



제2018 - 2027125 호

안 전 인 증 서

(사업장명) 극동호이스트(주)

(소 재 지) (154-23)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 호이스트 (국내품)

_____ 형식,모델(용량,등급)/인증번호 _____

KD1.8-M (1.8Ton) / 18-AE2AC-09941

_____ 인 증 기 준 _____

고용노동부 고시 제2016 - 29호 (위험기계·기구 안전인증 고시)

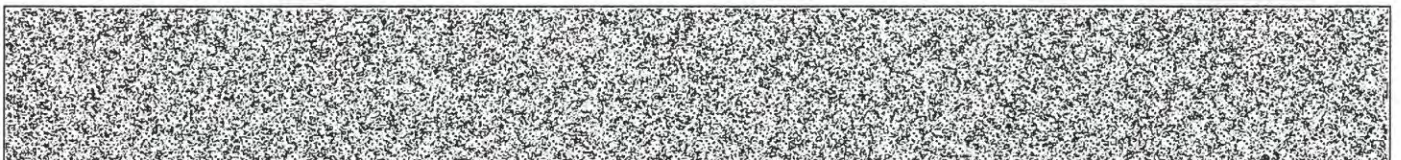
_____ 인 증 조 건 _____

인증유효기간 : 해당없음

설치장소 : 옥외

2018년 06월 15일

한국산업안전보건공단이사장





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 호이스트 (국내품)	
형 식 (규 격)	KD1.8-M	용 량 (등 급)	1.8 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☒ 서면심사

☐ 기술능력 및 생산체계 심사

☐ 개별 제품심사

☐ 개별 제품심사(제작중)

☐ 형식별 제품심사

결과가 ☒ 적 합

☐ 부적합

합을 통지합니다.

2018년 06월 08일

인증심사원

이승태

(서명 또는 인)

한국산업안전보건공단 중부지역본부장



서 면 심 사 서 류

형식 번호 : KD1.8-M

극 동 호 이 스톱 (주) S



工場 : 경기도 안산시 단원구 해봉로 119 (성곡동)

電話 : 031) 491 - 5311

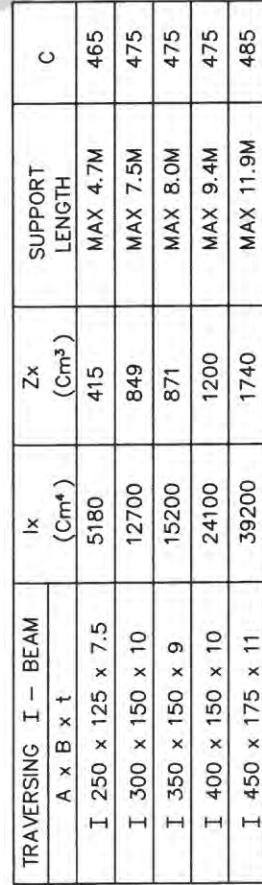
FAS : 031) 494 - 5315

한국산업안전보건공단
안전보건공단
KOSHA OCCUPATIONAL SAFETY & HEALTH AGENCY

동일형식일람표

사업장명		구동호이스트(주)		개정일자 및 번호		인증번호		비고
형식 및 모델				동일 형식 인정범위 및 내역				
형식	모델			권상속도(m/min)	회행속도(m/min)	양정(m)	회행방식	
KD1.8-M	KD1.8-L6-M			고속: 10m/min	고속: 24m/min (INVERTER 2~24m/min)	6	모터구동식	
	KD1.8-L9-M					9		
	KD1.8-L12-M					12		
	KD1.8-L18-M					18		
	KD1.8-L18-M-H			저속: 16m/min (INVERTER 2~16m/min)	24			
	KD1.8-L24-M							
	KD1.8-L24-M-H							
	KD1.8-L30-M							
	KD1.8-L30-M-H					30		



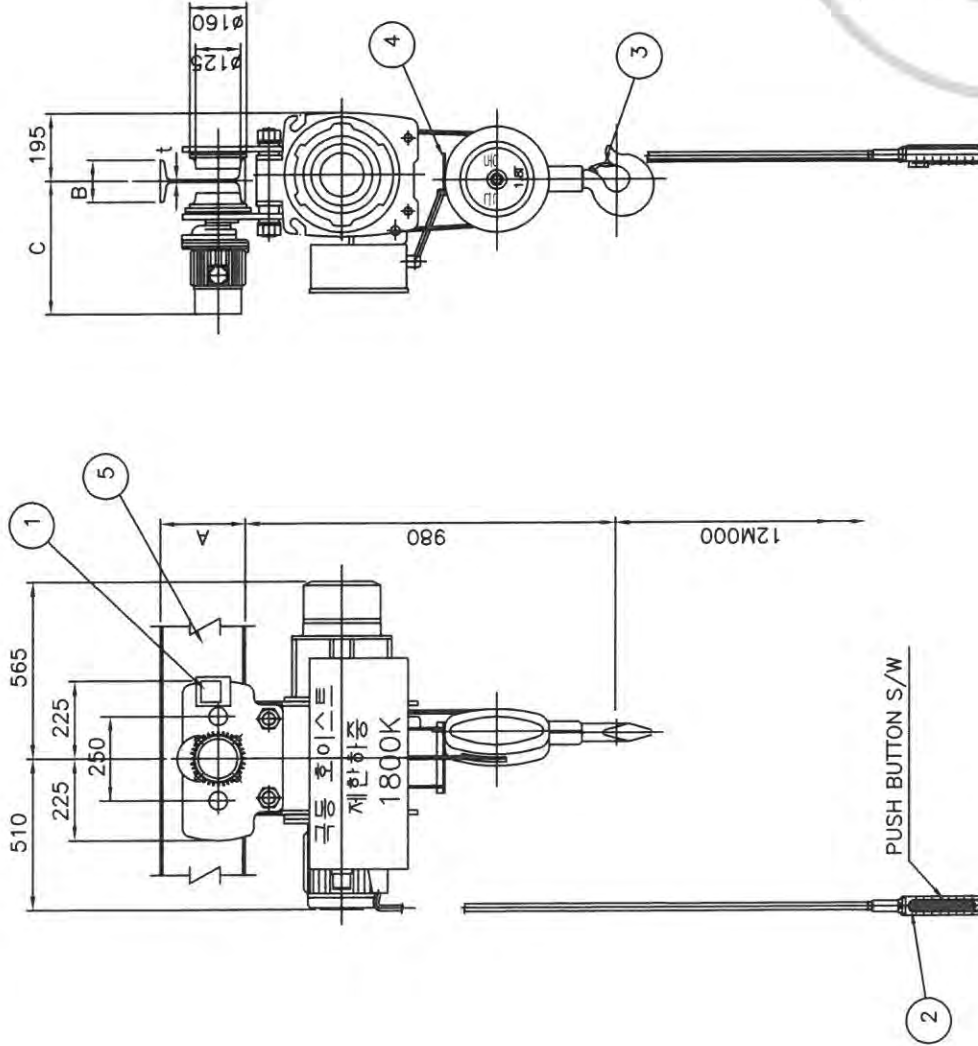


5	I-BEAM	SS400	—				TABLE 참조
4	UPPER LIMIT S/W	SS400	1				
3	SAFETY LATCH	SPC	1				
2	EMERGENCY S/W	—	1				
1	LOAD LIMITER	—	1				
NO.	DESCRIPTIONS	M'TL	SET/SET QTY	UNIT	TOTAL WEIGHT KG.		REMARKS
PROJECT		DATE					
TITLE		KD1.8 - L6 - M					
DRAWN		DESIGNED	CHECKED	APPROVED	SCALE		
					A3/20 /		
					REF DRAWING		
					DRAWING NO.		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.			KD18M6000		



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.	DESCRIPTIONS	MTL	SET/SET QTY	UNIT	TOTAL WEIGHT KG.			REAMERKS	
PROJECT						DATE			
TITLE		KD1.8 — L9 — M				SCALE			
						A3/20 /			
DRAWN	DESIGNED	CHECKED	APPROVED			REF DRAWING			
 KDK 동호이스트 주식회사 KUK DONG HOIST CO., LTD.		DRAWING NO.		DRAWING NO.					
				KD18M9000					

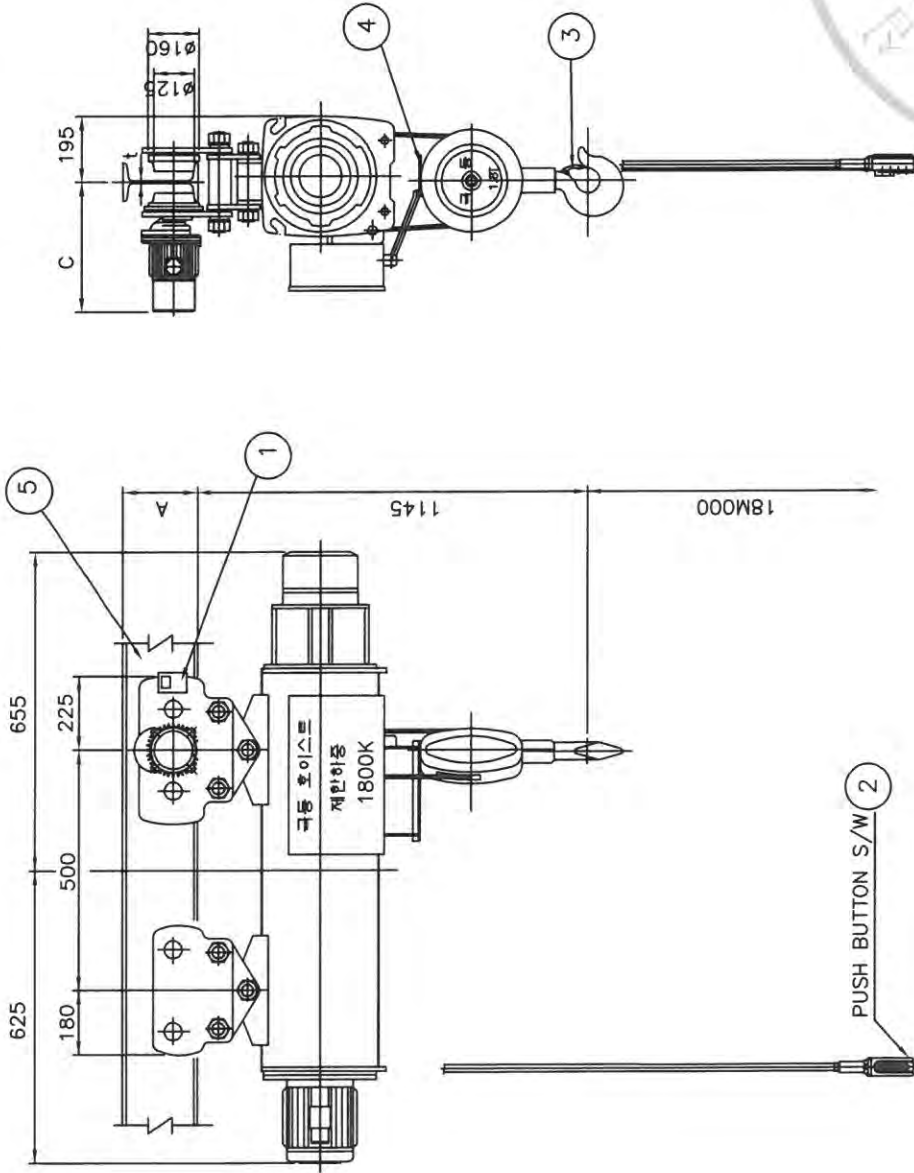
TRAVERSING I – BEAM	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 250 x 125 x 7.5	5180	415	MAX 4.7M	465
I 300 x 150 x 10	12700	849	MAX 7.5M	475
I 350 x 150 x 9	15200	871	MAX 8.0M	475
I 400 x 150 x 10	24100	1200	MAX 9.4M	475
I 450 x 175 x 11	39200	1740	MAX 11.9M	485



SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		12	
HOISTING	SPEED	10 M/MIN	
	MOTOR	3.7 KW x 4P	
	SPEED	5 M/MIN	
	MOTOR	1.8 KW x 8P	
TRAVERS -ING	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)	
	MOTOR	0.75 KW x 4 P	
	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)	
	MOTOR	0.5 KW x 6 P	
TRAVERS -ING	SPEED	24/12 M/MIN	
	MOTOR	0.8/0.4 KW x 4/8 P	
	SPEED	16/8 M/MIN	
	MOTOR	0.5/0.25 KW x 6/12 P	
WIRE ROPE		(6x36) ϕ 10 x 2 FALLS	
POWER SOURCE		AC3 ϕ 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		314 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.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	TOTAL	REMARKS
PROJECT				DATE		
TITLE				SCALE		
KD1.8 - L12 - M				A3/20	/	
DRAWN	DESIGNED	CHECKED	APPROVED	REF	DRAWING	
극동호이스트 주식회사				SHEET NO.	DRAWING NO.	
KUK DONG HOIST CO., LTD.						KD18M1200

TRAVERSING I - BEAM	Ix (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 250 x 125 x 7.5	5180	415	MAX 4.7M	465
I 300 x 150 x 10	12700	849	MAX 7.5M	475
I 350 x 150 x 9	15200	871	MAX 8.0M	475
I 400 x 150 x 10	24100	1200	MAX 9.4M	475
I 450 x 175 x 11	39200	1740	MAX 11.9M	485



SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		18	
HOISTING	SPEED	10 M/MIN	
	MOTOR	3.7 KW x 4P	
	SPEED	5 M/MIN	
	MOTOR	1.8 KW x 8P	
TRAVERSING	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)	
	MOTOR	0.75 KW x 4 P	
	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)	
	MOTOR	0.5 KW x 6 P	
	DUAL SPEED	24/12 M/MIN	
	HIGH MOTOR	0.8/0.4 KW x 4/8 P	
WIRE ROPE	DUAL SPEED	16/8 M/MIN	
	LOW MOTOR	0.5/0.25 KW x 6/12 P	
	(6x36) ϕ 10 x 2 FALLS		
POWER SOURCE		AC3 ϕ 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		410 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.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	REMARKS
PROJECT					
TITLE					
KD18-L18-M					
DRAWN					
DESIGNED					
CHECKED					
APPROVED					
REF DRAWING					
DATE					
19					
SCALE					
A3/20 /					
SHEET NO.					
DRAWING NO.					
극동호이스트 주식회사					
KUK DONG HOIST CO., LTD.					
KD18M1800					

TRAVERSING I - BEAM	Ix (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 250 x 125 x 7.5	5180	415	MAX 4.7M	465
I 300 x 150 x 10	12700	849	MAX 7.5M	475
I 350 x 150 x 9	15200	871	MAX 8.0M	475
I 400 x 150 x 10	24100	1200	MAX 9.4M	475
I 450 x 175 x 11	39200	1740	MAX 11.9M	485

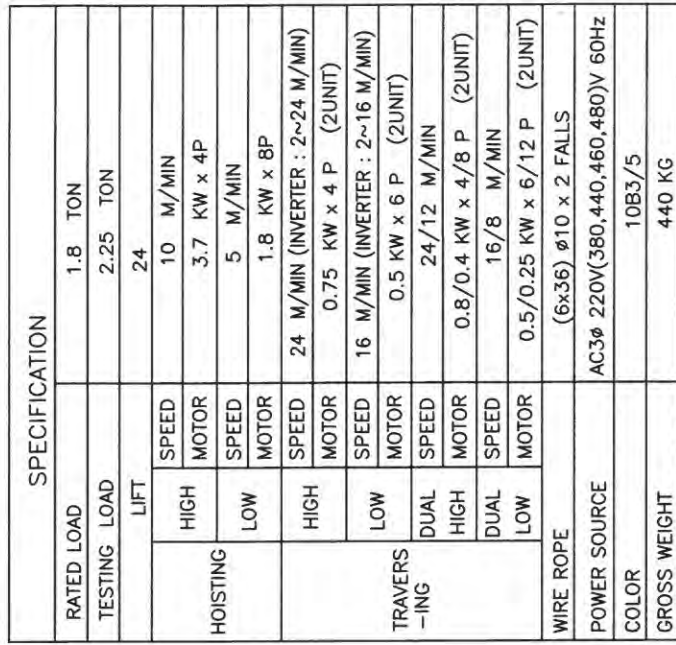




No.	DESCRIPTIONS	M ^T L	SET QTY	SET	UNIT	TOTAL WEIGHT KG.	REMARKS
5	I-BEAM	SS400	—				TABLE 참조
4	UPPER LIMIT S/W	SS400	1				
3	SAFETY LATCH	SPC	1				
2	EMERGENCY S/W	—	1				
1	LOAD LIMITER	—	1				

