



제2020 - 2104396 호

안 전 인 증 서

(사업장명) 극동호이스트(주)

(소 재 지) (15423)경기도 안산시 단원구 해봉로 119 (성곡동 630-2)반월공단 B-607-4

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

품 목

호이스트 (국내품)

형식,모델(용량,등급)/인증번호

KDC1.8-M (1.8Ton) / 20-AE2AC-00007

인 증 기 준

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

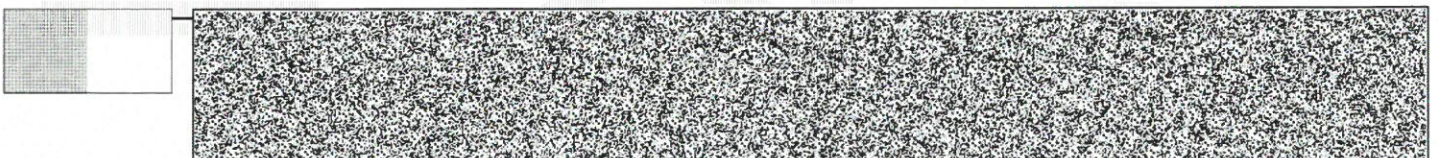
인 증 조 건

(15423)경기도 안산시 단원구 해봉로 119 (성곡동 630-2)반월공단 B-607-4에서 생산된 동일 형식 제품에 한함

설치장소 : 옥외

2020년 01월 21일

한국산업안전보건공단 이사장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(154 - 23) 경기도 안산시 단원구 해봉로 119 (성곡동 630-2)반월공단 B-607-4		
안전인증대상 기계·기구명		호이스트[동일형식<KDC1.8-L18(24,30)-M-H> 추가] - “별첨” 참조		
형 식 (규 격)		KDC1.8-M	용 량 (등 급)	1.8 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

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

결과가 [V] 적 합
[] 부적합

합을 통지합니다.

2019년 12월 19일

인증심사원

이승태

이 승 태

(서명 또는 인)

한국산업안전보건공단 이사장



서 면 심 사 서 류

형식 번호 : KDC1.8-M

극 동 호 이 스톱 (주)



工場 : 경기도 안산시 단원구 해봉로 119 (성곡동)

電話 : 031) 491 - 5311

FAS : 031) 494 - 5315

산업재해예방

안전보건공단

Korea Occupational Safety & Health Agency

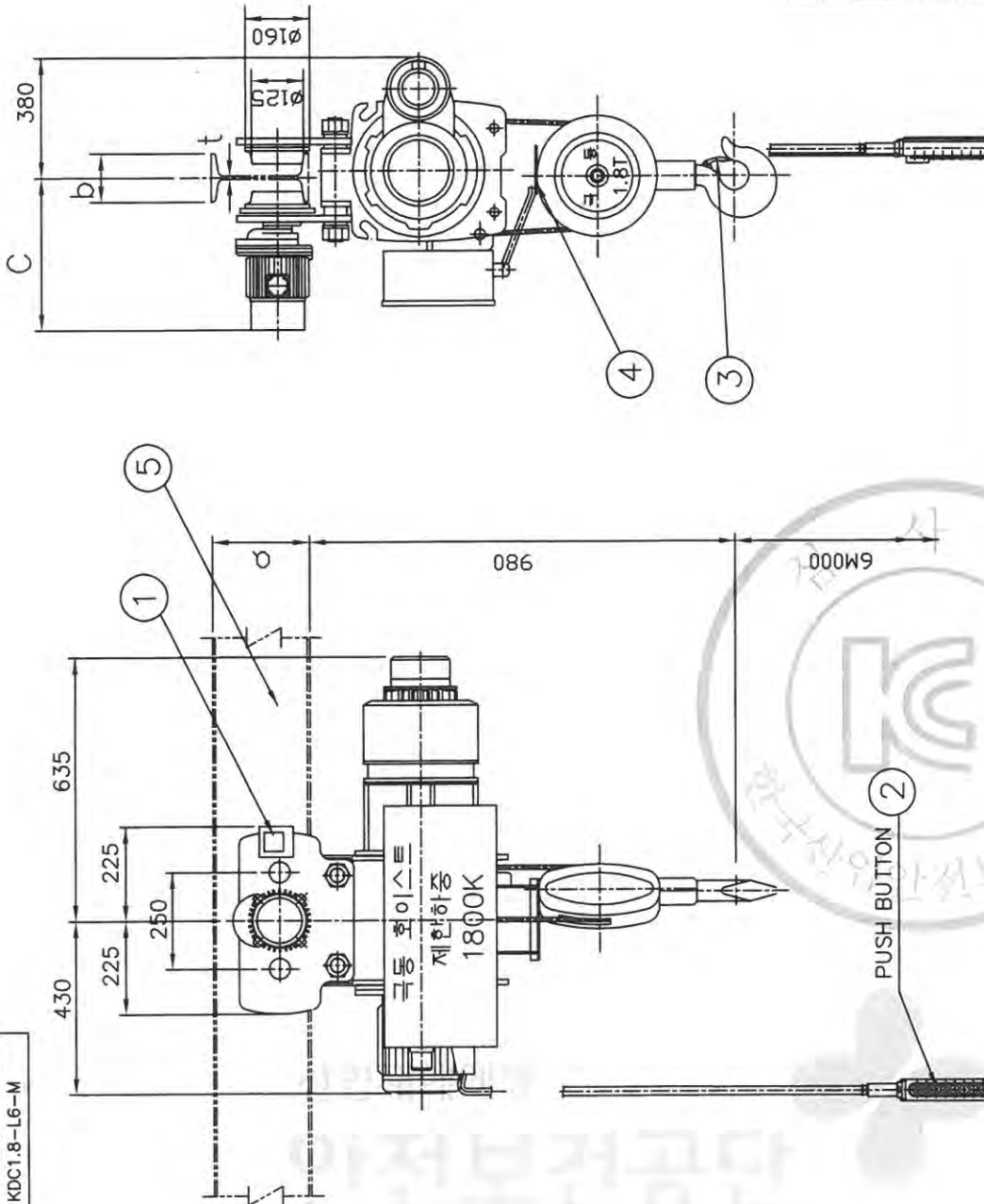


동일 형식 일람 표

사업장명		구동호이스트(件)	개정일자 및 번호		인증번호	
형식	모 델	형식 및 모델	동일 형식 인정범위 및 내역			비 고
			권상속도 (m/min)	회행속도 (m/min)	양정 (m)	
KDC1.8-M	KDC1.8-L6-M	KDC1.8-L6-M KDC1.8-L9-M KDC1.8-L12-M KDC1.8-L18-M KDC1.8-L18-M-H KDC1.8-L24-M KDC1.8-L24-M-H KDC1.8-L30-M KDC1.8-L30-M-H	NORMAL : 10m/min CREEP : 5m/min	고속: 24m/min (INVERTER 2~24m/min)	6	모터구동식 회행 인버터 포함
	KDC1.8-L9-M				9	
	KDC1.8-L12-M				12	
	KDC1.8-L18-M			저속: 16m/min (INVERTER 2~16m/min)	18	
	KDC1.8-L18-M-H					
	KDC1.8-L24-M				24	
	KDC1.8-L24-M-H			듀얼고속: 24/12m/min 듀얼저속: 16/8m/min	30	
	KDC1.8-L30-M					



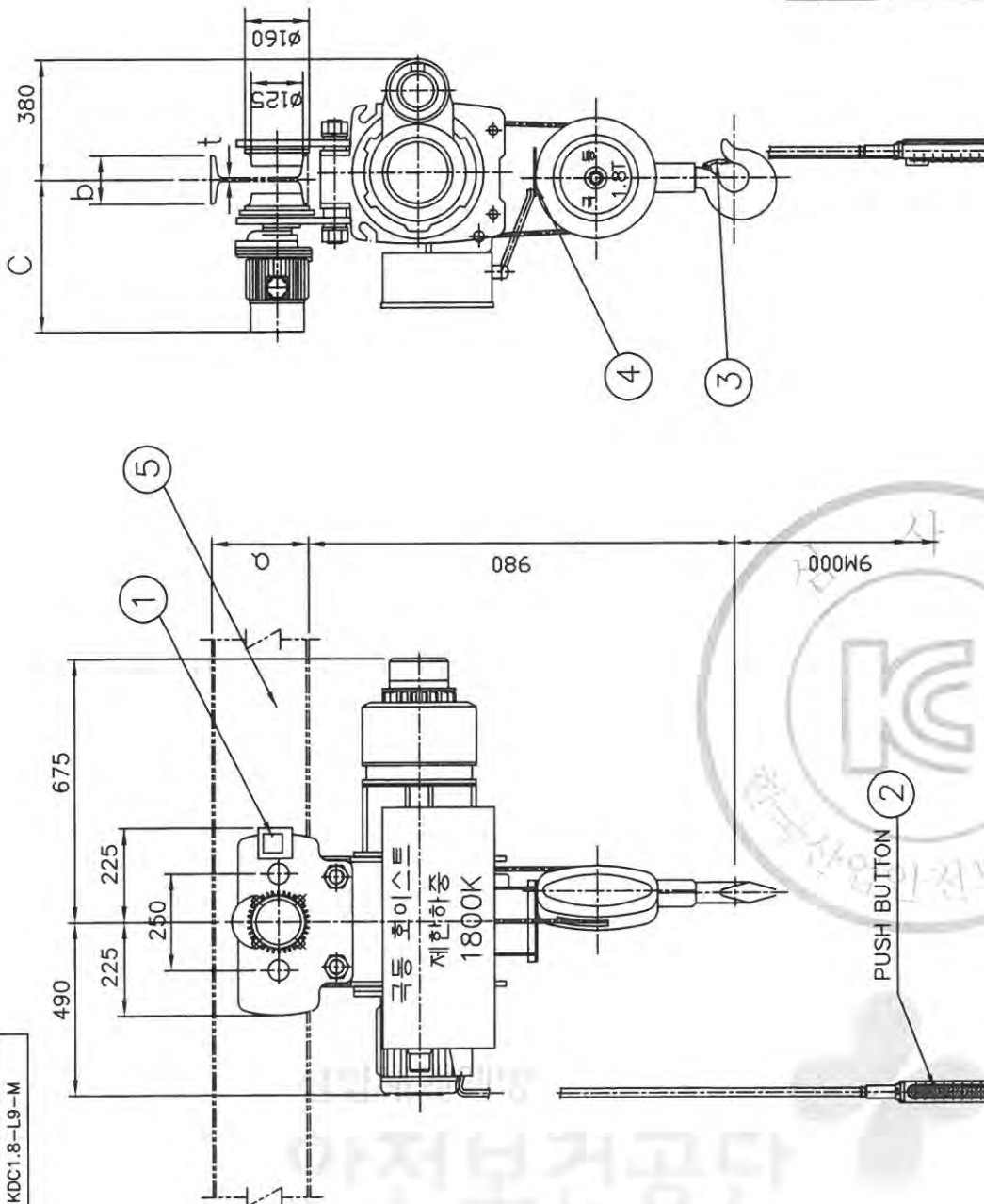
형식번호	KDC1.8-M
모델명	KDC1.8-L6-M



SPECIFICATION					
RATED LOAD		1800		KG	
TESTING LOAD		2250		KG	
LIFT		6		M	
RATING		30		MIN	
HOISTING	SPEED	10 / 1.0 M/MIN			
		MOTOR	3.7 / 0.4 KW x 4 P		
TRAVERSING	HIGH	SPEED	24 M/MIN		
	LOW	MOTOR	0.75 KW x 4 P		
		SPEED	16 M/MIN		
	DUAL HIGH	MOTOR	0.5 KW x 6 P		
		SPEED	24/12 M/MIN		
	DUAL LOW	MOTOR	0.8/0.4 KW x 4/8 P		
WIRE ROPE	SPEED	16/8		M/MIN	
		MOTOR	0.5/0.25 KW x 6/12 P		
		(6x37) Ø10 x 2 FALLS			
POWER SOURCE	STAINLESS STEEL (7x19) Ø10(3/8") x 2 FALLS				
	AC3Ø 220V(380,440,460,480) 60Hz				
COLOR	10 B 3/5				
WEIGHT	320		KG		

5	I-BEAM	SS400							—		TABLE 참조
4	UPPER LIMIT S/W	SS400							1		
3	SAFETY LATCH	SPC							1		
2	EMERGENCY S/W	—							1		
1	LOAD LIMITER	—							1		
NO.	DESCRIPTION	MTL	SUB QTY	TOTAL QTY	SUB	SUB WEIGHT(kg)	DATE		DIM		REMARKS.
										mm	
PROJECT											
TITLE		KDC1.8 — L6 — M									
DRAWN		ARRANGEMENT DRAWING FOR HOIST									
		DESIGNED		CHECKED		APPROVED		SCALE		PROJECTION	
								A3/15		3rd	
								REF. DRAWING			
										</	

형식번호	KDC1.8-M
모델명	KDC1.8-L9-M

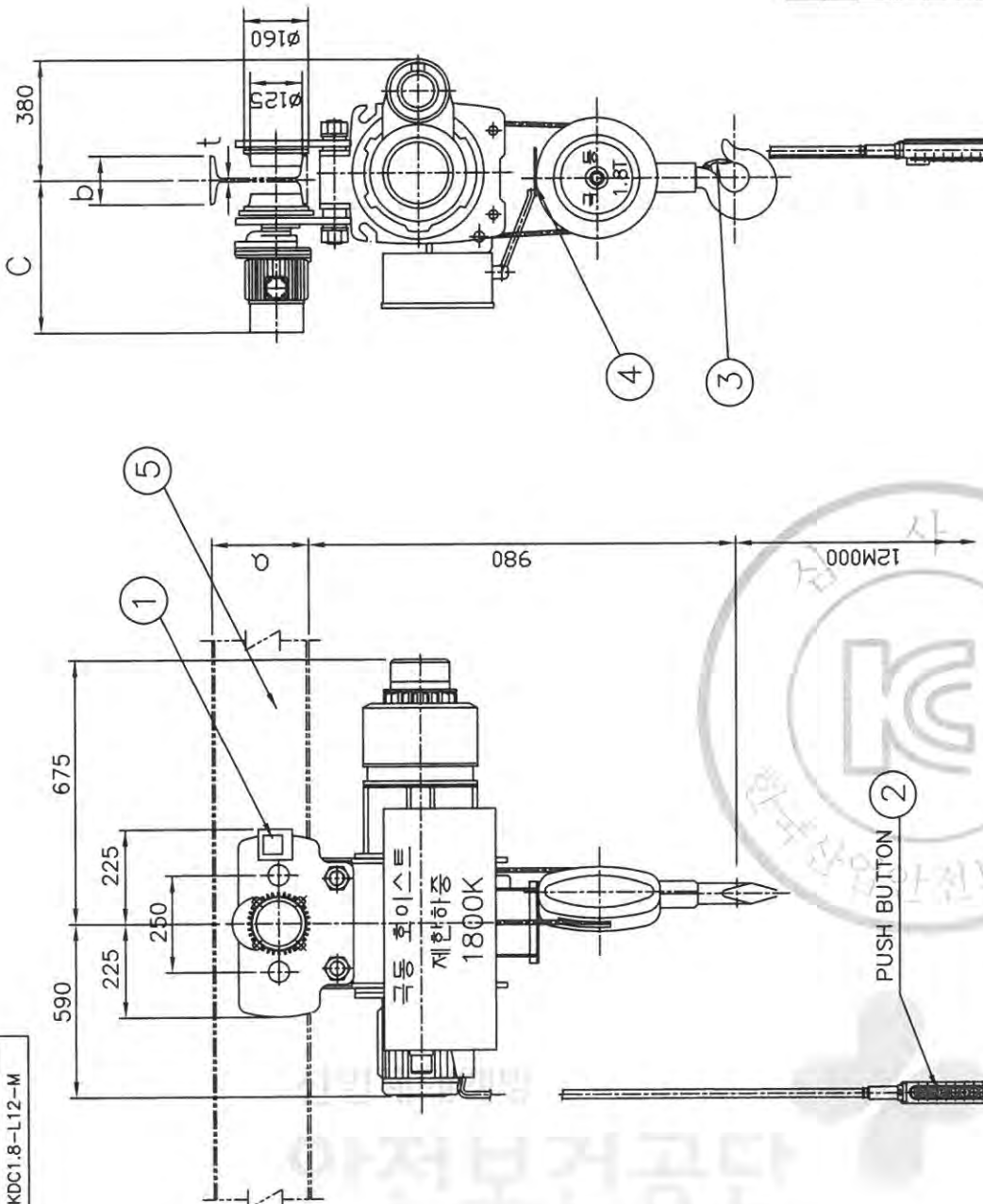


SPECIFICATION	
RATED LOAD	1800 KG
TESTING LOAD	2250 KG
LIFT	9 M
RATING	30 MIN
HOISTING	SPEED
	MOTOR
TRAVERSING	SPEED
	MOTOR
	SPEED
	MOTOR
TRAVERSING	SPEED
	MOTOR
	SPEED
	MOTOR
WIRE ROPE	(5x37) Ø10 x 2 FALLS
	STAINLESS STEEL (7x19) Ø10(3/8") x 2 FALLS
POWER SOURCE	AC3Ø 220V(380,440,460,480) 60Hz
COLOR	10 B 3/5
WEIGHT	360 KG

