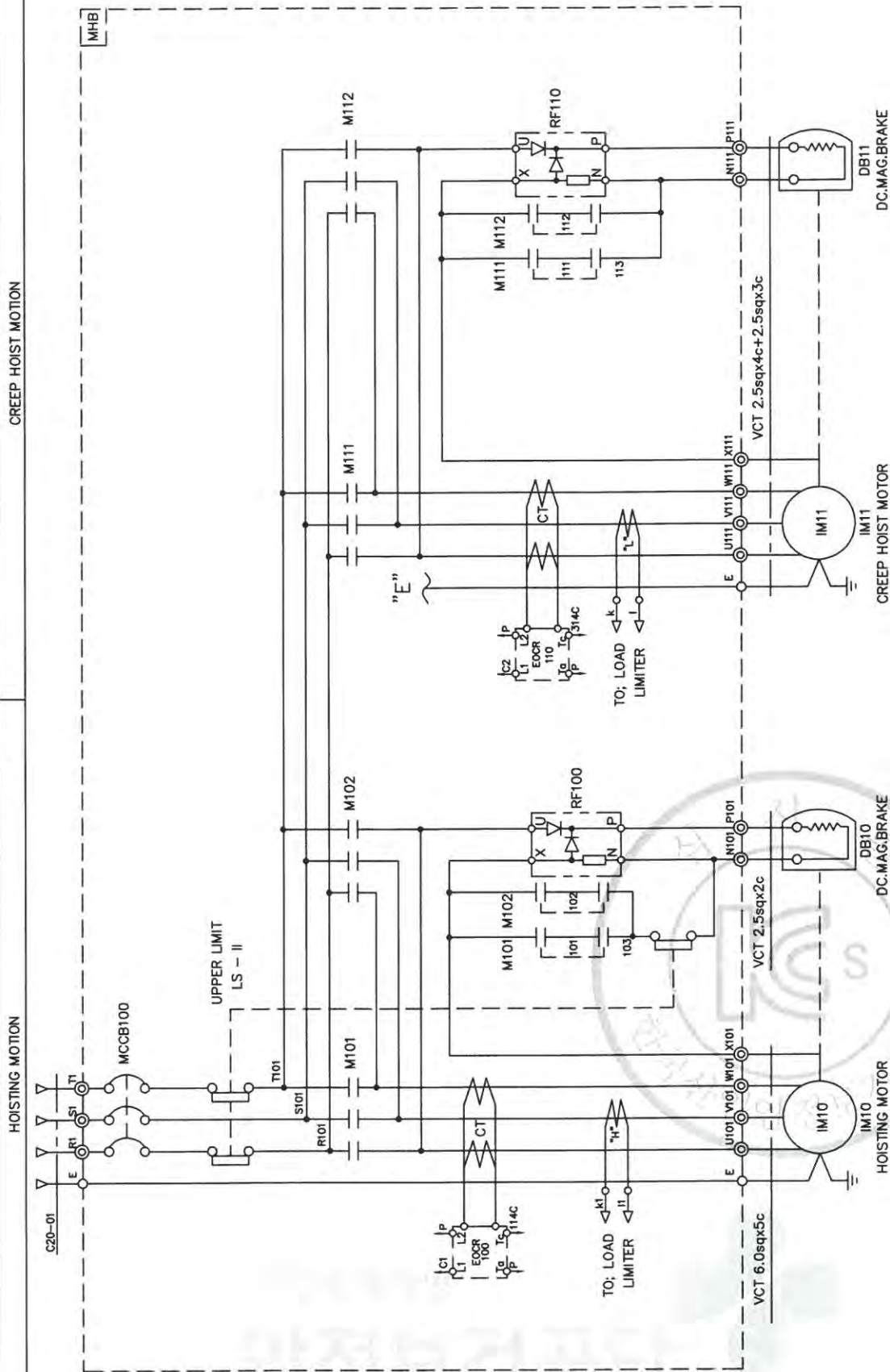
1) 외함 개방시 중전부분이 차단되도록 할것.

2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 접촉 방호가 되어있을것.



MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
							TRAVERSING POWER CONTROL BOX				NONE		
							ARRANGEMENT DRAWING						
							 KUK DONG HOIST CO., LTD.				DWG. NO		KDC28bt32





SPECIFICATION SYMBOLS DESCRIPTION	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAGNET CONTACTOR		UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
	HOIST	IM 10	IM 11	DB10, 11	MCCB100	TR 1	F11, F12	F13	M101, M102	M111, M112	LS-I, LS-II	EOCR100	RF100	RF110	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	1.5KWx4P	DC 100V	ABE-33c/30AT	380/110V;120V, 100VA	1A	3A	DMC40b	DMC22b	AC 600V 75A	SS-30	SR-60	JDL-100	VFCT 6.0sqx4c
SELECTION MAKER	KUKDONG				LS	SHINHAN	-		DONG-A		KUKDONG	ASAN		JUNGHO	DONGIL
			CUSTOMER												
			DRAWING TITLE		CREEP HOISTING POWER CONTROL CIRCUIT										
DATE	REVISIONS	CHK.	APP.	국동호이스트 주식회사 KUK DONG HOIST CO., LTD.											
				DWG. NO ORDER NO.											
				KDC28E32											

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

NOTE

1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어회로

2) 적색 : 교류제어회로

3) 주회색 : 외부전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

3. 제어용 전선 : 1.5mm KIV/HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방시 증전부분이 차단되도록 할것.

1) 외함 개방후 증전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

2) 외함 개방후 증전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER 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

NOTE

1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어회로

2) 적색 : 교류제어회로

3) 주회색 : 외부전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

3. 제어용 전선 : 1.5mm KIV/HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방시 증전부분이 차단되도록 할것.

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2) 외함 개방후 증전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NOTE

1. UPPER LIMIT LS-1,LS-2의 접점 허용 전류 용량 : AC 600V, 75A

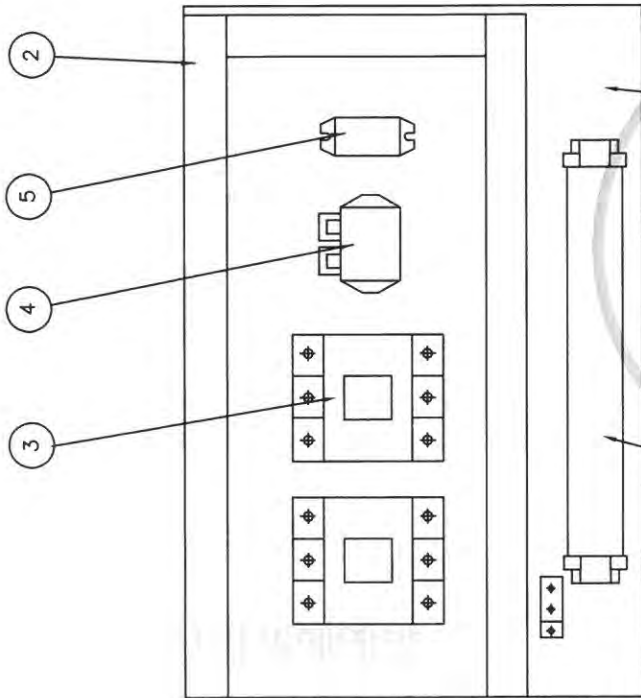
2. POWER SOURCE : AC. 3Ø 440V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
					NONE		

HOIST CONTROL BOX		ARRANGEMENT DRAWING	
DRAWTITLE		CUSTOMER	
REVISIONS		CHK. APP.	
DATE		DATE	
KDK		KDK	
KUK DONG HOIST CO., LTD.		KUK DONG HOIST CO., LTD.	
DWG. NO		KDC28BA41	

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



NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 1.5sq

- 3. 제어용 전선 : 1.5mm KIV,HIV
- 4. 제작시 다소 변경 될수있음.
- 5. 외함 개방구조는 다음과 같을것.