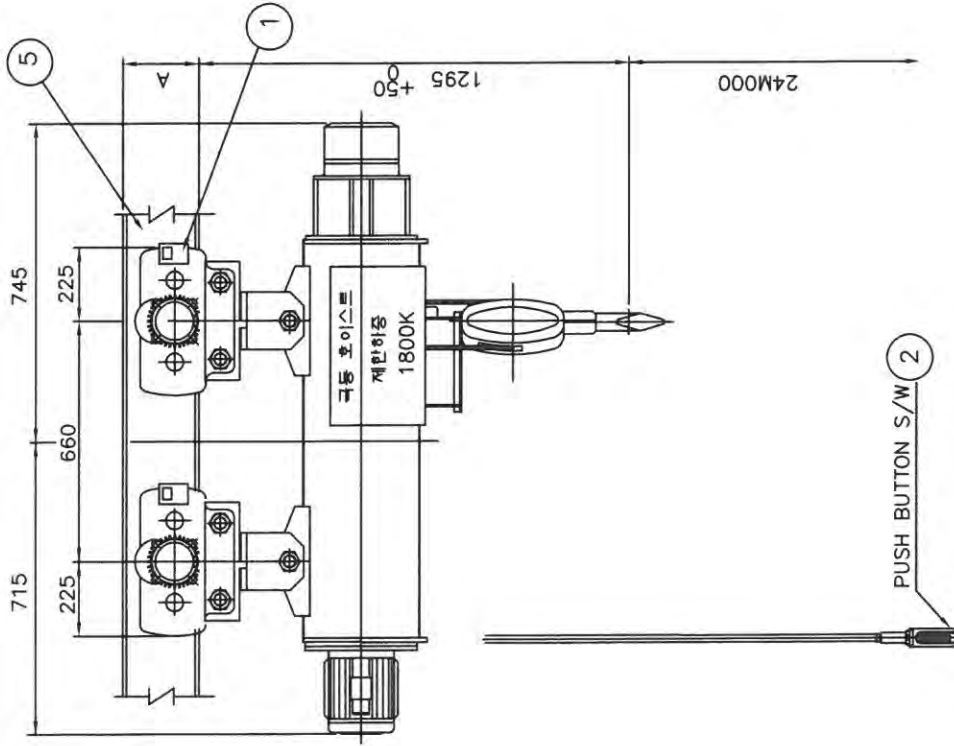
TRAVERSING	I – BEAM		I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
	A x B	x t				
I	250 x 125	x 7.5	5180	415	MAX 4.7M	465
I	300 x 150	x 10	12700	849	MAX 7.5M	475
I	350 x 150	x 9	15200	871	MAX 8.0M	475
I	400 x 150	x 10	24100	1200	MAX 9.4M	475
I	450 x 175	x 11	39200	1740	MAX 11.9M	485

PROJECT	KD1.8-L18-M-H				DATE	
					19 . . .	
TITLE	KD1.8-L18-M-H				SCALE	
					A3 / 20 /	
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET NO.		DRAWING NO.	
					KD18M1800H	



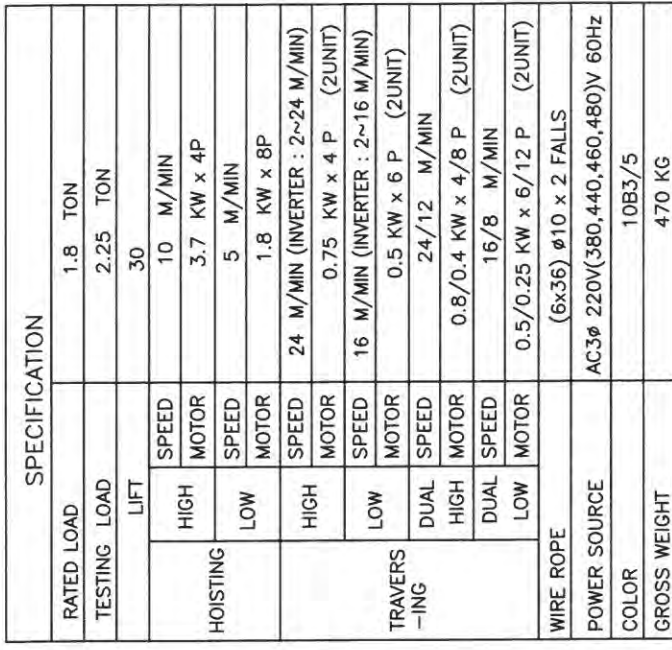
5	I-BEAM	SS400	—				TABLE	참조
4	UPPER LIMIT S/W	SS400	1					
3	SAFETY LATCH	SPC	1					
2	EMERGENCY S/W	—	1					
1	LOAD LIMITER	—	1					
NO.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	TOTAL WEIGHT KG.		REMARKS	
PROJECT						DATE		
						20 . . .		
TITLE		KD1.8 - L24 - M				SCALE		
						A3/20 /		
DRAWN	DESIGNED	CHECKED	APPROVED			REF. DRAWING		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			SHEET NO.		DRAWING NO.			
					KD18M2400			

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	465
I	300	x 150 x 10	12700	849	MAX 7.5M	475
I	350	x 150 x 9	15200	871	MAX 8.0M	475
I	400	x 150 x 10	24100	1200	MAX 9.4M	475
I	450	x 175 x 11	39200	1740	MAX 11.9M	485



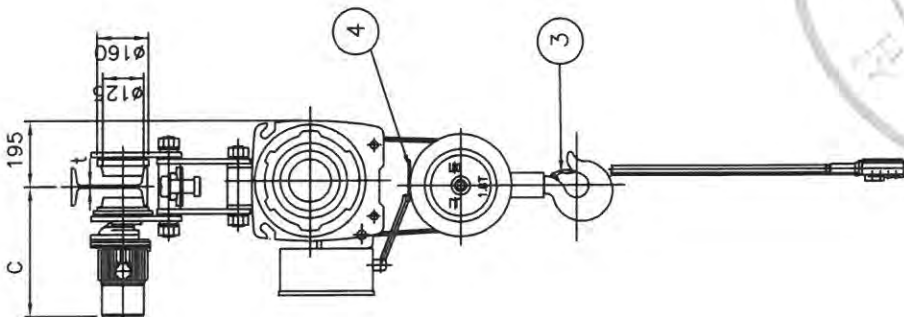
SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		24	
HOISTING	HIGH	SPEED	10 M/MIN
	LOW	MOTOR	3.7 KW x 4P
		SPEED	5 M/MIN
		MOTOR	1.8 KW x 8P
TRAVERSING	HIGH	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)
	LOW	MOTOR	0.75 KW x 4 P (2UNIT)
		SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)
		MOTOR	0.5 KW x 6 P (2UNIT)
TRAVERSING	DUAL	SPEED	24/12 M/MIN
	HIGH	MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)
	DUAL	SPEED	16/8 M/MIN
	LOW	MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)
WIRE ROPE		(6x36) ø10 x 2 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		445 KG	

5	I-BEAM	SS400		—				TABLE	형조
4	UPPER LIMIT S/W	SS400		1					
3	SAFETY LATCH	SPC		1					
2	EMERGENCY S/W	—		1					
1	LOAD LIMITER	—		1					
NO.	DESCRIPTIONS	MTL	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS			
PROJECT						DATE			
						20 . . .			
TITLE		KD1.8 - L24 - M - H				SCALE			
						A3/20 /			
DRAWN	DESIGNED	CHECKED	APPROVED			REF DRAWING			
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.		KD18M2400H			



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.	DESCRIPTIONS	MTL	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS			
PROJECT		DATE							
TITLE		SCALE							
		A3/20 /							
DRAWN		DESIGNED	CHECKED	APPROVED	REF DRAWING				
							DRAWING NO.		
		SHEET NO.					DRAWING NO.		
 KUK DONG HOIST CO., LTD.		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.							
		KD18M3000							

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	465
I	300 x 150 x 10	12700	849	MAX 7.5M	475
I	350 x 150 x 9	15200	871	MAX 8.0M	475
I	400 x 150 x 10	24100	1200	MAX 9.4M	475
I	450 x 175 x 11	39200	1740	MAX 11.9M	485



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.	DESCRIPTIONS	MT'L	SET QTY	SET	UNIT WEIGHT KG.	TOTAL	REMARKS
PROJECT		DATE					
TITLE		KD1.8 - L30 - M - H					
DRAWN		ARRANGEMENT DRAWING FOR HOIST					
		DESIGNED	CHECKED	APPROVED		REF DRAWING	
		DRAWING NO.					
 KDK 동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		KD18M3000H			

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	465
I	300 x 150 x 10	12700	849	MAX 7.5M	475
I	350 x 150 x 9	15200	871	MAX 8.0M	475
I	400 x 150 x 10	24100	1200	MAX 9.4M	475
I	450 x 175 x 11	39200	1740	MAX 11.9M	485

ELECTRICAL SPECIFICATION

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

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

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440,460,480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	3.7KW x 4P	16.00 A	4.0 sq	9.30 A	4.0 sq	8.0 A	7.7 A	7.3 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	1.8KW x 8P	11.00 A	4.0 sq	6.40 A	4.0 sq	5.5 A	5.3 A	5.1 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	2.5 sq	2.40 A	2.5 sq	2.00 A	2.00 A	1.90 A	2.5 sq	DC MAG. BRAKE	1 DRIVE
	LOW	3.40 A	2.5 sq	2.00 A	2.5 sq	1.70 A	1.70 A	1.60 A	2.5 sq	DC MAG. BRAKE	1 DRIVE
	DUAL HIGH	4.80 A	2.5 sq	2.78 A	2.5 sq	2.40 A	2.30 A	2.30 A	2.5 sq	DC MAG. BRAKE	1 DRIVE
	DUAL LOW	3.20 A	2.5 sq	1.85 A	2.5 sq	1.80 A	1.78 A	1.76 A	2.5 sq	DC MAG. BRAKE	1 DRIVE
CONTROL CIRCUIT		1.0 A	1.5 sq	0.5 A	1.5 sq	0.5 A	1.5 A	0.5 A	1.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL		21.80 A	6.0 sq	12.58 A	4.0 sq	10.90 A	11.50 A	10.10 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	

※ 6, 9, 12, 18M

※ SUB TOTAL은 TRAVERSING MOTOR 중 전류값이 가장 높은 DUAL HIGH의 고속 전류값을 적용하여 계산함

ELECTRICAL SPECIFICATION

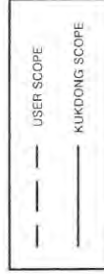
. POWER SOURCE : AC 3Φ 220V, 380V, 440V, 460V, 480V 60Hz

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

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440/460/480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	3.7KW x 4P	16.00 A	4.0 sq	9.30 A	4.0 sq	8.0 A	7.7 A	7.3 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	1.8KW x 8P	11.00 A	4.0 sq	6.40 A	4.0 sq	5.5 A	5.3 A	5.1 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	2.5 sq	2.40 A	2.5 sq	2.00 A	2.00 A	1.90 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
	LOW	3.40 A	2.5 sq	2.00 A	2.5 sq	1.70 A	1.70 A	1.60 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
	DUAL HIGH	4.80 A	2.5 sq	2.78 A	2.5 sq	2.40 A	2.30 A	2.30 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
	DUAL LOW	3.20 A	2.5 sq	1.85 A	2.5 sq	1.80 A	1.78 A	1.76 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
CONTROL CIRCUIT		1.0 A	1.5 sq	0.5 A	1.5 sq	0.5 A	1.5 A	0.5 A	1.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL		26.60 A	6.0 sq	15.36 A	4.0 sq	13.30 A	13.80 A	12.40 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	

※ 24, 30M

※ SUB TOTAL은 TRAVERSING MOTOR 중 전류값이 가장 높은 DUAL HIGH의 고속 전류값을 적용하여 계산함



HOISTING

NO.	DATE	REVISIONS	CHK.	APP.	CUSTOMER	DRAWING TITLE	DRAWING					SCALE	DATE	ORDER NO.
							DRAWING	DESIGN	CHECKED	APPROVED				
1					극동호이스트 주식회사 KID HOIST CO., LTD.	EARTH DETAILS DRAWING					NONE			KD18-EC000
2														
3														
4														

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	VCT 4SQ x 1C (220V : 4SQ x 1C)
6	HOISTING MOTOR WITH EARTH	VCT 4.0SQ x 1C
8	TRAVERSING MOTOR WITH EARTH	VCT 2.5SQ x 1C

* CV CABLE 4C중 1C는 EARTH로 사용함.

-NOTE-

접지

1. 전기장치 외함접지는 접지단자를 이용하여 설치해야 하며

1) 400볼트 미만일 때 100오옴 이하일 것

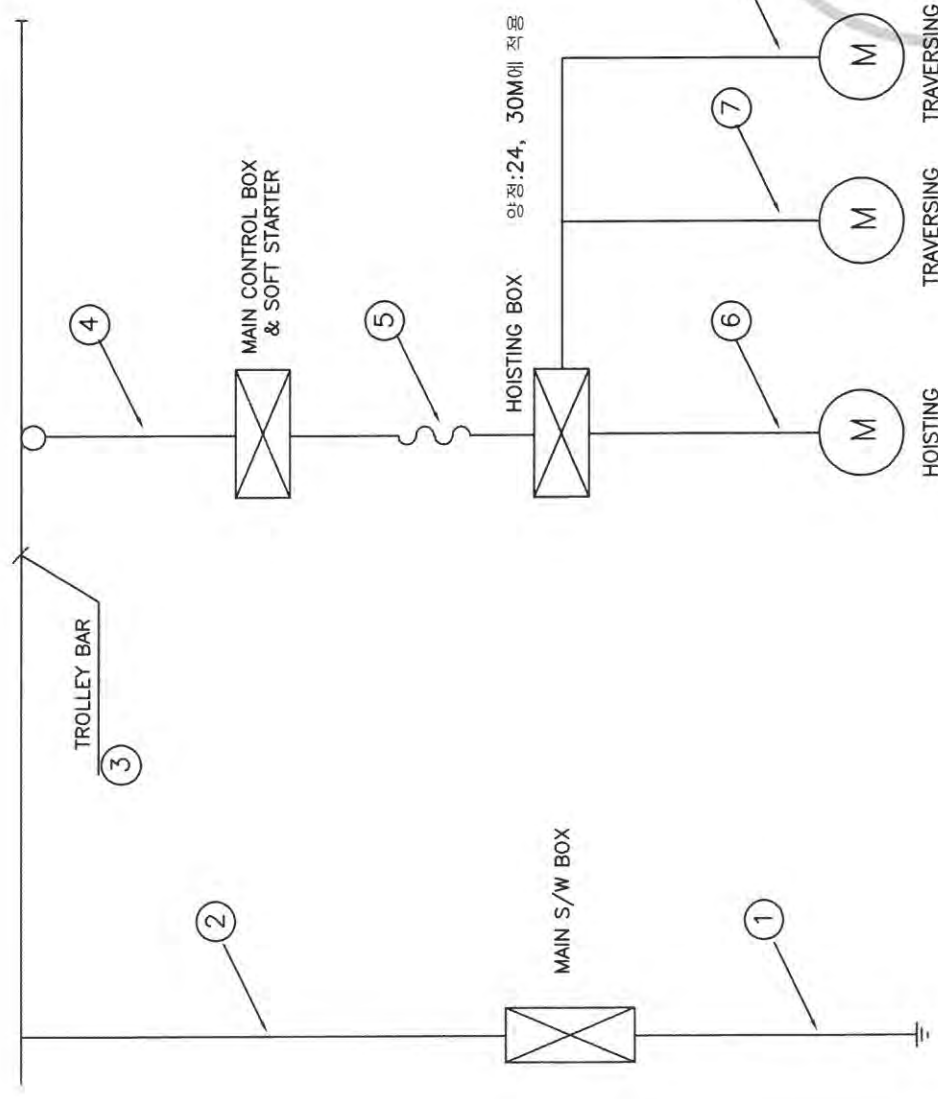
2) 400볼트 이상일 때 10오옴 이하일 것

2. 접지단자에는 다음중 하나의 방법으로 표기

1) 기호로 표현하는 경우: ㉔

2) 문자로 표기하는 경우:PE

3) 녹색 또는 녹색 및 황색 조합 접지선



---	USER SCOPE
---	KUKDONG SCOPE

동전위접지

1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야함.

