



심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(15423) 경기도 안산시 단원구 해봉로 119(성곡동630-2)		

안전인증대상 기계·기구명		호이스트[동일형식인정 - “별첨”]	
형 식 (규 격)	KD1.8-L	용 량 (등 급)	1.8 Ton

산업안전보건법 제 84조 및 같은 법 시행규칙 제110조에 따라 실시한

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

결과가 [V] 적 합
[] 부적합

합을 통지합니다.

2021년 02월 15일

인증심사원

이남진 양은지 정영애

(이명 양은지 인)

한국산업안전보건공단 이사장





제2021 - 2157894 호

안 전 인 증 서

(사업장명) 극동호이스트(주)

(소 재 지) (15423)경기도 안산시 단원구 해봉로 119(성곡동630-2)

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 _____

KD1.8-L (1.8Ton) / 21-AH2AC-00007

_____ 인 증 기 준 _____

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

_____ 인 증 조 건 _____

(15423)경기도 안산시 단원구 해봉로 119(성곡동630-2)에서 생산된 동일 형식 제품에 한함

2021년 03월 19일

한국산업안전보건공단 이사장



서 면 심 사 서 류

형식 번호 : KD1.8-L

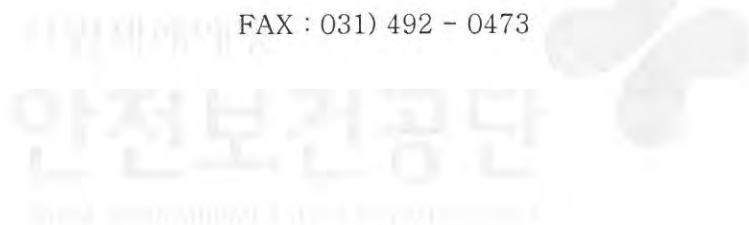
극 동 호 이 스톱 (주)



工場 : 경기도 안산시 단원구 해봉로 119 (성곡동)

電話 : 031) 491 - 5311

FAX : 031) 492 - 0473



동 일 형 식 일 램 표

사업장명		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	
KD1.8-L	KD1.8-L6-L	고속 : 10 m/min (motor : 3.7kw x 4P)	고속 : 24 m/min (inverter : 2~24 m/min) (motor : 0.75kw x 4P)	6	모터구동식	
	KD1.8-L9-L	저속 : 5 m/min (motor : 1.8kw x 8P)	저속 : 16 m/min (inverter : 2~16 m/min) (motor : 0.5kw x 6P)	9		
	KD1.8-L12-L			12		
회행 INVERTER 포함						

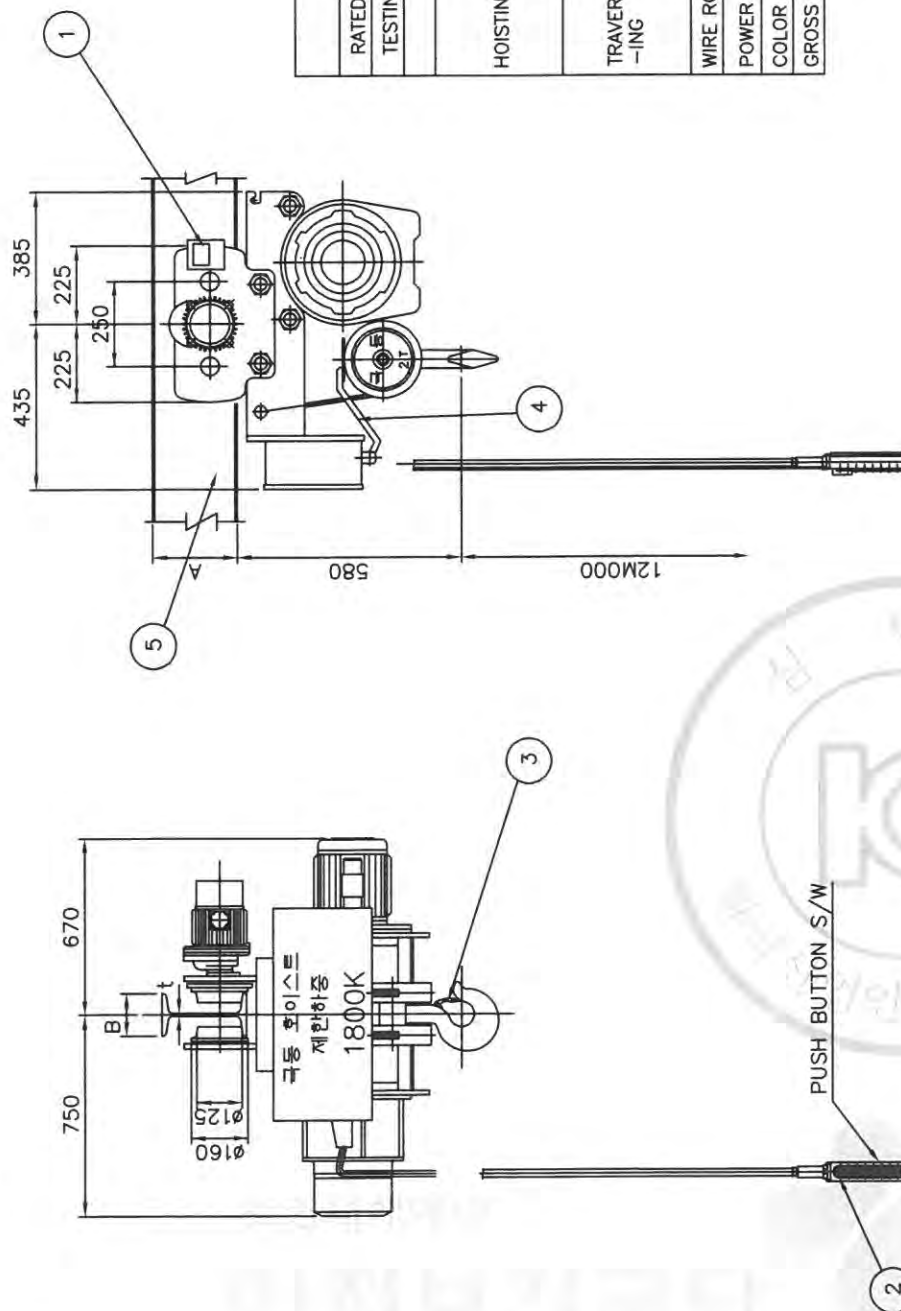


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형식번호	KD1.8-L
모델명	KD1.8-L12-L

NO	DESCRIPTION	MATERIAL	QTY	SIZE	REMARK
3	LOAD LIMITER		1		
2	EMERGENCY S/W		1		
3	SAFETY LATCH	SPC	1		
4	UPPER LIMIT S/W	SS275	1		
5	I-BEAM	SS275		TABLE 형조	



SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		12 M	
HOISTING	HIGH	SPEED	10 M/MIN
		MOTOR	3.7 KW x 4P
	LOW	SPEED	5 M/MIN
		MOTOR	1.8 KW x 8P
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) Ø8 x 4 FALLS	
POWER SOURCE		AC3Ø 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		390 KG	

TRAVERSING I – BEAM		Ix (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH
A	B x t			
I	250 x 125 x 7.5	5180	414	MAX. 4.8M
I	300 x 150 x 10	12700	849	MAX. 7.6M
I	350 x 150 x 9	15200	871	MAX. 8.3M
I	400 x 150 x 10	24100	1220	MAX. 10.4M
I	400 x 150 x 12.5	39200	1740	MAX. 11.6M

[illegible]

< Electrical Specification >

1. Power source : AC 3Ø 220V, 380V, 440V, 460V, 480V 60Hz
 2. Control source : AC 1Ø 110V, 120V 60Hz

OBJECT	MOTOR	220		380		440		460		480		BRAKE	REMARK
		CURRENT	CABLE	CURRENT	CABLE	CURRENT	CABLE	CURRENT	CABLE	CURRENT	CABLE		
HOISTING	HIGH	16.0 A	4sq	9.3 A	2.5sq	8.0 A	2.5sq	7.7 A	2.5sq	7.3 A	2.5sq	DC MAG BRAKE	1 DRIVE
	LOW	11.0 A	4sq	6.4 A	2.5sq	5.5 A	2.5sq	5.3 A	2.5sq	5.1 A	2.5sq		
TRAVERSING	HIGH	4.1 A	2.5sq	2.4 A	2.5sq	2.0 A	2.5sq	2.0 A	2.5sq	1.9 A	2.5sq	DC MAG BRAKE	1 DRIVE
	LOW	3.4 A	2.5sq	2.0 A	2.5sq	1.7 A	2.5sq	1.7 A	2.5sq	1.6 A	2.5sq		
CONTROL CURRENT		2.0 A	1.5sq	1.0 A	1.5sq	1.0 A	1.5sq	1.0 A	1.5sq	1.0 A	1.5sq		
LIGHTING & ACC'Y CIRCUIT													
SUB TOTAL	HIGH	22.1 A	4sq	12.7 A	4sq	11.0 A	4sq	10.7 A	4sq	10.2 A	4sq	I(A)=M/H+T/S+ASS'Y	
	LOW	16.4 A	4sq	9.4 A	4sq	8.2 A	4sq	8.0 A	4sq	7.7 A	4sq	I(A)=M/H+T/S+ASS'Y	

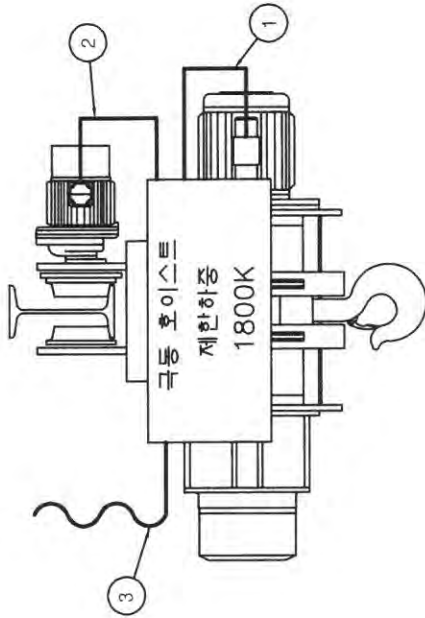
ELECTRIC WIRE ROPE HOIST			
	MODEL	RATING	min
	CAPACITY	LIFT	m
	HOIST SPEED	POWER SOURCE	V Hz
	HOIST MOTOR	AMP.S R&T HOIST	A
	TRAV.SPEED	AMP.S R&T TRAV.	A
	TRAV.MOTOR	WIRE ROPE	kg
	WIDTH OF RAIL	WEIGHT	mm
	DATE	SERIAL	

 3 PHASE INDUCTION MOTOR			
KW	P TYPE	TENV	
VOLTS	V RATING	min	
AMP.S	A AMP.TEMP	40°C	
HEARTS	INS.CLASS	F	
R.P.M	BEARING		
ROTOR	C BEARING		
SERIAL.	DATE		

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

[illegible]

* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz (LIFT 6,9,12 M)



-NOTE-

접지

1. 전기장치 외함접지는 접지단자를 이용하여 설치해야 하며
 - 1) 400볼트 미만일 때 100옴 이하일 것
 - 2) 400볼트 이상일 때 10옴 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