5	I-BEAM	SS400				—		TABLE 참조
4	UPPER LIMIT S/W	SS400				1		
3	SAFETY LATCH	SPC				1		
2	EMERGENCY S/W	—				1		
1	LOAD LIMITER	—				1		
NO.	DESCRIPTION	M'T'L	SUB	TOTAL	QTY	SUB	TOTAL	REMARKS.
PROJECT						DATE		DIM
								mm
TITLE	KDC1.8 - L9 - M				SCALE		PROJECTION	
	ARRANGEMENT DRAWING FOR HOIST				A3/15		3rd	
DRAWN	DESIGNED	CHECKED	APPROVED			REF. DRAWING		
 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET No.		DWG No.		KDC1.8M900		

TRAVERSING I - BEAM A x B x t	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 250 x 125 x 7.5	5180	415	MAX. 4.7M	450
I 300 x 150 x 10	12700	849	MAX. 7.4M	465
I 350 x 150 x 9	15200	871	MAX. 7.9M	465
I 400 x 150 x 10	24100	1220	MAX. 9.3M	465
I 450 x 175 x 11	39200	1740	MAX. 11.8M	475

형식번호	KDC1.8-M
모델명	KDC1.8-L12-M

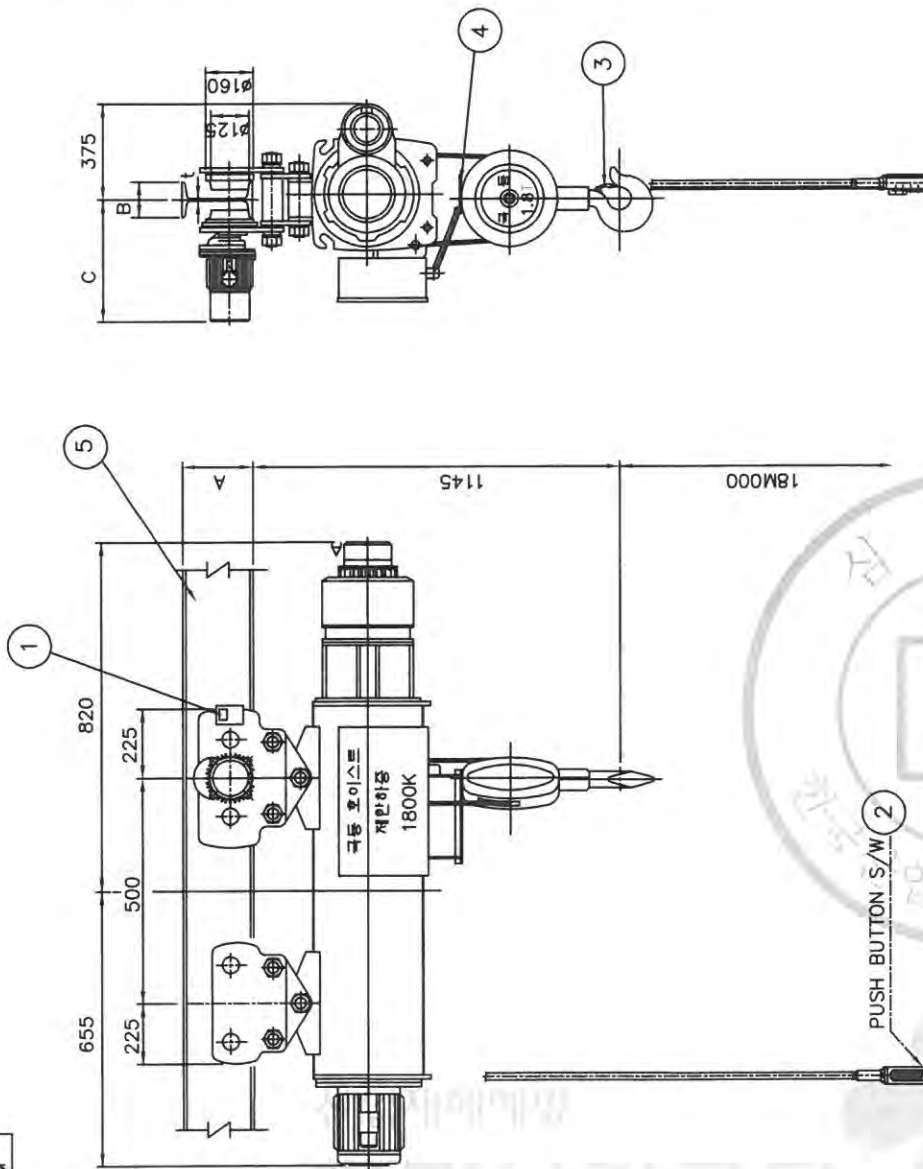


SPECIFICATION					
RATED LOAD		1800	KG		
TESTING LOAD		2250	KG		
LIFT		12	M		
RATING		30	MIN		
HOISTING	SPEED	10 / 1.0 M/MIN			
	MOTOR	3.7 / 0.4 KW x 4 P			
TRAVERSING	SPEED	24	M/MIN		
	HIGH	MOTOR	0.75 KW x 4 P		
	LOW	SPEED	16	M/MIN	
		MOTOR	0.5 KW x 6 P		
	DUAL HIGH	SPEED	24/12 M/MIN		
	DUAL LOW	MOTOR	0.8/0.4 KW x 4/8 P		
SPEED		16/8	M/MIN		
WIRE ROPE	MOTOR	0.5/0.25 KW x 6/12 P			
	(6x37) Ø10 x 2 FALLS				
	STAINLESS STEEL (7x19) Ø10(3/8") x 2 FALLS				
POWER SOURCE	AC3Ø 220V(380,440,460,480) 60Hz				
COLOR	10 B 3/5				
WEIGHT		380	KG		

5	I-BEAM	SS400				—			TABLE 참조
4	UPPER LIMIT S/W	SS400				1			
3	SAFETY LATCH	SPC				1			
2	EMERGENCY S/W	—				1			
1	LOAD LIMITER	—				1			
NO.	DESCRIPTION	MTL	SUB QTY	TOTAL	SUB	TOTAL	WEIGHT(kg)		REMARKS.
PROJECT				DATE		DIM			
						mm			
TITLE		KDC1.8 - L12 - M		SCALE		PROJECTION			
		ARRANGEMENT DRAWING FOR HOIST		A3/15		3rd			
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING					
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET No.		DWG No.		KDC1.8M120			

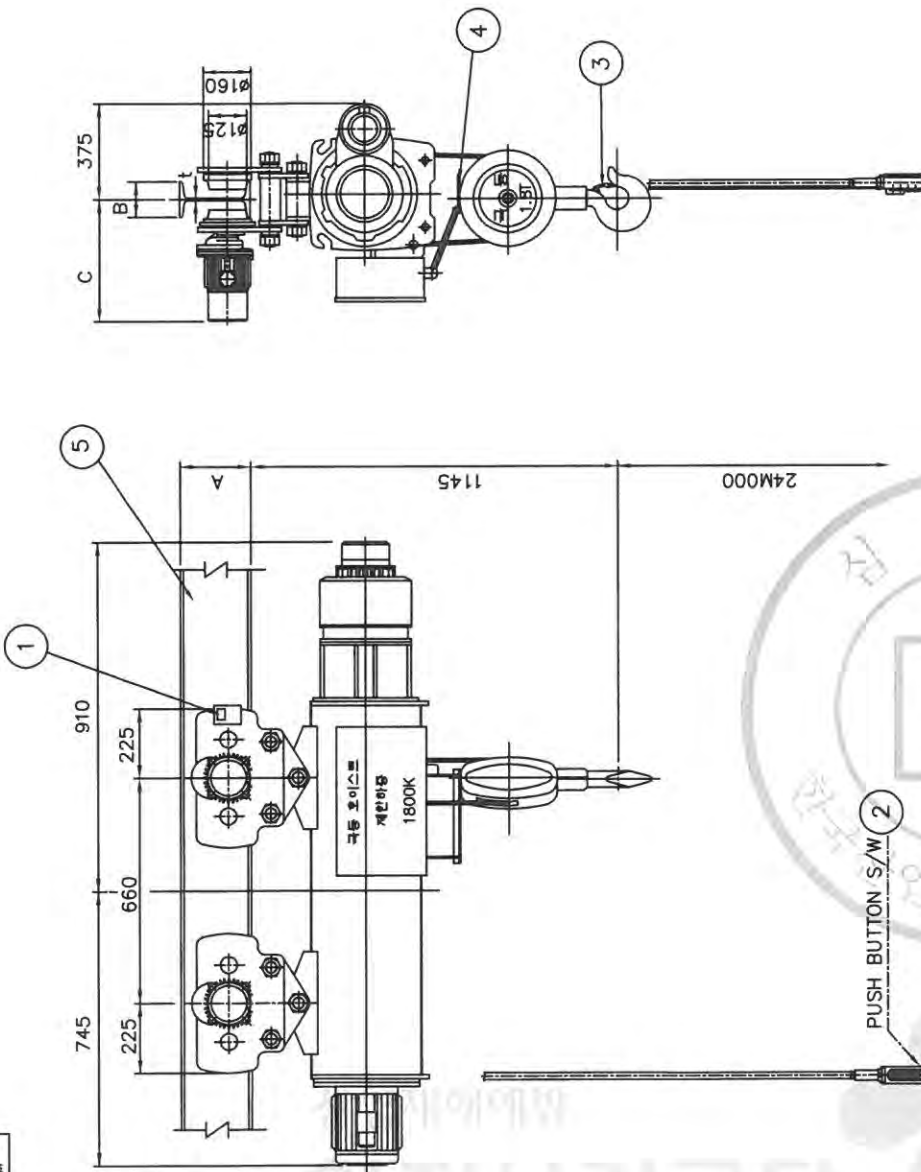
TRAVERSING I – BEAM		I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
A	B x t				
I	250 x 125 x 7.5	5180	415	MAX. 4.7M	450
I	300 x 150 x 10	12700	849	MAX. 7.4M	465
I	350 x 150 x 9	15200	871	MAX. 7.9M	465
I	400 x 150 x 10	24100	1220	MAX. 9.3M	465
I	450 x 175 x 11	39200	1740	MAX. 11.8M	475

5	I-BEAM	SS400	-				레이블 참고
4	UPPER LIMIT S/W	SS400	1				
3	SAFETY LATCH	SPC	1				
2	PENDANT S/W	-	1				
1	LOAD LIMITER	-	1				
NO.	DESCRIPTION	MT'L	SUB QTY	SUB TOTAL	SUB WEIGHT(kg)	REMARKS.	
PROJECT					DATE	DIM	
						mm	
TITLE		KDC1.8-L18-M			SCALE	PROJECTION	
		ARRANGEMENT DRAWING FOR HOIST			A3/20	3rd	
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING			
 KDK KUK DONG HOIST CO., LTD.		SHEET No.		DWG No. KDC1.8 - 1800			



TRAVERSING, I - BEAM	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 250 x 125 x 7.5	5180	415	MAX. 4.7M	450
I 300 x 150 x 10	12700	849	MAX. 7.4M	465
I 350 x 150 x 9	15200	871	MAX. 7.9M	465
I 400 x 150 x 10	24100	1220	MAX. 9.3M	465
I 450 x 175 x 11	39200	1740	MAX. 11.8M	475

형식번호	KDC1.8-M
도 명	KDC1.8-L24-M



TRAVERSING, I - BEAM	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 250 x 125 x 7.5	5180	415	MAX. 4.7M	450
I 300 x 150 x 10	12700	849	MAX. 7.4M	465
I 350 x 150 x 9	15200	871	MAX. 7.9M	465
I 400 x 150 x 10	24100	1220	MAX. 9.3M	465
I 450 x 175 x 11	39200	1740	MAX. 11.8M	475

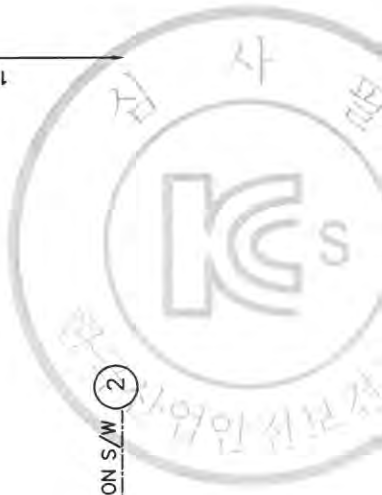


SPECIFICATION	
RATED LOAD	1800 KG
TESTING LOAD	2250 KG
LIFT	24 M
RATING	30 MIN
HOISTING	SPEED MOTOR
	10/1.0 M/MIN 3.7/0.4 KW x 4 P
TRAVERSING	HIGH MOTOR
	24 M/MIN
	SPEED MOTOR
	0.75KW x 4 P (2UNITS)
	LOW MOTOR
	16 M/MIN
DUAL HIGH	SPEED MOTOR
	0.5 KW x 6 P (2UNITS)
	SPEED MOTOR
	24/12 M/MIN
DUAL LOW	SPEED MOTOR
	0.8/0.4 KW x 4/8P (2UNITS)
WIRE ROPE	SPEED MOTOR
	16/8 M/MIN
POWER SOURCE	WIRE ROPE
	(6x37) 10 x 2 FALLS
COLOR	STAINLESS STEEL (7x19) #10(3/8") x 2 FALLS
	AC3Ø 220V(380,440,460,480) 60Hz
WEIGHT	10 B 3/5
	495 KG

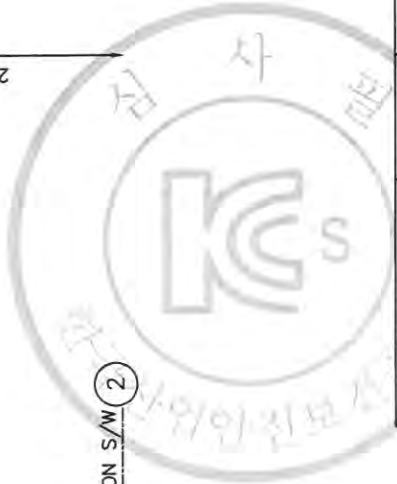
NO.	DESCRIPTION	M ^T L	SUB TOTAL QTY		REMARKS.	
			SUB	TOTAL	SUB WEIGHT(kg)	TOTAL WEIGHT(kg)
5	I-BEAM	SS400	-	-	-	-
4	UPPER LIMIT S/W	SS400	1	1	-	-
3	SAFETY LATCH	SPC	1	1	-	-
2	PENDANT S/W	-	1	1	-	-
1	LOAD LIMITER	-	1	1	-	-
PROJECT						
TITLE			KDC1.8-L24-M		SCALE	PROJECTION
DRAWN			ARRANGEMENT DRAWING FOR HOIST		A3/20	3rd
DESIGNED			APPROVED		REF. DRAWING	
CHECKED			DATE		DIM	
APPROVED			mm		mm	
SHEET No.			DWG No.		KDC1.8 - 2400	
KUK DONG HOIST CO., LTD.			KDC1.8-L24-M		KDC1.8 - 2400	



5	I-BEAM	SS400	-					TABLE 참조
4	UPPER LIMIT S/W	SS400	1					
3	SAFETY LATCH	SPC	1					
2	PENDANT S/W	-	1					
1	LOAD LIMITER	-	1					
NO.	DESCRIPTION	M'T'L	SUB	TOTAL	SUB	TOTAL	REMARKS.	
								QTY
PROJECT					DATE		DIM	
							mm	
TITLE	KDC1.8-L30-M ARRANGEMENT DRAWING FOR HOIST			SCALE		PROJECTION		
				A3/20		3rd		
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING				
 KDK KUK DONG HOIST CO., LTD.			SHEET No.		DWG No.		KDC1.8 - 3000	