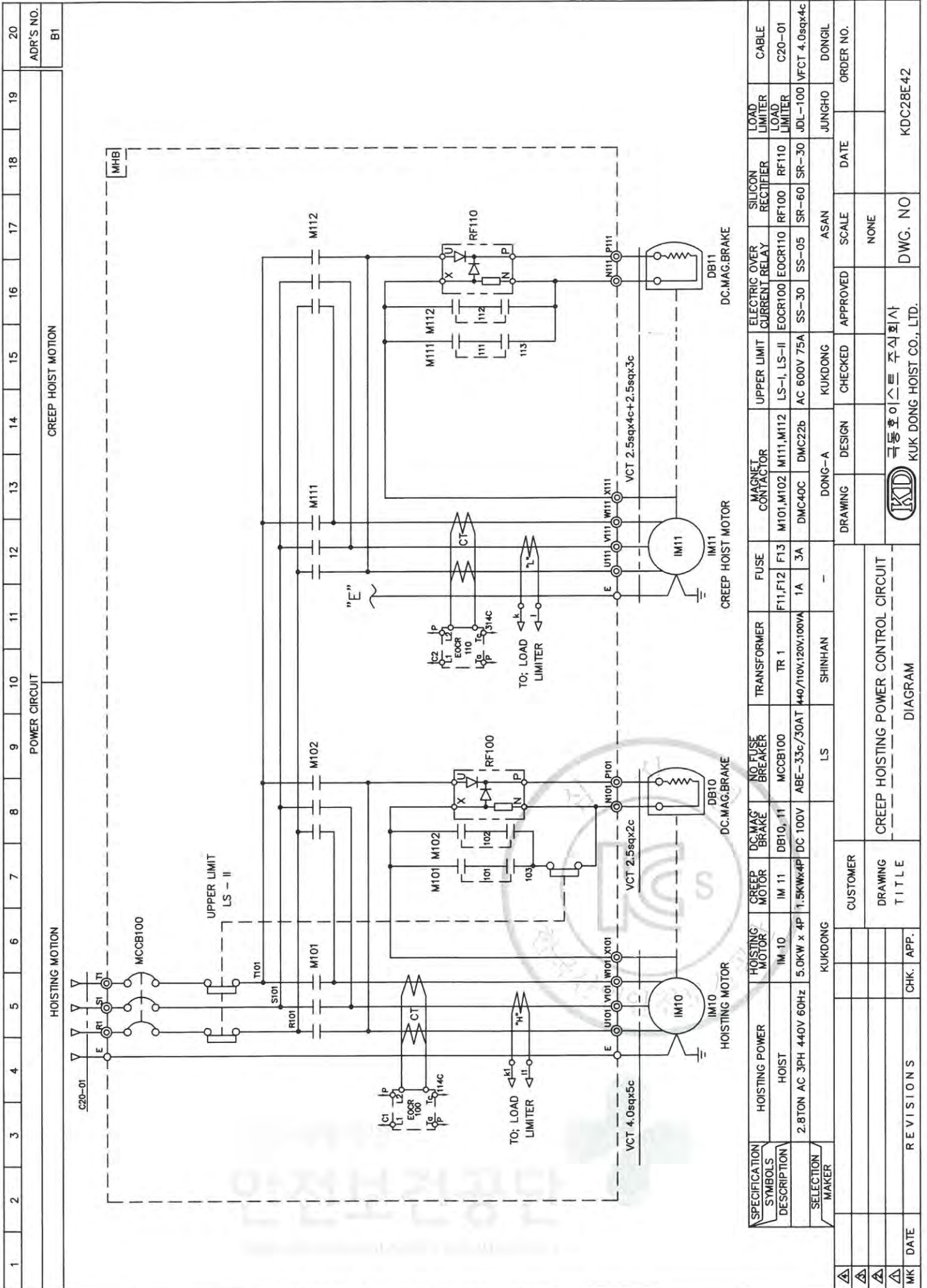
1) 외함 개방시 충전부분이 차단되도록 할것.

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



MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
							TRAVERSING POWER CONTROL BOX				NONE		
							ARRANGEMENT DRAWING						
							 KUK동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO		KDC28bt42

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										CREEP HOIST MOTION										B1	



SPECIFICATION SYMBOLS		HOISTING POWER		HOISTING MOTOR		CREEP MOTOR		DC MAG. BRAKE		NO FUSE BREAKER		TRANSFORMER		FUSE		MAGNET CONTACTOR		UPPER LIMIT		ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER		CABLE	
DESCRIPTION		HOIST		IM 10		IM 11		DB10, 11		MCCB100		TR 1		F1, F2		M101, M102		LS-1, LS-2		EOCR100		RF100		LOAD LIMITER		C20-01	
SELECTION MAKER		2.8TON AC 3PH 440V 60Hz		5.0KW x 4P		1.5KWx4P		DC 100V		ABE-33c/30AT		440/110V:20V:100VA		1A		3A		AC 600V 75A		SS-30		SR-60		JDL-100		VFCT 4.0sqx4c	
CUSTOMER		KUKDONG										SHINHAN				DONG-A		KUKDONG		ASAN		JUNGHO		DONGIL			
DRAWING TITLE		CREEP HOISTING POWER CONTROL CIRCUIT																									
REVISIONS		CHK.		APP.																							
DATE																											
MK																											
DWG. NO																											
KDC28E42																											
ORDER NO.																											
DATE																											

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



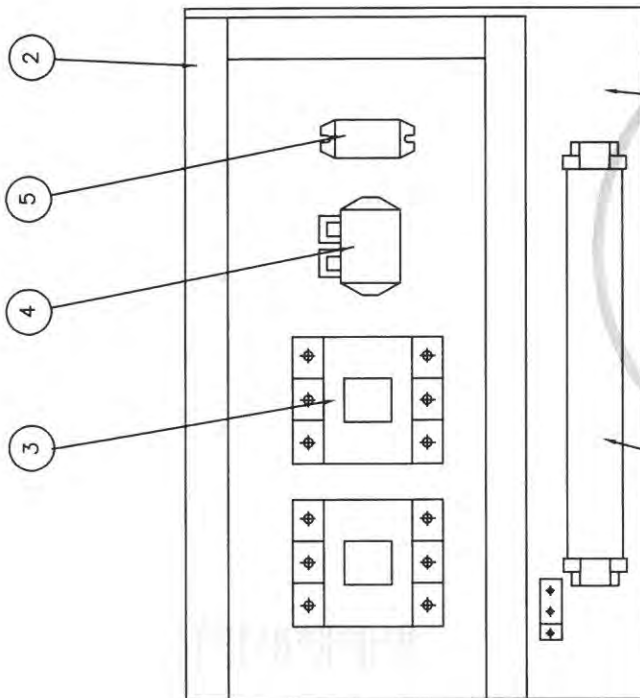
NOTE

1. 전선의 색상은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전선으로
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼합 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
 MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV,HIV
4. 제자리 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
 - 1) 외함 개방시 충전부분이 차단되도록 할것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3t×20×50	1	

[illegible]

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



NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC22b	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어회로