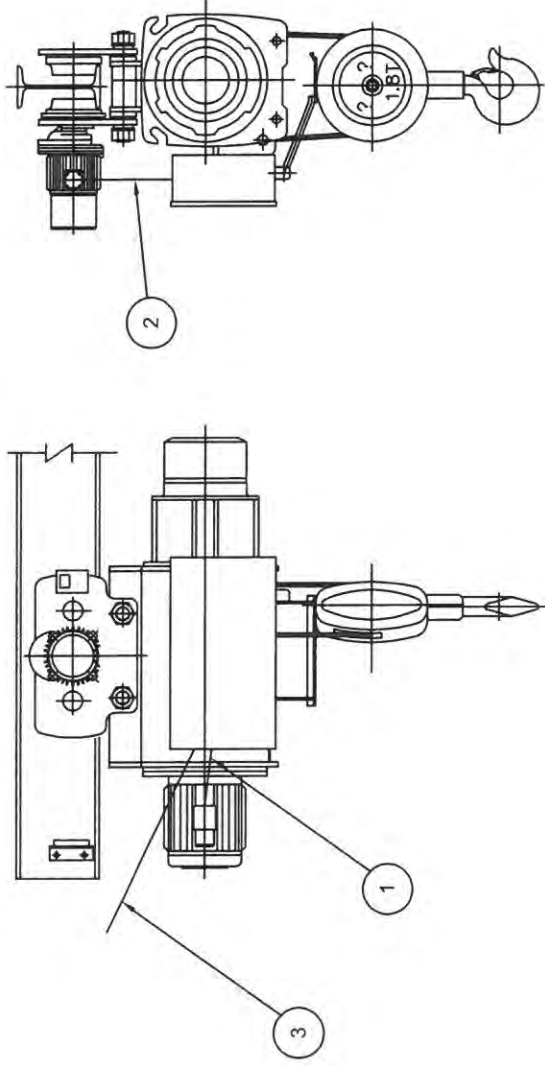
2. 보호본딩회로에는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

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

MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER	DRAWING TITLE	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
						EARTH DETAILS DRAWING					NONE		
KUKDONG HOIST CO. LTD.													KD18-EC001

법률 제 및 배포 금지

* MAIN POWER : AC 3PH 220V, 380V, 440V, 460V, 480 60Hz (LIFT 6, 9, 12, 18M)



—NOTE—

접지

1. 전7장치 외합접지는 접지단자를 이용하여 설치해야 하며

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

2. 정지|단자|에는 하나|의 코어|이 부착|되어| 있다.

- 1) 기호로 표현하는 경우: $\oplus$
- 2) 문자로 표기하는 경우: PE
- 3) 녹색 또는 노랑색 조합 표시

전원접지

1. 전7장비와 기계의 노후를 막기 위하여 파진 도로면과 화폐교환기에 대하여 하마

적절한 접지연속성 기법이 유지되어야 함.

2. 보호본딩회로는 게폐기, 과전류보호장치가 부착되지 않아야 한다.

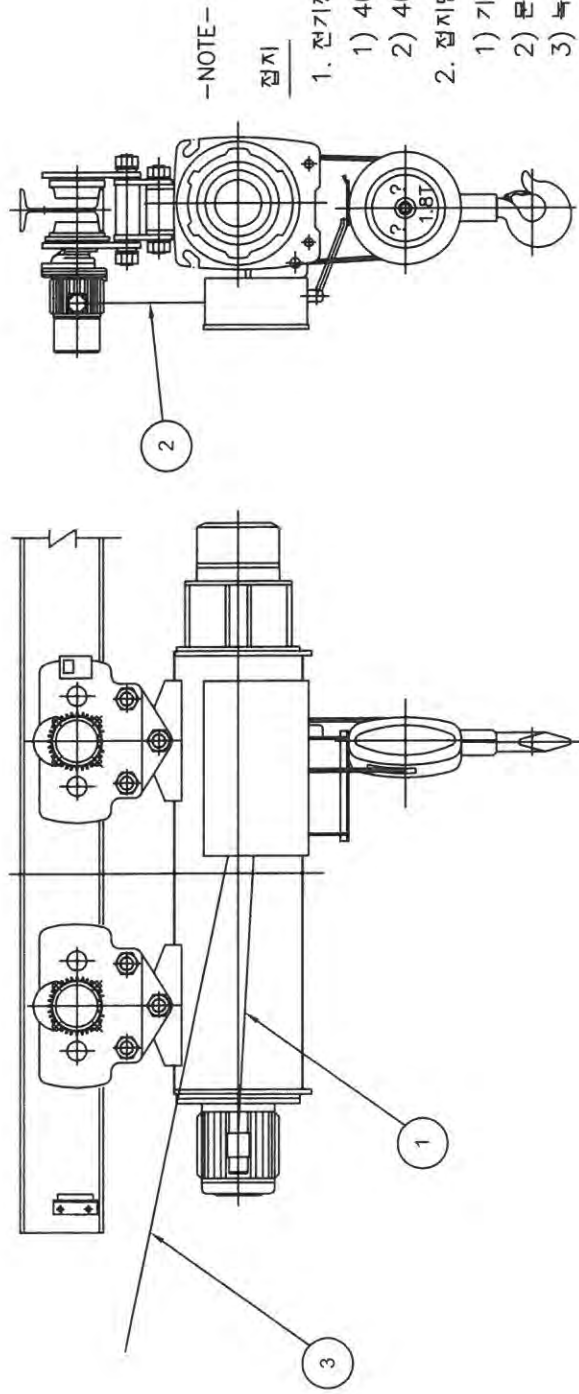
NO	CABLE					REMARK
	TYPE	SIZE				
		220V	380V	TYPE		
		4.0sq	4.0sq	VCT	440V,460V,480V	
1	VCT	4.0sq	4.0sq	VCT	4.0sq	HOISTING MOTOR WITH EARTH
2	VCT	2.5sq	2.5sq	VCT	2.5sq	T/S MOTOR WITH EARTH
3	VFCT	6.0sq	4.0sq	VFCT	4.0sq	MAIN POWER WITH EARTH

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

[illegible]

법률 제 및 배포금지

* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz (LIFT 24,30M)



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

NO	CABLE					REMARK
	TYPE	SIZE				
		220V	380V	TYPE		
		220V	380V	TYPE	440V,460V,480V	
1	VCT	4.0sq	4.0sq	VCT	4.0sq	HOISTING MOTOR WITH EARTH
2	VCT	2.5sq	2.5sq	VCT	2.5sq	T/S MOTOR WITH EARTH
3	VFCT	6.0sq	4.0sq	VFCT	4.0sq	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

등전위접지

1. 전기장비와 기계의 노출된 모든 부분 보호본딩회로에 연결되어야 하며

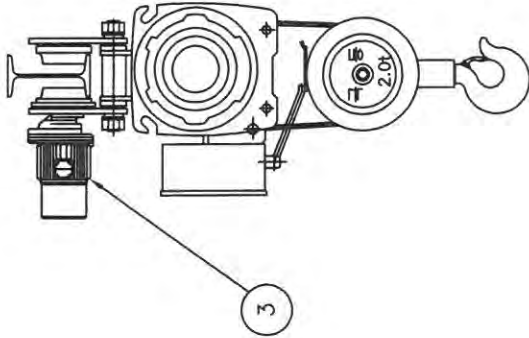
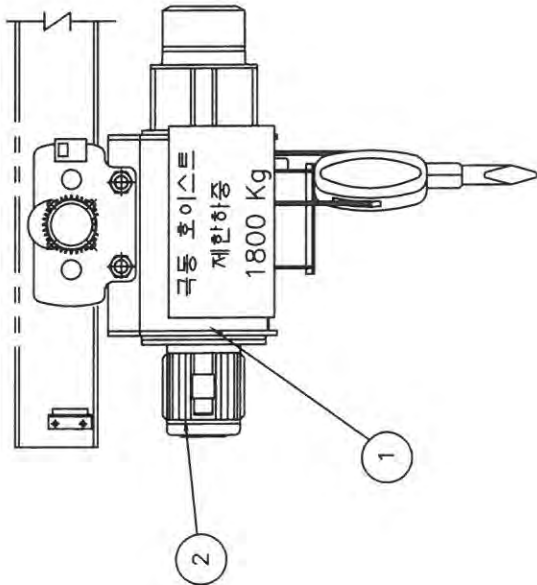
적절한 접지연속성 기능이 유지되어야 함.

2. 보호본딩회로는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

[illegible]

불법복제 및 배포금지

* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz



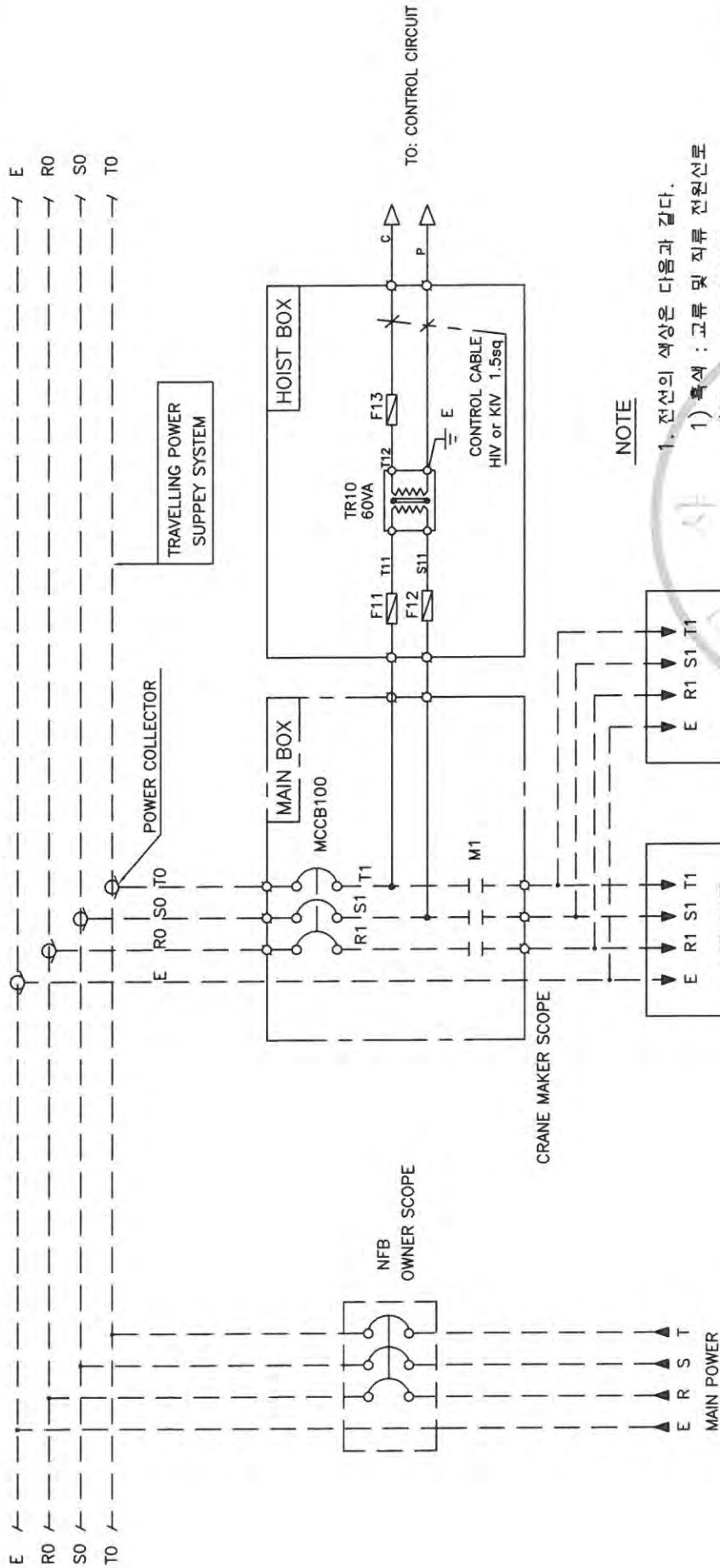
ELECTRIC WIRE ROPE HOIST														
														
MODEL	RATING		min											
CAPACITY	Kg	LIFT	m											
HOIST SPEED	m/min	POWER SOURCE	V	Hz										
HOIST MOTOR	Kw	P	AMP.S	R&T	HOIST	A								
TRAV.SPEED	m/min	AMP.S	R&T	TRAV.	A									
TRAV.MOTOR	Kw	P	WIRE ROPE	Ø										
WIDTH OF RAIL	mm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

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	
KUKDONG HOIST CO.,LTD			

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							
KUKDONG HOIST CO.,LTD									

CUSTOMER		DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
DRAWING TITLE		WIRE HOIST NAMEPLATE								NONE					
REVISIONS		CHK.		APP.											
DATE															
MK															
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.										DWG. NO		KD18E601			

20	ADR'S NO.	A1
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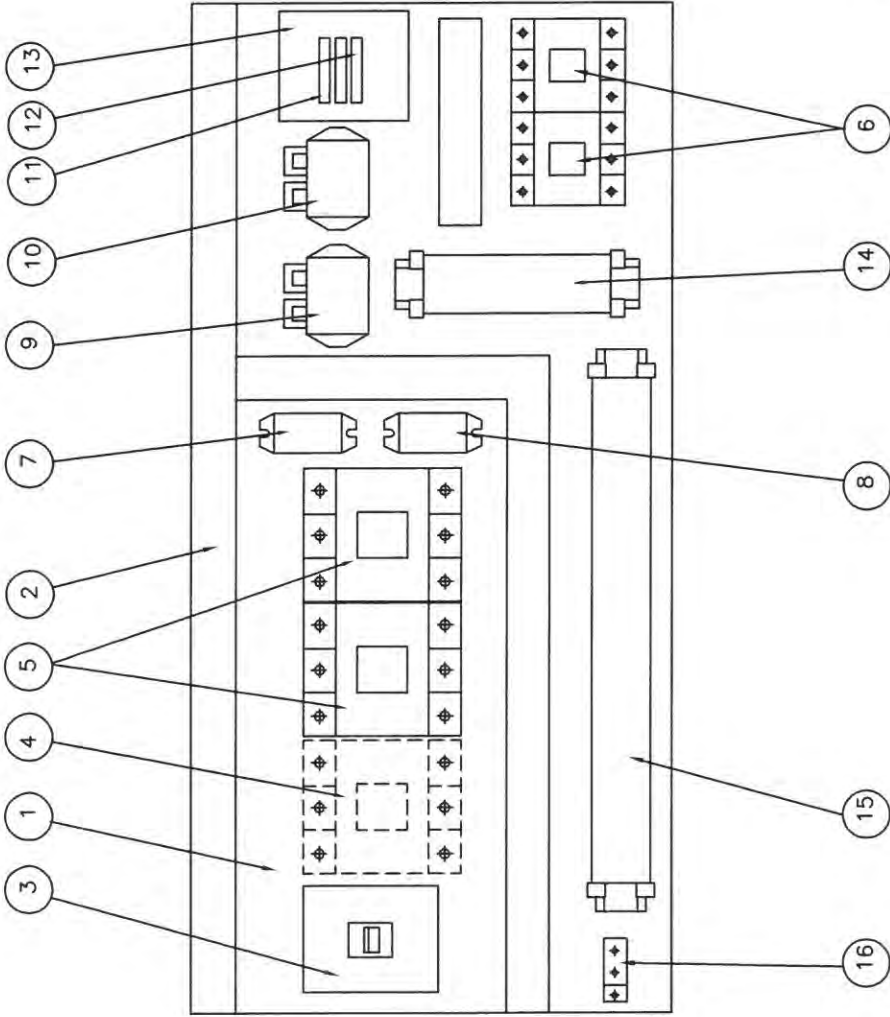
NOTE

1. 전선의 색상은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전원선로
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
 - 5) 청색 : 직류 제어선로
 2. 제어용 전선 : 1.5mm KIV,HIV
 3. 제자시 다소 변경 될수있음.
 4. 외함 개방구조는 다음과 같을것.
- 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

SELECTION	VOLTAGE	F11 F12	F13	MCCB100
	220V	2A	3A	30AF/30AT
	380V	1A	3A	30AF/15AT
	440V	1A	3A	30AF/15AT
	460V	1A	3A	30AF/15AT
	480V	1A	3A	30AF/15AT

MARKED OWNER SCOPE

☒					CUSTOMER	MAIN POWER CIRCUIT 1 DIAGRAM	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.	
☒					DRAWING TITLE						NONE			
☒							 극동호이스트 주식회사 KIUK DONG HOIST CO., LTD.						KD02E001	
☒														
MK	DATE	REVISIONS	CHK.	APP.										