등전위접지

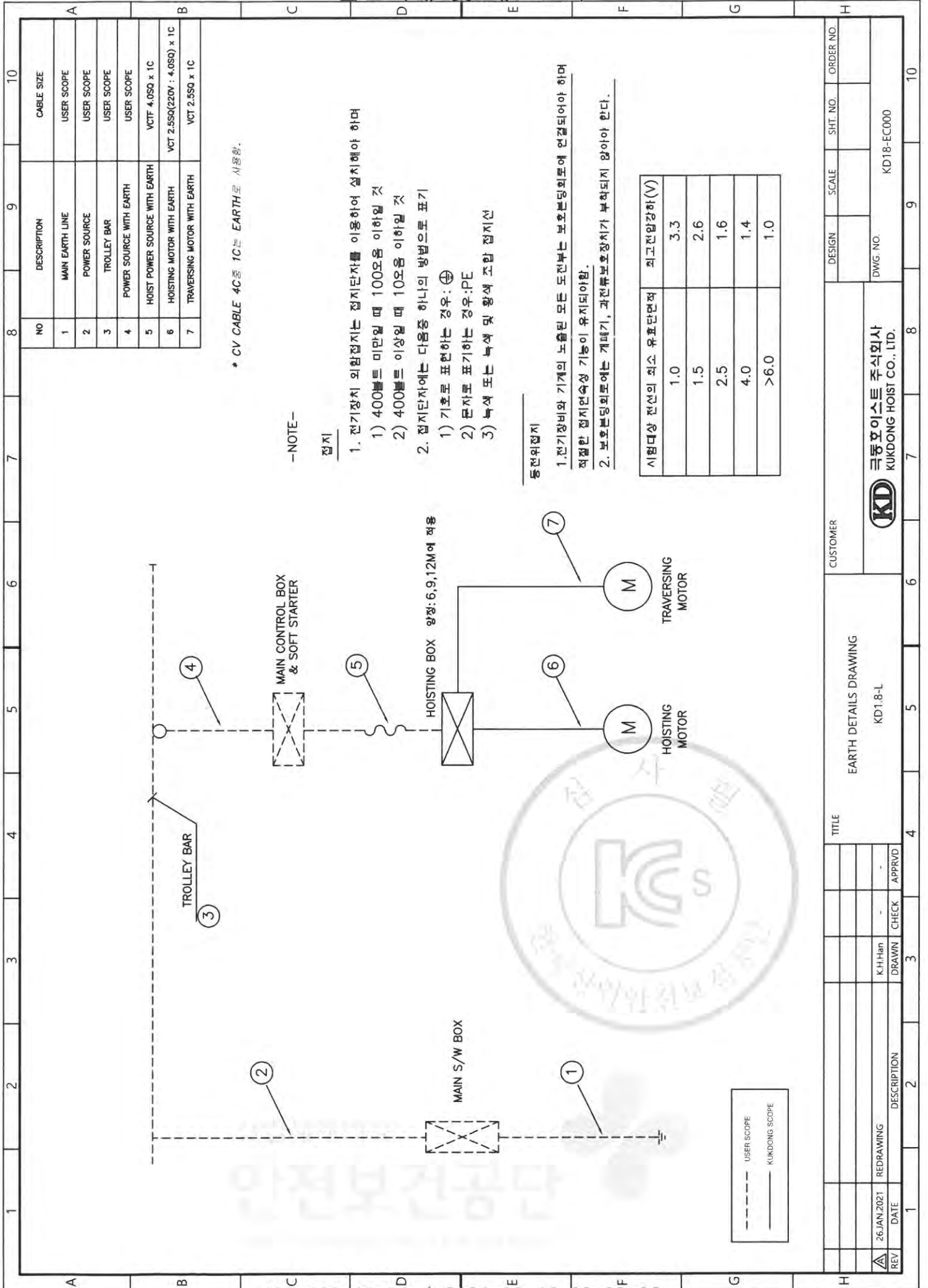
1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야함.
2. 보호본딩회로에는 기계기, 과전류보호장치가 부착되지 않아야 한다..

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

NO	CABLE			REMARK
	TYPE	SIZE	TYPE	
1	VCT	2.5sq	VCT	HOISTING MOTOR WITH EARTH
2	VCT	2.5sq	VCT	T/S MOTOR WITH EARTH
3	VCTF	4.0sq	VCTF	MAIN POWER WITH EARTH

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

CUSTOMER		DESIGN		SCALE	SHT. NO.	ORDER NO.	
GROUND WIRE SYSTEM 1		KD18-E01				KD18-E001	
TITLE		DRAWING		CHECK		APPROVD	
26 JAN 2021		K.H.Han		DRAWN		DATE	
REV		DESCRIPTION		CHECK		APPROVD	





A		B		C		D		E		F		G		H																																					
1		2		3		4		5		6		7		8																																					
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IN DOOR OUT DOOR																																																			
NOTE 1. PROTECTION DEGREE ; A. INDOOR TYPE : DUST PROOF B. OUT DOOR TYPE : SPLASH PROOF 2. FINAL PAINTING COLOR (MUNSELL NO.) A. IN SIDE : 10B 3/5 B. OUT SIDE : 10B 3/5 3. PAINTING THICKNESS : ABOVE 40 um 4. APPLICATION VOLTAGE : 220V, 380V, 440V, 460V, 480V 5. 제어용 전선 : 1.5sq KIV, H/V 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.																																																			
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NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	50AF/40AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC32b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	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	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	35A,25A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 청 색 : 직류 제어회로

2) 적색 : 교류 제어회로

3) 주황색 : 외부전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

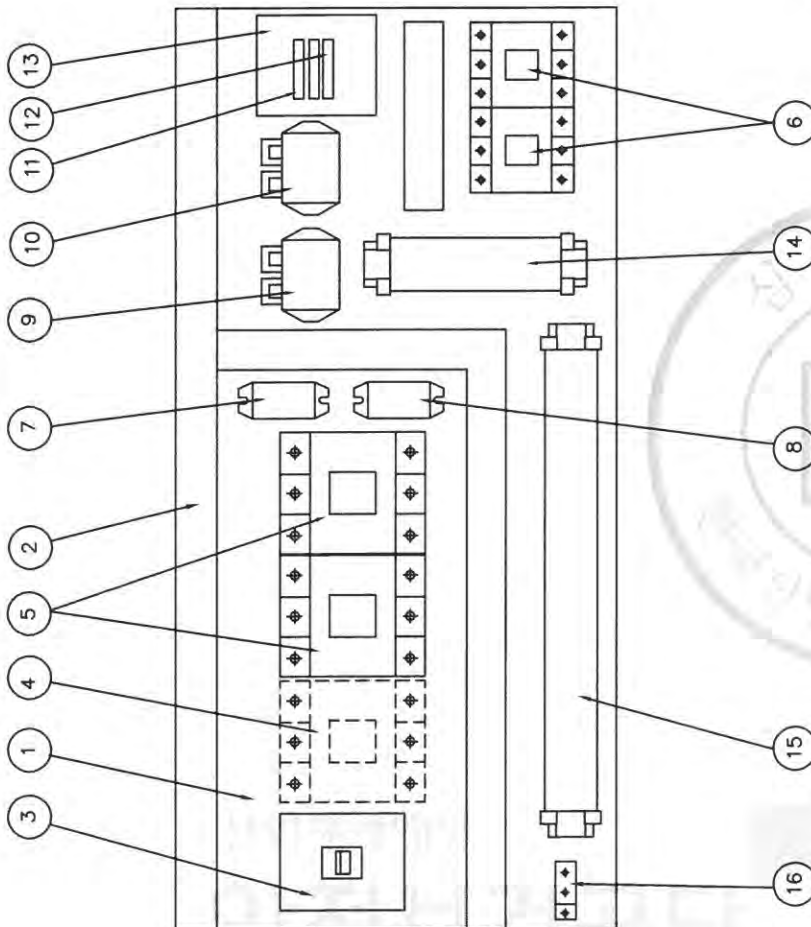
3. 제어용 전선 : 1.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방후 승진부분이 차단되도록 함것.

1) 외함 개방후 승진부분이 차단되도록 함것.

2) 외함 개방후 승진되어있는 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 220V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

----- CRANE SCOPE



REV	DATE	DESCRIPTION	DRAWN	CHECK	APPROVD	TITLE	CUSTOMER	DESIGN	SCALE	SHT. NO.	ORDER NO.
26JAN.2021		REDRAWING	K.H.Han	-	-	PANEL LAY OUT (HIGH)	KD				
						KD18-L	극동호이스트 주식회사 KUKDONG HOIST CO., LTD.				
								DWG. NO.			KD18BA21

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 글
2	CABLE DUCT	-	1	
3	N.F.B	50AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	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	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3tx20x50	1	