5	I-BEAM	SS400		-				제어용 창고
4	UPPER LIMIT S/W	SS400		1				
3	SAFETY LATCH	SPC		1				
2	PENDANT S/W	-		1				
1	LOAD LIMITER	-		1				
NO.	DESCRIPTION	M'T'L	SUB QTY	TOTAL	SUB	WEIGHT(kg)		REMARKS.
						TOTAL		
PROJECT					DATE		DIM	
							mm	
TITLE		KDC1.8-L18-M-H			SCALE		PROJECTION	
		ARRANGEMENT DRAWING FOR HOIST			A3/20		3rd	
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING				
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET No.		DWG No.			
			KDC1.8 - 1800H					



5	I-BEAM	SS400	-					TABLE 형호
4	UPPER LIMIT S/W	SS400	1					
3	SAFETY LATCH	SPC	1					
2	PENDANT S/W	-	1					
1	LOAD LIMITER	-	1					
NO.	DESCRIPTION	M'T'L	SUB QTY	TOTAL QTY	SUB	TOTAL	WEIGHT(kg)	REMARKS.
PROJECT					DATE		DIM	
							mm	
TITLE		KDC1.8-L24-M-H ARRANGEMENT DRAWING FOR HOIST			SCALE		PROJECTION	
					A3/20		3rd	
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING				
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.					SHEET No.		DWG No.	
								KDC1.8 - 2400H



5	I-BEAM	SS400	-			TABLE 번호
4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SPC	1			
2	PENDANT S/W	-	1			
1	LOAD LIMITER	-	1			
NO.	DESCRIPTION	MT'L	SUB QTY	SUB TOTAL	SUB TOTAL	REMARKS.
PROJECT					DATE	DIM
						mm
TITLE		KDC1.8-L30-M-H			SCALE	PROJECTION
		ARRANGEMENT DRAWING FOR HOIST			A3/20	3rd
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				SHEET No.		DWG No.
				KDC1.8 - 3000H		

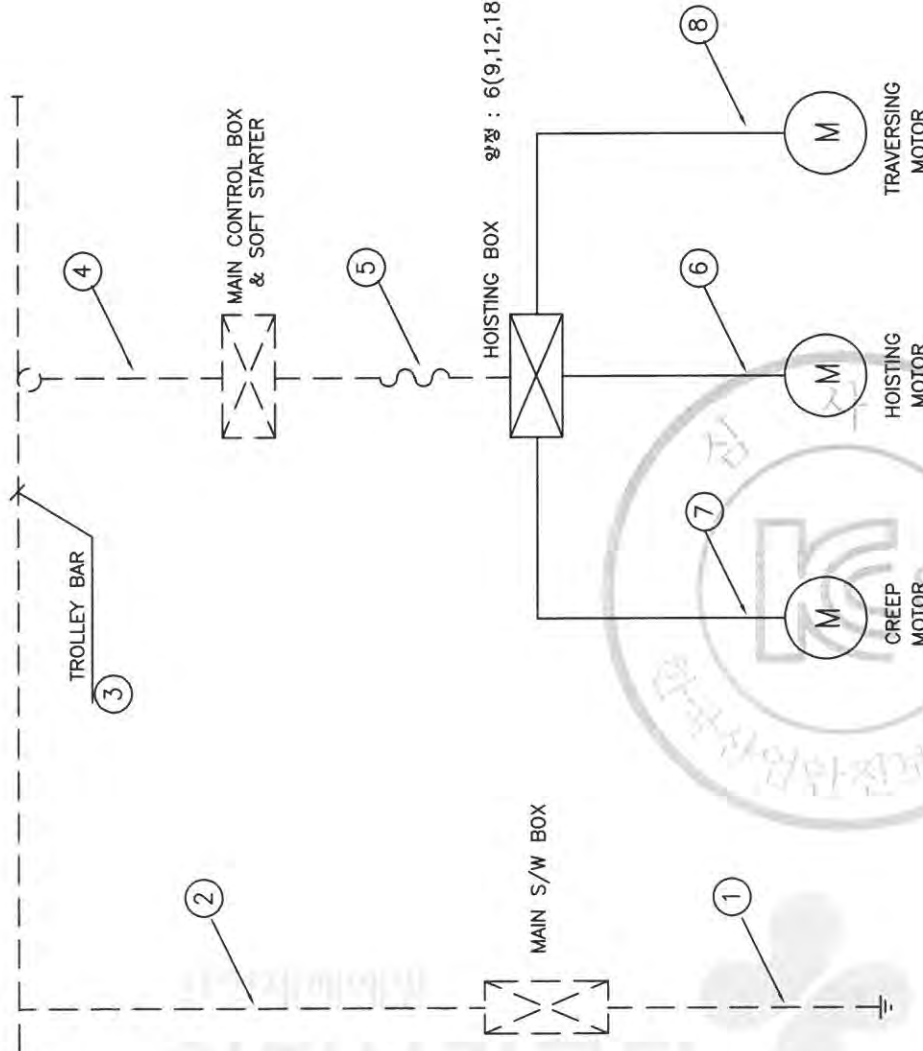
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
															NO	DESCRIPTION		CABLE SIZE	
															1	MAIN EARTH LINE		USER SCOPE	
															2	POWER SOURCE		USER SCOPE	
															3	TROLLEY BAR		USER SCOPE	
															4	POWER SOURCE WITH EARTH		USER SCOPE	
															5	HOIST POWER SOURCE WITH EARTH		VFCT 6.0SQ x 1C	
															6	HOISTING MOTOR WITH EARTH		VCT 4.0SQ x 1C	
															7	CREEP MOTOR WITH EARTH		VCT 4.0SQ x 1C	
															8	TRAVERSING MOTOR WITH EARTH		VCT 4.0SQ x 1C	

* CV CABLE 4C 중 1C는 EARTH로 사용함.

접지

1. 전기장치 외함접지는 접지단자를 이용하여 설치해야 하며
 - 1) 400볼트 미만일 때 10오옴 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

양정 : 6(9,12,18)M 일때 적용



동전위접지

1. 전기장비와 기계의 노출된 모든 도전부는 보호분당회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호분당회로에는 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

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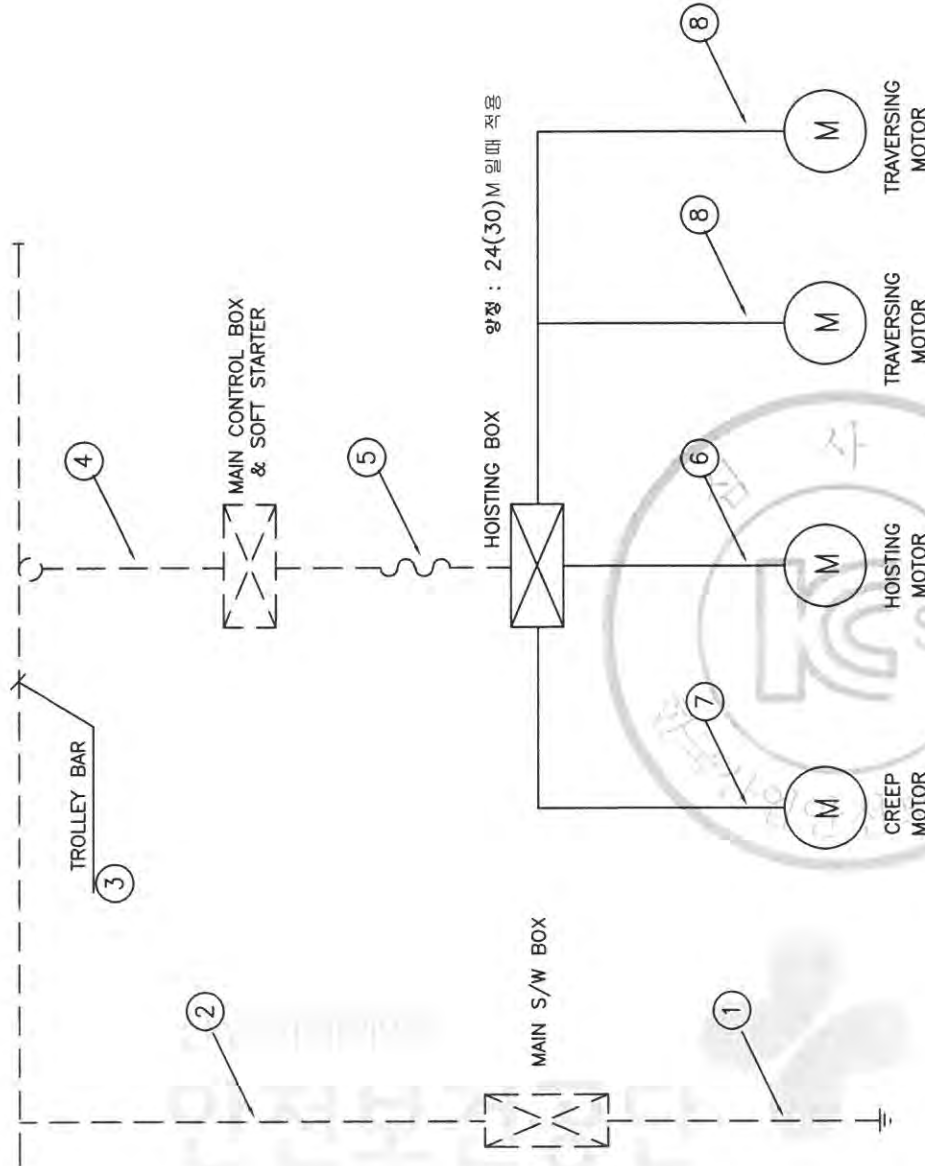
점지

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: $\oplus$
 - 2) 문자로 표기하는 경우: PE
 - 3) 녹색 또는 녹색 및 황색 조합 접지선

통전위접지

1. 전기장비와 기계의 노출된 모든 도선부는 보호분당회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야함.
2. 보호분당회로에는 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

[illegible]

SELECTION	VOLTAGE	F11	F12	F13	MCCB100	TR10
	220V	2A	3A	3A	33AF/30AT	220/110,120V 60VA
	380V	1A	3A	3A	33AF/15AT	380/110,120V 60VA
	440V	1A	3A	3A	33AF/15AT	440/110,120V 60VA
	460V	1A	3A	3A	33AF/15AT	460/110,120V 60VA
	480V	1A	3A	3A	33AF/15AT	480/110,120V 60VA

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
					NONE		
DRAWING TITLE		MAIN POWER CIRCUIT 1					
REVISIONS		CHK.	APP.				
MK	DATE						

KD02E001

극동호이스트 주식회사

KUK DONG HOIST CO., LTD.

DWG. NO

KDC02E001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.
																			ADR'S NO.
																			KFC2EBO
																			KDC2EBO

NO	DESCRIPTION	MT'L	REMARKS
1	PANEL CASE	SPC	2.3t
2	PANEL COVER	SPC	2.3t
3	HINGE	PUR'	
4	CLAMP	PUR'	
5	SPONGE	PUR'	

SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR			OUT DOOR			REMARK
			A	B	L	A	B	L	
	C 1.8 TON	CREEP	360	170	790	360	170	790	
		T/S	240	150	350	240	150	350	

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 : 2.5sq KIV,HIV

6. 외함 개방 구조는 다음과 같다.

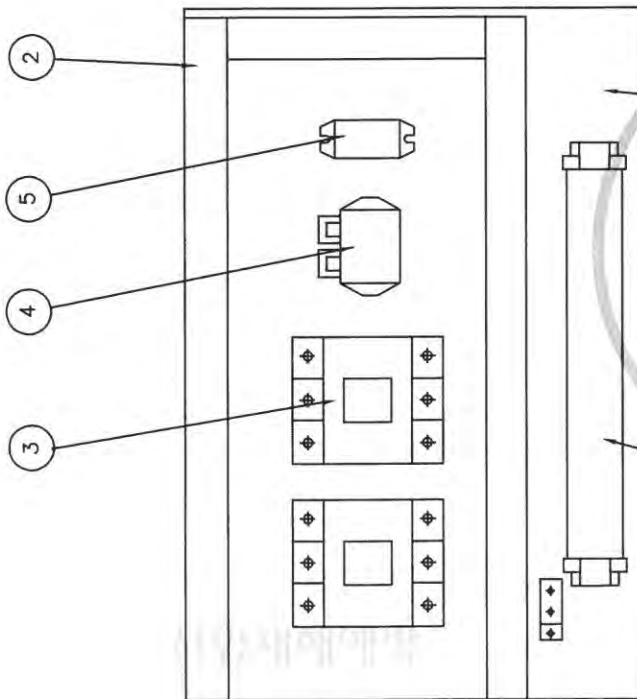
1) 외함 개방시 충전부분이 차단되도록 한다.

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

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

CUSTOMER	DRAWING TITLE	CHK.	APP.
	CREEP HOISTING CONTROL BOX		
	LAY-OUT		

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 CONTACTOR	DMC22C	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 전원선
 2) 적색 : 교류제어선
 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 4) 녹색 또는 녹색과 황색 혼용 : 접지선
 2. CABLE MATERIAL : KIV OR EQUIVALENT
 MIN SIZE : 2.5sq
 3. 제어용 전선 : 2.5mm KIV,HIV
 4. 제작시 다소 변경 될수있음.
 5. 외함 개방구조는 다음과 같음것.
 1) 외함 개방시 충전부분이 차단되도록 함것.
 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						KDC2bt22
TRAVERSING POWER CONTROL BOX						DWG. NO
ARRANGEMENT DRAWING						
CUSTOMER		CHK.		APP.		
DRAWING TITLE		REVISIONS		DATE		
MK						

KDC02E21

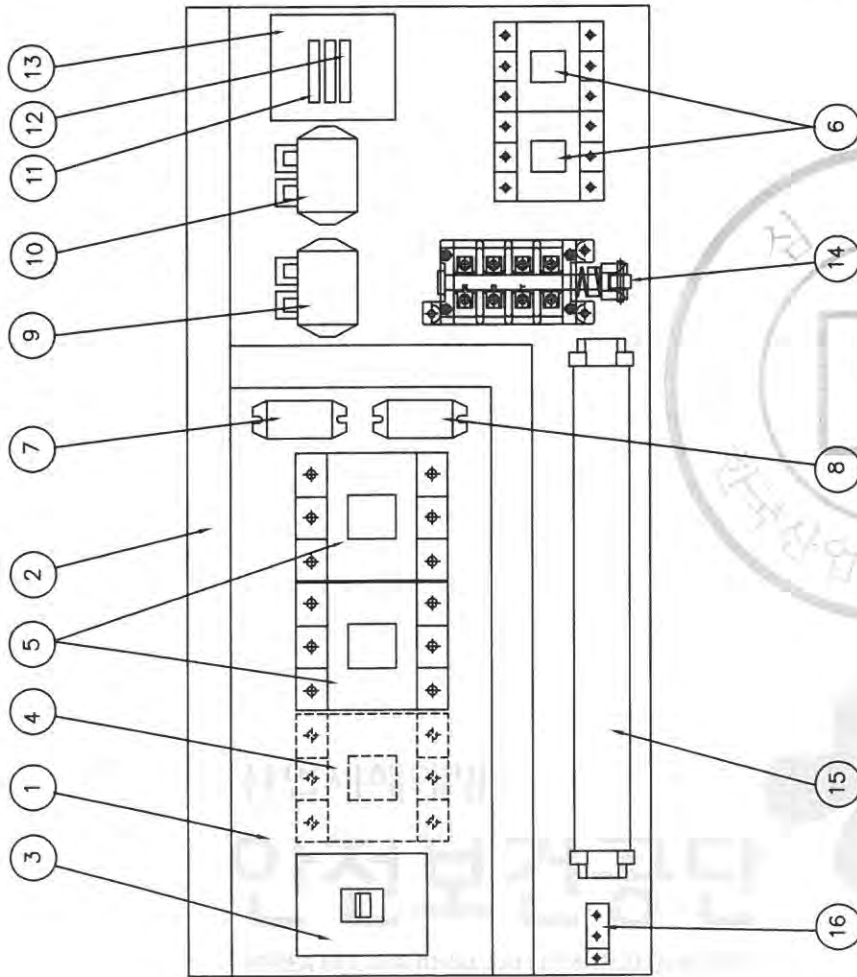
KDC02E22

192.168.11.51 / 2019-12-20 13:47:06

192.168.11.51 / 2019-12-20 13:47:06

192.168.11.51 / 2019-12-20 13:47:06

KDC02E026



NOTE

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



NOTE

1. 전선의 색상은 다음과 같다.
- 1) 흑색 : 교류 및 직류 전원선
- 2) 적색 : 교류제어선
- 3) 구황색 : 외부 전원에서 공급되는 연동장치 제어회로
- 4) 녹색 또는 녹색과 황색 혼용 : 접지선

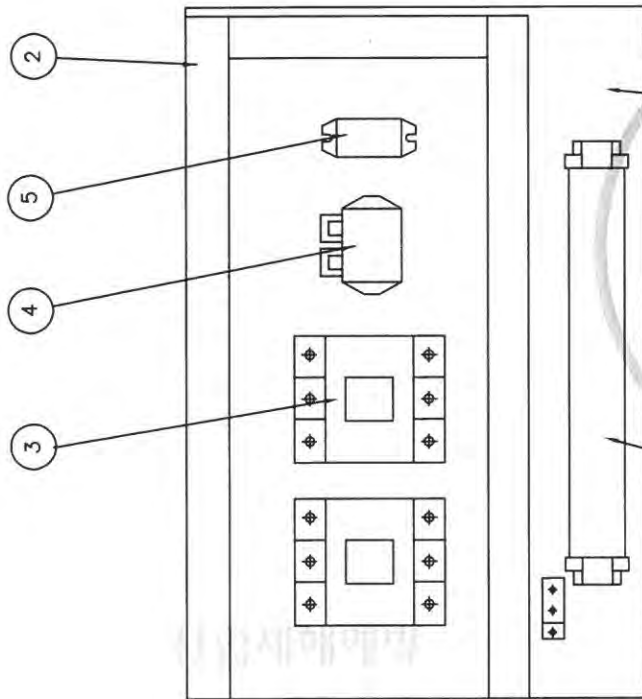
2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
MIN SIZE : 2.5sq

3. 제어용 전선 : 2.5mm KIV,HIV
4. 제자리 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.