NOTE

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

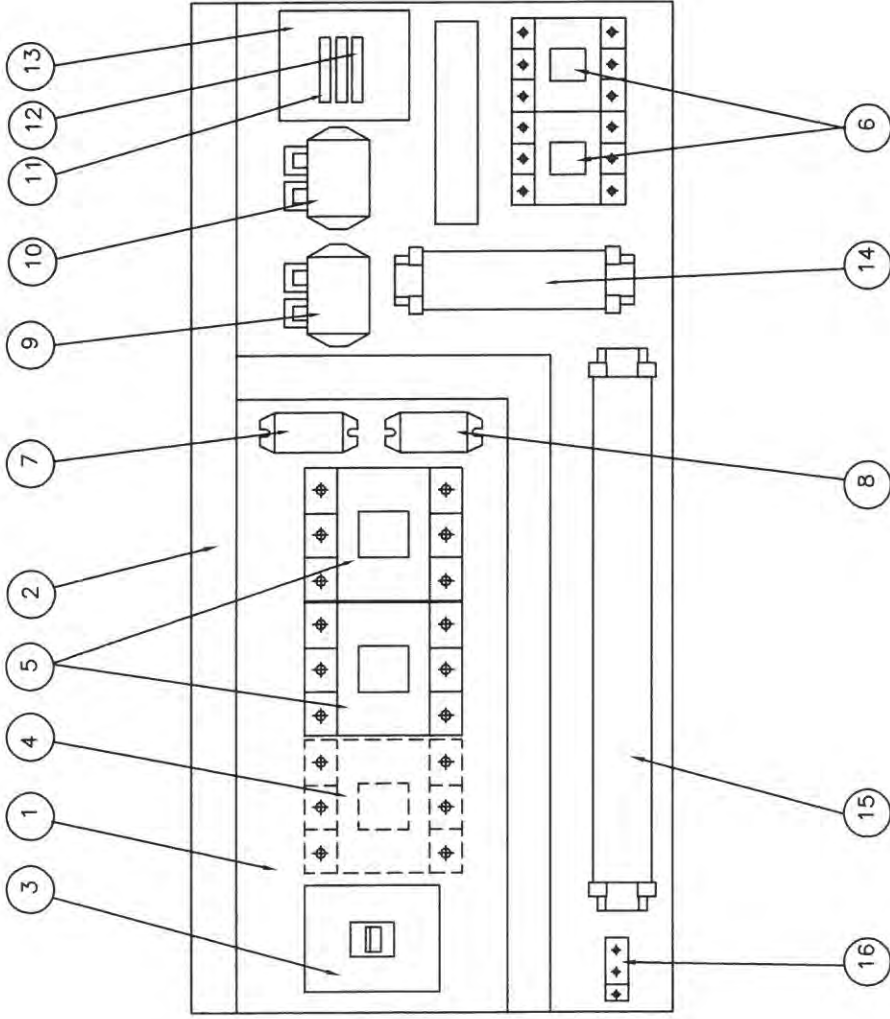


NOTE

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

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110,120V/100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOIST CONTROL BOX (고속)					NONE		
ARRANGEMENT DRAWING		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.			DWG. NO	KD18BA21	
MK	DATE	REVISIONS	CHK.	APP.			



NOTE

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

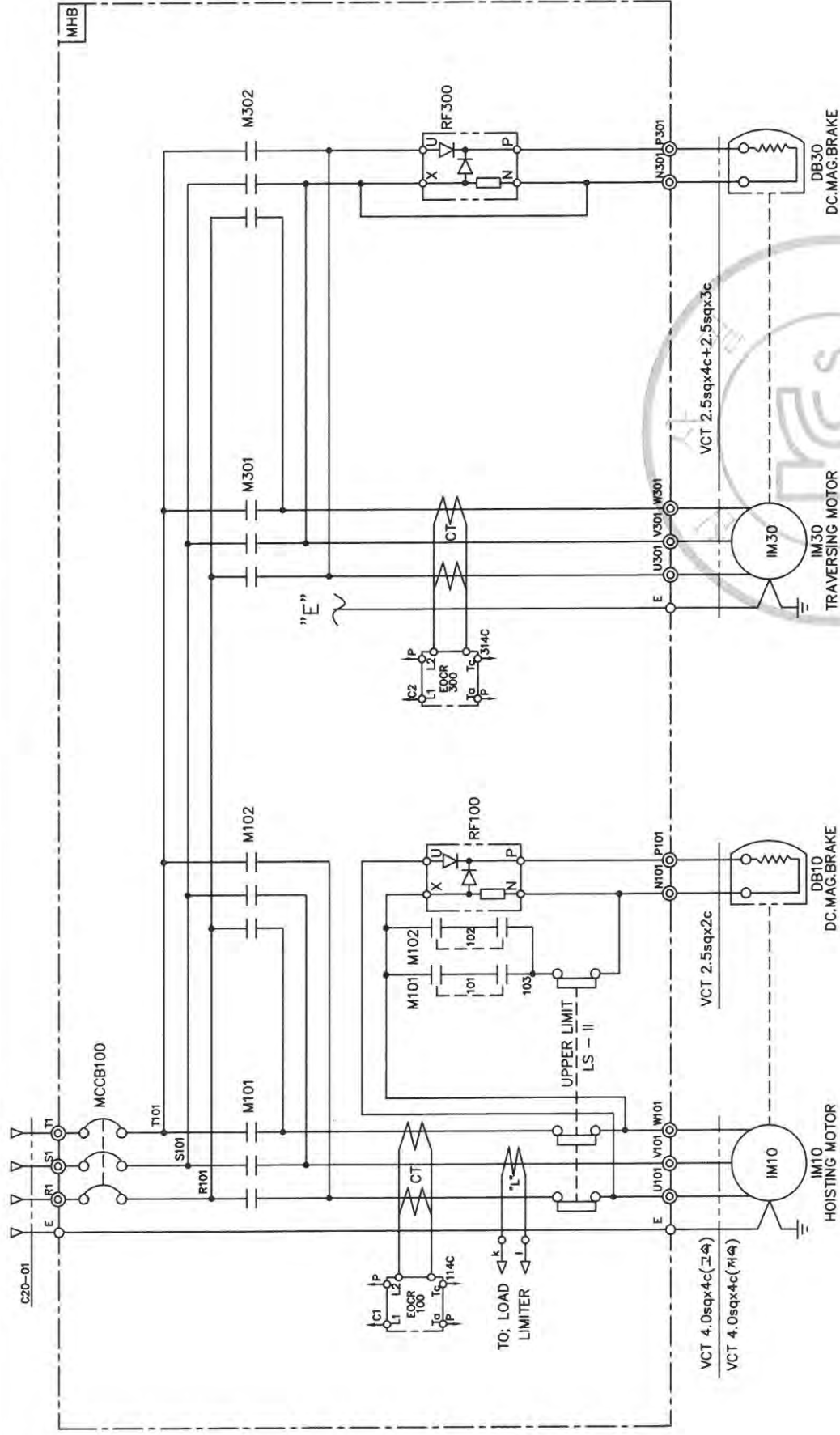
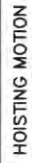


NOTE 1 전서의 생상과 다양과 같다

- 1) 폭색 : 교류 및 직류 전원선로
 - 2) 적색 : 교류제어회로
 - 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼합 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
- MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV,HIV
 4. 제지식 다소 변경 될수있음.
 5. 외함 개발구조는 다음과 같음.
- 1) 외함 개발시 중전부분이 차단되도록 할것.
 - 2) 외함 개발후 증진되어있는 부분은 IP2X 이상의 차단

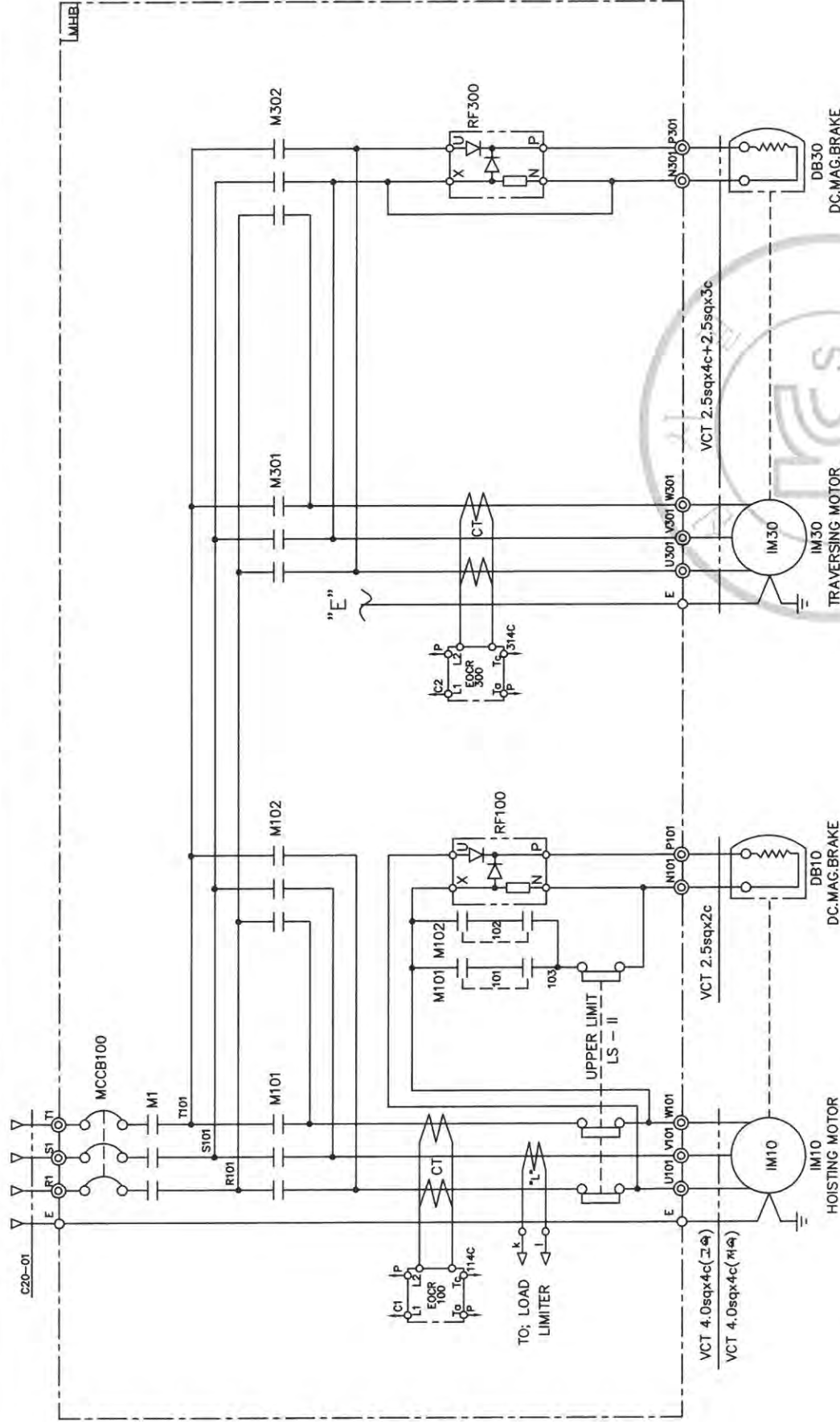
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 쿨
2	CABLE DUCT	-	1	
3	N.F.B	30AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	220V/110,120V/ 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

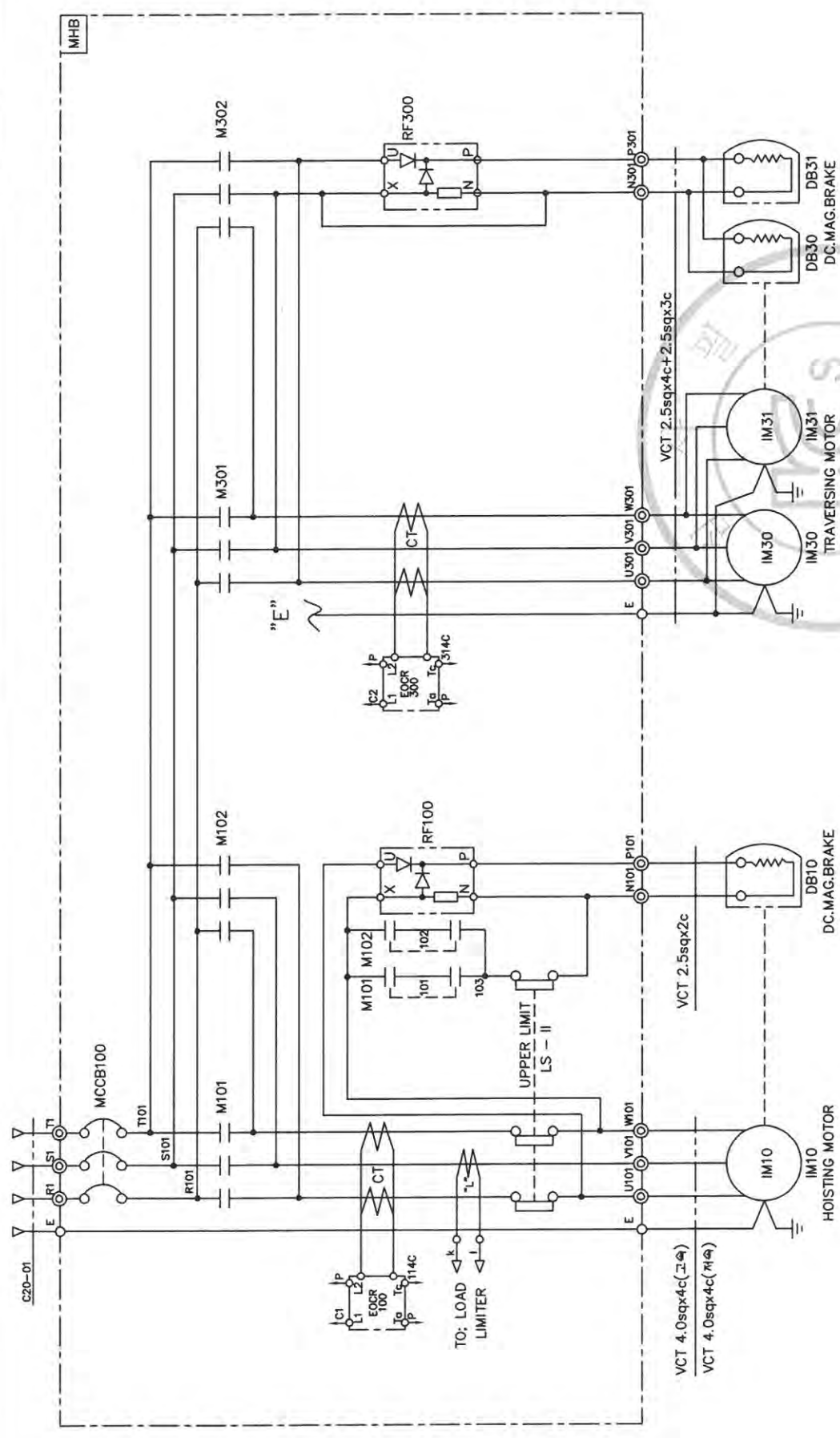
[illegible]

[illegible]

HOISTING MOTION

TRAVERSING MOTION

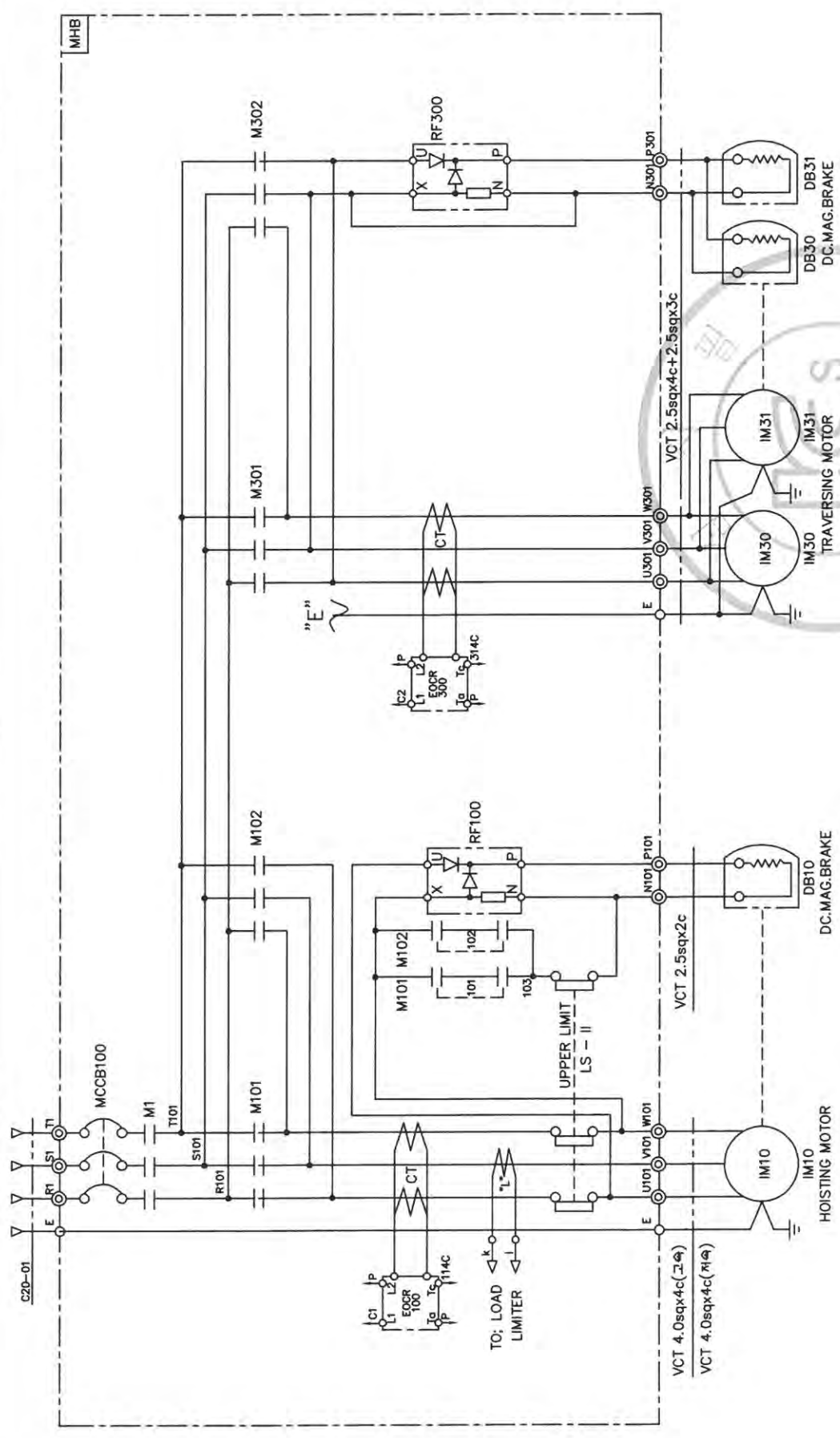
[illegible]