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

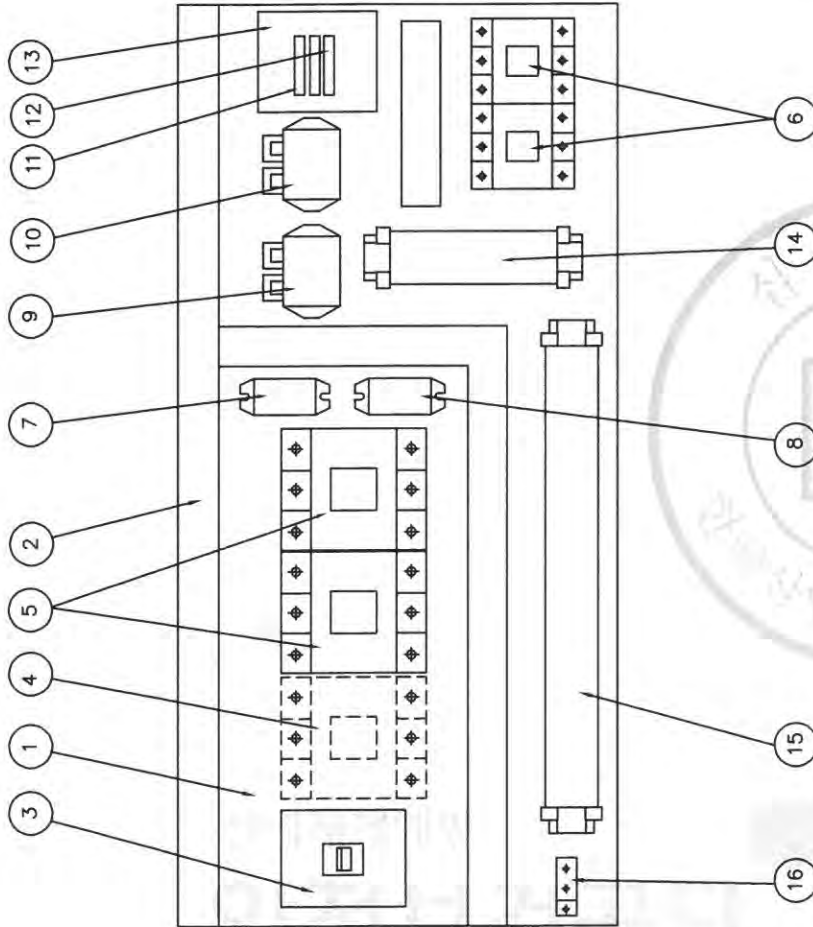
3. 제어용 전선 : 1.5mm KIV,HIV

4. 제자리 다스 변경 필수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

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



NOTE

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

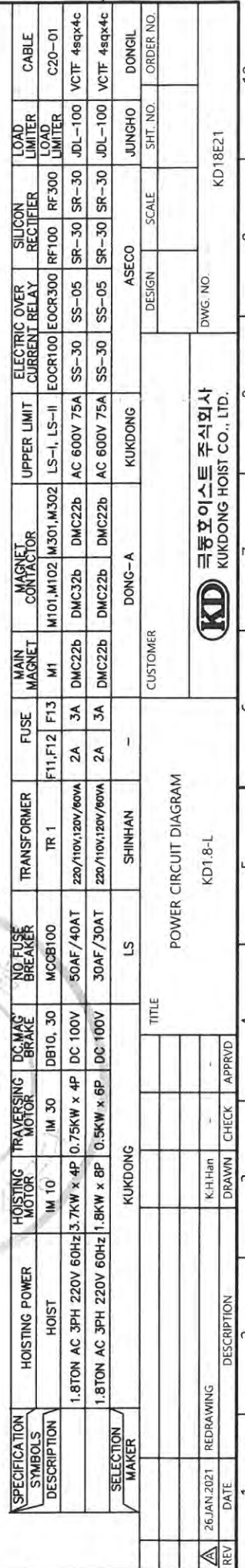
2. POWER SOURCE : AC, 3ø 220V 60HZ

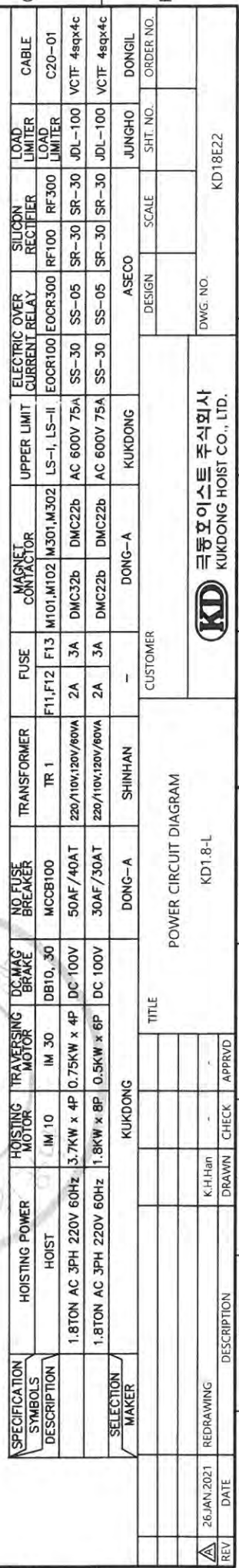
3. EARTH TERMINAL RESISTANCE : 0.018 Ω

----- CRANE SCOPE

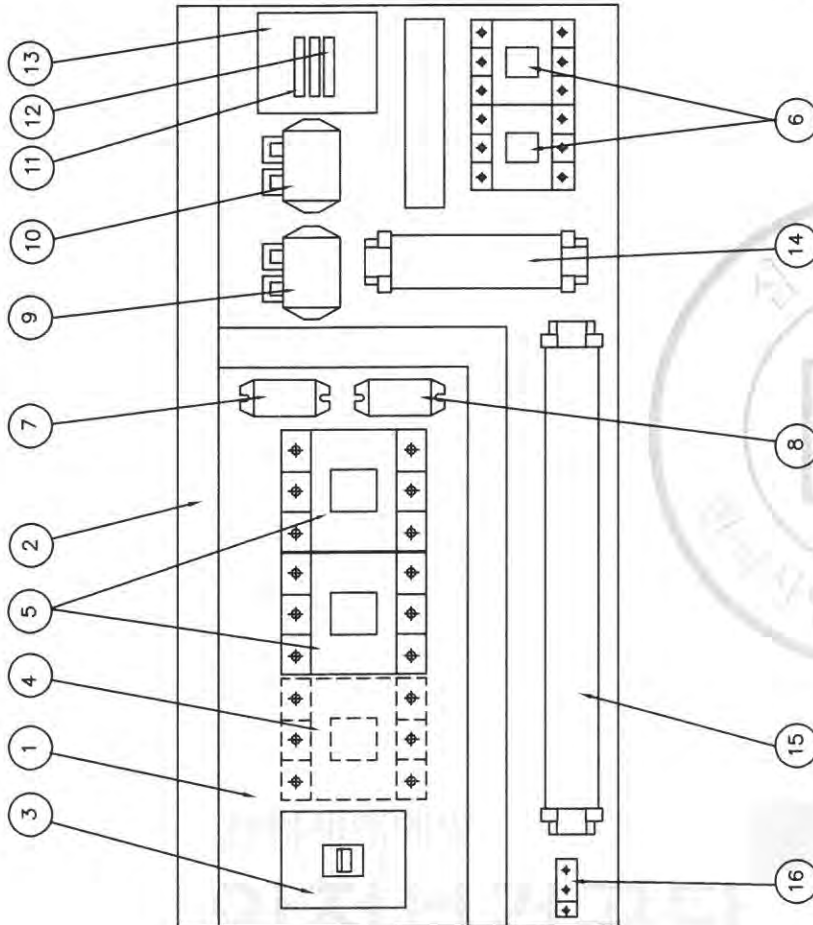


CUSTOMER		TITLE		DESIGN		SCALE		SHT. NO.		ORDER NO.	
KUDONG HOIST CO., LTD.		PANEL LAY OUT (LOW)									
KUDONG HOIST CO., LTD.		KD1.8-L								KD188A22	
DATE		DESCRIPTION		DRAWN		CHECK		APPRVD			
26 JAN 2021		REDRAWING		K.H.Han							





NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3t×20x50	1	



NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 교류 및 직류 전원선으로 5) 정 색 : 직류 제어회로

2) 파 색 : 교류제어선

3) 주황색 : 외부에서 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 개방구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

2) 외함 개방후 충전되어있는 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 380V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018 Ω



----- CRANE SCOPE

CUSTOMER

PANEL LAY OUT (HIGH)

KD18-L

KD 크동호이스트 주식회사

KUKDONG HOIST CO., LTD.

DWG. NO.

KD18BA31

DESIGN SCALE SHT. NO. ORDER NO.

REV DATE REDRAWING DESCRIPTION DRAWN CHECK APPROVD

26 JAN 2021 K.H.Han

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3t×20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 교류 및 직류 전원선
2) 파 색 : 교류제어선
3) 주황색 : 외부에서 공급되는 연동장치 제어회로
4) 녹색 또는 노색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq

3. 제어용 전선 : 1.5mm KIV,HIV

4. 제작시 다스 변경 필수있음.

5. 외함 기밀구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

2) 외함 개방후 충전되어있는 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 380V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018 Ω

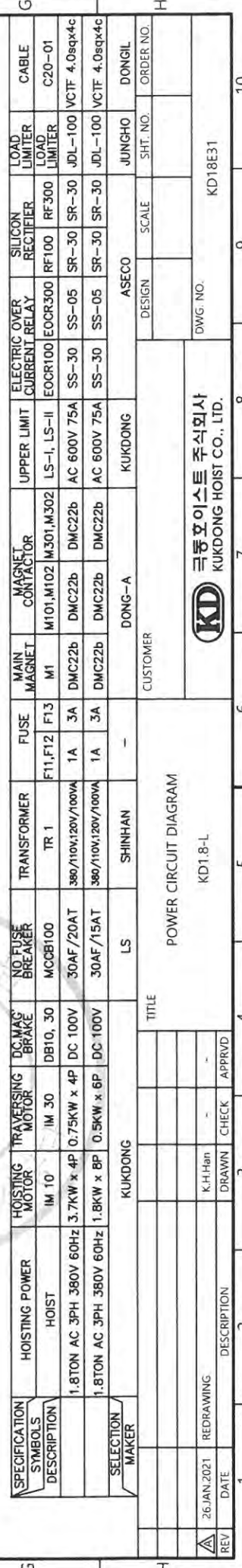
----- CRANE SCOPE

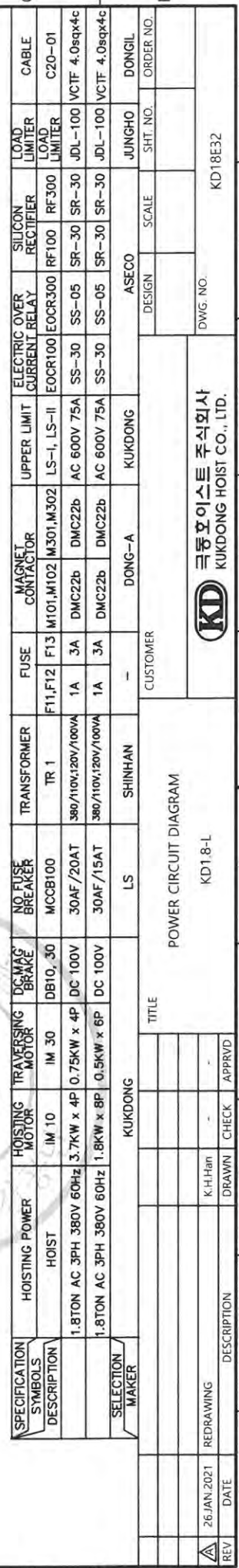
REVISION

REV	DATE	DESCRIPTION	DRAWN	CHECK	APPROVD
1	26 JAN 2021	REDRAWING	K.H.Han	-	-

CUSTOMER KUDONG HOIST CO., LTD. **ORDER NO.** KD18BA32

TITLE PANEL LAY OUT (LOW) **DWG. NO.** KD18-L





NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 교류 및 직류 전원선로 5) 정 색 : 직류 제어회로

2) 적 색 : 교류 제어선

3) 주황색 : 외부에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 1.5sq

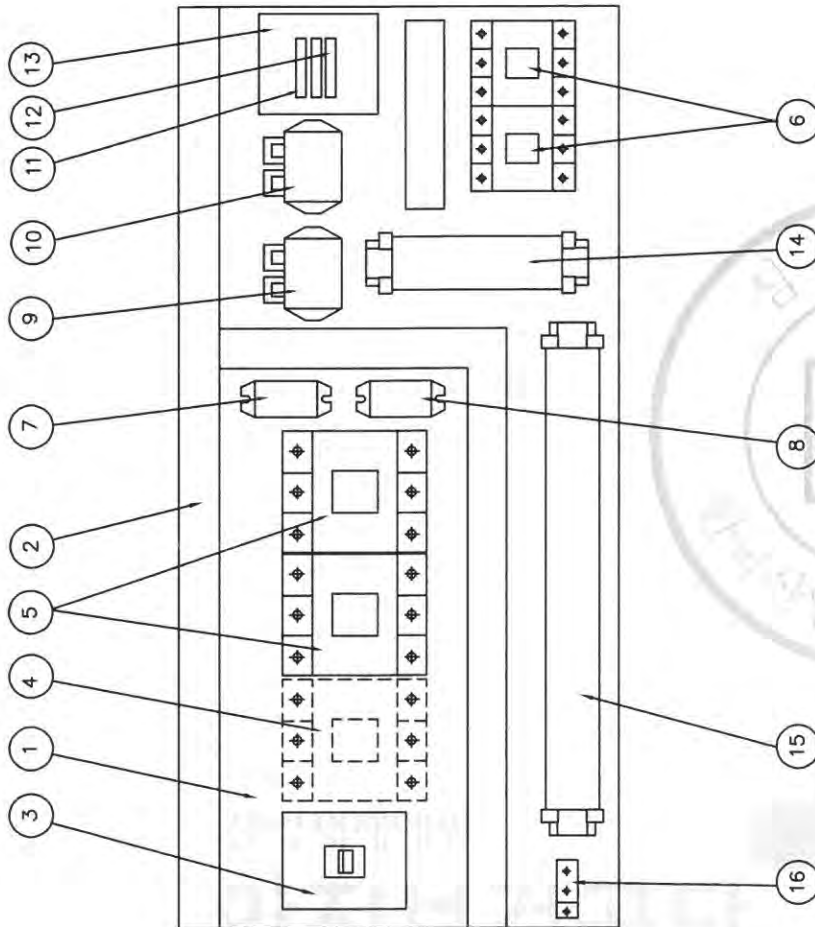
3. 제어용 전선 : 1.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같음.

1) 외함 개방시 승전부분이 차단되도록 함.

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

----- CRANE SCOPE



CUSTOMER

PANEL LAY OUT (HIGH)
KD18-L

TITLE

DATE

DESCRIPTION

REDRAWING

26 JAN. 2021

REV

DRAWN

CHECK

APPROVD

K.H.Han

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KD 크동호이스트 주식회사
KUDONG HOIST CO., LTD.

DWG. NO.

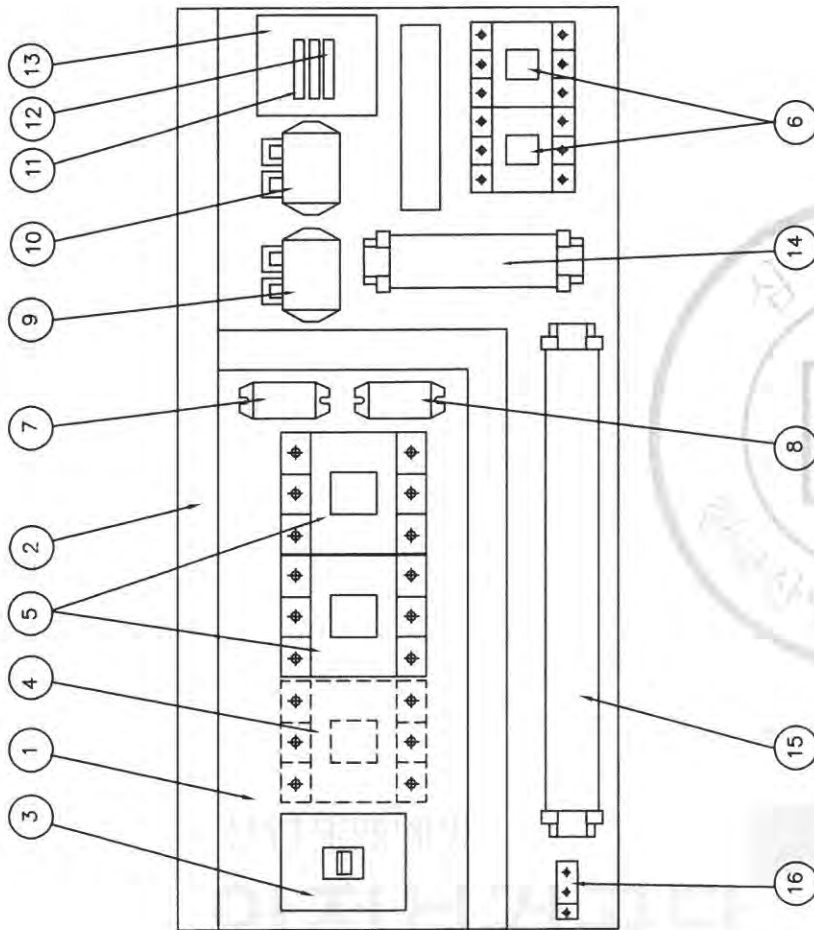
KD18BA41

ORDER NO.