- 1) 외함 개방시 중전부분이 차단되도록 할것.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있음

[illegible]

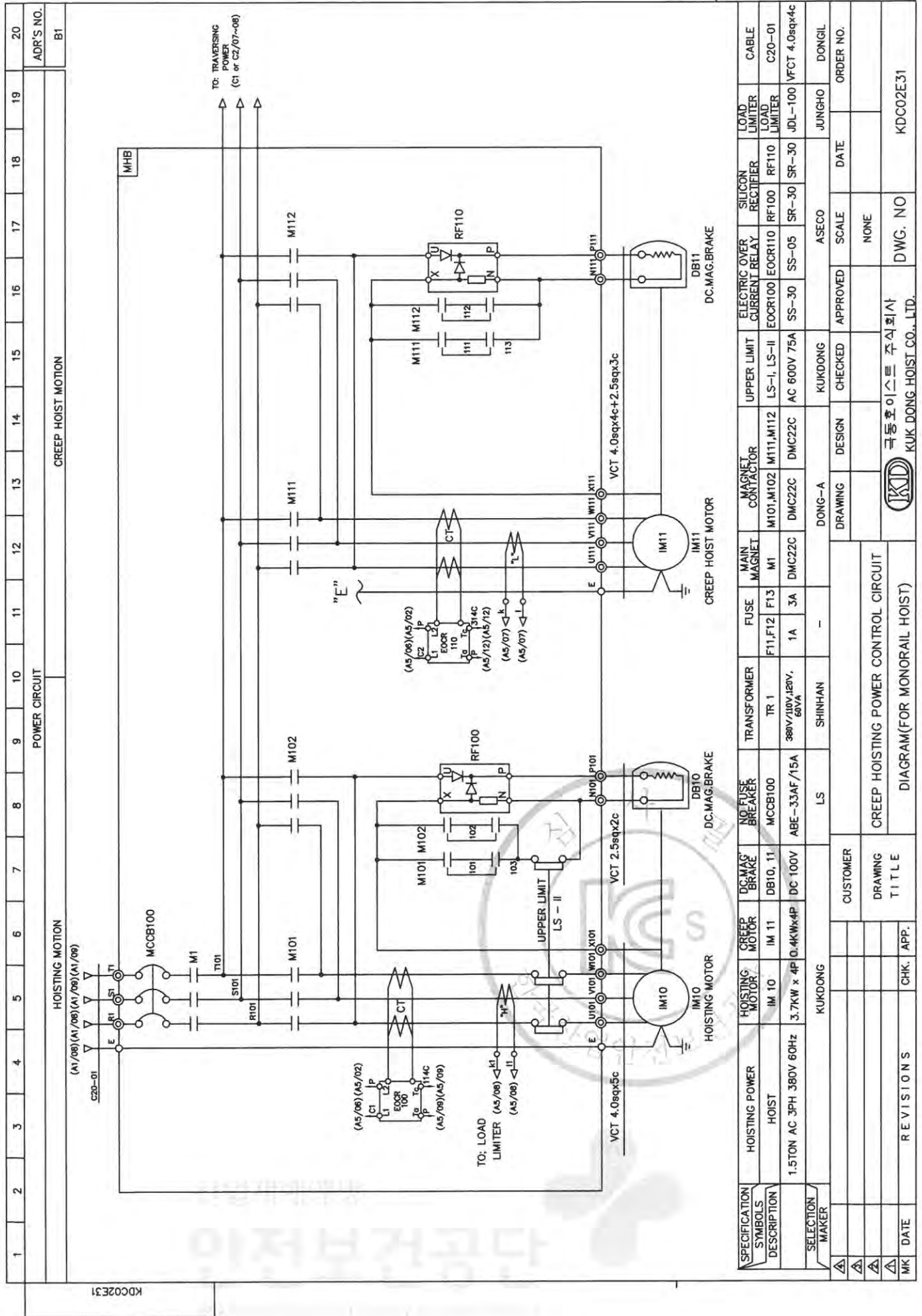
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.
ADR'S NO.																			



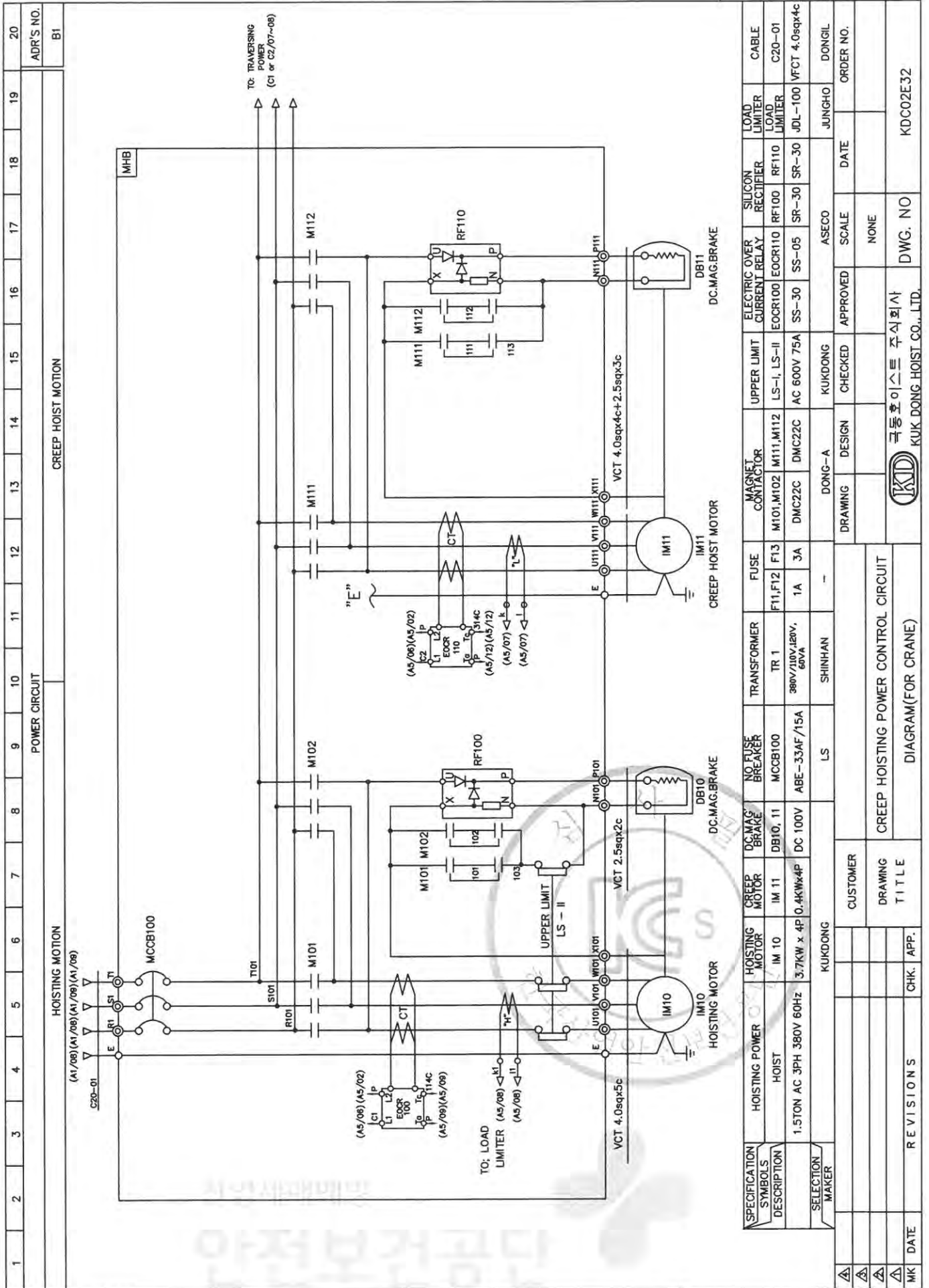
NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

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

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
TRAVERSING POWER CONTROL BOX					NONE		
ARRANGEMENT DRAWING							
KUK DONG HOIST CO., LTD.					DWG. NO	KDC2bt32	
MK	DATE	REVISIONS	CHK.	APP.			

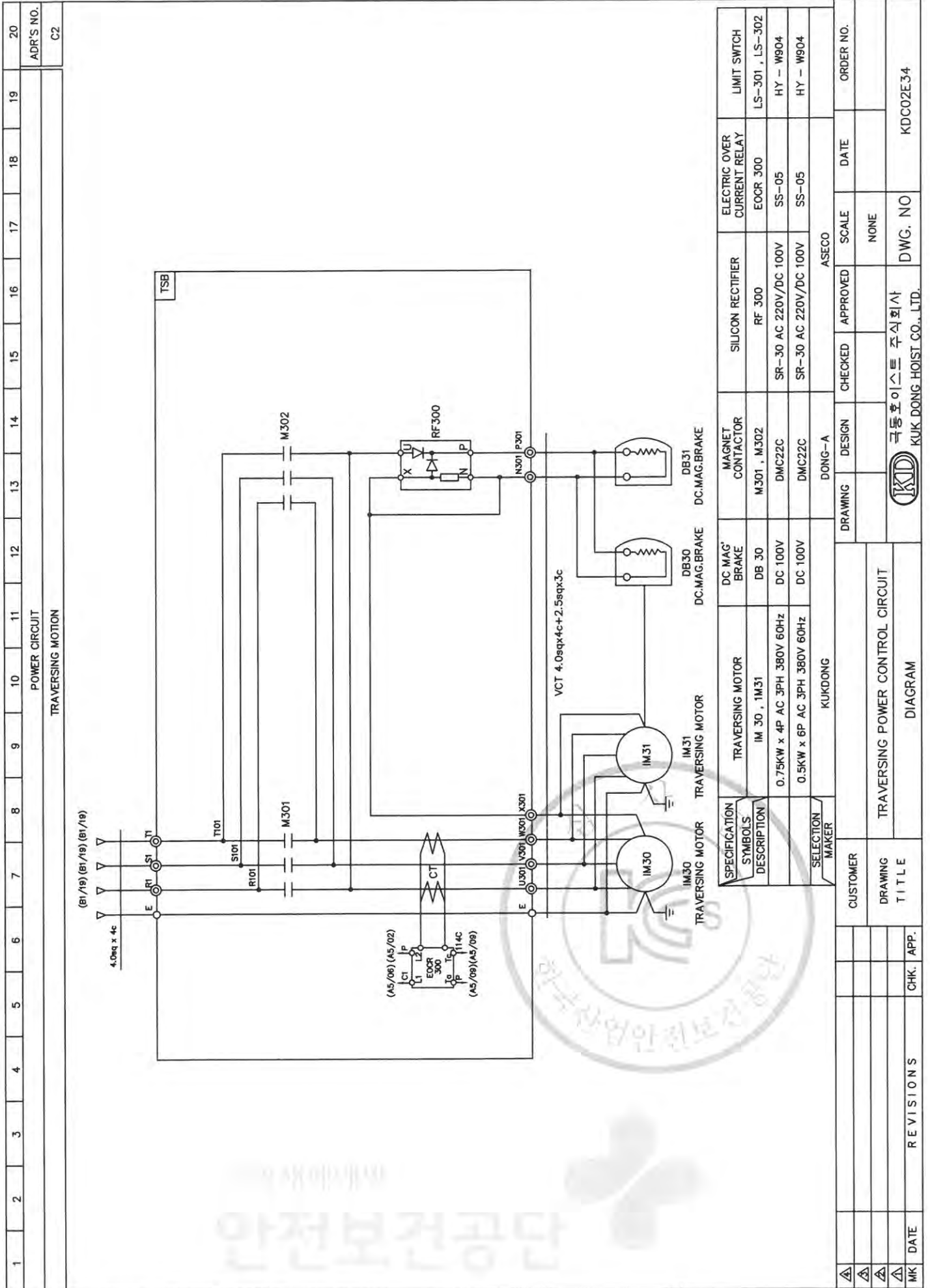


KDC02E31

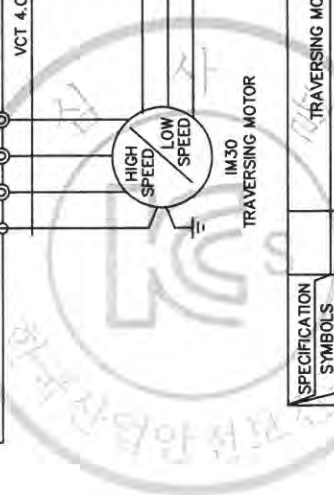


SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC-MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	HOIST	IM 10	IM 11	DB10, 11	MCCB100	TR 1	F1, F2	M101, M102	LS-II, LS-III	EOCR100	RF100	RF110	C20-01
SELECTION MAKER	1.5TON AC 3PH 380V 60Hz	3.7KW x 4P	0.4KWx4P	DC 100V	ABE-33AF/15A	380V/110V/120V, 60VA	1A	DMC22C	AC 600V 75A	SS-30	SS-30	JDL-100	VCT 4.0sqx4c
REVISIONS	DATE	CHK.	APP.	KUKDONG									
CUSTOMER				KUKDONG									
DRAWING TITLE				CREEP HOISTING POWER CONTROL CIRCUIT									
REVISIONS				DIAGRAM(FOR CRANE)									
DATE				KUKDONG HOIST CO., LTD.									
MK				KDC02E32									

KDC02E33

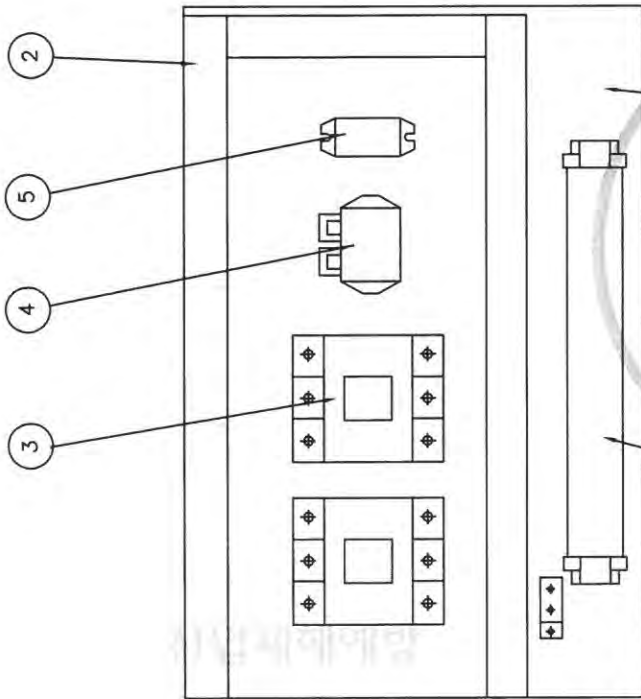


KDC02E34

KDC02E035

KDC28E036

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 급
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	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