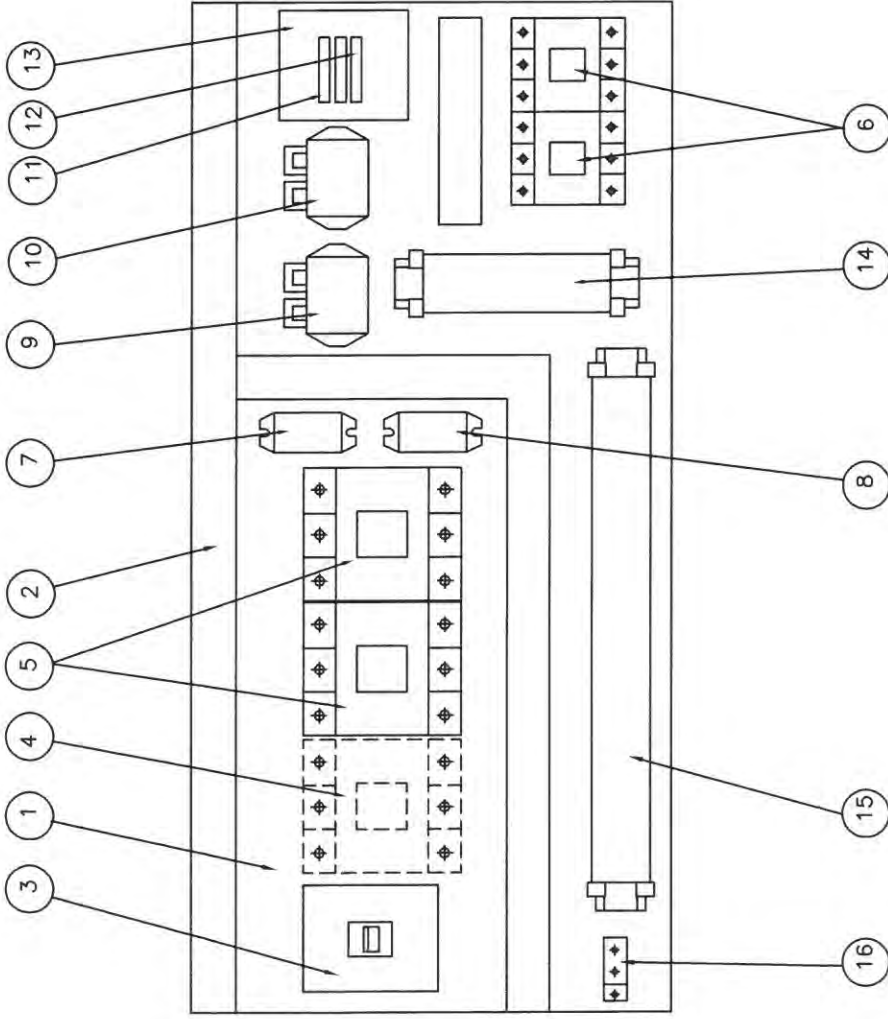


SPECIFICATION SYMBOLS DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
1.8TON AC 3PH 220V 60Hz	HOIST	IM 10	IM 30,31	MCCB100	TR 1	F1,F2	M101,M102	LS-I, LS-II	EOCR100	RF100	LOAD LIMITER	C20-01
3.7KW x 4P		0.75KW x 4P		ABE-33AF/30AT	220/110,120V/100VA	2A	DMC40C	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 6sqx4c
1.8TON AC 3PH 220V 60Hz		1.8KW x 8P	0.5KW x 6P	ABE-33AF/20AT	220/110,120V/60VA	1A	DMC22C	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 6sqx4c
SELECTION MAKER												
KUKDONG				LS	SHINHAN	-	DONG-A	KUKDONG	ASECO	JUNGHO	DONGIL	
CUSTOMER												
DRAWING TITLE												
REVISIONS												
DATE												
MK												
HOISTING POWER & CONTROL CIRCUIT										DWG. NO		
DIAGRAM										KD18E23		
KUKDONG HOIST CO., LTD.										ORDER NO.		
KUKDONG HOIST CO., LTD.										DATE		
KUKDONG HOIST CO., LTD.										SCALE		
KUKDONG HOIST CO., LTD.										NONE		
KUKDONG HOIST CO., LTD.										APPROVED		
KUKDONG HOIST CO., LTD.										CHECKED		
KUKDONG HOIST CO., LTD.										DESIGN		
KUKDONG HOIST CO., LTD.										KUKDONG		
KUKDONG HOIST CO., LTD.										ASECO		
KUKDONG HOIST CO., LTD.										JUNGHO		
KUKDONG HOIST CO., LTD.										DONGIL		

HOISTING MOTION

TRAVERSING MOTION

[illegible]

[illegible]

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 전원선로
- 2) 적색 : 교류 제어선로
- 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어선로
- 4) 녹색 또는 녹색과 황색 혼용 : 접지선

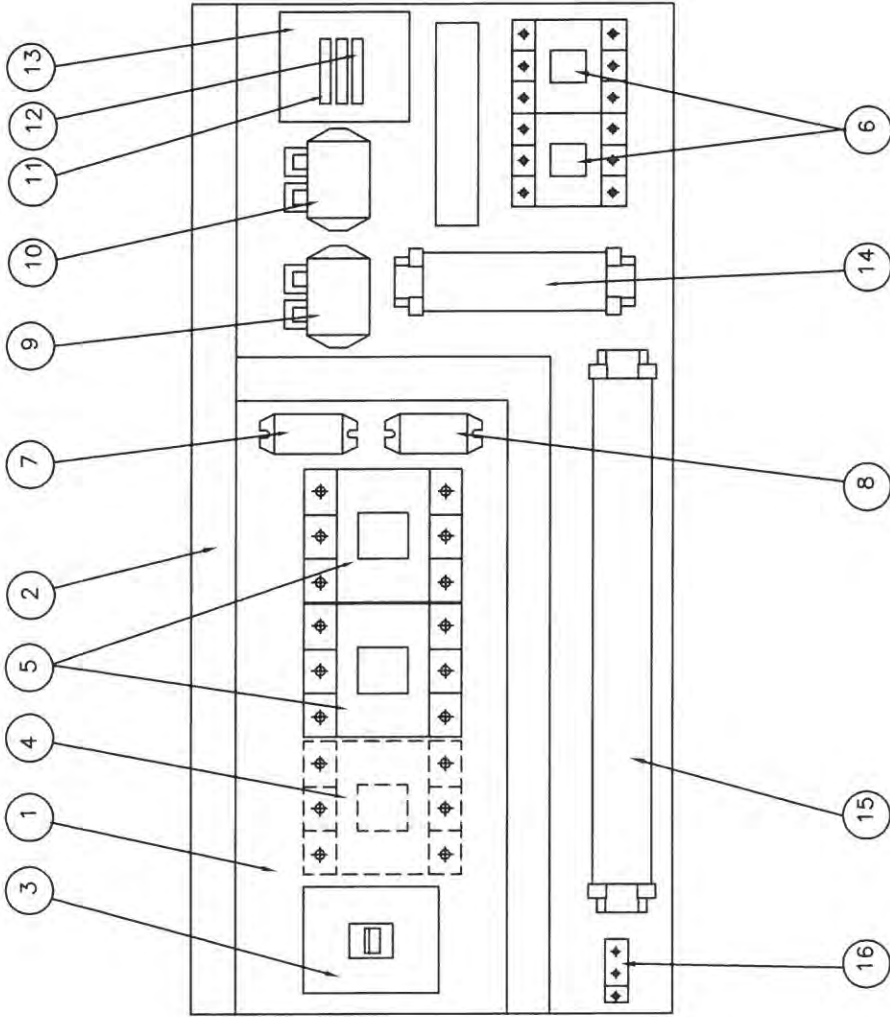
2. CABLE MATERIAL : KIV OR EQUIVALENT
 └ MIN SIZE : 1.5sq

3. 제어용 전선 : 1.5mm KIV,HIV
4. 재차시 디소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.

- 1) 외함 개방시 충전부분이 차단되도록 할것.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 차단 접촉 보호가 되어있을것.

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

[illegible]



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



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	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	380V/110,120V/ 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

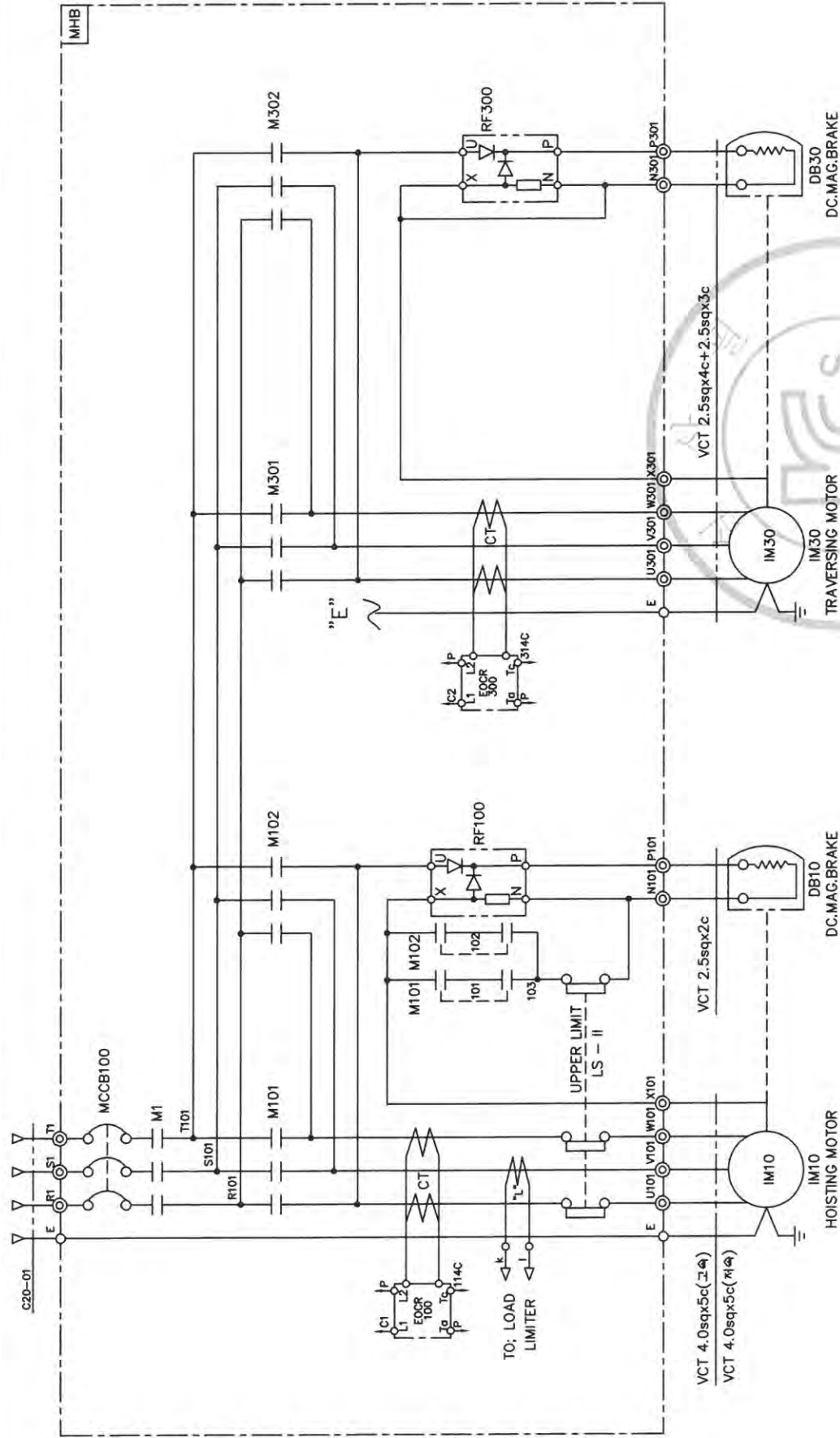
4) 형색 : 직류 제어선로

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

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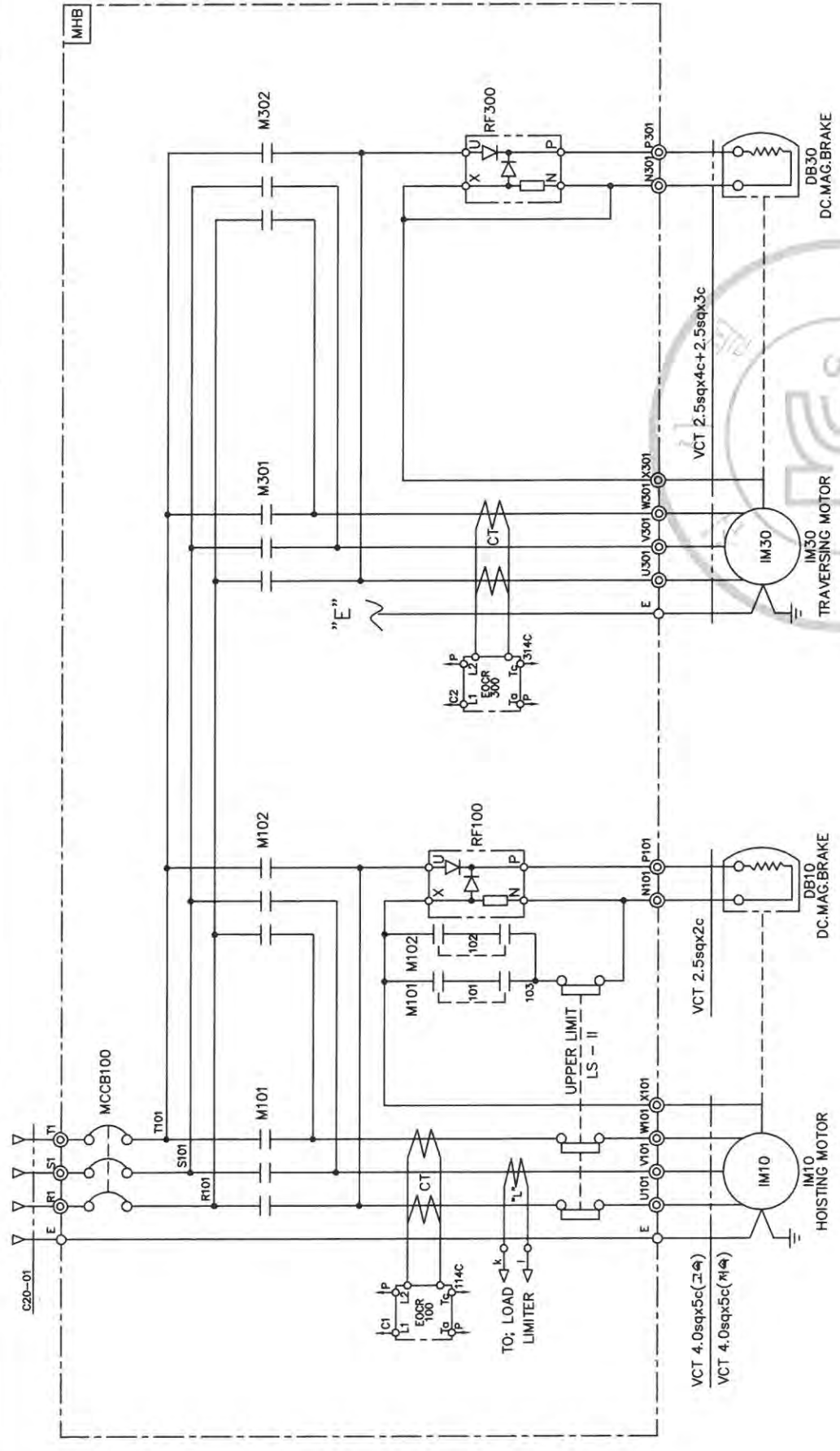
HOISTING MOTION