2) 적색 : 교류제어회로

3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 1.5sq

3. 제어용 전선 : 1.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

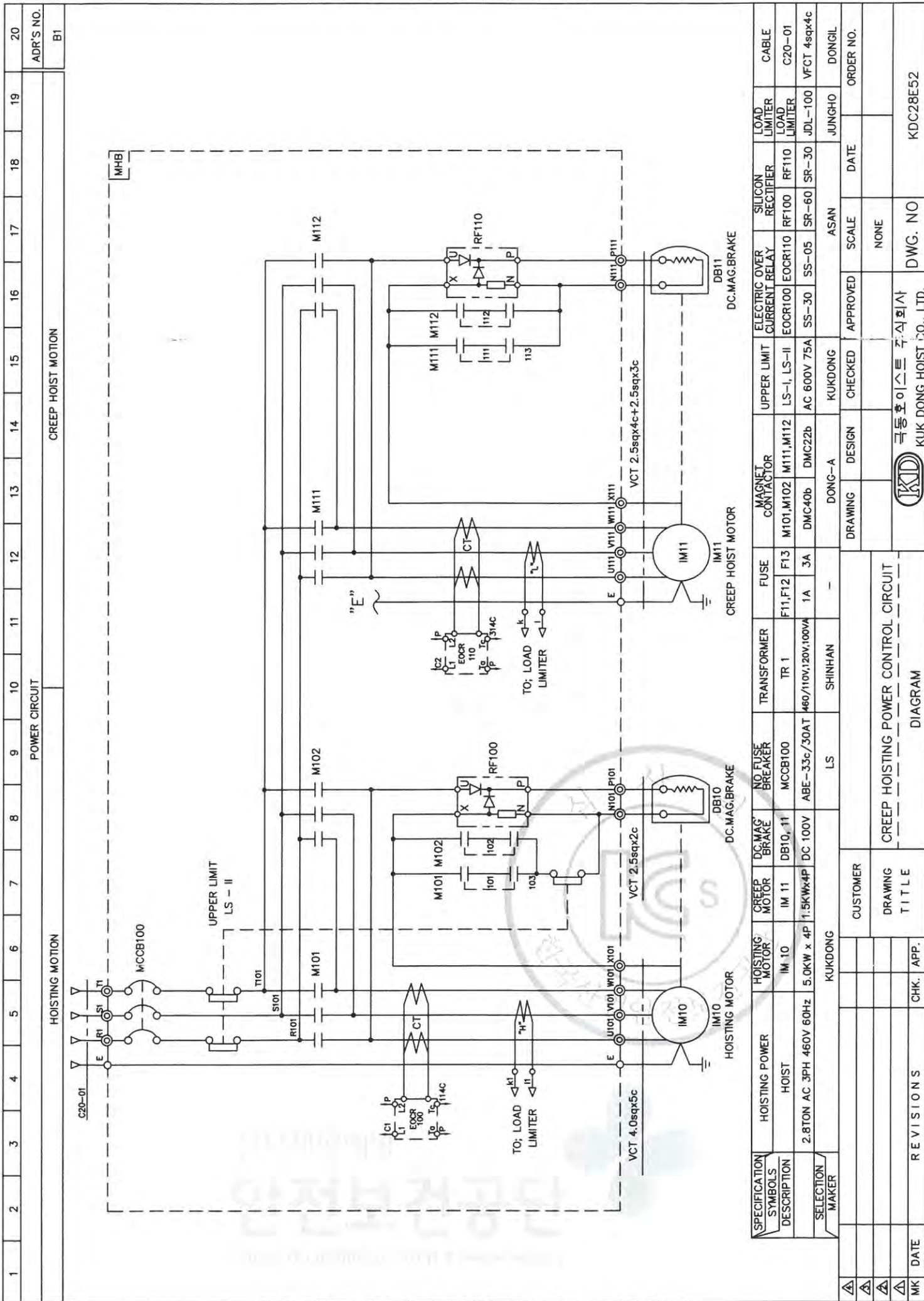
1) 외함 개방시 중전부분이 차단되도록 할것.

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



DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
DRAWING					NONE		
CUSTOMER		TRAVERSING POWER CONTROL BOX					
DRAWING TITLE		ARRANGEMENT DRAWING					
REVISIONS		CHK.	APP.				
MK	DATE						
				DWG. NO	KDC28bt52		

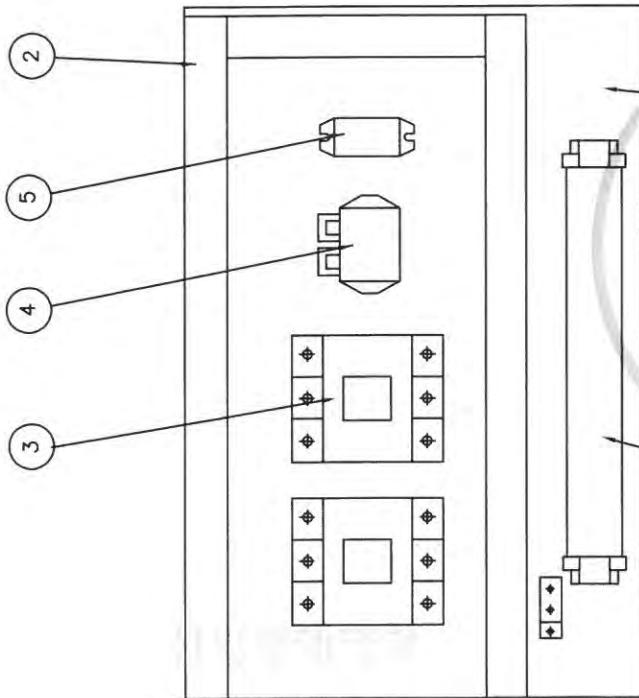




SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	HOIST	IM 10	IM 11	DB10, 11	MCCB100	TR 1	F1, F2, F3	M101, M102	LS-I, LS-II	EOCR100	RF100	LOAD LIMITER	C20-01
SELECTION	2.8TON AC 3PH 460V 60Hz	5.0KW x 4P	1.5KWx4P	DC 100V	ABE-33c/30AT	460/110V/120V/100VA	1A	DMC40b	AC 600V 75A	SS-30	SR-60	JDL-100	VFCT 4sqx4c
MAKER	KUKDONG			LS		SHINHAN	-	DONG-A	KUKDONG	ASAN		JUNGHO	DONGIL
CUSTOMER													
DRAWING TITLE													
REVISIONS													
DATE													
CHK.													
APP.													
DWG. NO.													KDC28E52
ORDER NO.													

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



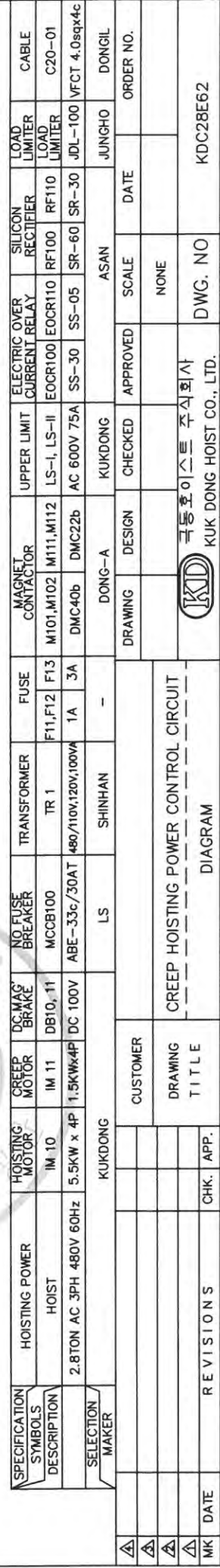
NOTE 1. 전선의 색상은 다음과 같다.

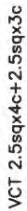
- 1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어회로
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 중전부분이 차단되도록 할것.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