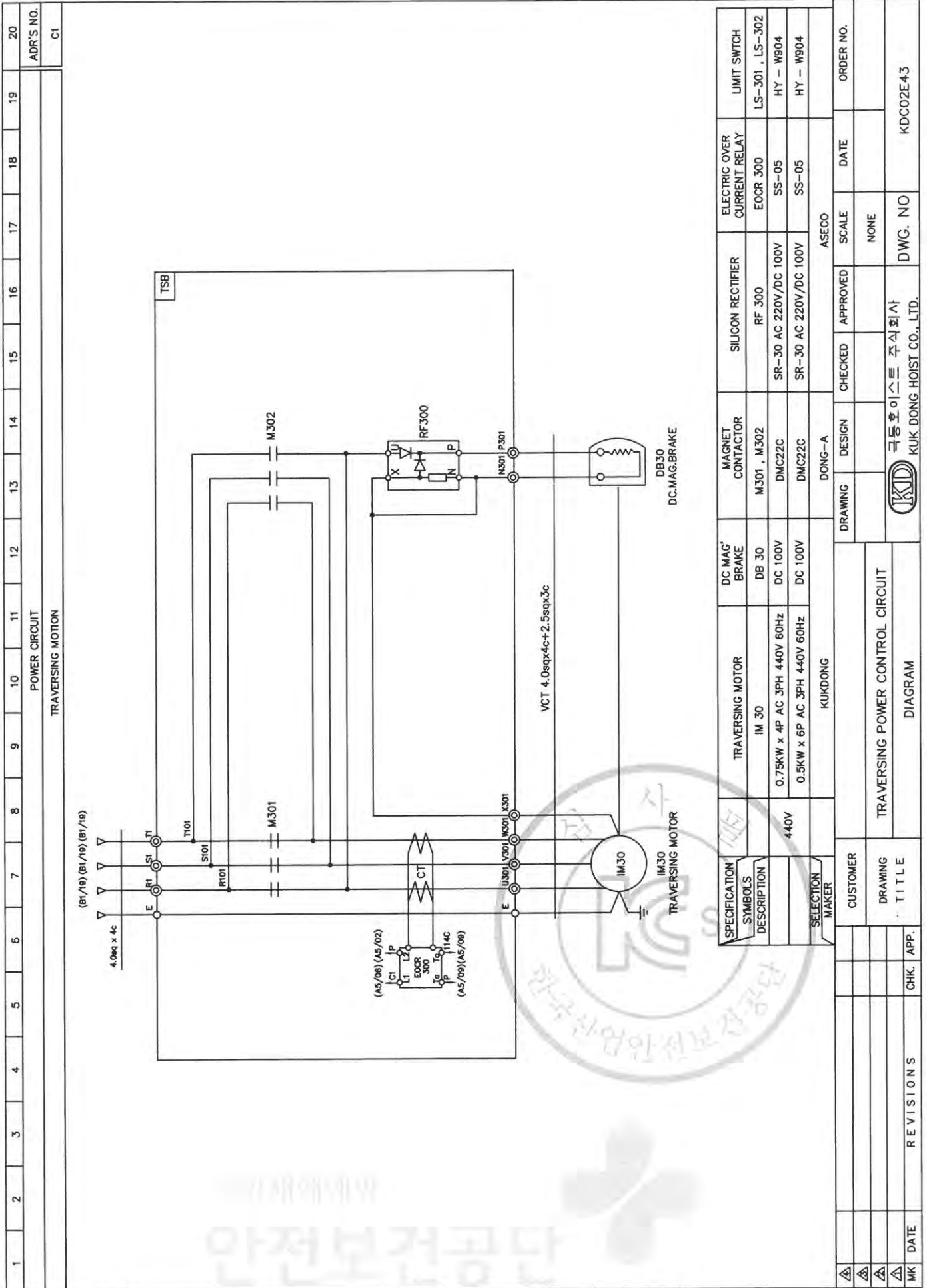
- NOTE 1. 전선의 색상은 다음과 같다.
- 1) 흑색 : 교류 및 직류 전원선으로
 - 2) 적색 : 교류제어선
 - 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제라시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 충전부분이 차단되도록 할것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉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



DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
TRAVERSING POWER CONTROL BOX					NONE		
ARRANGEMENT DRAWING							
KUK DONG HOIST CO., LTD.							
극동호이스트 주식회사							
KDC2bt42							
DWG. NO							
DATE							
MK							
REVISIONS							
CHK.							
APP.							

KDC02E41

192.168.11.51 / 2019-12-20 13:47:06

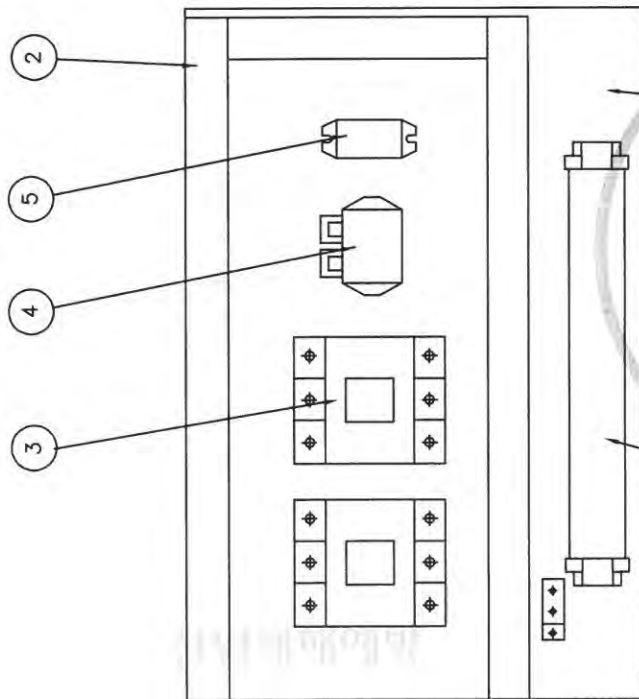


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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.
ADR'S NO.																			



NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	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 제어선로

2) 적색 : 교류제어선

3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

3. 제어용 전선 : 2.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

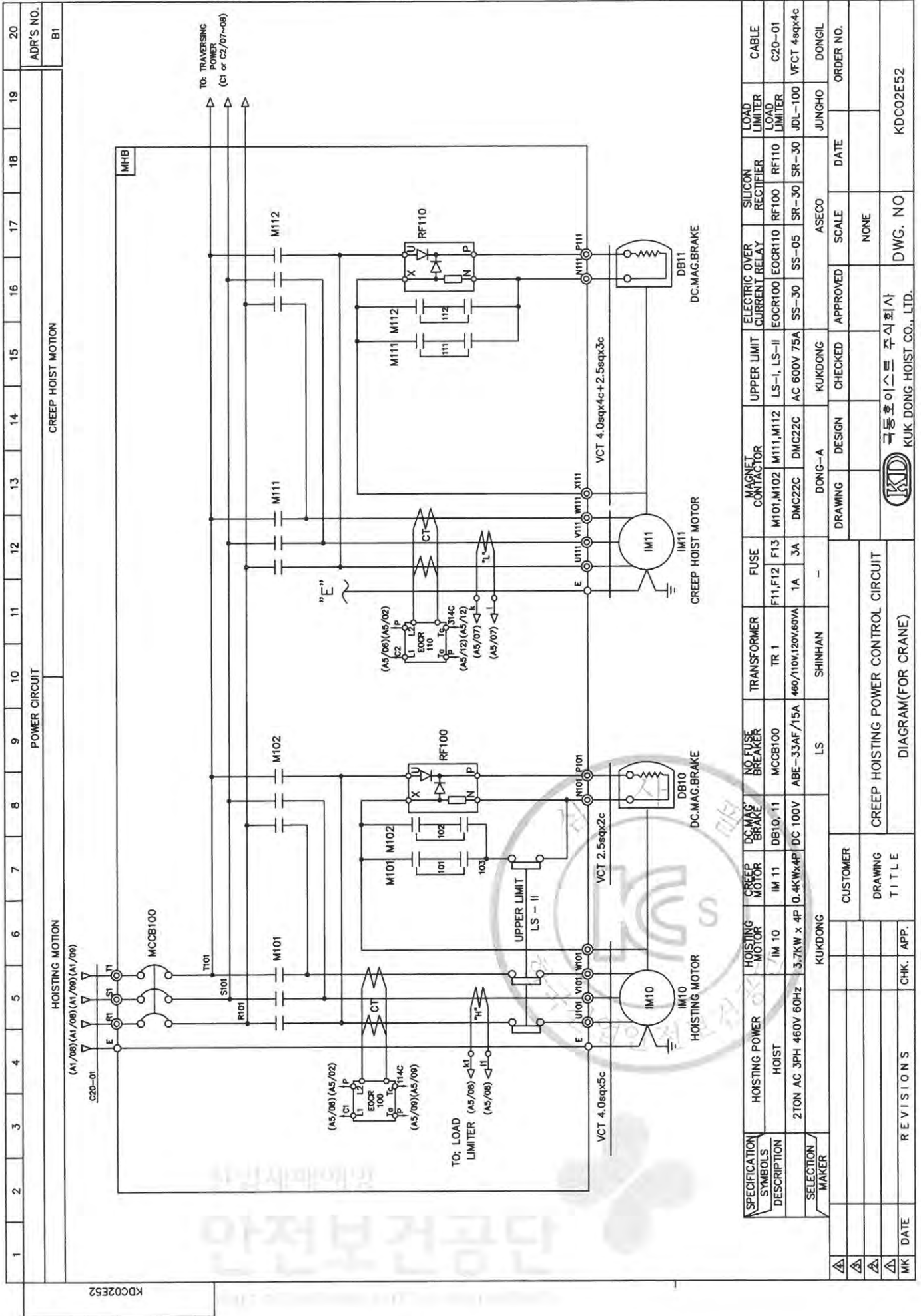
1) 외함 개방시 충전부분이 차단되도록 할것.

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



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 KUK DONG HOIST CO., LTD.						KDC2bt52
TRAVERSING POWER CONTROL BOX ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
DATE						
CHK.						
APP.						

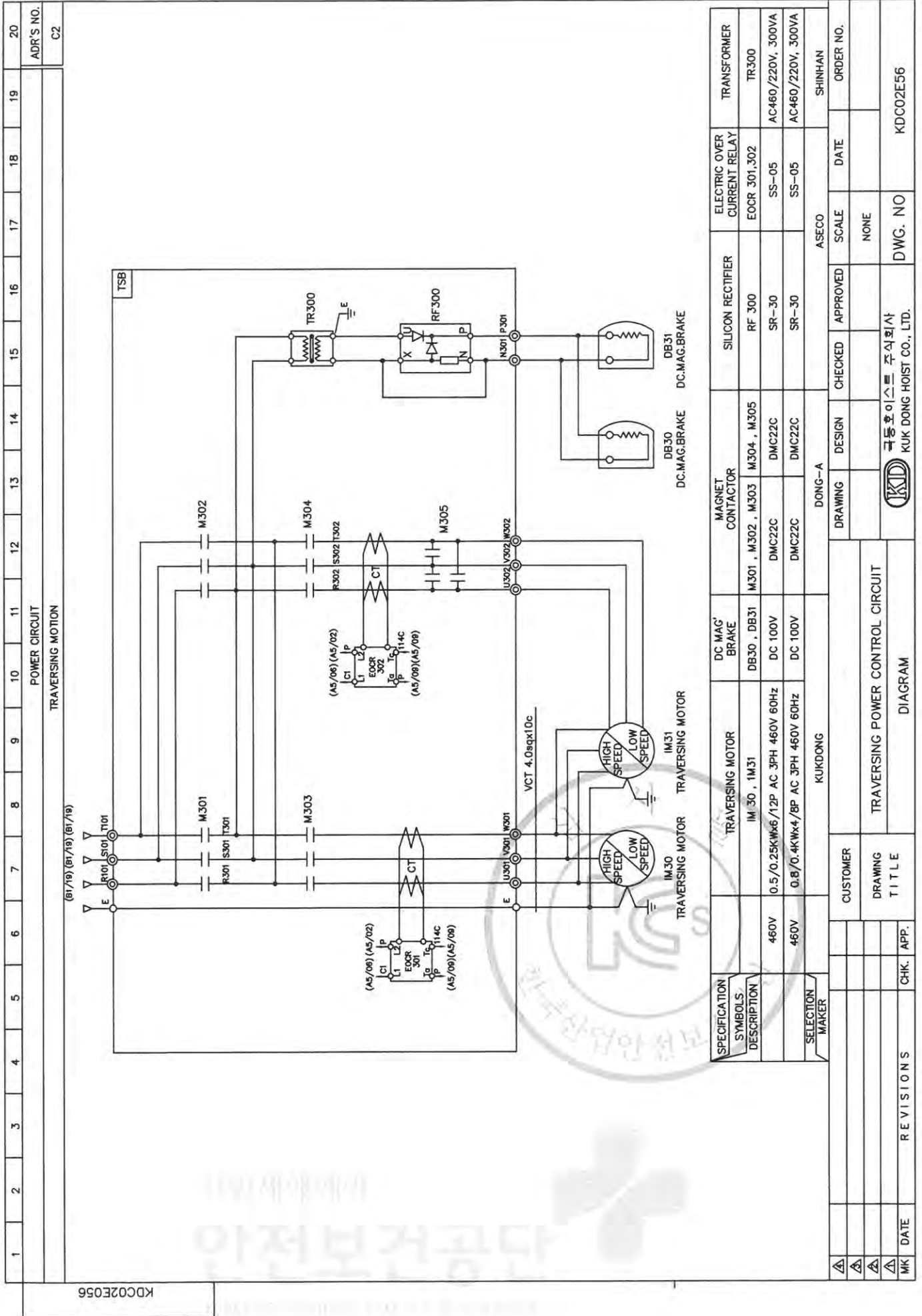
KDC02E51



KDC02E53

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KDC02E055



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

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 글
2	CABLE DUCT	-	1	
3	N.F.B	33AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-30	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	220V/110V(120V), 60VA	1	
14	UPPER LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어선로

2) 적색 : 교류제어선

3) 구황색 : 외부 전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

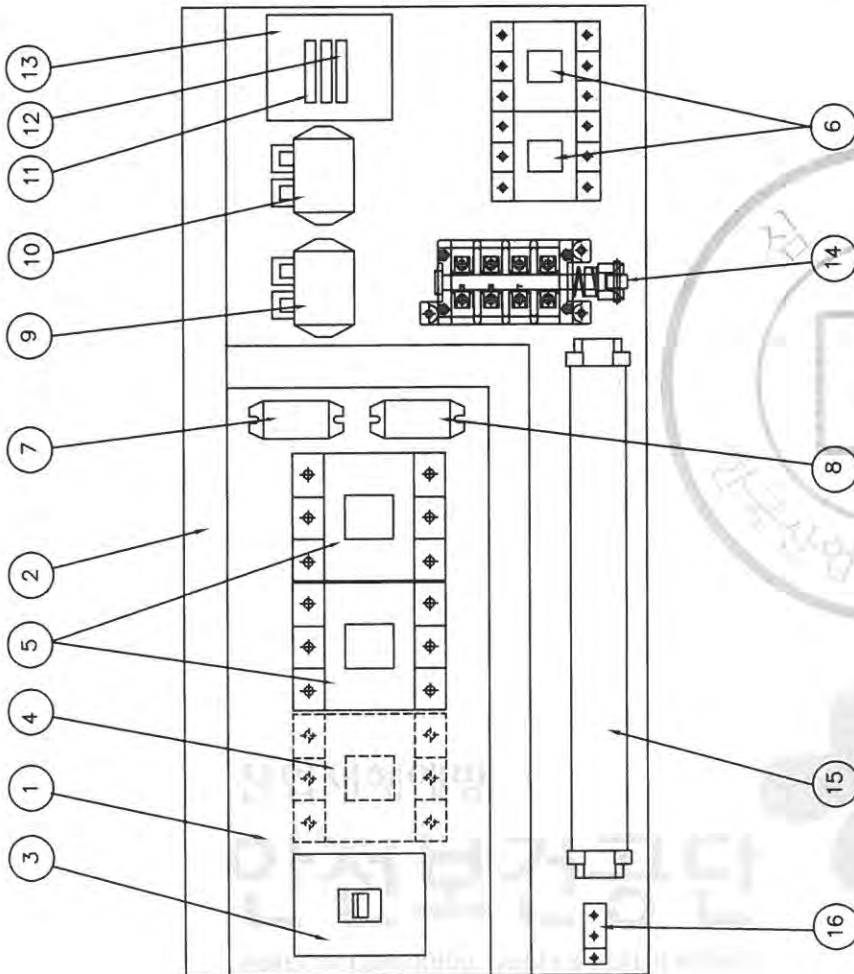
3. 제어용 전선 : 2.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

5. 외함 기방구조는 다음과 같음.

1) 외함 기방시 중전부분이 차단되도록 함.

2) 외함 기방후 중전부분이 있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있음.



NOTE

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

2. POWER SOURCE : AC. 3Ø 480V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω



Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
CUSTOMER										DRAWING TITLE									
CREEP HOIST CONTROL BOX										ARRANGEMENT DRAWING									
REVISIONS										CHK. APP.									
DATE										DATE									
DWG. NO										KDC2BA61									
KUK DONG HOIST CO., LTD.										KUK DONG HOIST CO., LTD.									