TRAVERSING MOTION

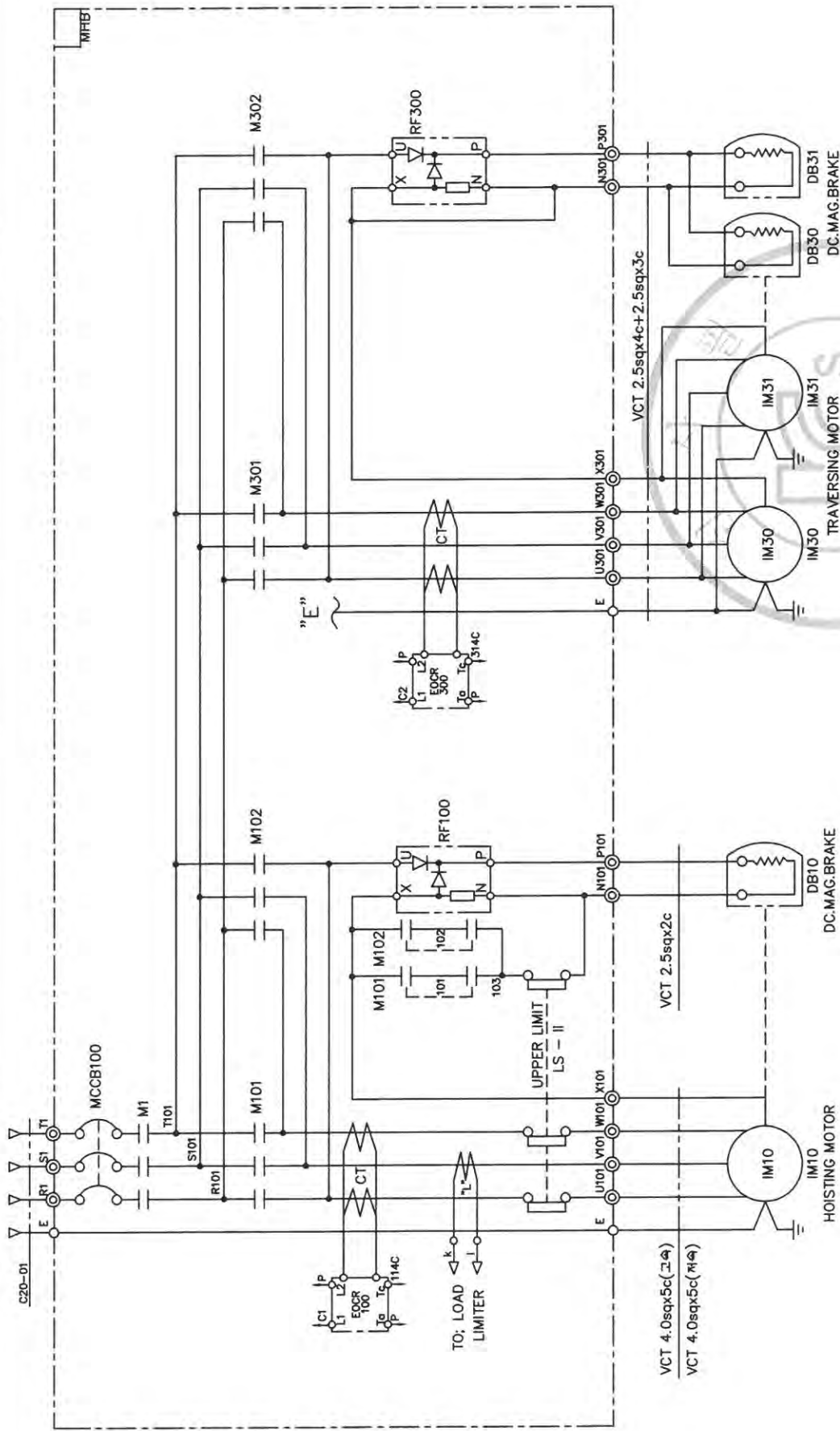
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HOISTING MOTION

TRAVERSING MOTION

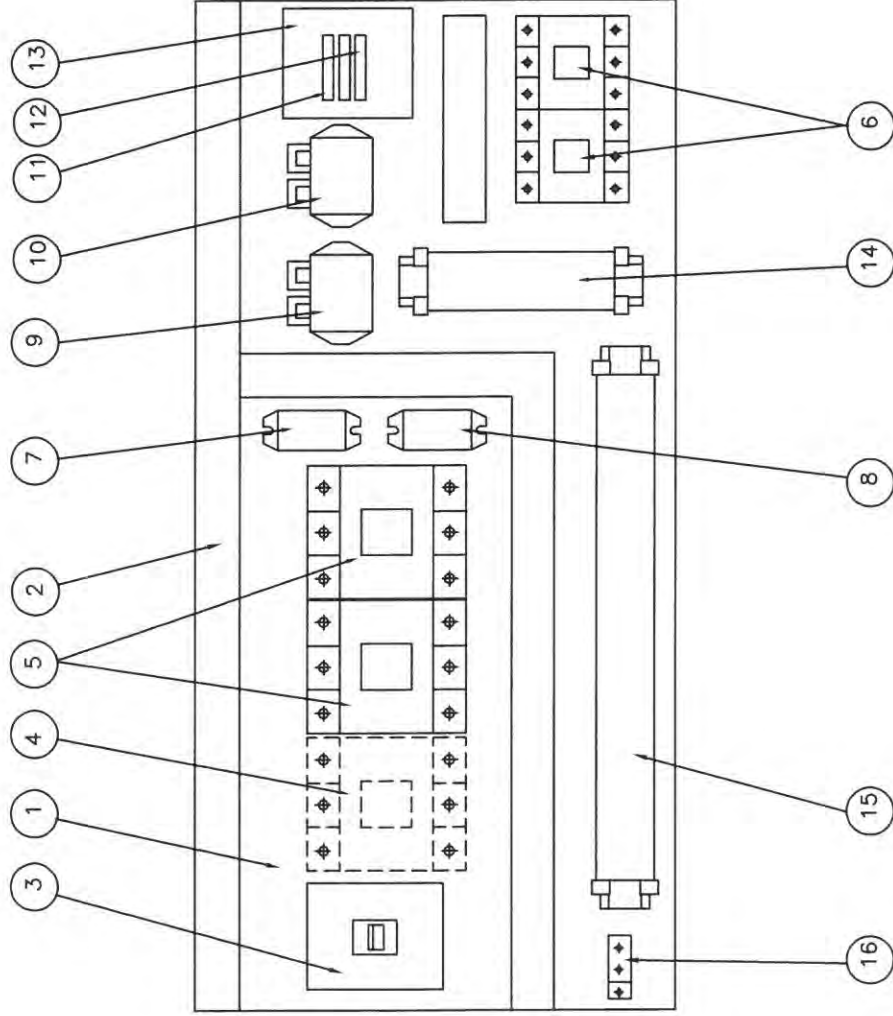


SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
	DESCRIPTION	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11, F12	M101, M102	LS-I, LS-II	EOCR100	RF100	LOAD LIMITER	C20-01
	1.8TON AC 3PH 380V 60Hz	3.7KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/15AT	380/110,120V/60VA	1A	DMC22C	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 4.0sqx4c
	1.8TON AC 3PH 380V 60Hz	1.8KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/15AT	380/110,120V/60VA	1A	DMC22C	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION MAKER	KUKDONG			DONG-A		SHINHAN	DONG-A		KUKDONG		JUNGHO		DONGIL
			CUSTOMER										
			DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT									
				 KUK DONG HOIST CO., LTD.									
MK	DATE	REVISIONS	CHK. APP.	DWG. NO				KD1BE32					

[illegible]

TRAVERSING MOTION

[illegible]



NOTE

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



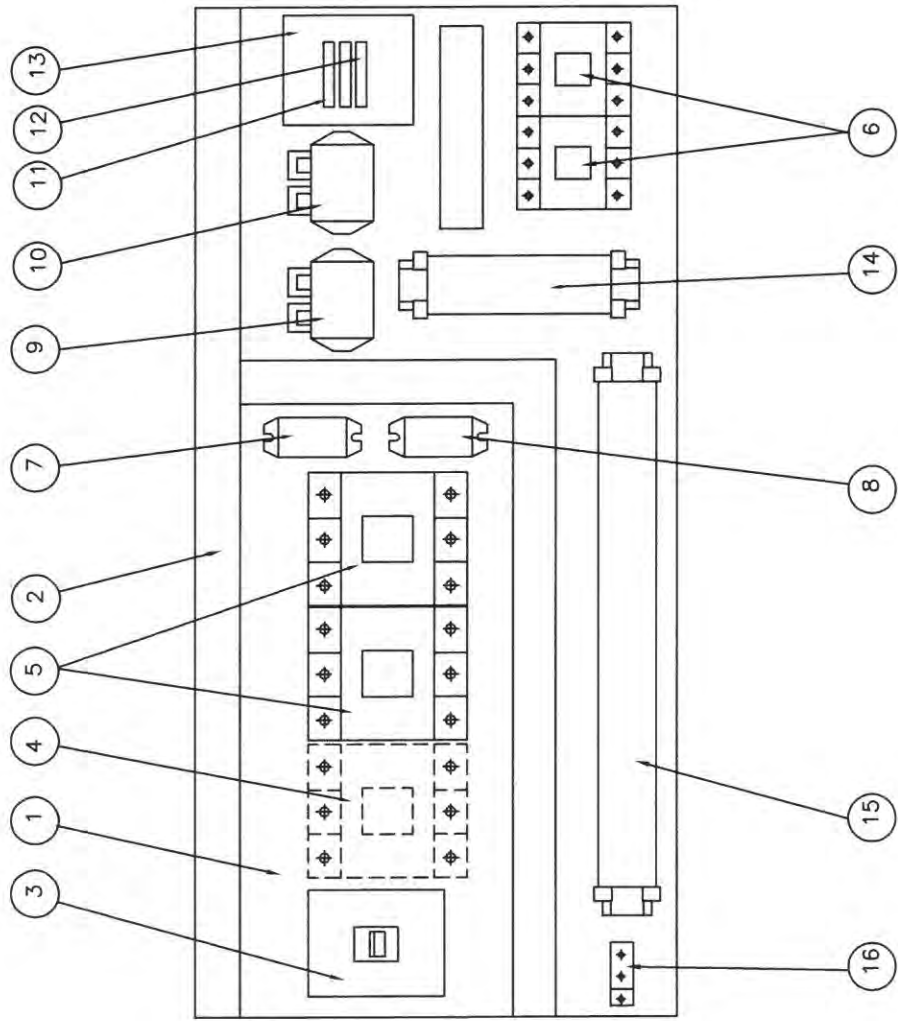
NOTE 1. 전서의 색상은 다음과 같다.

- 5) 정색 : 직류 제어선보
- 1) 흑색 : 교류 및 직류 전원선보
2) 적색 : 교류제어회로
3) 주황색 : 외부 전원에서 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 함것.
2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 차단 전속 방호가 되어있을것

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 쿨
2	CABLE DUCT	—	1	
3	N.F.B	30AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110,120V/60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A, 15A		
16	EARTH TERMINAL	3tx20x50	1	

[illegible]

ADR'S NO.



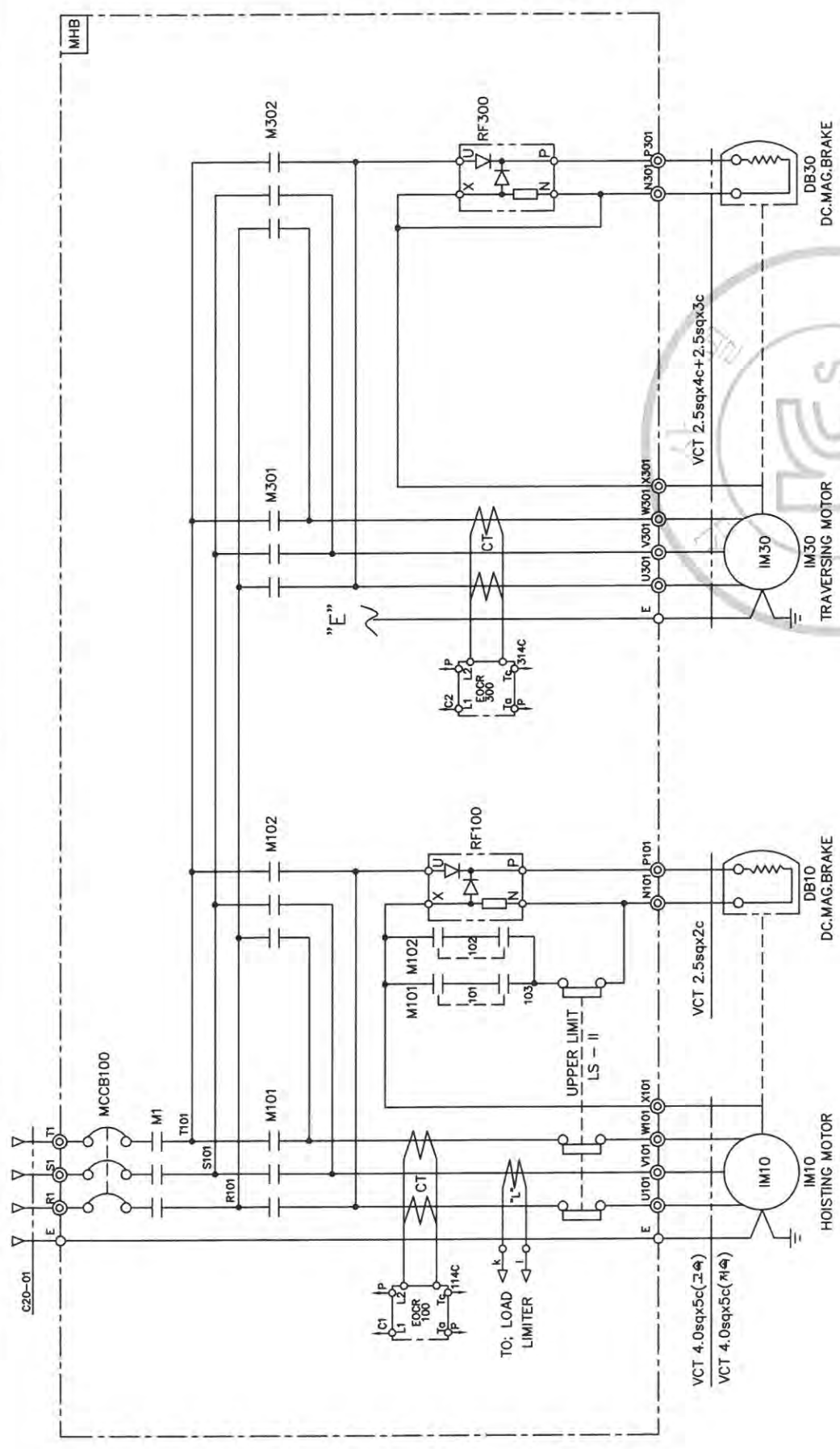
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	440V/110,120V/ 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다,
1) 흑색 : 교류 및 직류 전원선으로
2) 적색 : 교류제어회로
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 노색과 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.