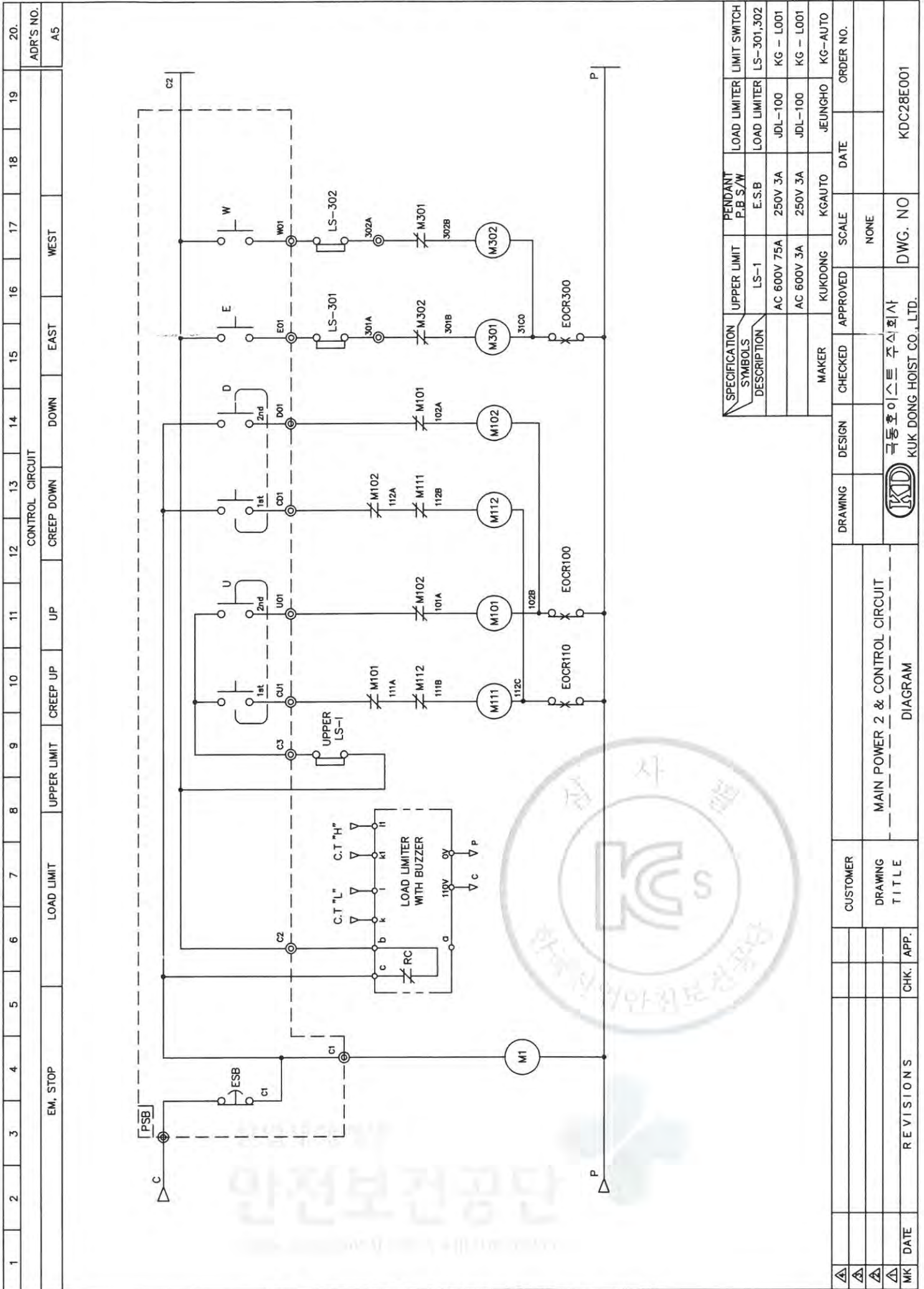


DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
TRaversing POWER CONTROL BOX					NONE		
ARRANGEMENT DRAWING							
KUK DONG HOIST CO., LTD.					DWG. NO		KDC28bt62
KUK DONG HOIST CO., LTD.							
REVISIONS		CHK.	APP.				
MK	DATE						





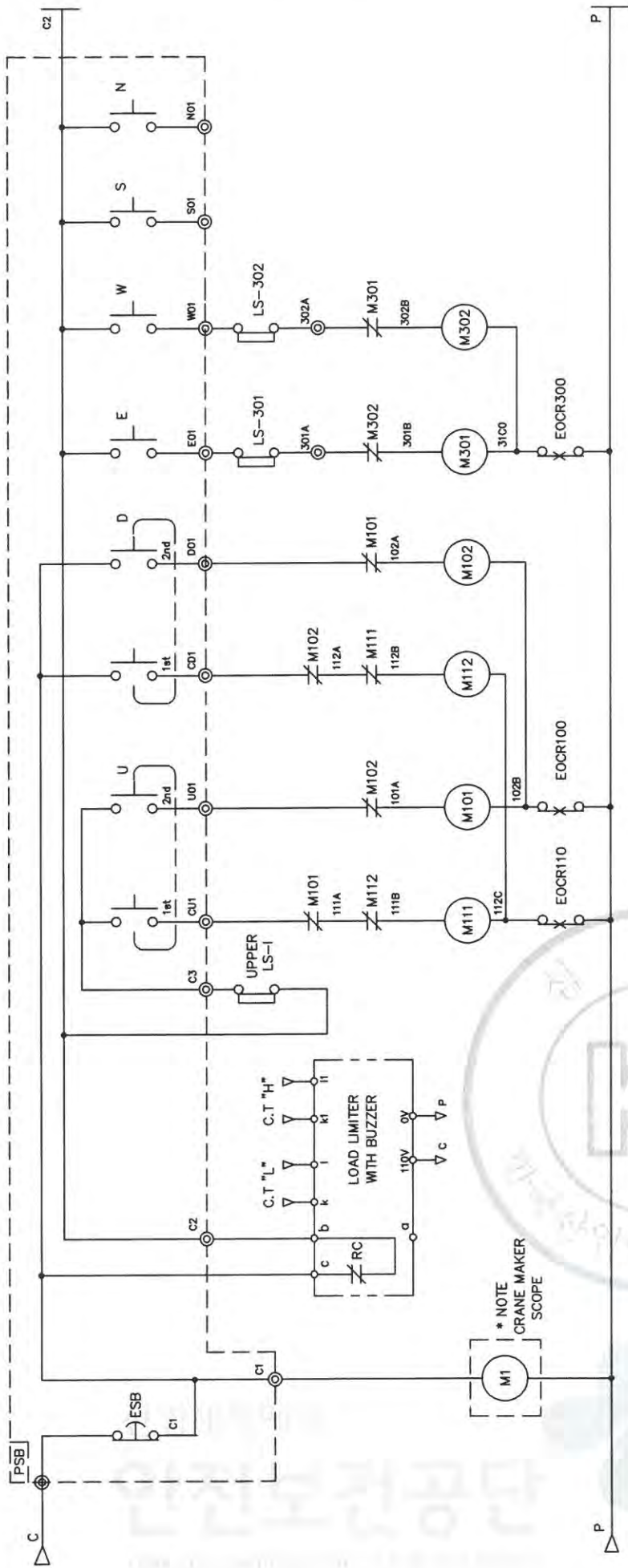
[illegible]



SPECIFICATION SYMBOLS	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LIMIT SWITCH
DESCRIPTION	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 75A	250V 3A	JDL-100	KG - L001
	AC 600V 3A	250V 3A	JDL-100	KG - L001
MAKER	KUKDONG	KGAUTO	JEUNGHO	KG-AUTO

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
						KDC28E001

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

[illegible]