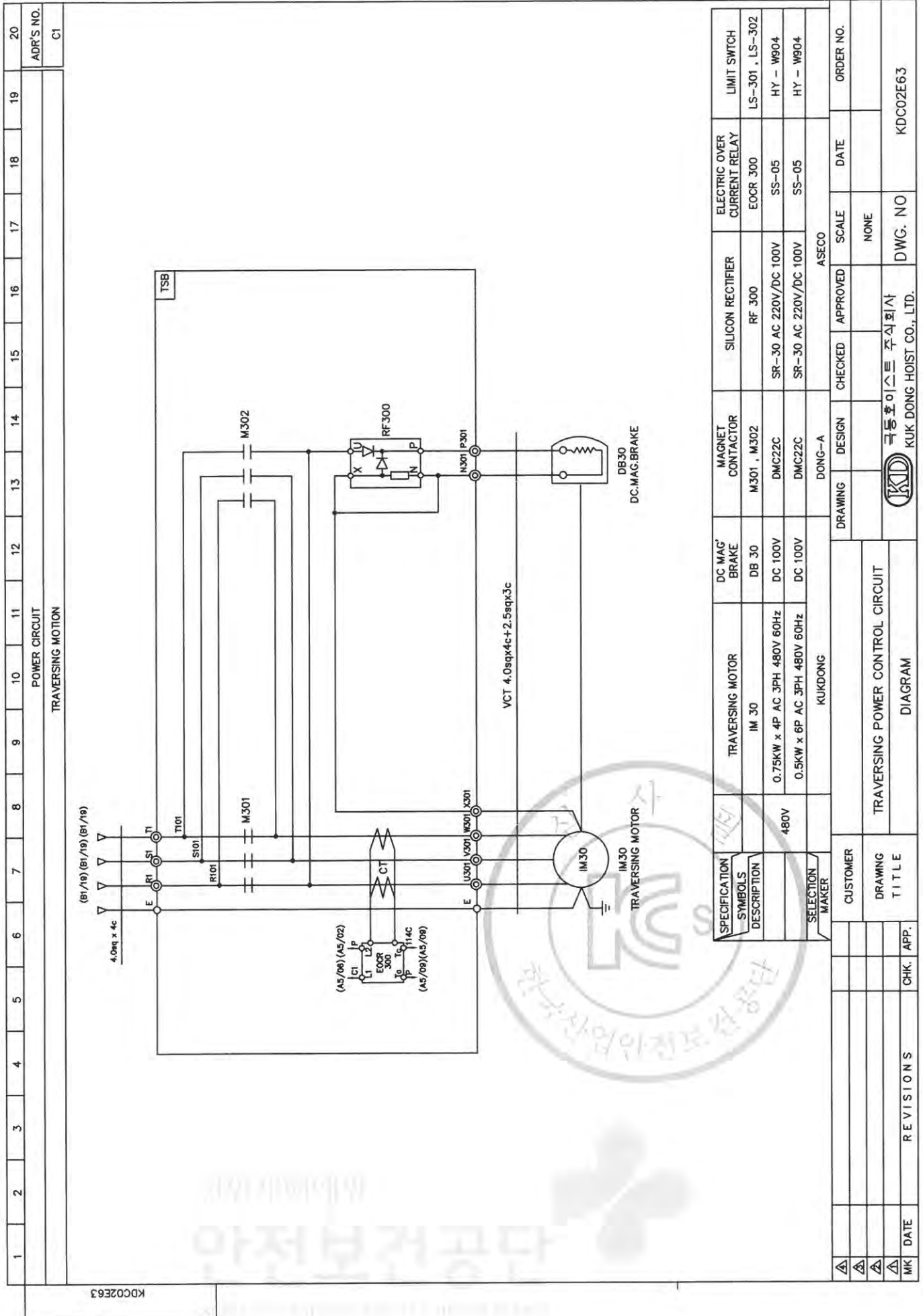
NOTE

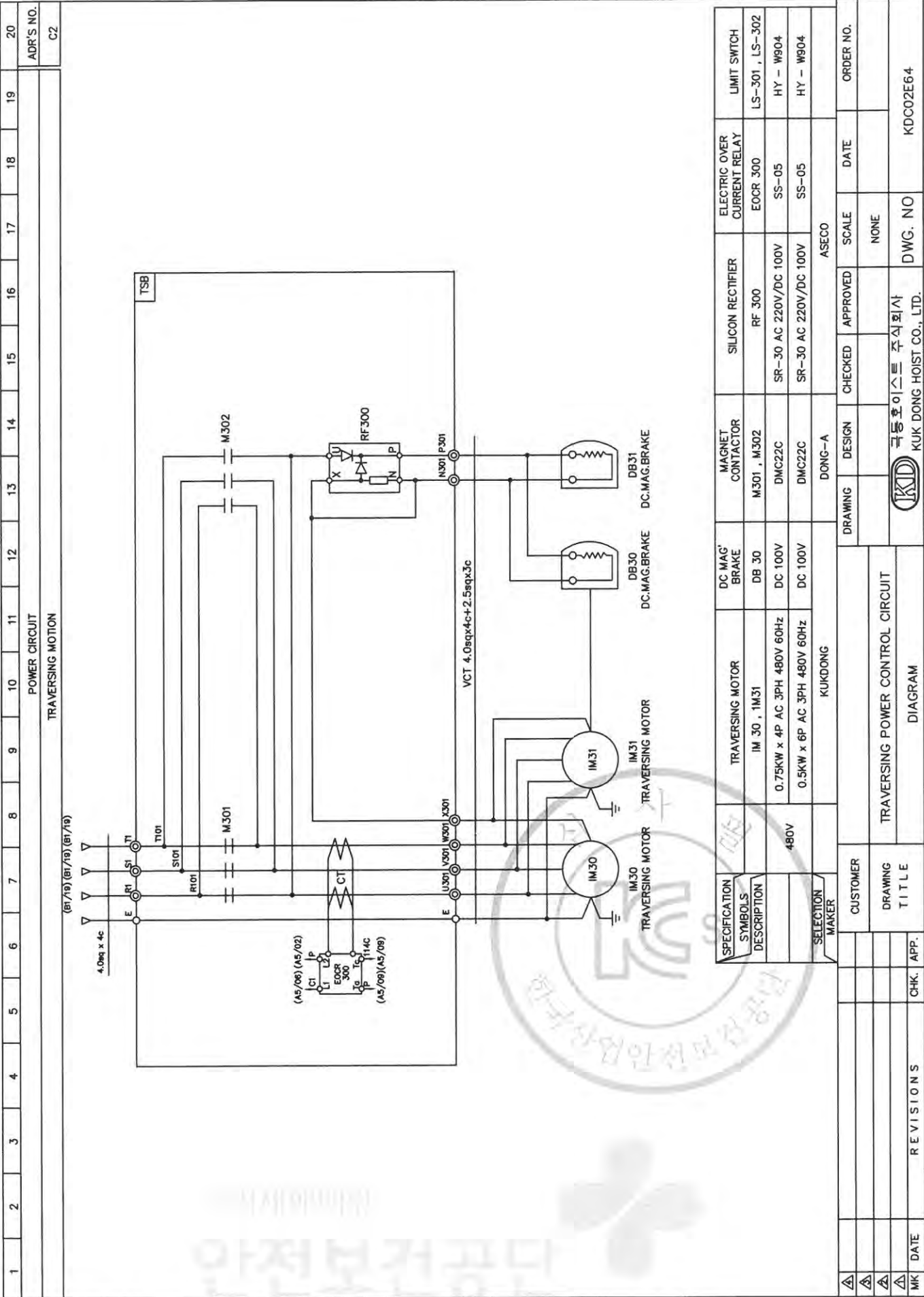
1. 전선의 사양은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전원선로
 - 2) 적색 : 교류제어선
 - 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : ┌ KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제막시 다소 번갈 될수있음.
5. 외함 개방구조는 다음과 같음.
 - 1) 외함 개방시 충전부분이 차단되도록 함.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 차단 전속 방호가 되

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KDC02E61

KDC02E62

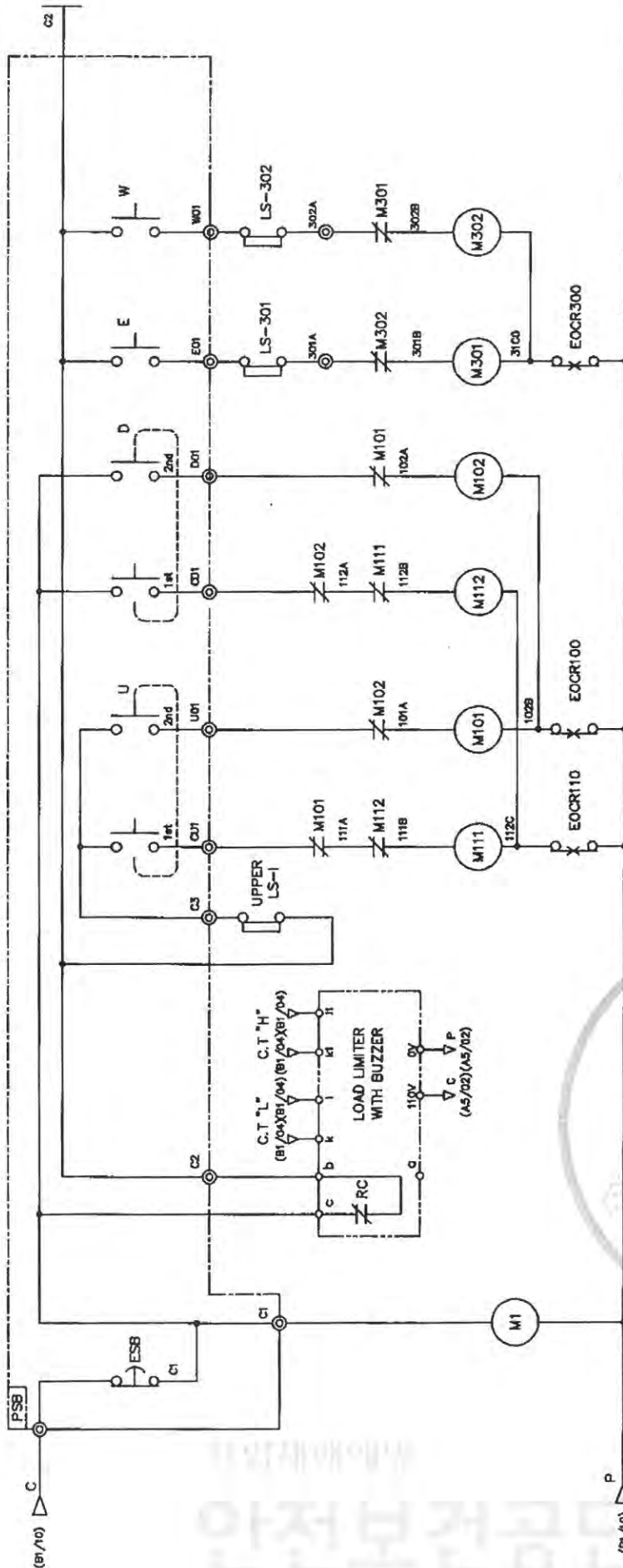




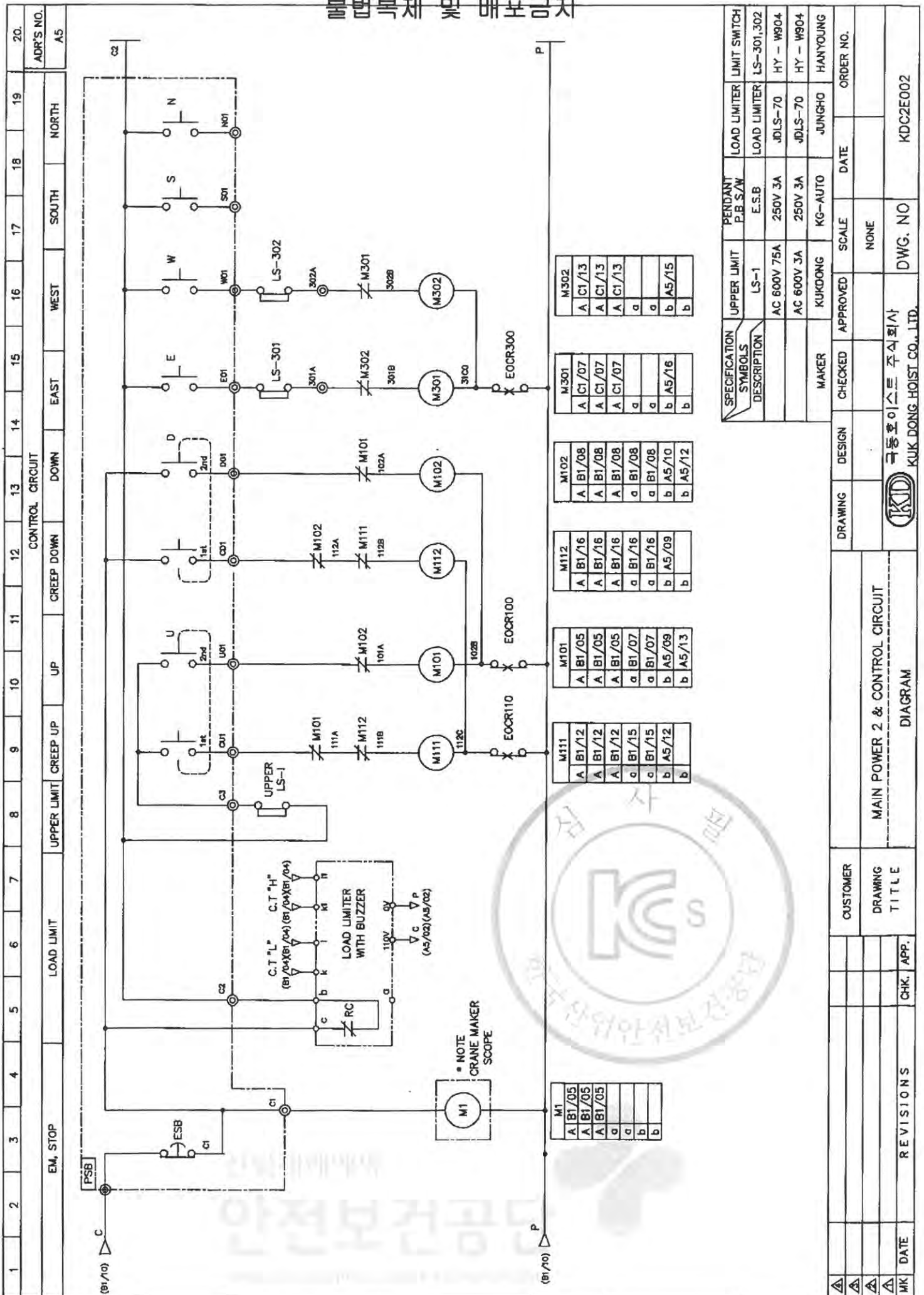
192.168.11.51 / 2019-12-20 13:47:06

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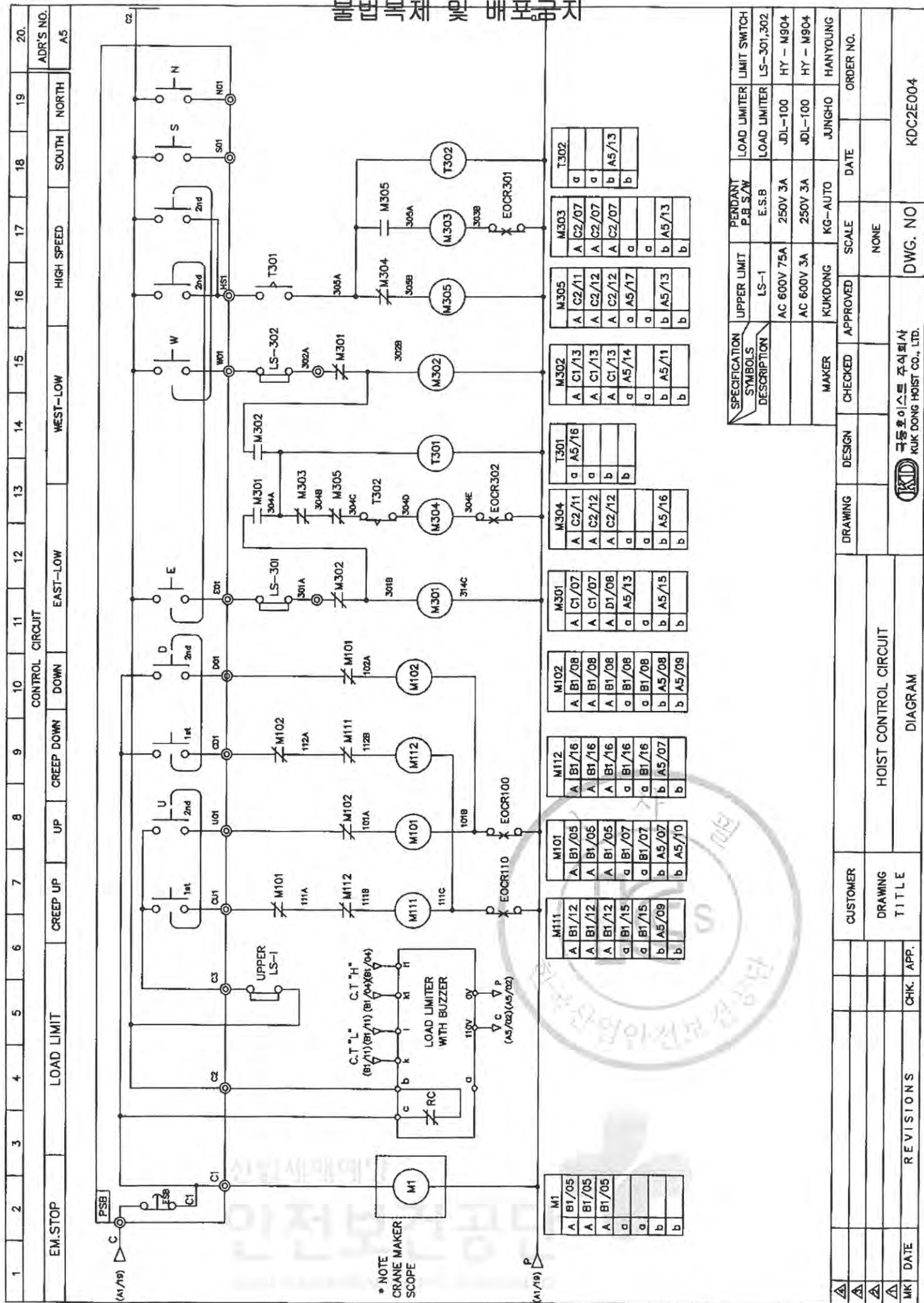
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.						
CONTROL CIRCUIT																									
EM, STOP										UPPER LIMIT		CREEP UP		UP		CREEP DOWN		DOWN		EAST		WEST			
LOAD LIMIT																									