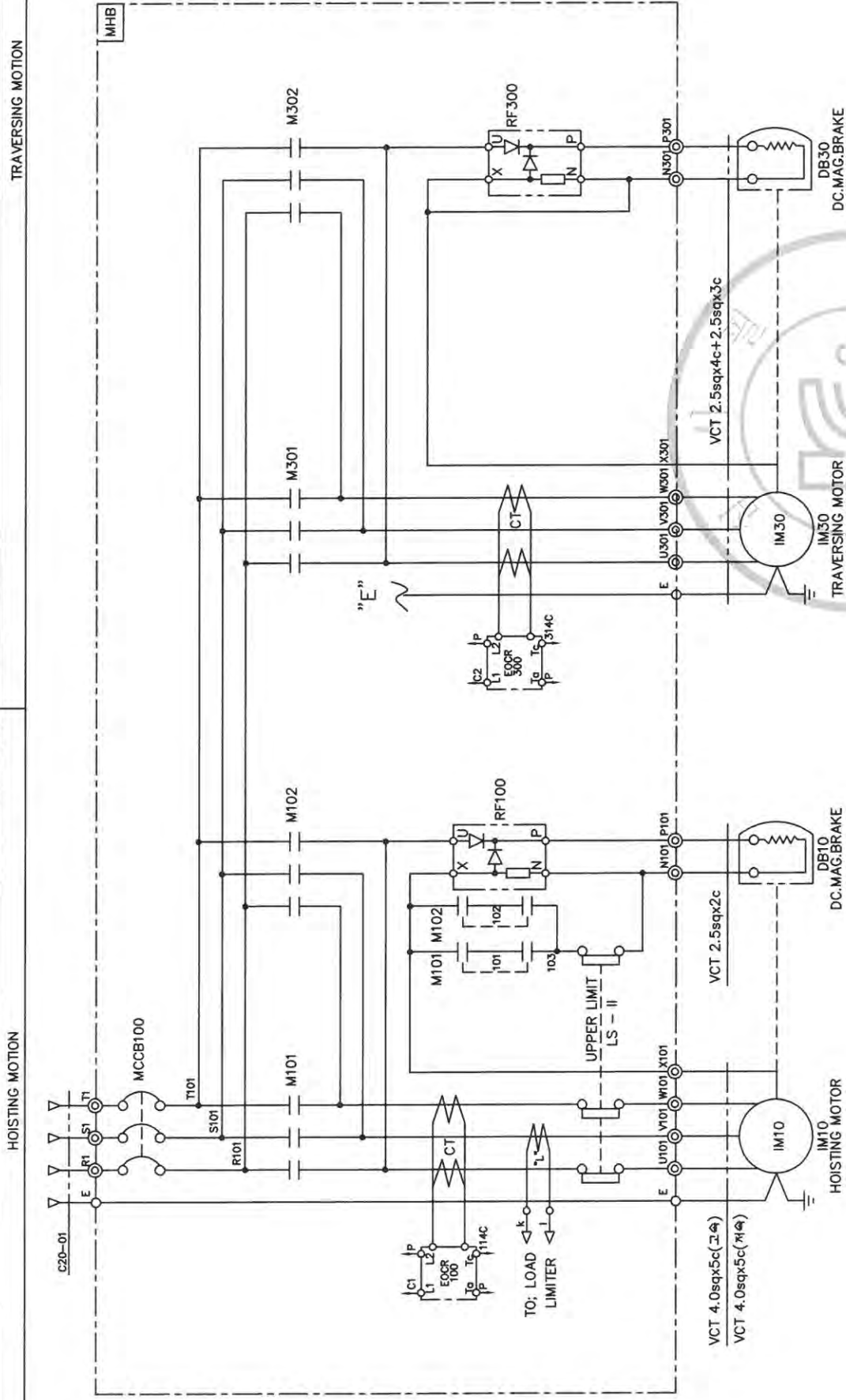
- NOTE
- 1. UPPER LIMIT LS-1,LS-2의 접점 허용 전류 용량 . : AC 600V, 75A
 - 2. POWER SOURCE : AC. 3ø 440V 60HZ
 - 3. EARTH TERMINAL RESISTANCE : 0.018 Ω

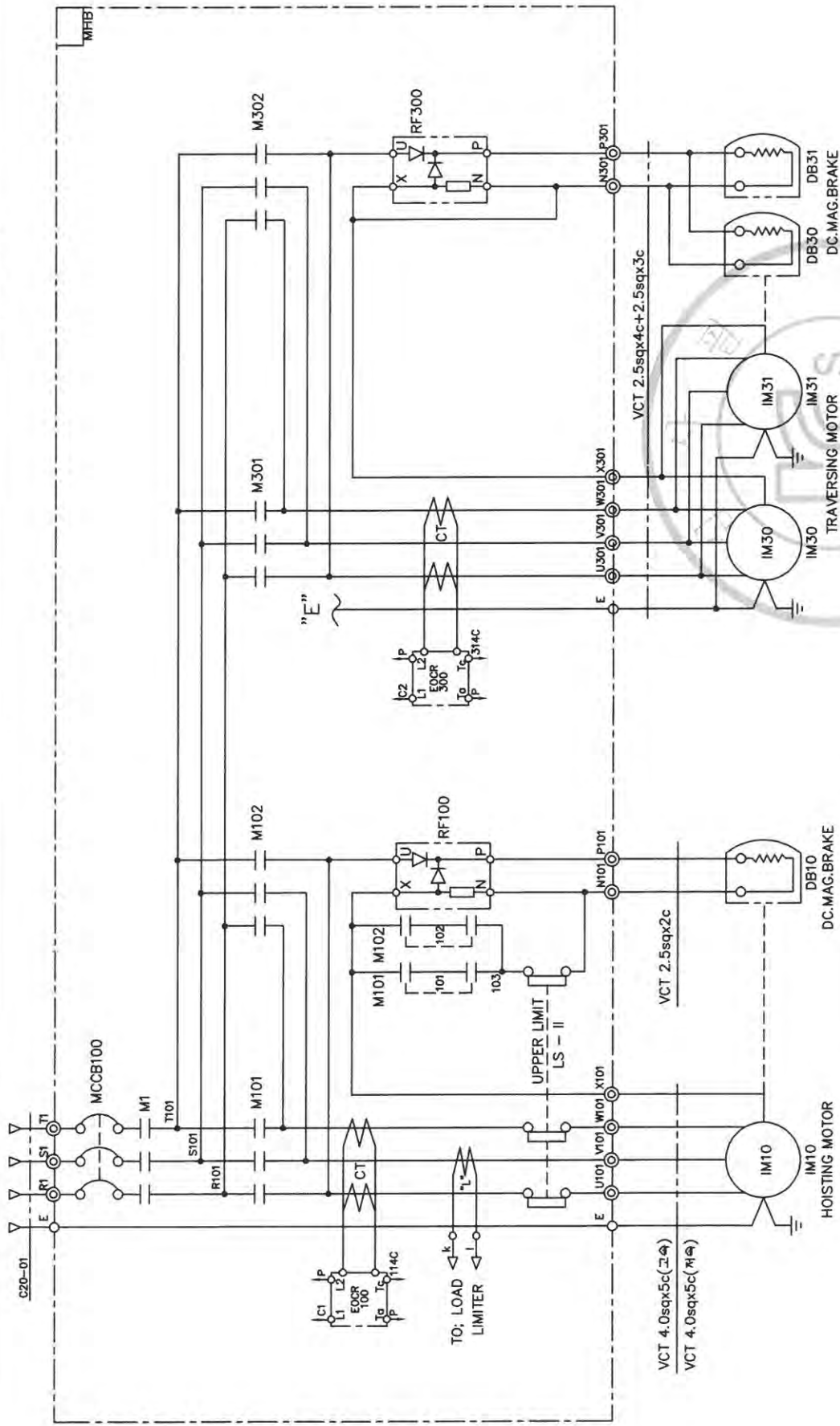


DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOIST CONTROL BOX (저속)					NONE		
ARRANGEMENT DRAWING							
CUSTOMER							
DRAWING TITLE							
REVISIONS		CHK.	APP.				
MK	DATE						
		KID KUK DONG HOIST CO., LTD.					
		DWG. NO					
		KD18BA42					



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE								
															DESCRIPTION							
	HOIST	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12 F13	M1	M101,M102	LS-I, LS-II	EOCR100	RF100	JDL-100	C20-01								
	1.8TON AC 3PH 440V 60Hz	3.7KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/15AT	440/110,120V/60VA	1A	DMC22C	DMC22C	AC 600V 75A	SS-05	SR-30	JDL-100	VFCT 4.0sqx4c								
	1.8TON AC 3PH 440V 60Hz	1.8KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/15AT	440/110,120V/60VA	1A	DMC22C	DMC22C	AC 600V 75A	SS-05	SR-30	JDL-100	VFCT 4.0sqx4c								
SELECTION MAKER	KUKDONG																					
	CUSTOMER				LS				SHINHAN				DONG-A		KUKDONG		ASECO		JUNGHO		DONGIL	
	DRAWING TITLE								DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
	HOISTING & T/S POWER CONTROL CIRCUIT														NONE							
MK	DATE	REVISIONS				CHK.	APP.	KUK DONG HOIST CO., LTD.								DWG. NO		KD18E41				

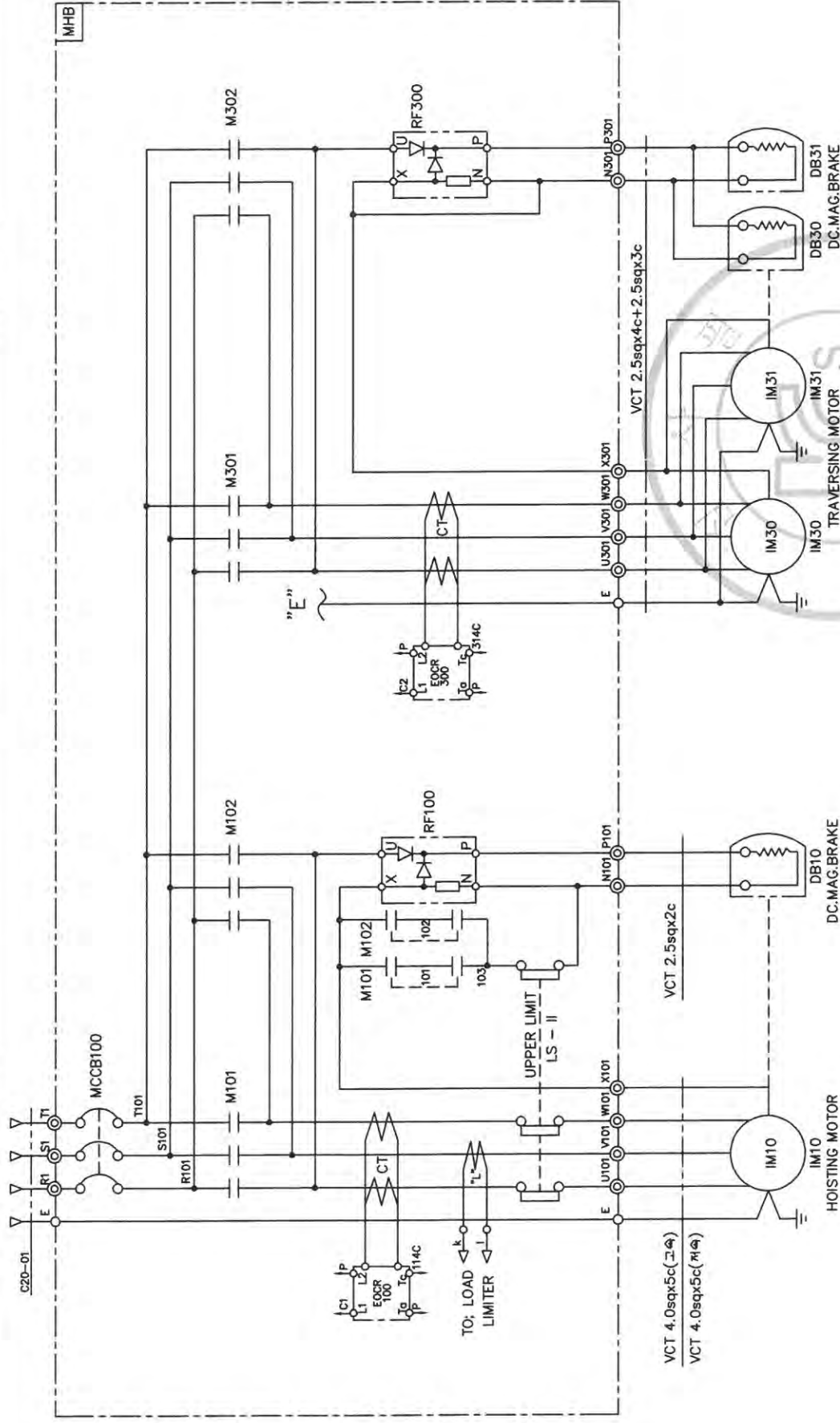
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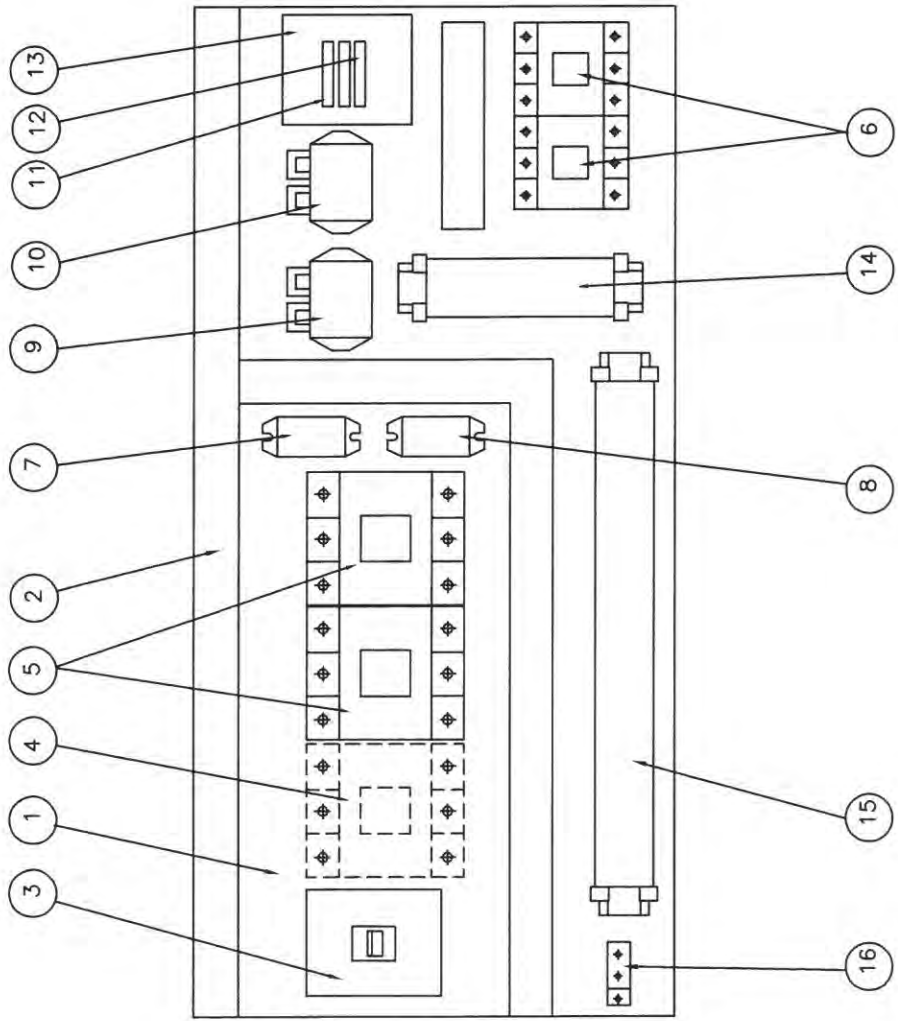


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HOISTING MOTION

TRAVERSING MOTION

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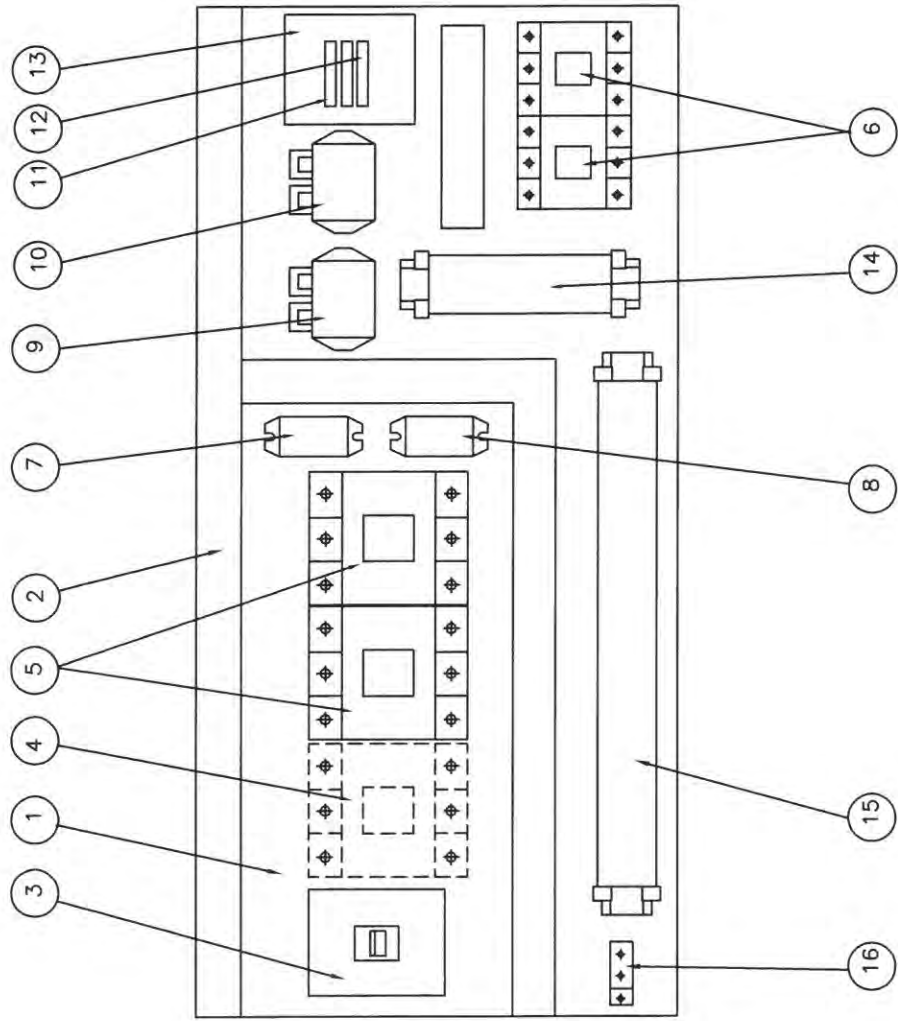
- NOTE
- 1. UPPER LIMIT LS-1,LS-2의 접점 허용 전류 용량 : AC 600V, 75A
 - 2. POWER SOURCE : AC. 3ø 460V 60HZ
 - 3. EARTH TERMINAL RESISTANCE : 0.018 Ω



NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로
2) 적색 : 교류제어회로
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
3. 제어용 전선 : 1.5mm KIV,HIV
4. 접지시 다소 변경 될수있음.
5. 외함 개형구조는 다음과 같음.
1) 외함 개방시 충전부분이 차단되도록 함것.
2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	30AF/15AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110,120V/60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

ADR'S NO.						
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOIST CONTROL BOX (고속)						
ARRANGEMENT DRAWING						
KID KUK DONG HOIST CO., LTD.						KD18BA51
DATE	REVISIONS	CHK.	APP.			