-

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	3CAF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.
 1) 흑 색 : 교류 및 직류 전원선으로 5) 청 색 : 직류 제어회로
 2) 적 색 : 교류제어선
 3) 주황색 : 외부에서 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 다스 변경 필수있음.
 5. 외함 개방구조는 다음과 같을것.
 1) 외함 개방시 충전부분이 차단되도록 할것.
 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

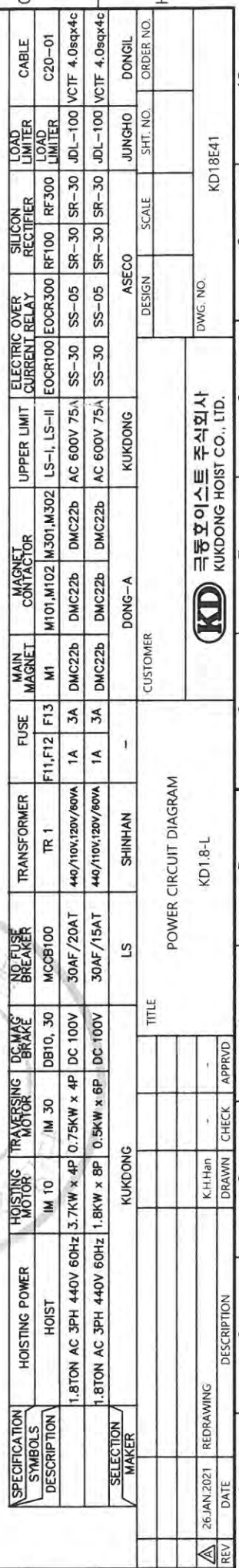


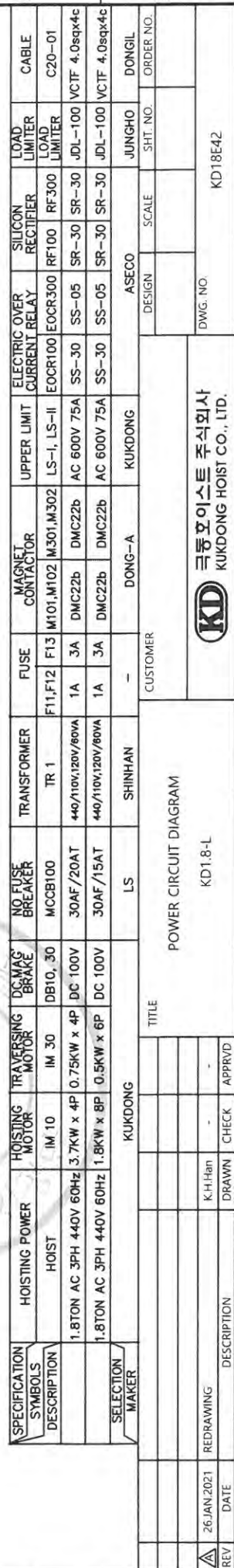
NOTE
 1. UPPER LIMIT LS-1,LS-2의 접점 허용 전류 용량 : AC 600V, 75A
 2. POWER SOURCE : AC. 3ø 440V 60HZ
 3. EARTH TERMINAL RESISTANCE : 0.018 Ω



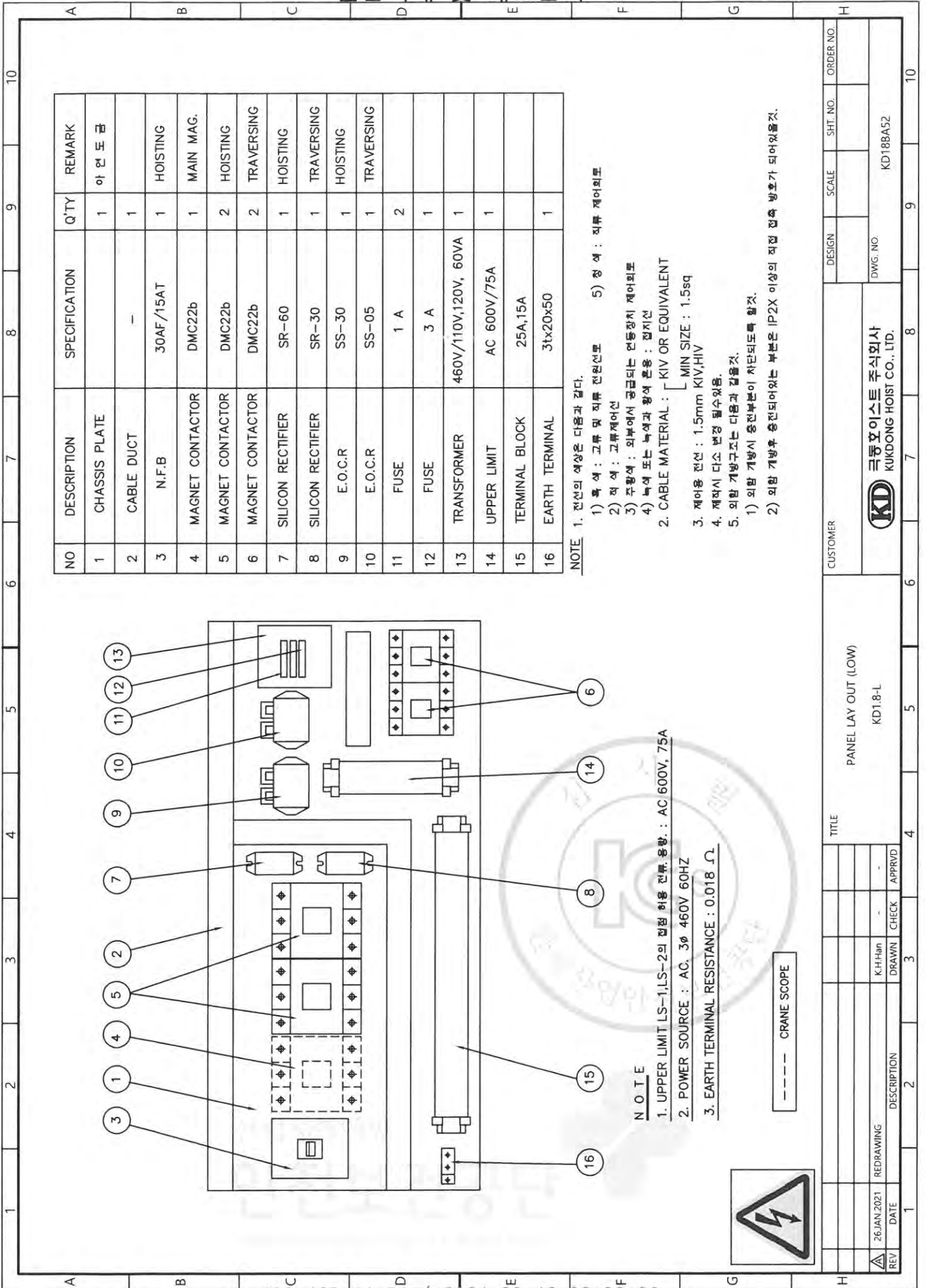
----- CRANE SCOPE

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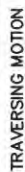
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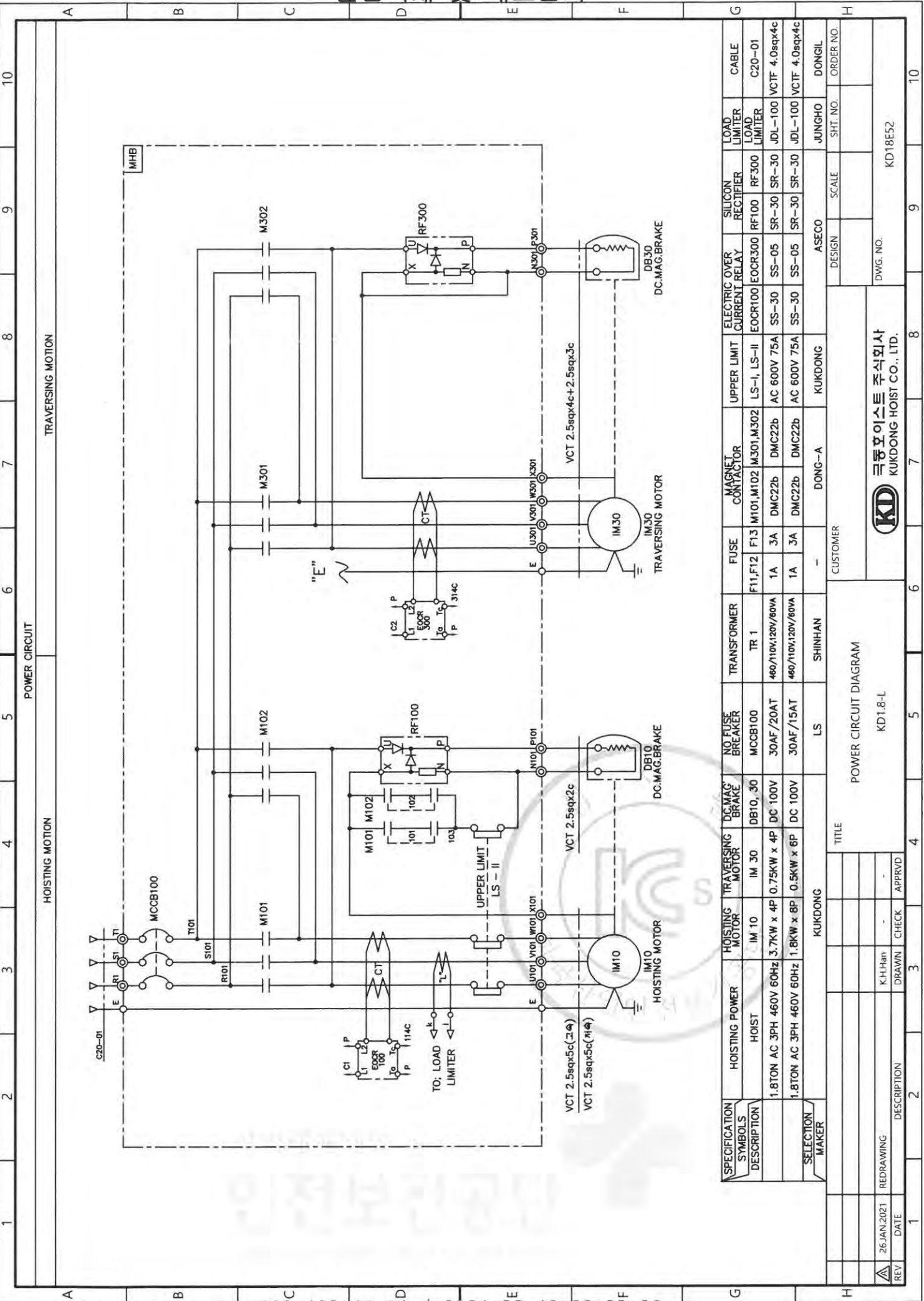
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
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10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3tx20x50	1	

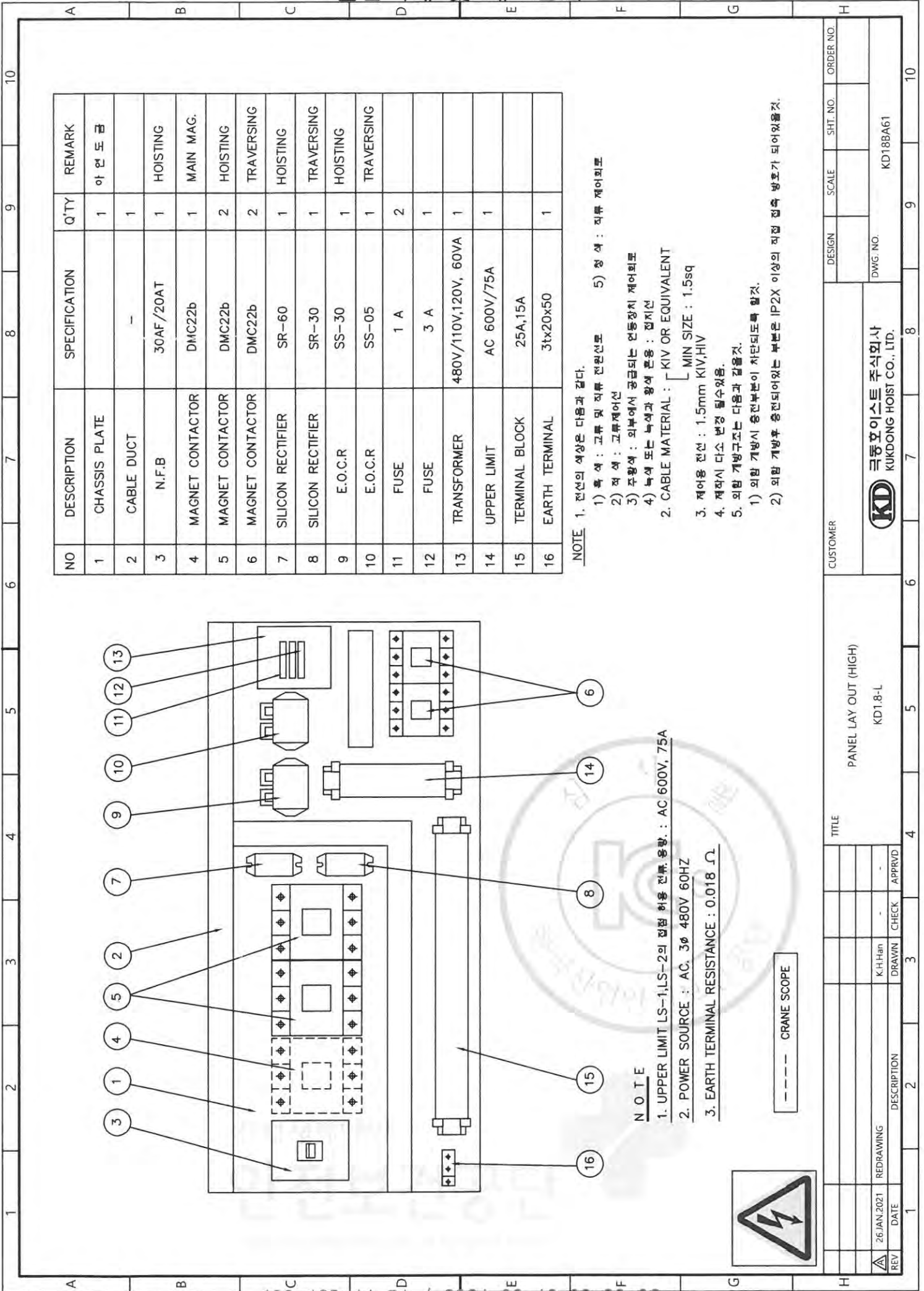
- NOTE 1. 전선의 색상은 다음과 같다.
- 1) 흑 색 : 교류 및 직류 전원선으로 5) 청 색 : 직류 제어회로
- 2) 적 색 : 교류 제어선
- 3) 주황색 : 외부에서 공급되는 연동장치 제어회로
- 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
3. 제어용 전선 : 1.5mm KIV/HIV
4. 접착시 디소 변경 필수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 충전부분이 차단되도록 할것.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