SYMBOLS	DESCRIPTION	UPPER LIMIT	PENDANT P.B S/W	LOAD LIMITER	LOAD LIMITER	LIMIT SWITCH
A	B1/05	A	LS-1	LS-301	LS-302	LS-301, 302
A	B1/05	A	AC 600V 75A	250V 3A	JDL-70	HY - W904
A	B1/05	A	AC 600V 3A	250V 3A	JDL-70	HY - W904
A	B1/05	A	KUKDONG	KG-AUTO	JUNGHO	HANYOUNG
A	B1/05	A	APPROVED	SCALE	DATE	ORDER NO.
A	B1/05	A	CHECKED	NONE		
A	B1/05	A	DESIGN			
A	B1/05	A	DRAWING			
A	B1/05	A	MAIN POWER 2 & CONTROL CIRCUIT			
A	B1/05	A	DIAGRAM			
A	B1/05	A	CUSTOMER			
A	B1/05	A	DRAWING TITLE			
A	B1/05	A	REVISIONS			
A	B1/05	A	CHK. APP.			
A	B1/05	A	DATE			
A	B1/05	A	DWG. NO			
A	B1/05	A	KDC2E001			



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



[illegible]

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	국판	SS400	1							
1	T/S BOX	PUR	1							
NO.	DESCRIPTION	MTL	SUB	TOTAL	SUB	TOTAL	WEIGHT(Kg)	REMARKS.		
PROJECT			DATE			DIM				
						mm				
TITLE			T/S CONTROL PANEL(INVERTER)			SCALE	PROJECTION			
						A3/3	3rd			
DRAWN	DESIGNED	CHECKED	APPROVED		REF. DRAWING					
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET No.			DWG No. KD02EI001				

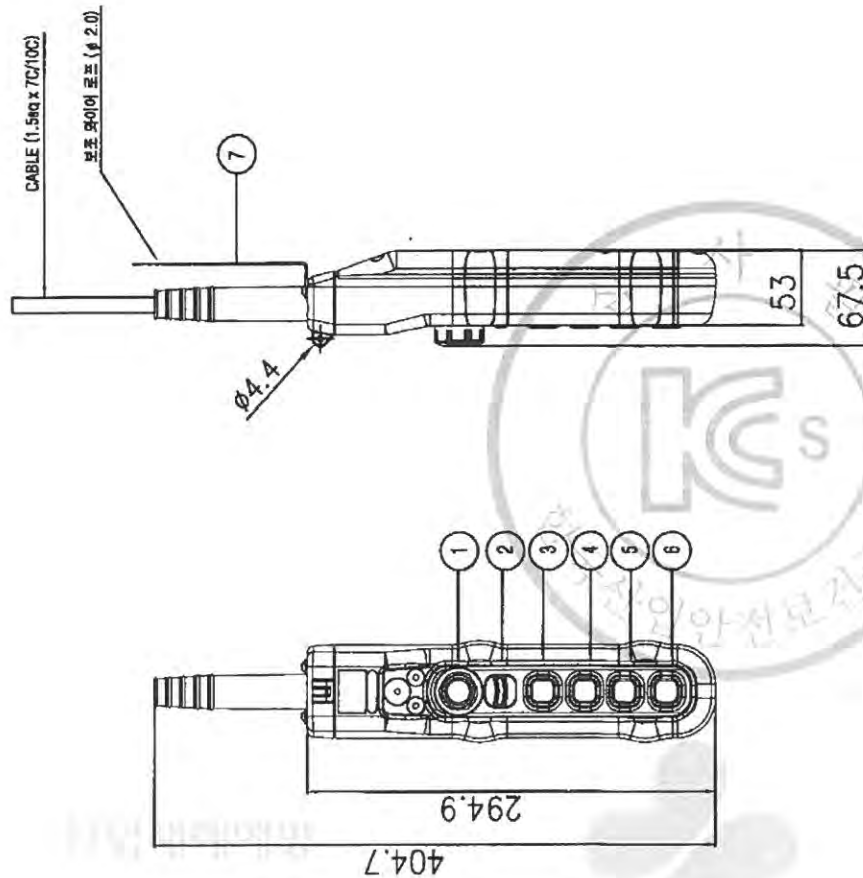
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT DIAGRAM										CONTROL CIRCUIT DIAGRAM									
TRAVERSING MOTION										HIGH SPEED									
TRAVERSING POWER AC 3PH 220V 60Hz AC 3PH 380(440,460,480)V 60Hz										TRAVERSING MOTOR IM 30, 31 0.5KW x 6P 0.5KW x 6P									
DC MAG. BRAKE DB30, 31 DC 100V DC 100V										DC MAG. BRAKE DB30, 31 DC 100V DC 100V									
NO FUSE BREAKER MCCB300 ABE-33AF/15AT ABE-33AF/10AT										BRAKE MAGNET M301 DMC22C DMC22C									
TRANSFORMER TR 300 - 380(440,460,480)/220V,300VA										CONTROL RELAT CR301,302,303 MINI 4a4b(Coil AC110V) MINI 4a4b(Coil AC110V)									
INVERTER CONTROL										INVERTER INV300 SV022IG5A-2 SV022IG5A-4									
CUSTOMER										SCALE DATE									
DRAWING TITLE										APPROVED CHECKED									
REVISIONS										DWG. NO ASAN									
CHK. APP.										ORDER NO.									
ADDITIONAL INFORMATION										ADDITIONAL INFORMATION									
ADDITIONAL INFORMATION										ADDITIONAL INFORMATION									

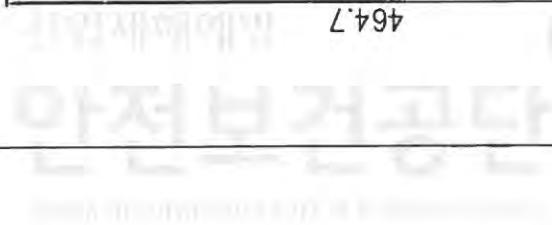
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
POWER CIRCUIT DIAGRAM										CONTROL CIRCUIT DIAGRAM										ADR's NO.					
TRAVERSING MOTION										BRAKE										EAST		WEST		HIGH SPEED	

SPECIFICATION SYMBOLS	TRAVERSING POWER	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER
DESCRIPTION	AC 3PH 220V 60Hz	IM 30, 31	DB30, 31	MCCB300	TR 300	M301	CR301, 302, 303	INV300	RF300
	AC 3PH 380(440,460,480)V 60Hz	0.75KW x 4P	DC 100V	ABE-33AF/15AT	-	DMC22C	MINI 4a4b(Coil AC110V)	SV037G5A-2	SR-30
SELECTION/MAKER		0.75KW x 4P	DC 100V	ABE-33AF/10AT	380(440,460,480)/220V,300VA	DMC22C	MINI 4a4b(Coil AC110V)	SV037G5A-4	SR-30

REVISIONS	DATE	CHK.	APP.	DWG. NO	ORDER NO.
				KD02EI005	

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

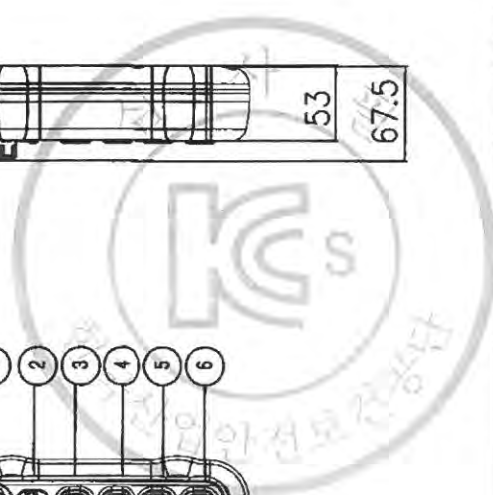
[illegible]



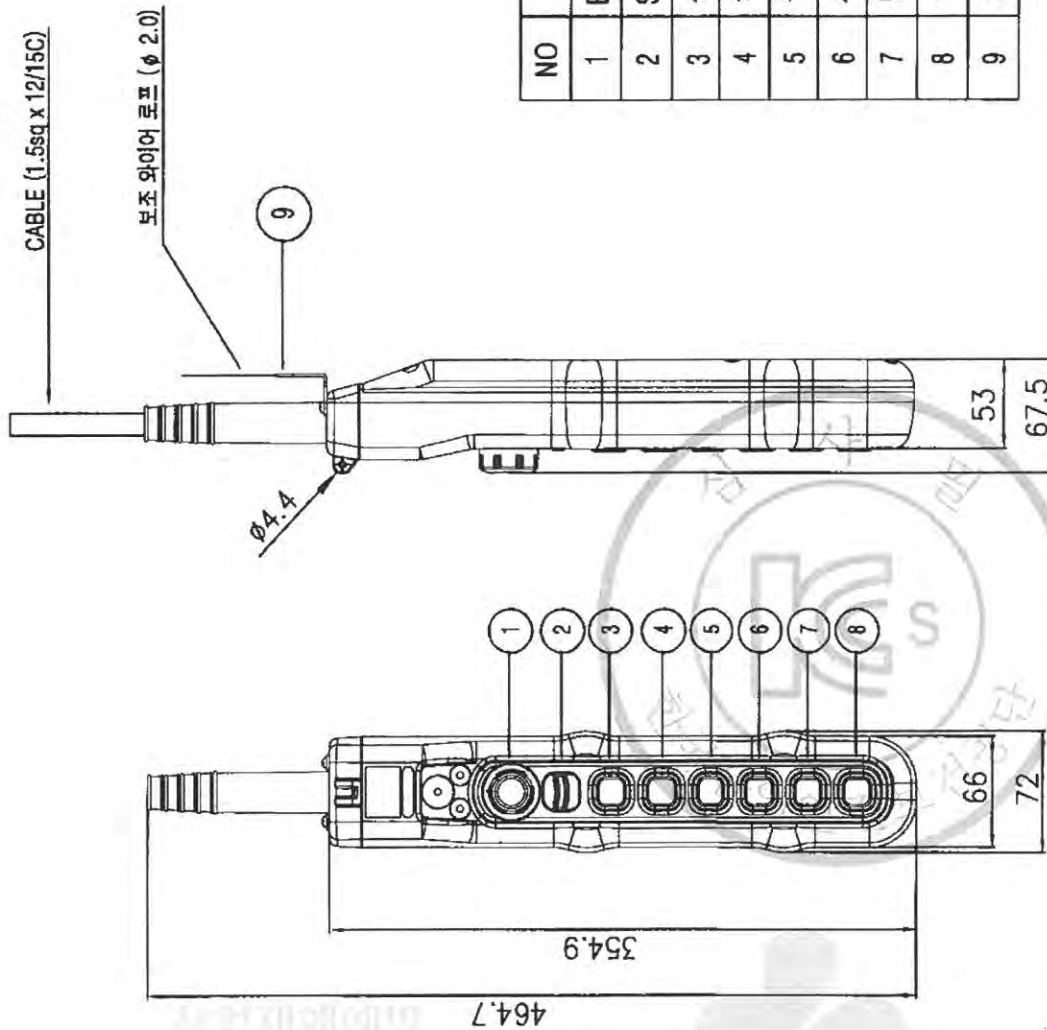
* MATERIAL : POLYCARBONATE(PLASTIC)
* BODY COLOR : YELLOW, BLACK
* IP : 55 이상

Technical drawing of a mechanical part, likely a bracket or support, showing four numbered circles (5, 6, 7, 8) indicating specific features or dimensions. The drawing is a top-down view of a rectangular component with rounded ends. Feature 5 is a small circular hole on the left end. Feature 6 is a larger circular hole on the left end. Feature 7 is a small circular hole on the right end. Feature 8 is a larger circular hole on the right end. The drawing includes dimension lines and a scale bar.