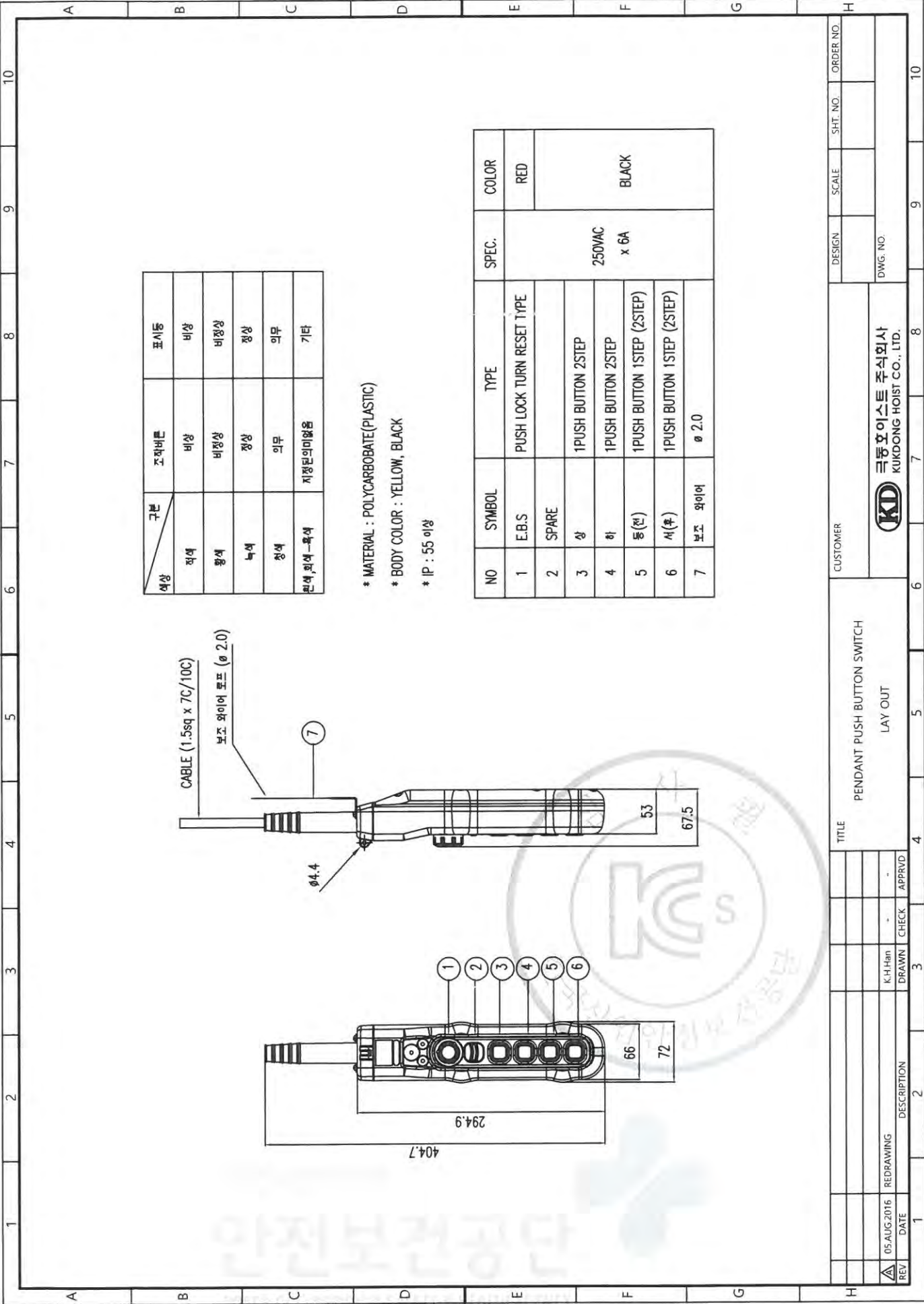


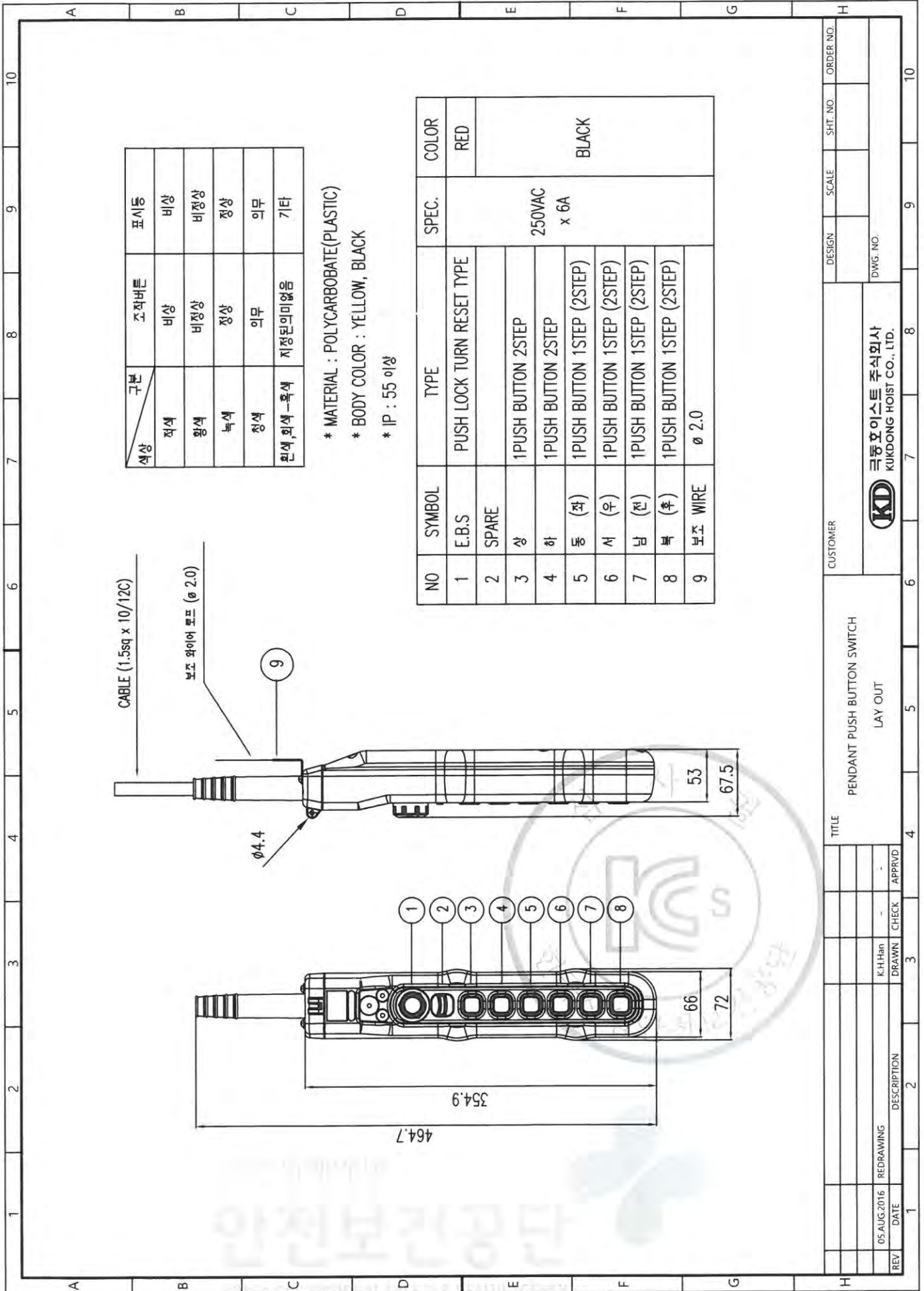
R1	SI	T1		U30	W30	P30	A30	G2	P	E01	K301A	W01	K302A	HS1
----	----	----	--	-----	-----	-----	-----	----	---	-----	-------	-----	-------	-----

11	EARTH BUS BAR	PUR	1		
10	DUCT	PUR	1		
9	TERMINAL BLOCK	PUR	1		
8	INVERTER	PUR	1		
7	TR	PUR	1		
6	RELAY & SCOKET	PUR	1		
5	RF	PUR	1		
4	MC	PUR	1		
3	MCCB	PUR	1		

2	4 판	SS275	1							
1	T/S BOX	PUR	1							
NO.	DESCRIPTION	MTL	SUB	TOTAL	SUB	TOTAL	WEIGHT(kg)		REMARKS.	
PROJECT			QTY		DATE		DIM		PROJECTION	
							mm			
TITLE			T/S CONTROL PANEL(INVERTER)				SCALE	REF. DRAWING		
							A3/3			
DRAWN	DESIGNED	CHECKED	APPROVED							
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET No.		DWG No.		KD028E1001			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20														
POWER CIRCUIT DIAGRAM										CONTROL CIRCUIT DIAGRAM										ADR's NO.													
TRAVERSING MOTION										BRAKE EAST WEST HIGH SPEED																							
TRAVERSING POWER										TRAVERSING MOTOR										NO FUSE BREAKER		TRANSFORMER		BRAKE MAGNET		CONTROL RELAY		SILICON RECTIFIER					
AC 3PH 220V 60Hz										IM 30										MCCB300		TR 300		M301		CR301,302,303		INV300		RF300			
AC 3PH 380(440,460,480)V 60Hz										0.5KW x 6P										ABE-33c/10AT		-		DMC22b		MINI 4a4b(Coil AC110V)		SV008IG5A-2		SR-30			
AC 3PH 220V 60Hz										0.5KW x 6P										ABE-33c/5AT		380(440,460,480)/220V,200VA		DMC22b		MINI 4a4b(Coil AC110V)		SV008IG5A-4		SR-30			
AC 3PH 220V 60Hz										0.75KW x 4P										ABE-33c/10AT		-		DMC22b		MINI 4a4b(Coil AC110V)		SV008IG5A-2		SR-30			
AC 3PH 380(440,460,480)V 60Hz										0.75KW x 4P										ABE-33c/5AT		380(440,460,480)/220V,200VA		DMC22b		MINI 4a4b(Coil AC110V)		SV008IG5A-4		SR-30			
SELECTION MAKER										KUK DONG HOIST																LS		ASAN					
CUSTOMER										INVERTER CONTROL										DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
DRAWING TITLE										TRAVERSING POWER & CONTROL CIRCUIT																							
REVISIONS										DIAGRAM																							
CHK.										APP.																							
DATE										KUK DONG HOIST CO., LTD.																							
DWG. NO										KUK DONG HOIST CO., LTD.																							
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I-BEAM 강도계산서