CUSTOMER		TITLE		PANEL LAY OUT (LOW)		ORDER NO.	
KUDONG HOIST CO., LTD.		KD18-L		KD18-L		KD18BA52	
DWG. NO.		DESIGN		SCALE		SHT. NO.	
26 JAN 2021		REDRAWING		K.H.Han		DATE	
REV		DESCRIPTION		DRAWN		CHECK	
1		2		3		4	



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE			
							F11,F12	F13										
DESCRIPTION	HOIST	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M1	M101,M102	LS-I, LS-II	EOCR100	RF100	RF300	C20-01			
	1.8TON AC 3PH 460V 60Hz	3.7KW x 4P	0.75KW x 4P	DC 100V	30AF /20AT	460/110V/120V/80VA	1A	3A	DMC22b	DMC22b	AC 600V 75A	SS-30	SR-30	JDL-100	VC1F 4.0sqx4c			
	1.8TON AC 3PH 460V 60Hz	1.8KW x 8P	0.5KW x 6P	DC 100V	30AF /15AT	460/110V/120V/80VA	1A	3A	DMC22b	DMC22b	AC 600V 75A	SS-30	SR-30	JDL-100	VC1F 4.0sqx4c			
SELECTION MAKER		KUKDONG			LS	SHINHAN	-		DONG-A			KUKDONG	ASECO	JUNGHO	DONGIL			
					TITLE													
					POWER CIRCUIT DIAGRAM													
					KD1.8-L													
									 크동호이스트 주식회사 KUKDONG HOIST CO., LTD.							DWG. NO.		KD18E51
 26-JAN-2021	REDRAWING	K.H.Han	-	-	-													
DATE	DESCRIPTION	DRAWN	CHECK	APPROV														

[illegible]



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	25A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.
1) 흑 색 : 교류 및 직류 전원선으로 5) 청 색 : 직류 제어회로
2) 적 색 : 교류제어선
3) 주황색 : 외부에서 공급되는 전동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq

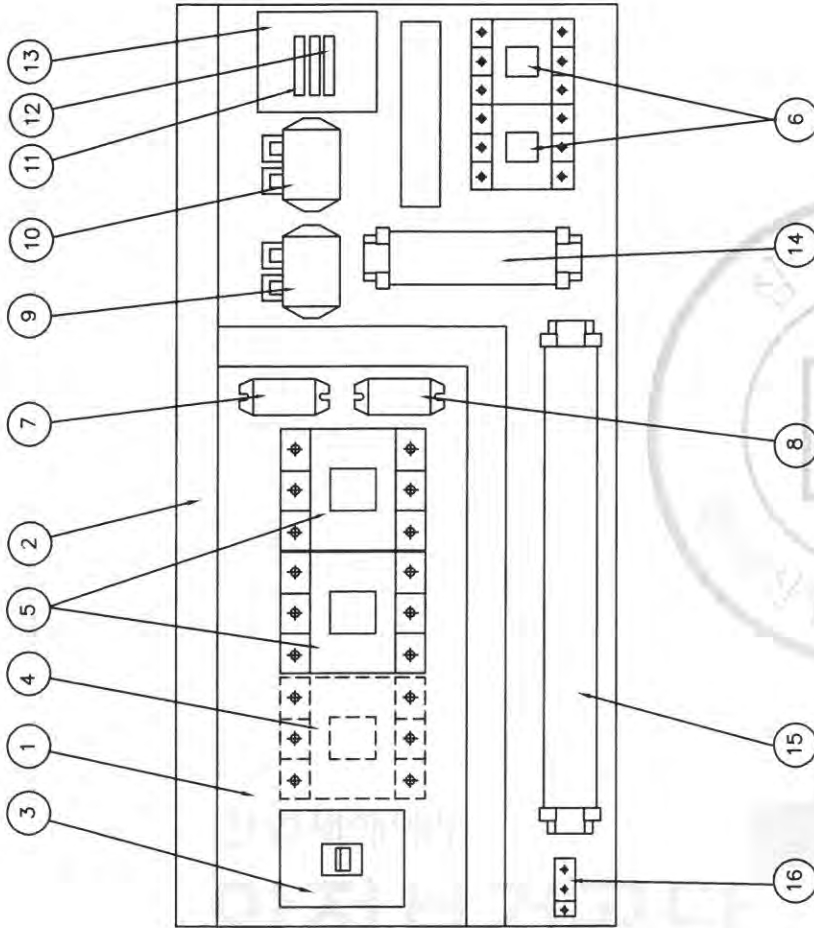
3. 제어용 전선 : 1.5mm KIV,HIV

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.



NOTE

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

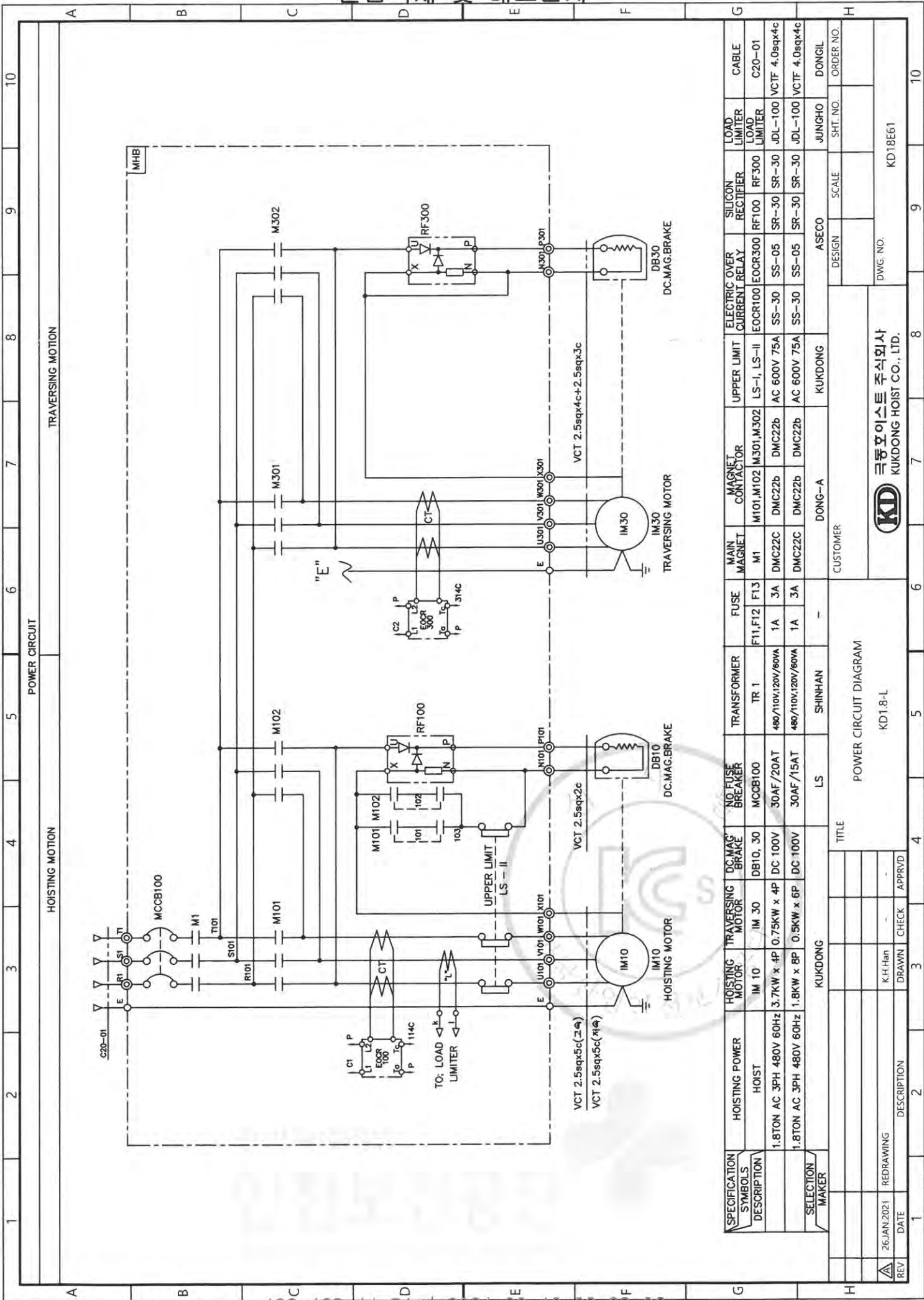
2. POWER SOURCE : AC. 3ø 480V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

----- CRANE SCOPE

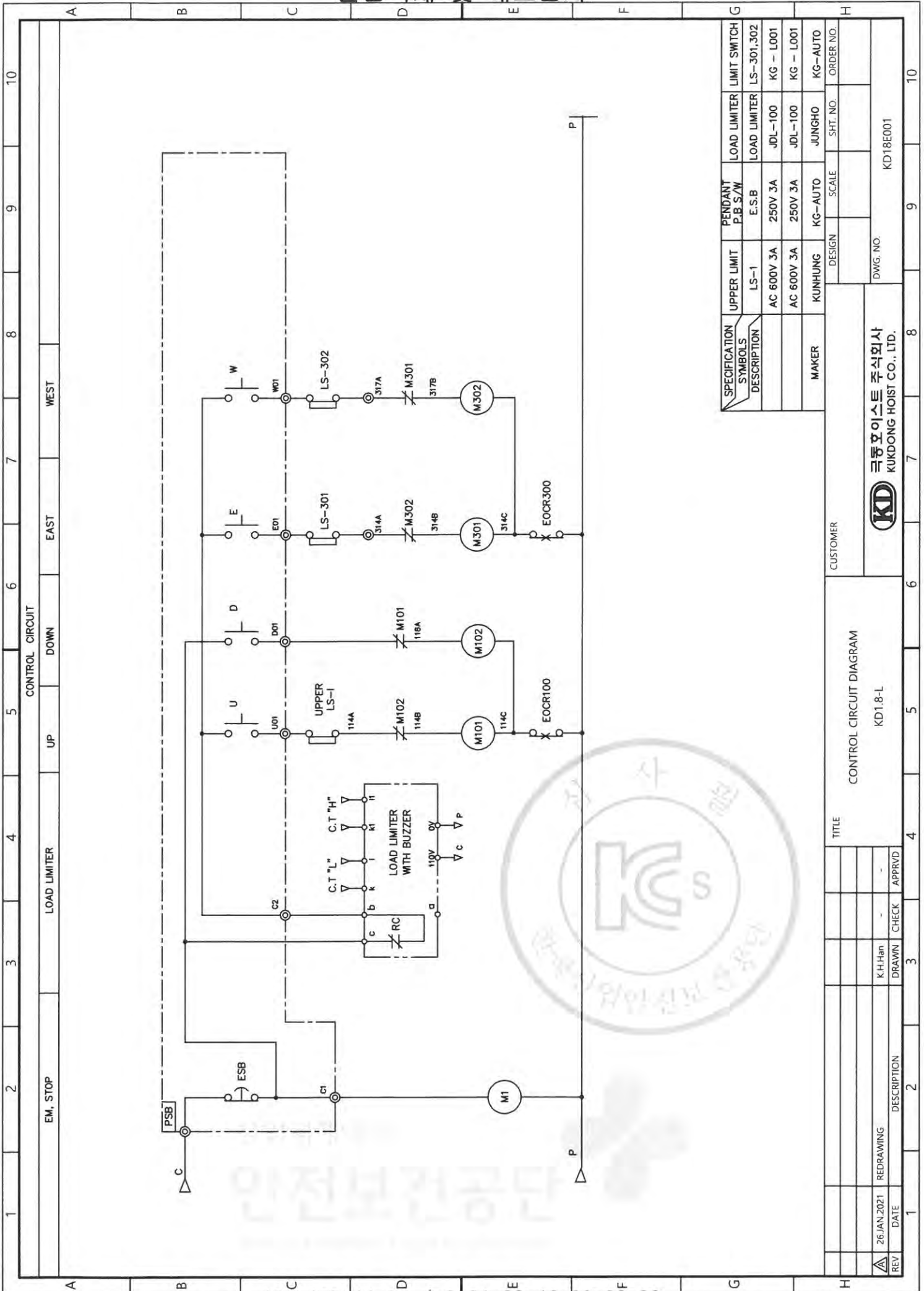


CUSTOMER		TITLE		PANEL LAY OUT (LOW)		ORDER NO.	
KUDONG HOIST CO., LTD.		KD18-L		KD18A62			
REDRAWING		K.H.Han		DWG NO.			
DATE	DESCRIPTION	DRAWN	CHECK	APPROV			
26 JAN 2021							