[illegible]



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



구분	색상	조작버튼	표시등
적색	비상	비상	비상
황색	비정상	비정상	비정상
녹색	정상	정상	정상
청색	의무	의무	의무
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	250VAC x 6A	RED
2	SPARE			
3	상	1PUSH BUTTON 2STEP		BLACK
4	하	1PUSH BUTTON 2STEP		
5	동 (좌)	1PUSH BUTTON 2STEP		
6	서 (우)	1PUSH BUTTON 2STEP		
7	남 (전)	1PUSH BUTTON 1STEP		
8	북 (후)	1PUSH BUTTON 1STEP		
9	보조 WIRE	φ 2.0		

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I-BEAM 최대 지지거리



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	270	1015.6	1042.2	927.5
200×150×t9/16	430	984.2	1041.3	833.5
250×125×t7.5/12.5	470	965.8	1012.3	1124.8
250×125×t10/19	550	964.4	1043.2	933.3
300×150×t8/13	630	953.4	1031.1	1086.4
300×150×t10/18.5	740	886.2	1001.2	962.6
300×150×t11.5/22	790	874.7	1016.8	901.5
350×150×t9/15	790	935.6	1051.4	1147
350×150×t12/24	970	838	1027.7	993
400×150×t10/18	930	1020.1	1202.9	1140.6
400×150×t12.5/25	1140	814.8	1053	1131.5
450×175×t11/20	1180	942.4	1215.3	1148.5
450×175×t13/26	1350	816.6	1155.9	1111.4

☞ 기본 조건

정격하중 (Kg)	양정 (m)	권상속도 (m/min)	호이스트		작업계수	풍력계수
			자중 (Kg)	풍압면적 (m ²)		
1800	30	10	535	1.8	1.08	1.2

*첨부 강도계산서 참조



[I-BEAM 최대 지지거리 강도계산서]

1. 굽힘 MOMENT 계산

1-1. 수직하중에 의한 굽힘 MOMENT

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

$$\text{※ 작업계수}(\phi) = 1.08$$

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

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

$$\begin{aligned} \text{※ 이동하중 (kg)} &= \text{정격하중} + \text{호이스트 자중} \\ &= 1800 + 535 = 2335 \quad (\text{kg}) \end{aligned}$$

$$\begin{aligned} \text{※ 충격계수}(\psi) &= 1 + 0.6V \quad (\text{단, } \psi < 1.1 \text{ 이면 } \psi = 1.1, \quad \psi > 1.6 \text{ 이면 } \psi = 1.6 \text{ 으로 한다.}) \\ &= 1 + (0.6 \times 0.167) = 1.1002 \quad \longrightarrow \quad 1.1002 \end{aligned}$$

$$\text{※ 권상속도}(V) = \frac{10}{60} \quad (\text{m/min}) = 0.167 \quad (\text{m/sec})$$

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

1-2. 풍하중에 의한 굽힘 MOMENT

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

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

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

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

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

$$\text{※ HOIST의 풍압 면적} = 1.8 \quad (\text{m}^2)$$

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

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



표1. 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	270	0.362	97.74	235	61.6	3562.62	187277.69	190840.32	0.41	52.66	7108.48	812.09	115.40
200 × 150 × t9/16	430	0.504	216.72	446	100	12580.60	298257.07	310837.66	0.86	63.52	13656.97	696.95	136.57
250 × 125 × t7.5/12.5	470	0.383	180.01	414	53.9	11421.63	326001.91	337423.55	1.18	71.04	16695.11	815.03	309.74
250 × 125 × t10/19	550	0.555	305.25	585	86	22664.81	381491.60	404156.41	1.38	75.82	20850.23	690.87	242.44
300 × 150 × t8/13	630	0.483	304.29	632	78.4	25879.86	436981.29	462861.15	1.89	88.12	27756.92	732.38	354.04
300 × 150 × t10/18.5	740	0.655	484.7	849	118	48421.53	513279.61	561701.14	2.22	96.00	35519.11	661.60	301.01
300 × 150 × t11.5/22	790	0.768	606.72	978	143	64706.69	547960.66	612667.35	2.37	99.58	39333.94	626.45	275.06
350 × 150 × t9/15	790	0.585	462.15	870	93.5	49288.30	547960.66	597248.96	2.77	109.01	43059.82	686.49	460.53
350 × 150 × t12/24	970	0.872	845.84	1280	158	110762.75	672812.46	783575.21	3.40	124.06	60167.45	612.17	380.81
400 × 150 × t10/18	930	0.72	669.6	1200	115	84068.28	645067.61	729135.89	3.72	131.82	61295.18	607.61	533.00
400 × 150 × t12.5/25	1140	0.958	1092.12	1580	165	168077.27	790728.04	958805.31	4.56	151.88	86569.78	606.84	524.67
450 × 175 × t11/20	1180	0.917	1082.06	1740	173	172372.16	818472.89	990845.04	5.31	169.79	100174.21	569.45	579.04
450 × 175 × t13/26	1350	1.15	1552.5	2170	231	282943.13	936388.47	1219331.60	6.08	188.06	126937.13	561.90	549.51

[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)

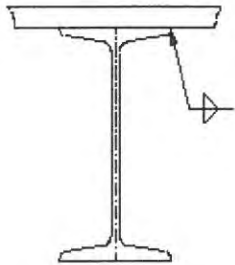
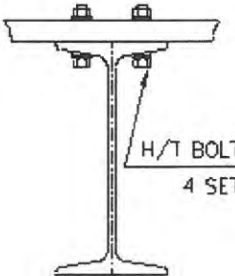
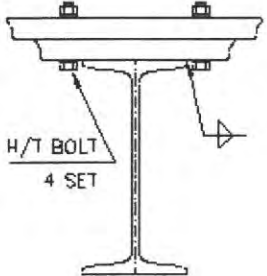
$I_x =$ 단면2차MOMENT

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	270	0.0068	0.2591	1015.6	1042.2	927.5
200 × 150 × t9/16	4460	430	0.0240	0.4129	984.2	1041.3	833.5
250 × 125 × t7.5/12.5	5180	470	0.0224	0.4643	965.8	1012.3	1124.8
250 × 125 × t10/19	7310	550	0.0431	0.5272	964.4	1043.2	933.3
300 × 150 × t8/13	9480	630	0.0498	0.6110	953.4	1031.1	1086.4
300 × 150 × t10/18.5	12700	740	0.0959	0.7391	886.2	1001.2	962.6
300 × 150 × t11.5/22	14700	790	0.1262	0.7769	874.7	1016.8	901.5
350 × 150 × t9/15	15200	790	0.0929	0.7514	935.6	1051.4	1147
350 × 150 × t12/24	22400	970	0.2137	0.9438	838	1027.7	993
400 × 150 × t10/18	24100	930	0.1386	0.7731	1020.1	1202.9	1140.6
400 × 150 × t12.5/25	31700	1140	0.3165	1.0826	814.8	1053	1131.5
450 × 175 × t11/20	39200	1180	0.2812	0.9709	942.4	1215.3	1148.5
450 × 175 × t13/26	48800	1350	0.4853	1.1679	816.6	1155.9	1111.4

■ 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
1800	6	150	M12 x 4set

단, 적용 I-BEAM 400×150×t10/18 의 경우임

※강도계산서 참조



안전보건공단
한국산업안전보건공단

[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 $\Psi = 1.1002$

작업계수 $\phi = 1.08$

정격하중 $Q = 1800$

H01ST자중 $Q1 = 535$

☞ 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	97.74	2674.5	M12	4	1.13	591.7
200 × 150 × t9/16	216.72	2803	M12	4	1.13	620.1
250 × 125 × t7.5/12.5	180.01	2763.4	M12	4	1.13	611.4
250 × 125 × t10/19	305.25	2898.6	M12	4	1.13	641.3
300 × 150 × t8/13	304.29	2897.6	M12	4	1.13	641.1
300 × 150 × t10/18.5	484.7	3092.4	M12	4	1.13	684.2
300 × 150 × t11.5/22	606.72	3224.2	M12	4	1.13	713.3
350 × 150 × t9/15	462.15	3068.1	M12	4	1.13	678.8
350 × 150 × t12/24	845.84	3482.5	M12	4	1.13	770.5
400 × 150 × t10/18	669.6	3292.1	M12	4	1.13	728.3
400 × 150 × t12.5/25	1092.12	3748.5	M12	4	1.13	829.3
450 × 175 × t11/20	1082.06	3737.6	M12	4	1.13	826.9
450 × 175 × t13/26	1552.5	4245.7	M12	4	1.13	939.3

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	2674.5	0.6	12.5	252.2
200 × 150 × t9/16	2803	0.6	15	220.3
250 × 125 × t7.5/12.5	2763.4	0.6	12.5	260.6
250 × 125 × t10/19	2898.6	0.6	12.5	273.3
300 × 150 × t8/13	2897.6	0.6	15	227.7
300 × 150 × t10/18.5	3092.4	0.6	15	243
300 × 150 × t11.5/22	3224.2	0.6	15	253.4
350 × 150 × t9/15	3068.1	0.6	15	241.1
350 × 150 × t12/24	3482.5	0.6	15	273.7
400 × 150 × t10/18	3292.1	0.6	15	258.7
400 × 150 × t12.5/25	3748.5	0.6	15	294.6
450 × 175 × t11/20	3737.6	0.6	17.5	251.7
450 × 175 × t13/26	4245.7	0.6	17.5	286

IV. 참 고 도 서

1. LOAD LIMITER 권고 SETTING치
2. E.O.C.R 권고 SETTING치
3. MOTOR DATA SHEET
4. WIRE ROPE 성적서
5. 사용방법 설명서 (HOIST, OLP)
6. SUB VENDOR LIST



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	용량·등급	인증번호
JDL-100	J-2	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





INVOICE NO. 2014 - 01 - 260 / PW13082

DATE 27. Jan, 2014

MILL TEST CERTIFICATE

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

OF KSD 3514 - 2002 (B Grade)

TO MESSRS KISWIRE LTD

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

6 x 36 WS - FC 1,000.00 M x 20 REEL

TYPE _____

EX NO. PW13082-4 FACTORY NO. 201310WRM00530

ORDER NO. SMW 1311-1(SEOUL) REEL NO. 41 - 60 SAMPLING NO. 41

DIAMETER OF ROPE 10.00 mm ACTUAL DIAMETER

TYPE OF CORE FIBRE CORE SPECIFIED NOMINAL

BREAKING STRENGTH 59.20 kN SAMPLE BROKE AT 70.70 kN

WT OF ZINC COATING OF OUTER WIRE MIN. g/3³

ROPE LAY sZ (RHRL,OZ) LAY LENGTH 66.10 mm

LUBRICATION A-3

CHEMICAL ANALYSIS OF WIRE ROD

CHARGE NO.	C X 100	Si X 100	Mn X 100	P X 1000	S X 1000
SD71294131	70	21	58	7	15



DATE OF SAMPLE TEST 19. Jan, 2014

Approved by Q.A Manager Mr. Zamri Ja'afar
KISWIRE

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.1 A	CT-1	K-K1, L-L1	5 V.A	
C1.8 TON	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.4 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.1 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	24.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	24.3 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	30.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	8.1 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	30.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	8.1 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	45.0 A	49.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.6 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

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	5.8 A	6.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	2.1 A	CT-1	K-K1, L-L1	5 V.A	
C1.8 TON	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	2.1 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	13.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	5.3 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	17.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	5.3 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	6.1 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

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	5.0 A	7.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C1.8 TON	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 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	10.5 A	13.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	13.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	18.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 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	18.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 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	5.4 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

극동하이스트(주)

* POWER SOURCE : AC 3Φ 460V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.3 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C1.8 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	1.3 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	11.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 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	13.5 A	14.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.6 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	4.0 A	5.4 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

극동하이스트(주)

* POWER SOURCE : AC 3Φ 480V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.0 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.2 A	1.35 A	CT-1	K-K1, L-L1	5 V.A	
C1.8 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.2 A	1.35 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	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	4.3 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	3.5 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	3.5 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	4.0 A	5.4 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.

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 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	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	0.4KW x 4P	2.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	2.7 A	
C1.8 TON	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
	0.4KW x 4P	2.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	2.7 A	
C2.8 TON	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
	1.5KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C3 TON	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
	1.5KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
C5 TON	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	1.0KW x 6P	6.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.7 A	
C7.5 TON	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
	1.0KW x 6P	6.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.7 A	
C10 TON	9.0KW x 8P	45.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	45.0 A	
	1.1KW x 8P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	1 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.6 A%	
C1.8 TON	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.6 A	
C2.8 TON	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	1.5KW x 4P	4.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.2 A	
C3 TON	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	1.5KW x 4P	4.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.2 A	
C5 TON	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	1.0KW x 6P	3.9 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.9 A	
C7.5 TON	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
	1.0KW x 6P	3.9 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.9 A	
C10 TON	9.0KW x 8P	26.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.0 A	
	1.1KW x 8P	4.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.6 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	5.0 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C1.8 TON	3.7KW x 4P	8.0 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	1.4 A	
C2.8 TON	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	1.5KW x 4P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.7 A	
C3 TON	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	1.5KW x 4P	3.7 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.7 A	
C5 TON	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	1.0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.3 A	
C7.5 TON	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
	1.0KW x 6P	3.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.3 A	
C10 TON	9.0KW x 8P	22.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.5 A	
	1.1KW x 8P	4.0 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.

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	4.8 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C1.8TON	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	0.4KW x 4P	1.3 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2.8 TON	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C3 TON	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.2 A	
C7.5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.2 A	
C10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 A	
	1.1KW x 8P	4.0 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.

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	
C1 TON	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.6 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C1.8 TON	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
	0.4KW x 4P	1.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2.8 TON	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
	1.5KW x 4P	3.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.4 A	
C3 TON	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
	1.5KW x 4P	3.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.4 A	
C5 TON	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	1.0KW x 6P	3.1 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.1 A	
C7.5 TON	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
	1.0KW x 6P	3.1 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.1 A	
C10 TON	9.0KW x 8P	20.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.6 A	
	1.1KW x 8P	4.0 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.

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Ø 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	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
0.4KW x 4P	2.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	5.4 A	
0.5KW x 6P	3.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.8 A	
0.75KW x 4P	4.1 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.2 A	
1.0KW x 6P	6.7 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	13.4 A	
1.5KW x 4P	7.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14.6 A	
1.5KW x 6P	7.6 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.2 A	
2.2KW x 4P	10 A	1 DRIVE	SS - 30	3 SEC	1 SEC	10 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	20 A	
0.8/0.4KW x 4/8P	4.8/4.25 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	4.25 A	
2.2KW x 6P	12 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12 A	
3.7KW x 4P	16 A	1 DRIVE	SS - 30	3 SEC	1 SEC	16 A	
		2DRIVE	SS - 60	3 SEC	1 SEC	32 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Ø 380V 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 - 06	3 SEC	1 SEC	1.2 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
0.4KW x 4P	1.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.6 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.2 A	
0.5KW x 6P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
0.75KW x 4P	2.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
1.0KW x 6P	3.9 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.9 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.8 A	
1.5KW x 4P	4.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.4 A	
1.5KW x 6P	4.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.8 A	
2.2KW x 4P	5.8 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.8 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	11.6 A	
0.8/0.4KW x 4/8P	2.78/2.63 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.78 A	
			SS - 06	3 SEC	1 SEC	2.63A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	5.48 A	
			SS - 30	3 SEC	1 SEC	5.26 A	
2.2KW x 6P	7.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14 A	
3.7KW x 4P	9.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	9.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	18.6 A	

NOTE

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

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	1.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
0.4KW x 4P	1.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.4 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.8 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.7 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
1.0KW x 6P	3.3 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.6 A	
1.5KW x 4P	3.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.4 A	
1.5KW x 6P	3.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.6 A	
2.2KW x 4P	5.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.0 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	10 A	
0.8/0.4KW x 4/8P	2.4/2.27 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	2.27 A	
2.2KW x 6P	6.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12.0 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	16 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Φ 460V 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	1.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
0.4KW x 4P	1.3 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.3 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.6 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.7 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
1.0KW x 6P	3.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.2 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.4 A	
1.5KW x 4P	3.5 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
1.5KW x 6P	3.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.2 A	
2.2KW x 4P	4.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	9.6 A	
0.8/0.4KW x 4/8P	2.3/2.15 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.3 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	2.15 A	
2.2KW x 6P	4.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.6 A	
3.7KW x 4P	7.7 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	15.4 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Φ 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	0.9 A	1 DRIVE	SS - 06	3 SEC	1 SEC	0.9 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	1.8 A	
0.4KW x 4P	1.2 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.2 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
0.5KW x 6P	1.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.6 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.2 A	
0.75KW x 4P	1.9 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.9 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.8 A	
1.0KW x 6P	3.1 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.1 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	4.2 A	
1.5KW x 4P	3.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.8 A	
1.5KW x 6P	3.5 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.5 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
2.2KW x 4P	4.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.6 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	9.2 A	
0.8/0.4KW x 4/8P	2.22/2.05 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.22 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	2.05 A	
2.2KW x 6P	4.6 A	1 DRIVE	SS - 06	3 SEC	1 SEC	4.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.2 A	
3.7KW x 4P	7.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	7.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	14.6 A	

NOTE

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

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	200 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	345 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	400 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	418 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	436 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	CREEP HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	2.7 A
12. STARTING CURRENT AT RATED VOLTAGE	14.2 A
13. MINIMUM STARTING VOLTAGE	198 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 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	CREEP HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	8.3 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 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	CREEP HOISTNG
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	1.4 A
12. STARTING CURRENT AT RATED VOLTAGE	7.1 A
13. MINIMUM STARTING VOLTAGE	396 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 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	CREEP HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	1.3 A
12. STARTING CURRENT AT RATED VOLTAGE	6.8A
13. MINIMUM STARTING VOLTAGE	414 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 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	CREEP HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	1.2 A
12. STARTING CURRENT AT RATED VOLTAGE	6.6 A
13. MINIMUM STARTING VOLTAGE	432 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. STARTING TORQUE	0.7 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	200 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	345 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 F C
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	400 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	418 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	436 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	200 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	345 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	400 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	418 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	436 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 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	4.8 / 4.25 A
12. LOCKED ROTOR CURRENT	14.2 / 13.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD 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 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.78 / 2.63 A
12. LOCKED ROTOR CURRENT	9.2 / 6.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD 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 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.4 / 2.27 A
12. LOCKED ROTOR CURRENT	8.6 / 6.2 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD 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 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3 / 2.17 A
12. LOCKED ROTOR CURRENT	8.5 / 6.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD 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 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATING	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	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3 / 2.1 A
12. LOCKED ROTOR CURRENT	8.4 / 6.15 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.2/3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	12.8/10.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE 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 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.85/2.08 A
12. STARTING CURRENT AT RATED VOLTAGE	7.41/6.25 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE 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 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.2/3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	12.8/10.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE 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 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.6/1.8 A
12. STARTING CURRENT AT RATED VOLTAGE	6.4/5.4 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE 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 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.5/1.72 A
12. STARTING CURRENT AT RATED VOLTAGE	6.2/5.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE 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