I-BEAM 최대지지거리

☞ 최대지지거리 판정결과

I-BEAM 규격	최대 지지거리 (cm)	처짐량 판정1 > 800	처짐량 판정2 >1000	굽힘응력(kg/cm ²) < 1159
150×125×t8.5/14	220	1059.4	1074.9	993.8
200×150×t9/16	360	984.5	1017.3	885.5
250×125×t7.5/12.5	380	1032.8	1060.4	1056.4
250×125×t10/19	460	975.5	1021.2	915.5
300×150×t8/13	520	990.7	1036.4	999.2
300×150×t10/18.5	600	972.7	1042.8	869.8
300×150×t11.5/22	650	942.3	1028.5	828.1
350×150×t9/15	660	963.3	1031.5	1001.5
350×150×t12/24	800	917.3	1034.6	852.6
400×150×t10/18	830	932	1034.1	1018.6
400×150×t12.5/25	960	870.1	1016.8	928.9
450×175×t11/20	1070	857.8	1012.1	1010.6
450×175×t13/26	1190	814.4	1018.7	936.4

☞ 기본 조건

정격하중 (Kg)	양정 (m)	권상속도 (m/min)	호이스트		작업계수	풍력계수
			자중 (Kg)	풍압면적 (m ²)		
2800	9	9	610	0.8	1.08	1.2

*첨부 강도계산서 참조

[I-BEAM 최대 지지거리 강도계산서]

1. 굽힘 MOMENT 계산

1-1. 수직하중에 의한 굽힘 MOMENT

$$\text{빔 자중에 의한 MOMENT : } M_s = \frac{\phi \times \text{BEAM자중(등분포하중)} \times \text{지지거리}}{8} \quad (\text{kg} \cdot \text{cm})$$

$$\text{※ 작업계수}(\phi) = 1.08$$

$$\text{※ BEAM 자중 (kg) = BEAM 단위중량(kg/cm) \times 지지거리(cm)}$$

$$\text{이동하중에 의한 MOMENT : } M_d = \frac{\phi \times \psi \times \text{이동하중} \times \text{지지거리}}{4} \quad (\text{kg} \cdot \text{cm})$$

$$\begin{aligned} \text{※ 이동하중 (kg)} &= \text{정격하중} + \text{호이스트 자중} \\ &= 2800 + 610 = 3410 \quad (\text{kg}) \end{aligned}$$

$$\begin{aligned} \text{※ 충격계수}(\psi) &= 1 + 0.6V \quad (\text{단, } \psi < 1.1 \text{ 이면 } \psi = 1.1, \quad \psi > 1.6 \text{ 이면 } \psi = 1.6 \text{ 으로 한다.}) \\ &= 1 + (0.6 \times 0.15) = 1.09 \quad \text{----> } 1.1 \end{aligned}$$

$$\text{※ 권상속도}(V) = \frac{9}{60} \quad (\text{m/min}) = 0.15 \quad (\text{m/sec})$$

$$\text{수직하중에 의한 굽힘 MOMENT : } \Sigma M_v = M_s + M_d$$

1-2. 풍하중에 의한 굽힘 MOMENT

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

$$\text{※ 풍하중}(W) = \text{속도압}(q) \times \text{풍력계수} \times \text{풍압을 받는 면적}(A) \quad (\text{kg})$$

$$\text{※ 속도압}(q) = 8.5 \times \sqrt{h} = 14.7 \quad (h = \text{양정: } 9)$$

$$\text{※ 풍력계수}(C) = 1.2 \quad (\text{크레인 제작기준 참조})$$

$$\text{※ 풍압을 받는 면적}(A) = \text{I-BEAM의 풍압면적} + \text{HOIST의 풍압면적} \quad (\text{m}^2)$$

$$\text{※ HOIST의 풍압 면적} = 0.8 \quad (\text{m}^2)$$

2. 굽힘 응력 계산

2-1. 수직하중에 의한 굽힘 응력

$$\sigma_v = \frac{\text{수직하중에 의한 굽힘MOMENT : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2)$$

2-2. 풍하중에 의한 굽힘 응력

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

2-3. 수직하중 및 풍하중에 의한 굽힘 응력

$$\Sigma \sigma = \sigma_v + \sigma_w$$

표 1. I-BEAM 최대지지거리에 따른 굽힘응력 계산 결과

I-BEAM 규격	최대지지 거리(cm)	I-BEAM		단면계수		Ms (kg · cm)	Md (kg · cm)	Σ Mv (kg · cm)	I-BEAM 용압면적 (㎡)	W (kg)	Mw (kg · cm)	σ _v (kg/cm ²)	σ _w (kg/cm ²)
		단위중량 (kg/cm)	자중 (kg)	Zx (cm ³)	Zy (cm ³)								
150 × 125 × t8.5/14	220	0.362	79.64	235	61.6	2365.31	222809.40	225174.71	0.33	19.93	2192.65	958.19	35.60
200 × 150 × t9/16	360	0.504	181.44	446	100	8817.98	364597.20	373415.18	0.72	26.81	4826.30	837.25	48.26
250 × 125 × t7.5/12.5	380	0.383	145.54	414	53.9	7466.20	384852.60	392318.80	0.95	30.87	5865.30	947.63	108.82
250 × 125 × t10/19	460	0.555	255.3	585	86	15854.13	465874.20	481728.33	1.15	34.40	7911.54	823.47	91.99
300 × 150 × t8/13	520	0.483	251.16	632	78.4	17631.43	526640.40	544271.83	1.56	41.63	10823.90	861.19	138.06
300 × 150 × t10/18.5	600	0.655	393	849	118	31833.00	607662.00	639495.00	1.80	45.86	13759.20	753.23	116.60
300 × 150 × t11.5/22	650	0.768	499.2	978	143	43804.80	658300.50	702105.30	1.95	48.51	15765.75	717.90	110.25
350 × 150 × t9/15	660	0.585	386.1	870	93.5	34401.51	668428.20	702829.71	2.31	54.86	18103.93	807.85	193.62
350 × 150 × t12/24	800	0.872	697.6	1280	158	75340.80	810216.00	885556.80	2.80	63.50	25401.60	691.84	160.77
400 × 150 × t10/18	830	0.72	597.6	1200	115	66961.08	840599.10	907560.18	3.32	72.68	30160.87	756.30	262.27
400 × 150 × t12.5/25	960	0.958	919.68	1580	165	119190.53	972259.20	1091449.73	3.84	81.85	39287.81	690.79	238.11
450 × 175 × t11/20	1070	0.917	981.19	1740	173	141732.90	1083663.90	1225396.80	4.82	99.05	52991.00	704.25	306.31
450 × 175 × t13/26	1190	1.15	1368.5	2170	231	219849.53	1205196.30	1425045.83	5.36	108.57	64601.65	656.70	279.66

불법복제 및 배포금지

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

1. 처짐량 판정 1

판정기준: $L / \sigma > 800$

$$\ast \sigma = \sigma_s + \sigma_d$$

2. 처짐량 판정 2

판정기준: $L / \sigma_d > 1000$

3. 최대굽힘응력 판정

판정기준: $\sum \sigma \leq 1159 \text{ (kg/cm}^2\text{)} (= \text{SS400 허용굽힘응력 } 1449 \times 0.8)$

$$\ast \sum \sigma = \sigma_v + \sigma_w$$

※ I-BEAM 자중에 의한 처짐 (σ_s)

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

※ 이동하중에 의한 처짐 (σ_d)

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

E = 종탄성계수 (2,100,000 kg/cm²)

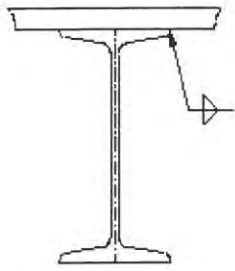
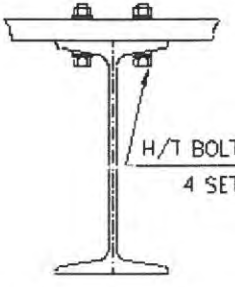
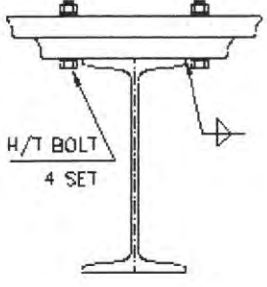
I_x = 단면2차MOMENT