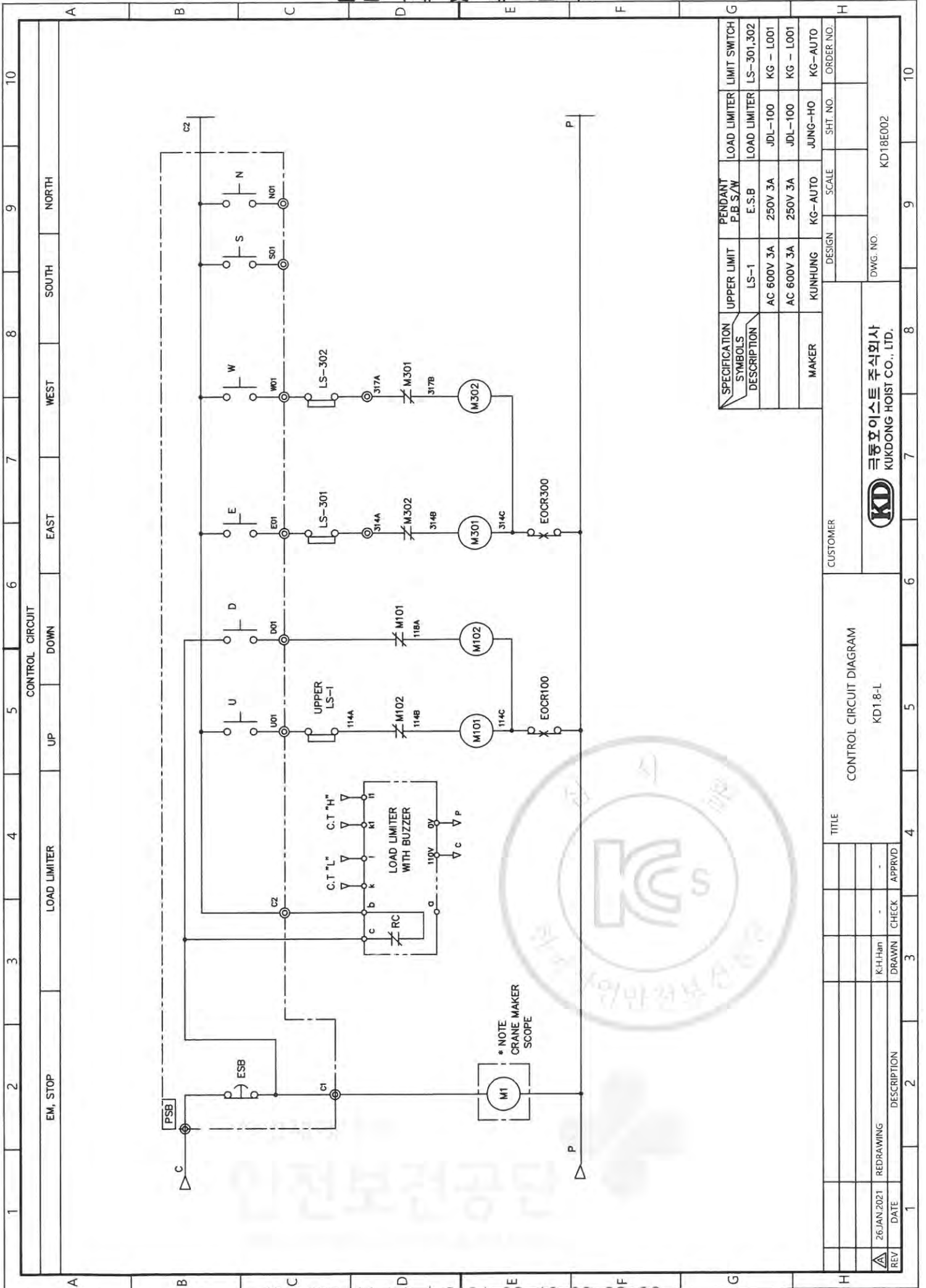
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[illegible]



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 3A	250V 3A	JDL-100	KG - L001
	AC 600V 3A	250V 3A	JDL-100	KG - L001
MAKER	KUNHUNG	KG-AUTO	JUNGHO	KG-AUTO
	DESIGN	SCALE	SHT. NO.	ORDER NO.

REV		DATE	DESCRIPTION	DRAWN	CHECK	APPROV	TITLE			CUSTOMER		CONTROL CIRCUIT DIAGRAM		KD18-L		KUKDONG HOIST CO., LTD.		DWG. NO.		KD18E001		ORDER NO.	
26 JAN 2021			REDRAWING	K.H.Han	-	-																	

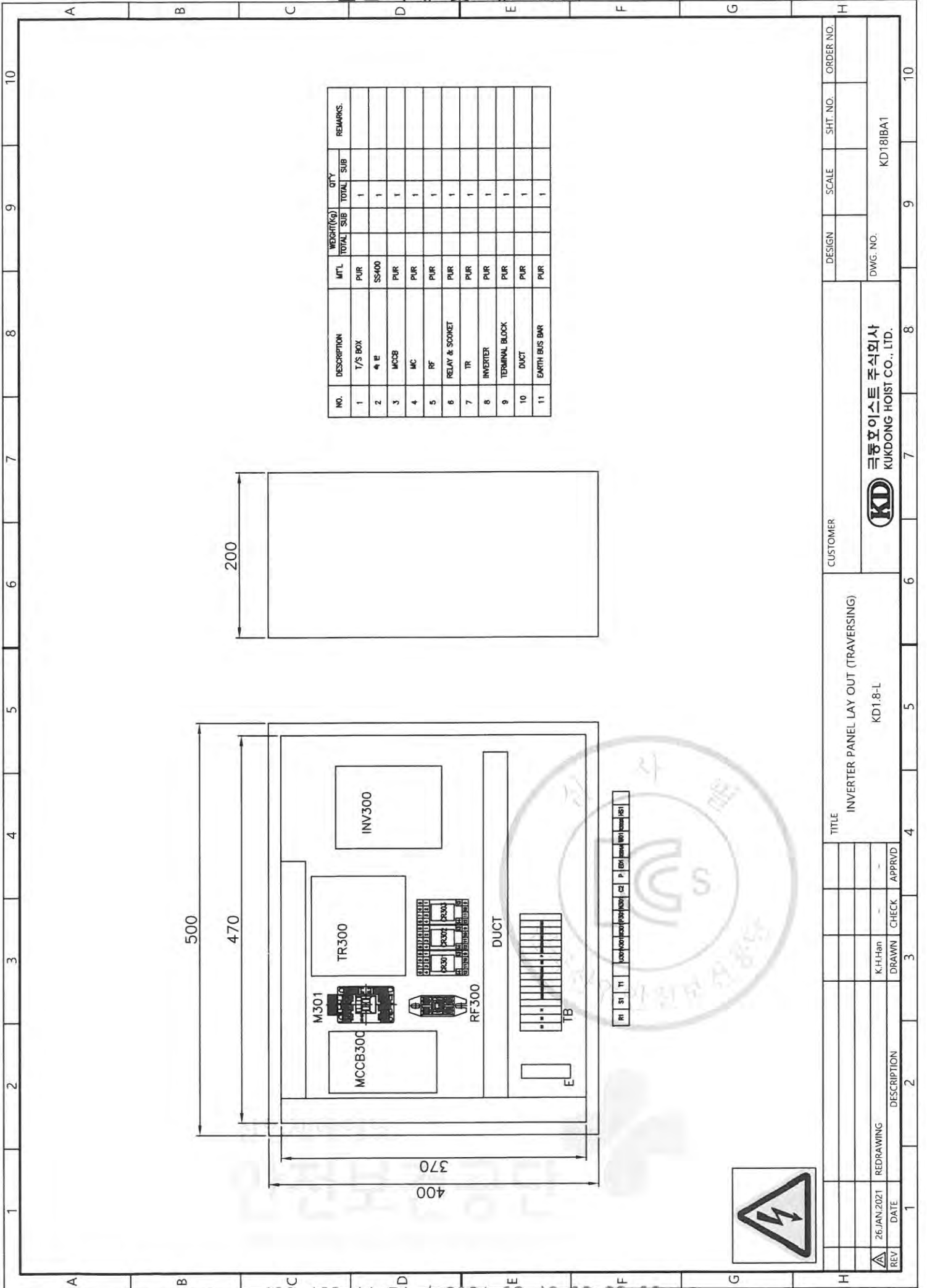


SPECIFICATION SYMBOLS	UPPER LIMIT	PENDANT P.B. S/W	LOAD LIMITER	LIMIT SWITCH
DESCRIPTION	LS-1	E.S.B	LOAD LIMITER	LS-301,302
	AC 600V 3A	250V 3A	JDL-100	KG - L001
	AC 600V 3A	250V 3A	JDL-100	KG - L001
MAKER	KUNHUNG	KG-AUTO	JUNG-HO	KG-AUTO

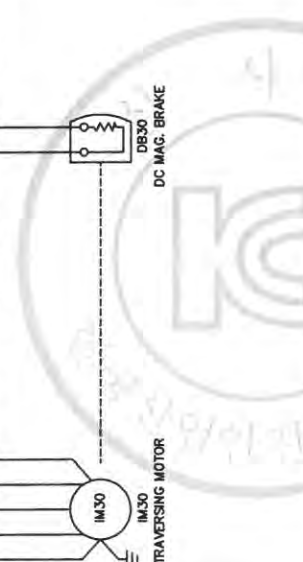
CUSTOMER	DESIGN	SCALE	SHT. NO.	ORDER NO.
KD	KUNHUNG	KG-AUTO	JUNG-HO	KG-AUTO

TITLE	CONTROL CIRCUIT DIAGRAM	DWG. NO.
KD18-L	KD18E002	KD18E002

REV	DATE	DESCRIPTION	CHECK	APPRVD
26	JAN.2021	REDRAWING	K.H.Han	-

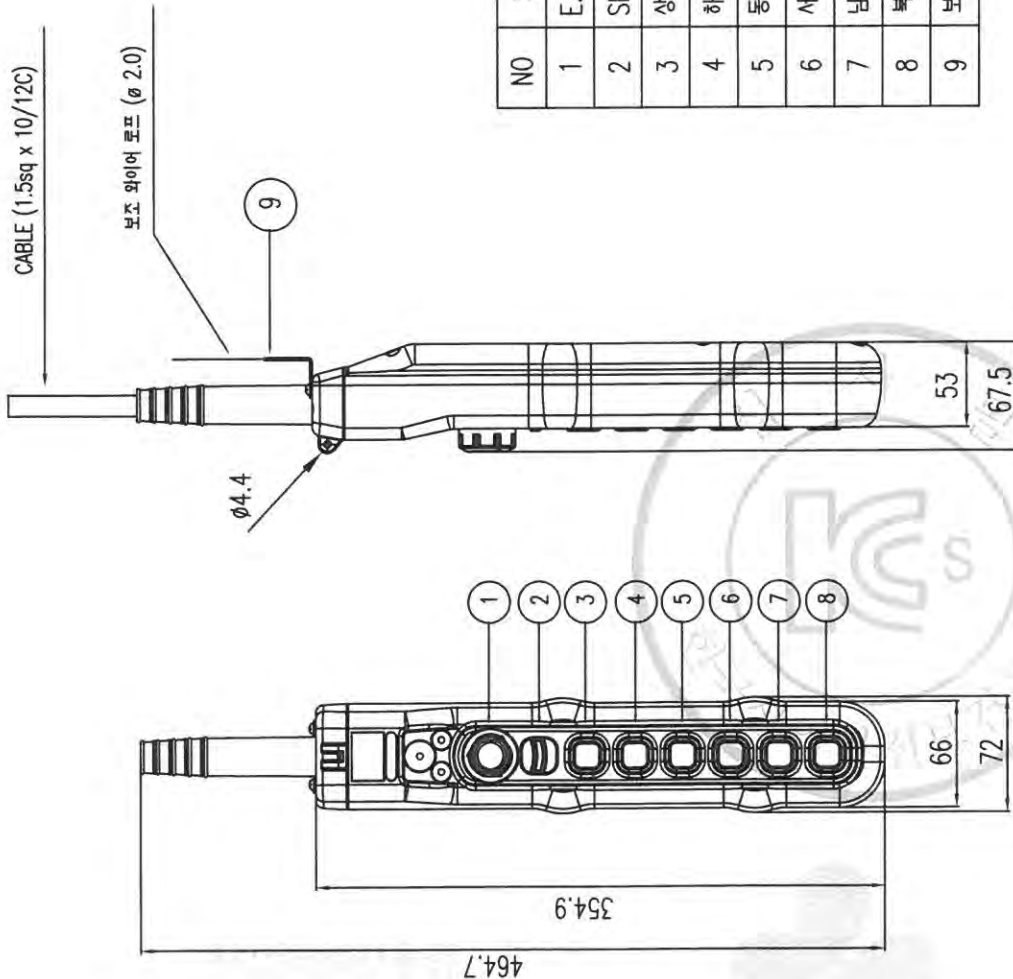


REV		DATE	DESCRIPTION	DRAWN	CHECK	APPRVD	TITLE		CUSTOMER		DESIGN	SCALE	SHT. NO.	ORDER NO.
26 JAN 2021			REDRAWING	K.H.Han	-	-	INVERTER PANEL LAY OUT (TRAVERSING)		KD18-L					
									극동호이스트 주식회사 KUKDONG HOIST CO., LTD.					
									극동호이스트 주식회사 KUKDONG HOIST CO., LTD.					
									극동호이스트 주식회사 KUKDONG HOIST CO., LTD.					



10

A	B	C	D	E	F	G	H																																																						
1	2	3	4	5	6	7	8																																																						
9	10																																																												
1 2 3 4 5 6 404.7 294.9 66 72 7 53 67.5 Ø4.4 CABLE (1.5sq x 7C/10C) 보조 와이어 포프 (Ø 2.0) * MATERIAL : POLYCARBONATE(PLASTIC) * BODY COLOR : YELLOW, BLACK * IP : 55 이상 <table><thead><tr><th>구분</th><th>조작버튼</th><th>표시등</th></tr></thead><tbody><tr><td>적색</td><td>비상</td><td>비상</td></tr><tr><td>황색</td><td>비정상</td><td>비정상</td></tr><tr><td>녹색</td><td>정상</td><td>정상</td></tr><tr><td>청색</td><td>의무</td><td>의무</td></tr><tr><td>흰색, 외색 -흑색</td><td>지정된의미없음</td><td>기타</td></tr></tbody></table><table><thead><tr><th>NO</th><th>SYMBOL</th><th>TYPE</th><th>SPEC.</th><th>COLOR</th></tr></thead><tbody><tr><td>1</td><td>E.B.S</td><td>PUSH LOCK TURN RESET TYPE</td><td rowspan="5">250VAC x 6A</td><td>RED</td></tr><tr><td>2</td><td>SPARE</td><td></td><td></td></tr><tr><td>3</td><td>상</td><td>1PUSH BUTTON 1STEP</td><td>BLACK</td></tr><tr><td>4</td><td>하</td><td>1PUSH BUTTON 1STEP</td><td></td></tr><tr><td>5</td><td>동(전)</td><td>1PUSH BUTTON 1STEP (2STEP)</td><td></td></tr><tr><td>6</td><td>서(후)</td><td>1PUSH BUTTON 1STEP (2STEP)</td><td></td><td></td></tr><tr><td>7</td><td>보조 와이어</td><td>Ø 2.0</td><td></td><td></td></tr></tbody></table> 05.AUG.2016 DATE REDRAWING DESCRIPTION K.H.Han DRAWN - CHECK - APPRVD CUSTOMER TITLE KD PENDANT PUSH BUTTON SWITCH 극동호이스트 주식회사 LAY OUT KUKDONG HOIST CO., LTD. DESIGN SCALE SHT. NO. ORDER NO. DWG. NO.								구분	조작버튼	표시등	적색	비상	비상	황색	비정상	비정상	녹색	정상	정상	청색	의무	의무	흰색, 외색 -흑색	지정된의미없음	기타	NO	SYMBOL	TYPE	SPEC.	COLOR	1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED	2	SPARE			3	상	1PUSH BUTTON 1STEP	BLACK	4	하	1PUSH BUTTON 1STEP		5	동(전)	1PUSH BUTTON 1STEP (2STEP)		6	서(후)	1PUSH BUTTON 1STEP (2STEP)			7	보조 와이어	Ø 2.0		
구분	조작버튼	표시등																																																											
적색	비상	비상																																																											
황색	비정상	비정상																																																											
녹색	정상	정상																																																											
청색	의무	의무																																																											
흰색, 외색 -흑색	지정된의미없음	기타																																																											
NO	SYMBOL	TYPE	SPEC.	COLOR																																																									
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED																																																									
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5	동(전)	1PUSH BUTTON 1STEP (2STEP)																																																											
6	서(후)	1PUSH BUTTON 1STEP (2STEP)																																																											
7	보조 와이어	Ø 2.0																																																											



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

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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

REV	DATE	REDRAWING	DESCRIPTION	DRAWN	CHECK	APPRVD	TITLE	CUSTOMER	DESIGN	SCALE	SHT. NO.	ORDER NO.
05.AUG.2016				K.H.Han	-	-	PENDANT PUSH BUTTON SWITCH LAY OUT	극동호이스트 주식회사 KUKDONG HOIST CO., LTD.				

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	280	1004.2	1033.3	879.2
180×100×t6/10	270	1035.6	1054.4	1110.9
200×100×t7/10	310	1016	1039.3	1126.6
200×150×t9/16	450	952.1	1013.7	789.3
250×125×t7.5/12.5	480	983.2	1034.8	978.4
250×125×t10/19	570	949.8	1035.6	840.1
300×150×t8/13	650	947.8	1032.8	952.6
300×150×t10/18.5	760	886.1	1012	853.9
300×150×t11.5/22	810	875.8	1031.2	804.8
350×150×t9/15	830	892	1015.6	1016
350×150×t12/24	1000	825.6	1031	879.5
400×150×t10/18	1040	845	1025.6	1095.6
400×150×t12.5/25	1160	823.2	1084.3	969.6

☞ 기본 조건

정격하중 (Kg)	양정 (m)	권상속도 (m/min)	호이스트		작업계수	풍력계수
			자중 (Kg)	풍압면적 (m ²)		
1800	12	3.7	390	0.6	1.14	1.2

*첨부 강도계산서 참조

[I-BEAM 최대 지지거리 강도계산서]

1. 굽힘 MOMENT 계산

1-1. 수직하중에 의한 굽힘 MOMENT

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

$$\begin{aligned} \text{※ 작업계수}(\phi) &= 1.14 \\ \text{※ BEAM 자중 (kg)} &= \text{BEAM 단위중량(kg/cm)} \times \text{지지거리(cm)} \end{aligned}$$

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

$$\begin{aligned} \text{※ 이동하중 (kg)} &= \text{정격하중} + \text{호이스트 자중} \\ &= 1800 + 390 = 2190 \quad (\text{kg}) \end{aligned}$$

$$\begin{aligned} \text{※ 충격계수}(\psi) &= 1 + 0.6V \quad (\text{단, } \psi < 1.1 \text{ 이면 } \psi = 1.1, \quad \psi > 1.6 \text{ 이면 } \psi = 1.6 \text{ 으로 한다.}) \\ &= 1 + (0.6 \times 0.062) = 1.0372 \quad \text{-----> } 1.1 \end{aligned}$$

$$\text{※ 권상속도}(V) = \frac{3.7}{60} \quad (\text{m/min}) = 0.062 \quad (\text{m/sec})$$

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

1-2. 풍하중에 의한 굽힘 MOMENT

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

$$\begin{aligned} \text{※ 풍하중}(W) &= \text{속도압}(q) \times \text{풍력계수} \times \text{풍압을 받는 면적}(A) \quad (\text{kg}) \\ \text{※ 속도압}(q) &= 8.5 \times \sqrt[4]{h} = 15.8 \quad (h = \text{양정: } 12) \\ \text{※ 풍력계수}(C) &= 1.2 \quad (\text{크레인 제작기준 참조}) \\ \text{※ 풍압을 받는 면적}(A) &= \text{I-BEAM의 풍압면적} + \text{HOIST의 풍압면적} \quad (\text{m}^2) \\ \text{※ HOIST의 풍압 면적} &= 0.6 \quad (\text{m}^2) \end{aligned}$$

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)	ΣMv (kg · cm)	I-BEAM 품입면적 (㎡)	W (kg)	Mw (kg · cm)	σ _v (kg/cm ²)	σ _w (kg/cm ²)
		단위총량 (kg/cm)	자중 (kg)		Zx (cm ³)	Zy (cm ³)								
150 × 125 × t8.5/14	280	0.362	101.36		235	61.6	4044.26	192238.20	196282.46	0.42	19.34	2707.49	835.24	43.95
180 × 100 × t6/10	270	0.236	63.72		186	27.5	2451.63	185372.55	187824.18	0.49	20.59	2779.73	1009.81	101.08
200 × 100 × t7/10	310	0.26	80.6		217	27.7	3560.51	212835.15	216395.66	0.62	23.13	3585.34	997.22	129.43
200 × 150 × t9/16	450	0.504	226.8		446	100	14543.55	308954.25	323497.80	0.90	28.44	6399.00	725.33	63.99
250 × 125 × t7.5/12.5	480	0.383	183.84		414	53.9	12574.66	329551.20	342125.86	1.20	34.13	8190.72	826.39	151.96
250 × 125 × t10/19	570	0.555	316.35		585	86	25695.53	391342.05	417037.58	1.43	38.39	10942.29	712.88	127.24
300 × 150 × t8/13	650	0.483	313.95		632	78.4	29079.62	446267.25	475346.87	1.95	48.35	15713.10	752.13	200.42
300 × 150 × t10/18.5	760	0.655	497.8		849	118	53911.74	521789.40	575701.14	2.28	54.60	20749.82	678.09	175.85
300 × 150 × t11.5/22	810	0.768	622.08		978	143	71803.58	556117.65	627921.23	2.43	57.45	23266.76	642.05	162.70
350 × 150 × t9/15	830	0.585	485.55		870	93.5	57428.43	569848.95	627277.38	2.91	66.45	27578.74	721.01	294.96
350 × 150 × t12/24	1000	0.872	872		1280	158	124260.00	686565.00	810825.00	3.50	77.74	38868.00	633.46	246.00
400 × 150 × t10/18	1040	0.72	748.8		1200	115	110972.16	714027.60	824999.76	4.16	90.25	46929.79	687.50	408.09
400 × 150 × t12.5/25	1160	0.958	1111.28		1580	165	183694.58	796415.40	980109.98	4.64	99.35	57623.23	620.32	349.23

[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: $\sum \sigma \leq 1159 \text{ (kg/cm}^2\text{)} (= \text{SS400 허용굽힘응력 } 1449 \times 0.8)$
 $\ast \sum \sigma = \sigma_v + \sigma_w$

$\ast$ I-BEAM 자중에 의한 처짐 (σ_s)

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

$\ast$ 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)

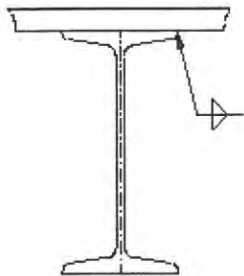
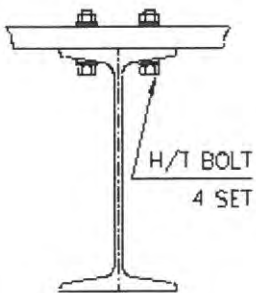
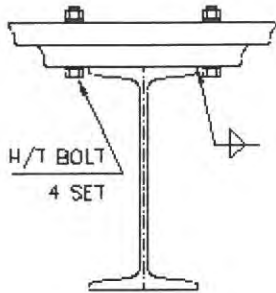
$I_x =$ 단면2차MOMENT