판정기준		
> 800	> 1000	≤ 1159

I-BEAM 규격	I _x (cm ⁴)	최대지지 거리(cm)	σ _s (cm)	σ _d (cm)	처짐량판정1	처짐량판정2	Σ σ (kg/cm ²)
150 × 125 × t8.5/14	1760	220	0.0030	0.2047	1059.4	1074.9	993.8
200 × 150 × t9/16	4460	360	0.0118	0.3539	984.5	1017.3	885.5
250 × 125 × t7.5/12.5	5180	380	0.0096	0.3584	1032.8	1060.4	1056.4
250 × 125 × t10/19	7310	460	0.0211	0.4505	975.5	1021.2	915.5
300 × 150 × t8/13	9480	520	0.0231	0.5018	990.7	1036.4	999.2
300 × 150 × t10/18.5	12700	600	0.0414	0.5754	972.7	1042.8	869.8
300 × 150 × t11.5/22	14700	650	0.0578	0.6320	942.3	1028.5	828.1
350 × 150 × t9/15	15200	660	0.0453	0.6399	963.3	1031.5	1001.5
350 × 150 × t12/24	22400	800	0.0989	0.7732	917.3	1034.6	852.6
400 × 150 × t10/18	24100	830	0.0879	0.8026	932	1034.1	1018.6
400 × 150 × t12.5/25	31700	960	0.1592	0.9442	870.1	1016.8	928.9
450 × 175 × t11/20	39200	1070	0.1901	1.0572	857.8	1012.1	1010.6
450 × 175 × t13/26	48800	1190	0.2930	1.1682	814.4	1018.7	936.4

■ I-BEAM의 고정방법 및 사양

1. I-BEAM의 고정방법

용접구조	BOLT 체결구조	복합구조
		

2. 기본조건 및 사양

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

단위: mm

정격하중(Kg)	용접구조		BOLT 체결구조
	최소 용접두께	최소 용접길이	최소 BOLT SIZE
2800	6	175	M12 x 4set

단, 적용 I-BEAM 450×175×t13/26 의 경우임

※강도계산서 참조



안전보건공단
www.kosha.or.kr / 1577-1099

[I-BEAM 고정볼트 강도 및 용접강도 계산서]

1) I-BEAM 고정방법중 BOLT구조의 강도 계산

[H/T BOLT의 허용인장응력 : 2500 kg/cm²]

☞ 작용하중 계산

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

$$\begin{aligned} \text{충격계수 } \Psi &= 1.1 \\ \text{작업계수 } \phi &= 1.08 \\ \text{정격하중 } Q &= 2800 \\ \text{HOIST자중 } Q1 &= 610 \end{aligned}$$

☞ BOLT 1 개당 인장강도 계산

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

※ 판정기준: $\sigma < 2500 \text{ kg/cm}^2$

BEAM 규격	BEAM자중 (kg)	하중 P(kg)	BOLT 규격	BOLT수	BOLT 단면적 (cm ²)	BOLT강도
150 × 125 × t8.5/14	79.64	3837	M12	4	1.13	848.9
200 × 150 × t9/16	181.44	3947	M12	4	1.13	873.2
250 × 125 × t7.5/12.5	145.54	3908.2	M12	4	1.13	864.6
250 × 125 × t10/19	255.3	4026.7	M12	4	1.13	890.9
300 × 150 × t8/13	251.16	4022.3	M12	4	1.13	889.9
300 × 150 × t10/18.5	393	4175.4	M12	4	1.13	923.8
300 × 150 × t11.5/22	499.2	4290.1	M12	4	1.13	949.1
350 × 150 × t9/15	386.1	4168	M12	4	1.13	922.1
350 × 150 × t12/24	697.6	4504.4	M12	4	1.13	996.5
400 × 150 × t10/18	597.6	4396.4	M12	4	1.13	972.7
400 × 150 × t12.5/25	919.68	4744.3	M12	4	1.13	1049.6
450 × 175 × t11/20	981.19	4810.7	M12	4	1.13	1064.3
450 × 175 × t13/26	1368.5	5229	M12	4	1.13	1156.9

불법복제 및 배포금지

2) I-BEAM 고정방법중 용접구조의 강도 계산

[용접이음의 허용응력: 560 kg/cm²]

☞ 용접강도 계산

$$\sigma_w = \frac{P}{0.707xtx2xl} \quad \text{kg/cm}^2$$

※ 판정기준: $\sigma_w < 560 \text{ kg/cm}^2$

BEAM 규격	하중 P(kg)	용접두께 t (cm)	용접길이 l (cm)	용접강도 $\sigma_w(\text{kg/cm}^2)$
150 × 125 × t8.5/14	3837	0.6	12.5	361.8
200 × 150 × t9/16	3947	0.6	15	310.2
250 × 125 × t7.5/12.5	3908.2	0.6	12.5	368.5
250 × 125 × t10/19	4026.7	0.6	12.5	379.7
300 × 150 × t8/13	4022.3	0.6	15	316.1
300 × 150 × t10/18.5	4175.4	0.6	15	328.1
300 × 150 × t11.5/22	4290.1	0.6	15	337.1
350 × 150 × t9/15	4168	0.6	15	327.5
350 × 150 × t12/24	4504.4	0.6	15	354
400 × 150 × t10/18	4396.4	0.6	15	345.5
400 × 150 × t12.5/25	4744.3	0.6	15	372.8
450 × 175 × t11/20	4810.7	0.6	17.5	324
450 × 175 × t13/26	5229	0.6	17.5	352.2

IV. 참고자료



E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	0.4KW x 4P	2.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.0 A	
C2 TON	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.6 A	
	0.4KW x 4P	2.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.0 A	
C2.8 TON	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.1 A	
	1.5KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
C3 TON	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.1 A	
	1.5KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
C5 TON	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	31.0 A	
	1.0KW x 6P	6.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.4 A	
C7.5 TON	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	31.0 A	
	1.0KW x 6P	6.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.4 A	
C10 TON	9.0KW x 8P	45.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	49.5 A	
	1.1KW x 8P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.8 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60HZ

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.8 A	
C2 TON	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.2 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.8 A	
C2.8 TON	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.4 A	
	1.5KW x 4P	4.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.6 A	
C3 TON	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.4 A	
	1.5KW x 4P	4.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.6 A	
C5 TON	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.9 A	
	1.0KW x 6P	3.9 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.3 A	
C7.5 TON	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.9 A	
	1.0KW x 6P	3.9 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.3 A	
C10 TON	9.0KW x 8P	26.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.6 A	
	1.1KW x 8P	4.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	5.1 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.5 A	
C2 TON	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.8 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.5 A	
C2.8 TON	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
	1.5KW x 4P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.1 A	
C3 TON	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
	1.5KW x 4P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.1 A	
C5 TON	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.5 A	
	1.0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.6 A	
C7.5 TON	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.5 A	
	1.0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.6 A	
C10 TON	9.0KW x 8P	22.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	24.8 A	
	1.1KW x 8P	4.0 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.4 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	4.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.5 A	
C2 TON	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.5 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.5 A	
C2.8 TON	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.9 A	
C3 TON	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.9 A	
C5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.9 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C7.5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.9 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	23.7 A	
	1.1KW x 8P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.1 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.1 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.5 A	
C2 TON	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.5 A	
C2.8 TON	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.6 A	
	1.5KW x 4P	3.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.7 A	
C3 TON	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.6 A	
	1.5KW x 4P	3.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.7 A	
C5 TON	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.2 A	
	1.0KW x 6P	3.1 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.4 A	
C7.5 TON	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.2 A	
	1.0KW x 6P	3.1 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.4 A	
C10 TON	9.0KW x 8P	20.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.7 A	
	1.1KW x 8P	3.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.0 A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.0 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.0 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.6 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.0 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.0 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.0 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	7.4 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	7.4 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	45.0 A	49.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	8.0 A	8.8 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	5.8 A	6.4 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	10.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.4 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	4.6 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.4 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	4.6 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.9 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.9 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	26.0 A	28.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.5 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	8.8 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.1 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.1 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	22.5 A	24.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 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%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.0 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.0 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.9 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.5 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.9 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.5 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	21.5 A	23.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	3.7 A	4.1 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.0 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	10.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	3.7 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	10.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	3.7 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.1 A	3.4 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.1 A	3.4 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	20.6 A	22.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.0 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Φ 220V 60Hz