판정기준		
> 800	> 1000	≤ 1159

I-BEAM 규격	I_x (cm ⁴)	최대지지 거리(cm)	σ_s (cm)	σ_d (cm)	처짐량판정1	처짐량판정2	$\sum \sigma$ (kg/cm ²)
150 × 125 × t8.5/14	1760	280	0.0078	0.2710	1004.2	1033.3	879.2
180 × 100 × t6/10	1670	270	0.0047	0.2561	1035.6	1054.4	1110.9
200 × 100 × t7/10	2170	310	0.0069	0.2983	1016	1039.3	1126.6
200 × 150 × t9/16	4460	450	0.0287	0.4439	952.1	1013.7	789.3
250 × 125 × t7.5/12.5	5180	480	0.0243	0.4638	983.2	1034.8	978.4
250 × 125 × t10/19	7310	570	0.0497	0.5504	949.8	1035.6	840.1
300 × 150 × t8/13	9480	650	0.0564	0.6294	947.8	1032.8	952.6
300 × 150 × t10/18.5	12700	760	0.1067	0.7510	886.1	1012	853.9
300 × 150 × t11.5/22	14700	810	0.1394	0.7855	875.8	1031.2	804.8
350 × 150 × t9/15	15200	830	0.1133	0.8173	892	1015.6	1016
350 × 150 × t12/24	22400	1000	0.2414	0.9699	825.6	1031	879.5
400 × 150 × t10/18	24100	1040	0.2167	1.0141	845	1025.6	1095.6
400 × 150 × t12.5/25	31700	1160	0.3393	1.0698	823.2	1084.3	969.6

■ I-BEAM의 고정방법 및 사양

1. I-BEAM의 고정방법

용접구조	BOLT 체결구조	복합구조
	 H/T BOLT 4 SET	 H/T BOLT 4 SET

2. 기본조건 및 사양

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

단위: mm

정격하중(Kg)	용접구조		BOLT 체결구조
	최소 용접두께	최소 용접길이	최소 BOLT SIZE
1800	6	150	M16 x 4set

단, 적용 I-BEAM 400×150×t12.5/25 의 경우임

※강도계산서 참조



인신보건공단

[I-BEAM 고정볼트 강도 및 용접강도 계산서]

1) I-BEAM 고정방법중 BOLT구조의 강도 계산

[H/T BOLT의 허용인장응력 : 2500 kg/cm²]

☞ 작용하중 계산

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

충격계수 ψ =	1.1
작업계수 ϕ =	1.14
정격하중 Q =	1800
HOIST자중 $Q1$ =	390

☞ BOLT 1 개당 인장강도 계산

$$\sigma = \frac{P}{A} = 4 \times \frac{P}{(\pi \times d^2 \times z)}$$

※ 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	101.36	2524.6	M12	4	1.13	558.5
180 × 100 × t6/10	63.72	2481.6	M12	4	1.13	549
200 × 100 × t7/10	80.6	2500.9	M12	4	1.13	553.3
200 × 150 × t9/16	226.8	2667.6	M12	4	1.13	590.2
250 × 125 × t7.5/12.5	183.84	2618.6	M12	4	1.13	579.3
250 × 125 × t10/19	316.35	2769.6	M12	4	1.13	612.7
300 × 150 × t8/13	313.95	2766.9	M12	4	1.13	612.1
300 × 150 × t10/18.5	497.8	2976.5	M12	4	1.13	658.5
300 × 150 × t11.5/22	622.08	3118.2	M12	4	1.13	689.9
350 × 150 × t9/15	485.55	2962.5	M12	4	1.13	655.4
350 × 150 × t12/24	872	3403.1	M12	4	1.13	752.9
400 × 150 × t10/18	748.8	3262.6	M12	4	1.13	721.8
400 × 150 × t12.5/25	1111.28	3675.9	M12	4	1.13	813.3

불법복제 및 배포금지

2) I-BEAM 고정방법중 용접구조의 강도 계산

[용접이음의 허용응력: 560 kg/cm²]

☞ 용접강도 계산

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

※ 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	2524.6	0.6	12.5	238.1
180 × 100 × t6/10	2481.6	0.6	10	292.5
200 × 100 × t7/10	2500.9	0.6	10	294.8
200 × 150 × t9/16	2667.6	0.6	15	209.6
250 × 125 × t7.5/12.5	2618.6	0.6	12.5	246.9
250 × 125 × t10/19	2769.6	0.6	12.5	261.2
300 × 150 × t8/13	2766.9	0.6	15	217.4
300 × 150 × t10/18.5	2976.5	0.6	15	233.9
300 × 150 × t11.5/22	3118.2	0.6	15	245
350 × 150 × t9/15	2962.5	0.6	15	232.8
350 × 150 × t12/24	3403.1	0.6	15	267.4
400 × 150 × t10/18	3262.6	0.6	15	256.4
400 × 150 × t12.5/25	3675.9	0.6	15	288.8

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	
0.5 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.8 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.4 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
1 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.8 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
2(1.8) TON	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.1 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.6 A	
2.8 TON	2.5KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.5 A	
	5.0KW x 4P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.3 A	
3 TON	2.8KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.5 A	
	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.1 A	
5 TON	4.2KW x 8P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.3 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	31.0 A	
7.5 TON	4.2KW x 8P	23.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.3 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	31.0 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 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	
0.5 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.1 A	
	1.5KW x 6P	5.5 A	1 DRIVE	SS-30	3 SEC	1 SEC	6.1 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.2 A	
1 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.1 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.2 A	
2(1.8) TON	1.8KW x 8P	6.4 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	10.2 A	
2.8 TON	2.5KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.3 A	
	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.4 A	
3 TON	2.8KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.3 A	
	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.4 A	
5 TON	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.6 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.9 A	
7.5 TON	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.6 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.9 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	
0.5 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-05	3 SEC	1 SEC	4.4 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-05	3 SEC	1 SEC	4.2 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
1 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-05	3 SEC	1 SEC	4.4 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.5 A	
2(1.8) TON	1.8KW x 8P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.1 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.8 A	
2.8 TON	2.5KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.8 A	
	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
3 TON	2.8KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.8 A	
	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
5 TON	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.7 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.5 A	
7.5 TON	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.7 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.5 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	
0.5 TON	1.2KW x 8P	3.8 A	1 DRIVE	SS-05	3 SEC	1 SEC	4.2 A	
	1.5KW x 6P	3.6 A	1 DRIVE	SS-05	3 SEC	1 SEC	4.0 A	
	2.4KW x 4P	4.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
1 TON	1.2KW x 8P	3.8 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.2 A	
	2.4KW x 4P	4.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
2(1.8) TON	1.8KW x 8P	5.3 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	8.5 A	
2.8 TON	2.5KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.5 A	
	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
3 TON	2.8KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.5 A	
	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.1 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.9 A	
7.5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.1 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.9 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

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-05	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-05	3 SEC	1 SEC	3.9 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.1 A	
1 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-05	3 SEC	1 SEC	4.0 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.1 A	
2(1.8) TON	1.8KW x 8P	5.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
2.8 TON	2.5KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.6 A	
3 TON	2.8KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.6 A	
5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.2 A	
7.5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.2 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%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	8.8 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	10.0 A	11.0 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	8.8 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.0 A	CT-1	K, L	5 V.A	
2(1.8) TON	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.1 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	23.0 A	25.3 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	25.1 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	
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	

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%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.2 A	CT-1	K, L	5 V.A	
2(1.8) TON	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.0 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	10.2 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.3 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.4 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.3 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.4 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	16.3 A	17.9 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	21.9 A	CT-1	K, L	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

극동하이스트㈜

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	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.2 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.5 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.5 A	CT-1	K, L	5 V.A	
2(1.8) TON	1.8KW x 8P	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	8.0 A	8.8 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	
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	

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

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%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.0 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.3 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.2 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.3 A	CT-1	K, L	5 V.A	
2(1.8) TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.3 A	5.8 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	11.0 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	11.0 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.1 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.9 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.1 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.9 A	CT-1	K, L	5 V.A	

NOTE

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

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%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.0 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	4.0 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(1.8) TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.1 A	5.6 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.0 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.0 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	10.6 A	CT-1	K, L	5 V.A	
3 TON	2.8KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.0 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	10.6 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	11.6 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	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	11.6 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	

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

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	2.1 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	6.7 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14.7 A	
1.5KW x 4P	7.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	16.1 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	
	4.3 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	
						17.6 A	
						35.2 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	4.2 A	1 DRIVE	SS - 05	3 SEC	1 SEC	4.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.2 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	
		2 DRIVE	SS - 05	3 SEC	1 SEC	2.9 A	
2.2KW x 6P	7.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	5.8 A	
3.7KW x 4P	9.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.4 A	
						10.2 A	
						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 : AC3Φ 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	3.3 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.3 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	
	2.3 A	2 DRIVE	SS - 05	3 SEC	1 SEC	5.3 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	3.2 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
1.5KW x 4P	3.5 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.9 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.7 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	1 DRIVE	SS - 30	3 SEC	1 SEC	5.3 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

극동호이스트 (주)

* POWER SOURCE : AC3Φ 480V 60Hz

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	3.1 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.8 A	
1.5KW x 4P	3.4 A	1 DRIVE	SS - 05	3 SEC	1 SEC	3.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.5 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	1 DRIVE	SS - 30	3 SEC	1 SEC	5.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	12.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.8 A	
				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	112 M
4. RATED POWER	3.7 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	16.0 A
12. STARTING CURRENT AT RATED VOLTAGE	81.5 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	80.0 %
15. POWER FACTOR AT 100% RATED LOAD	76.0 %
16. STARTING TORQUE	4.04 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	112 M
4. RATED POWER	3.7 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	9.3 A
12. STARTING CURRENT AT RATED VOLTAGE	56.8 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	80.0 %
15. POWER FACTOR AT 100% RATED LOAD	76.0 %
16. STARTING TORQUE	4.04 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	TRAVELLING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	112 M
4. RATED POWER	3.7 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	8.0 A
12. STARTING CURRENT AT RATED VOLTAGE	45.7 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	80.0 %
15. POWER FACTOR AT 100% RATED LOAD	76.0 %
16. STARTING TORQUE	4.04 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	112 M
4. RATED POWER	3.7 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	7.7 A
12. STARTING CURRENT AT RATED VOLTAGE	44.65 A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	80.0 %
15. POWER FACTOR AT 100% RATED LOAD	76.0 %
16. STARTING TORQUE	4.04 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	112 M
4. RATED POWER	3.7 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	7.3 A
12. STARTING CURRENT AT RATED VOLTAGE	43.14 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	80.0 %
15. POWER FACTOR AT 100% RATED LOAD	76.0 %
16. STARTING TORQUE	4.04 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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	850 RPM
11. FULL LOAD CURRENT	11.0 A
12. STARTING CURRENT AT RATED VOLTAGE	55.0 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60.0 %
16. STARTING TORQUE	6.93 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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	850 RPM
11. FULL LOAD CURRENT	6.4 A
12. STARTING CURRENT AT RATED VOLTAGE	31.9 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60.0 %
16. STARTING TORQUE	6.93 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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	850 RPM
11. FULL LOAD CURRENT	5.5 A
12. STARTING CURRENT AT RATED VOLTAGE	27.5 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60.0 %
16. STARTING TORQUE	6.93 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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	850 RPM
11. FULL LOAD CURRENT	5.3 A
12. STARTING CURRENT AT RATED VOLTAGE	26.3 A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60.0 %
16. STARTING TORQUE	6.93 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	112 M
4. RATED POWER	1.8 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	850 RPM
11. FULL LOAD CURRENT	5.1 A
12. STARTING CURRENT AT RATED VOLTAGE	25.3 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	71.5 %
15. POWER FACTOR AT 100% RATED LOAD	60.0 %
16. STARTING TORQUE	6.93 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	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

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-1

Reel/Coil No : 1

Purchaser : -

Date : 2018. 01. 01

P.O No : -

L/C No. : -

Invoice No : SAMPLE

1. TYPE / GRADE

Construction : 6XWS(36)+FC

Diameter : 8 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	8 MM	8.2 MM
Breaking Strength	37.9 KN	39 KN
Lay Length	- MM	50 MM
Preforming	Good	Good

3. WIRE TEST RESULTS

Items	Norminal or Specified	Actual
Diameter	0.44 MM	0.45 MM
Tensile Strength	1,770 N/MM2	1,828 N/MM2
Break Force	269 N	291 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
SF 80748	0.73	0.18	0.50	0.009	0.005

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

Quality Management Dept.



Signature
Chief Inspector