극동하이스트 (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	2.1 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.3 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	4.6 A	
0.4KW x 4P	2.7 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	5.9 A	
0.5KW x 6P	3.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.5 A	
0.75KW x 4P	4.1 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.0 A	
1.0KW x 6P	6.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.0 A	
1.5KW x 4P	7.4 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	16.3 A	
1.5KW x 6P	7.6 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	16.7 A	
2.2KW x 4P	10.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	11.0 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	22.0 A	
0.8/0.4KW x 4/8P	4.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.3 A	
		2 DRIVE	SS - 05	3 SEC	1 SEC	4.7 A	
2.2KW x 6P	12.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	10.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.4 A	
3.7KW x 4P	16.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	13.2 A	
		2DRIVE	SS - 60	3 SEC	1 SEC	26.4 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Φ 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	1.6 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.8 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.5 A	
0.4KW x 4P	1.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	4.0 A	
0.5KW x 6P	2.0 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.2 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	4.4 A	
0.75KW x 4P	2.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	5.3 A	
1.0KW x 6P	3.9 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.6 A	
1.5KW x 4P	4.3 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.5 A	
1.5KW x 6P	4.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.7 A	
2.2KW x 4P	5.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	12.8 A	
0.8/0.4KW x 4/8P	2.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
			SS - 05	3 SEC	1 SEC	2.9 A	
	2.6 A	2 DRIVE	SS - 30	3 SEC	1 SEC	6.1 A	
			SS - 30	3 SEC	1 SEC	5.8 A	
2.2KW x 6P	7.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.4 A	
3.7KW x 4P	9.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	10.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	20.5 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Ø 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	1.2 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.3 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
0.4KW x 4P	1.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.5 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.9 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.7 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.2 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	4.4 A	
1.0KW x 6P	2.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.2 A	
1.5KW x 4P	3.7 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.1 A	
1.5KW x 6P	3.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.4 A	
2.2KW x 4P	5.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.5 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	11.0 A	
0.8/0.4KW x 4/8P	2.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
			SS - 05	3 SEC	1 SEC	2.5 A	
	2.3 A	2 DRIVE	SS - 30	3 SEC	1 SEC	5.3 A	
			SS - 05	3 SEC	1 SEC	5.0 A	
2.2KW x 6P	5.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12.8 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	17.6 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Φ 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	1.2 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.3 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
0.4KW x 4P	1.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.5 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.9 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.7 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.2 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	4.4 A	
1.0KW x 6P	2.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.2 A	
1.5KW x 4P	3.7 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.1 A	
1.5KW x 6P	3.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.4 A	
2.2KW x 4P	5.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.5 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	11.0 A	
0.8/0.4KW x 4/8P	2.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
		2 DRIVE	SS - 05	3 SEC	1 SEC	2.5 A	
2.2KW x 6P	5.8 A	1DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12.8 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	17.6 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Ø 480V 60Hz

극동하이스트 (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 - 05	3 SEC	1 SEC	1.3 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
0.4KW x 4P	1.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.5 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
0.5KW x 6P	1.6 A	1 DRIVE	SS - 05	3 SEC	1 SEC	1.8 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	3.5 A	
0.75KW x 4P	1.9 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.1 A	
		2DRIVE	SS - 05	3 SEC	1 SEC	4.2 A	
1.0KW x 6P	2.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.2 A	
1.5KW x 4P	3.7 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.1 A	
1.5KW x 6P	3.8 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.4 A	
2.2KW x 4P	5.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.5 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	11.0 A	
0.8/0.4KW x 4/8P	2.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	2.6 A	
			SS - 05	3 SEC	1 SEC	2.5 A	
	2.3 A	2 DRIVE	SS - 30	3 SEC	1 SEC	5.3 A	
			SS - 05	3 SEC	1 SEC	5.0 A	
2.2KW x 6P	5.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12.8 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	17.6 A	

NOTE

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

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	23.0 A
12. LOCKED ROTOR CURRENT	136.6 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. FULL LOAD TORQUE	8.31 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	12.2 A
12. LOCKED ROTOR CURRENT	72.9 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. FULL LOAD TORQUE	8.31 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	10.5 A
12. LOCKED ROTOR CURRENT	63.0 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. FULL LOAD TORQUE	8.31 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	10.0 A
12. LOCKED ROTOR CURRENT	60.0 A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. FULL LOAD TORQUE	8.31 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	9.6 A
12. LOCKED ROTOR CURRENT	57.5 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. FULL LOAD TORQUE	8.31 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	7.3 A
12. STARTING CURRENT AT RATED VOLTAGE	42.0 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	73.0 %
15. POWER FACTOR AT 100% RATED LOAD	75.0 %
16. STARTING TORQUE	1.72 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	4.2 A
12. STARTING CURRENT AT RATED VOLTAGE	24.2 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	73.0 %
15. POWER FACTOR AT 100% RATED LOAD	75.0 %
16. STARTING TORQUE	1.72 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	3.7A
12. STARTING CURRENT AT RATED VOLTAGE	21.0 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	73.0 %
15. POWER FACTOR AT 100% RATED LOAD	75.0 %
16. STARTING TORQUE	1.72 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	3.5A
12. STARTING CURRENT AT RATED VOLTAGE	20.8 A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	73.0 %
15. POWER FACTOR AT 100% RATED LOAD	75.0 %
16. STARTING TORQUE	1.72 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1710 RPM
11. FULL LOAD CURRENT	3.4A
12. STARTING CURRENT AT RATED VOLTAGE	20.0 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	73.0 %
15. POWER FACTOR AT 100% RATED LOAD	75.0 %
16. STARTING TORQUE	1.72 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	4.1 A
12. STARTING CURRENT AT RATED VOLTAGE	22.1 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	66.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	1.02 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.4 A
12. STARTING CURRENT AT RATED VOLTAGE	13.5 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	67.0 %
15. POWER FACTOR AT 100% RATED LOAD	69.5 %
16. STARTING TORQUE	0.85 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	11.1 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	67.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	1.02 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	10.6 A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	66.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	1.02 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	1.9 A
12. STARTING CURRENT AT RATED VOLTAGE	10.2 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	66.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	1.02 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	3.4 A
12. STARTING CURRENT AT RATED VOLTAGE	16.4 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	9.5 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. STARTING CURRENT AT RATED VOLTAGE	8.2 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. STARTING CURRENT AT RATED VOLTAGE	7.9 A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	7.5 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 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 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

DSR DSR WIRE CORP

ORIGINAL

SALES OFFICE : 7th floor, 145, Teheran-ro, Gangnam-gu, Seoul, Korea

TEL : 82-2-3420-3500, FAX : 82-2-3420-3600, E-mail : sales@dsrcorp.com, http://www.dsrcorp.com

MILL TEST CERTIFICATE / CERTIFICATE OF INSPECTION

Certificate No : 201802-SAMPLE-2

Reel/Coil No : 2

Purchaser : -

Date : 2018. 01. 01

P.O No : -

L/C No. : -

Invoice No : SAMPLE

1. TYPE / GRADE

Construction : 6XWS(36)+FC

Diameter : 9 MM

Length : 1,000 MTRS

Specification : KS D 3514

Coating : BRIGHT

Grade : 1,770

Lay : RHRL

Lubrication : A-2

2. ROPE TEST RESULTS

Items	Norminal or Specified	Actual
Diameter	9 MM	9.25 MM
Breaking Strength	48.0 KN	49.6 KN
Lay Length	- MM	57 MM
Preforming	Good	Good

3. WIRE TEST RESULTS

Items	Norminal or Specified	Actual
Diameter	0.50 MM	0.51 MM
Tensile Strength	1,770 N/MM2	1,835 N/MM2
Break Force	347 N	375 N
Torsion	27	43
Weight of Coating	- G/M2	- G/M2

We hereby certify that the above results are true and correct in every detail.

CHEMICAL ANALYSIS OF WIRE ROD

Charge No	Chemical Composition (%)				
	C	Si	Mn	P	S
SA 30293	0.72	0.20	0.48	0.008	0.009

Approval or Inspection Possibility

WIRE ROPE

Suncheon Factory : 15, Sandan 1-gil, Seo-myeon, Suncheon-si, Jeonnam-do, Korea
Yulchon Factory : 80-21, Yulchonsandan 1-ro, Haeryong-myeon, Suncheon-si, Jeonnam-do, Korea



WIRE

Suncheon 2Factory : 38, Sandan 4-gil, Seo-myeon, Suncheon-si, Jeonnam-do, Korea

Quality Management Dept.



Handwritten signature
Chief Inspector