NOTE

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



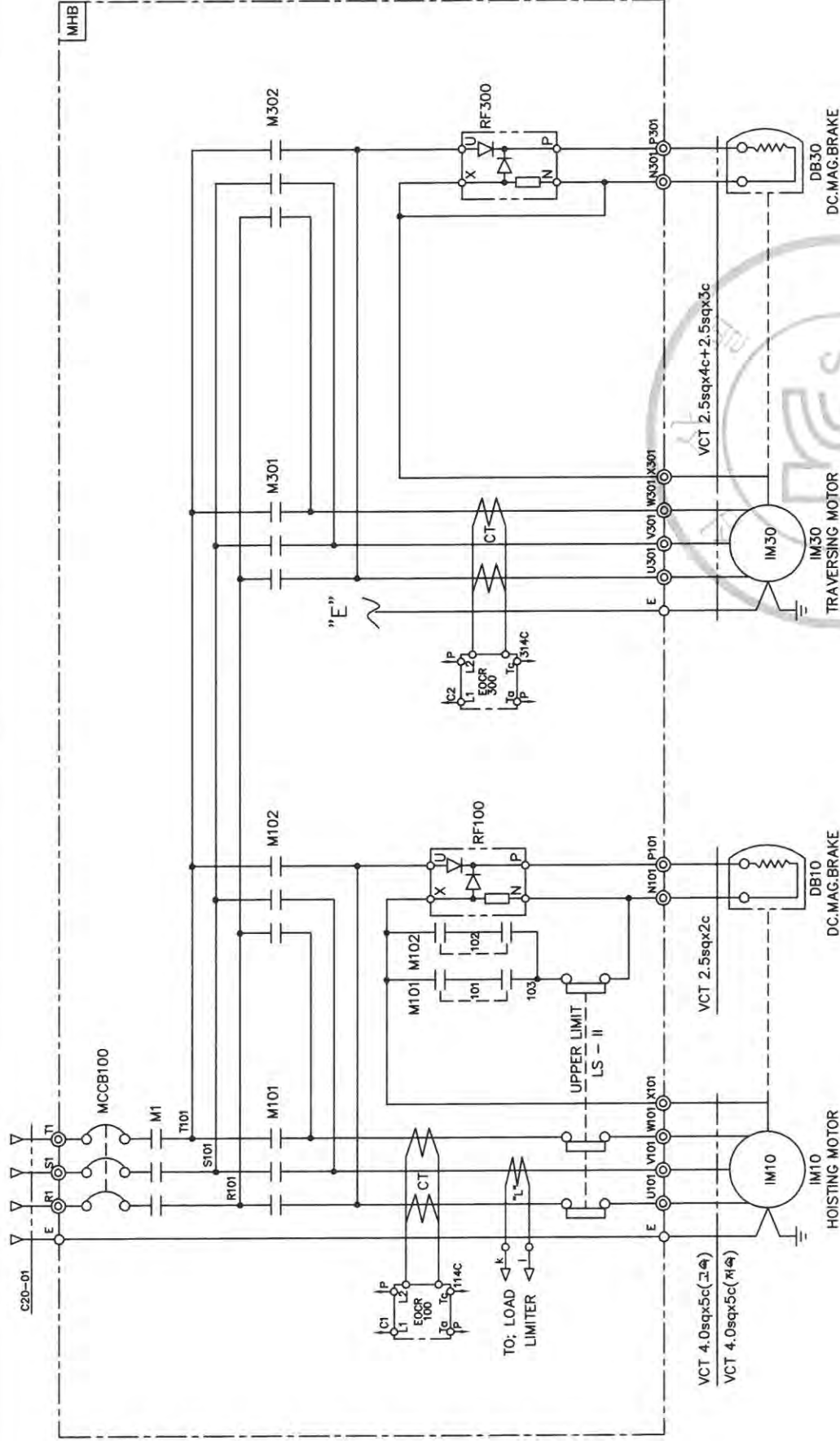
NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선으로
2) 적색 : 교류 제어회로
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
1) 외함 개방시 충전부분이 차단되도록 할것.
2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉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

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	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC22C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-30	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	2 A	1	
13	TRANSFORMER	460V/110,120V/ 60VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

MRK	DATE	REVISIONS	CUSTOMER	DRAWING TITLE	DWG. NO	DATE	ORDER NO.
				HOIST CONTROL BOX (저속)			
				ARRANGEMENT DRAWING			
				극동호이스트 주식회사 KID KID DONG HOIST CO., LTD.			KD18BA52

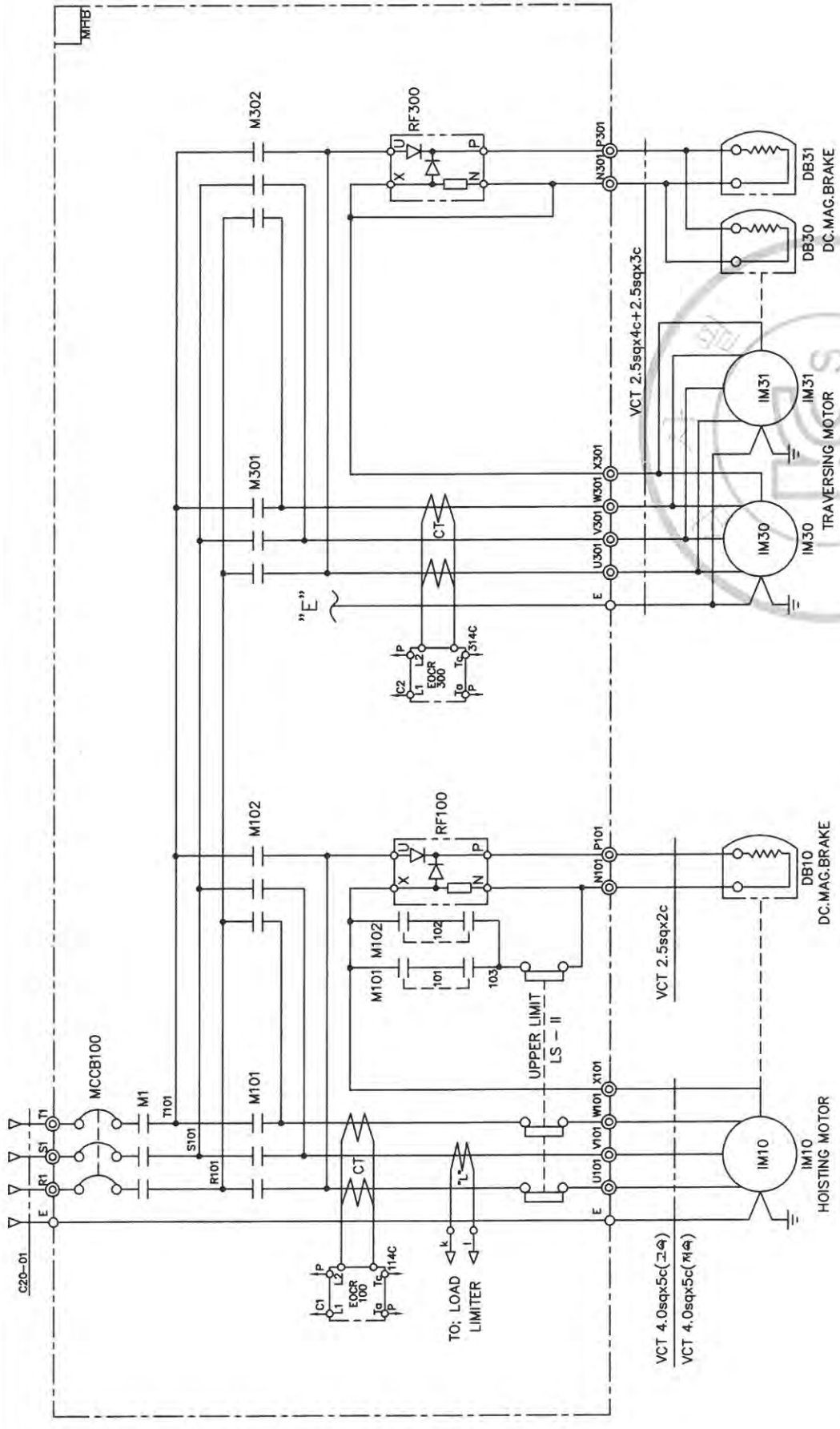
HOISTING MOTION

TRAVERSING MOTION

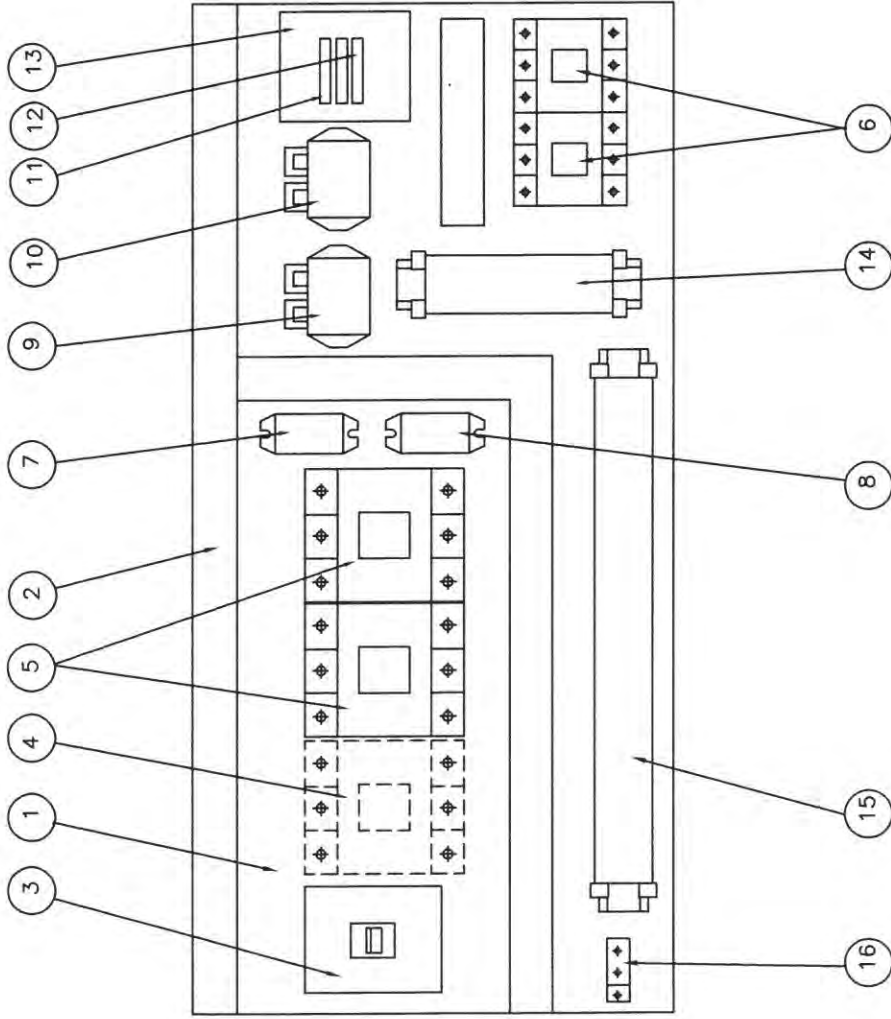
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TRAVERSING MOTION

HOISTING MOTION



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE				
															DESCRIPTION			
	HOIST	IM 10	IM 30, 31	DB10, 30	MCCB100	TR 1	F1, F12 F13	M1	M101, M102	M301, M302	LS-I, LS-II	EOCR300	RF100	RF300				
	1.8TON AC 3PH 460V 60Hz	3.7KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/15AT	460/110,120V/60VA	1A 3A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-05	SR-30	SR-30				
	1.8TON AC 3PH 460V 60Hz	1.8KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/15AT	460/110,120V/60VA	1A 2A	DMC22C	DMC22C	DMC22C	AC 600V 75A	SS-05	SR-30	SR-30				
SELECTION/MAKER		KUKDONG			LS	SHINHAN	-		DONG-A			KUKDONG	ASECO		JUNGHO	DONGIL		
△				CUSTOMER											SCALE	DATE	ORDER NO.	
△																		
△				DRAWING TITLE	HOISTING POWER & CONTROL CIRCUIT										NONE			
△																		
△	DATE	REVISIONS	CHK.	APP.											DWG. NO.		KD18E53	
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.																		



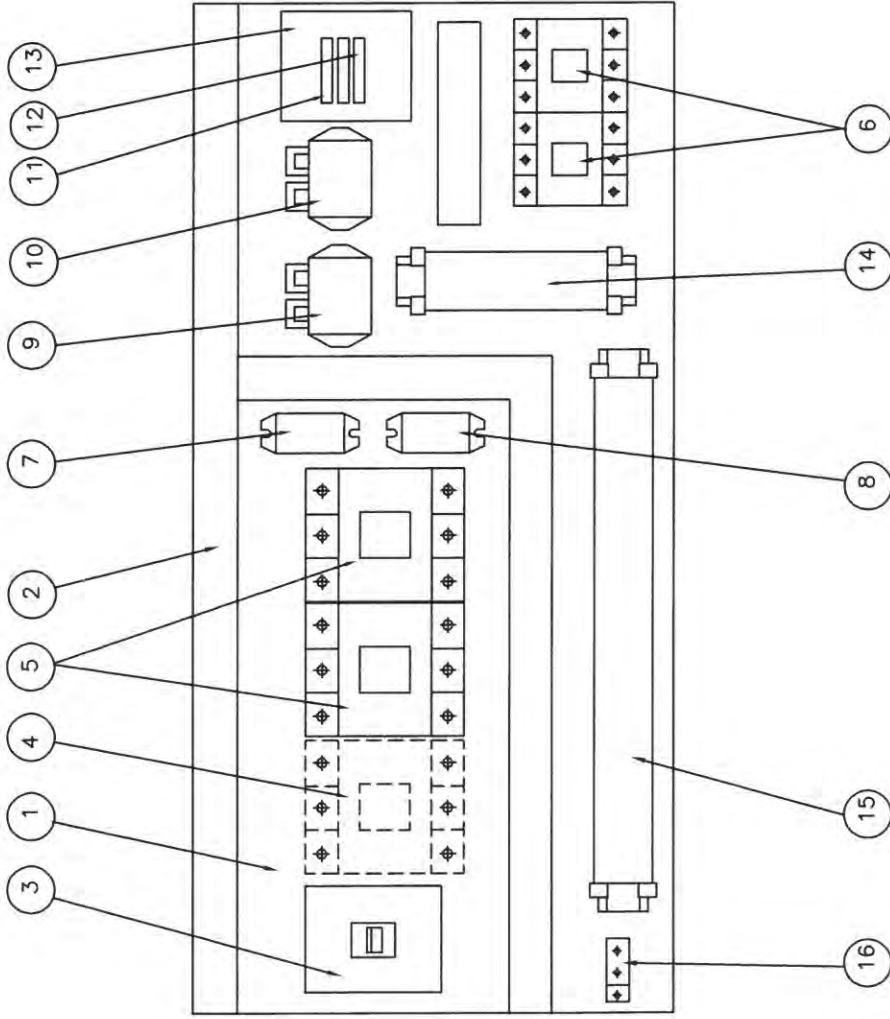
NOTE

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

[illegible]

NOTE
1. 전선의 색상은 다음과 같다.

- 1) 특성 : 교류 및 직류 전원선로
2) 피색 : 교류 제어회로
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼합 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 1.5sq
3. 제어용 전선 : 1.5mm KIV, HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개발구조는 다음과 같을것.
- 1) 외함 개발시 종전부분이 차인되도록 할것.
 - 2) 외함 개발후 승전되어있는 부분은 IP2X 이상의 외전 접촉 보호가 되어있을것



NOTE

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



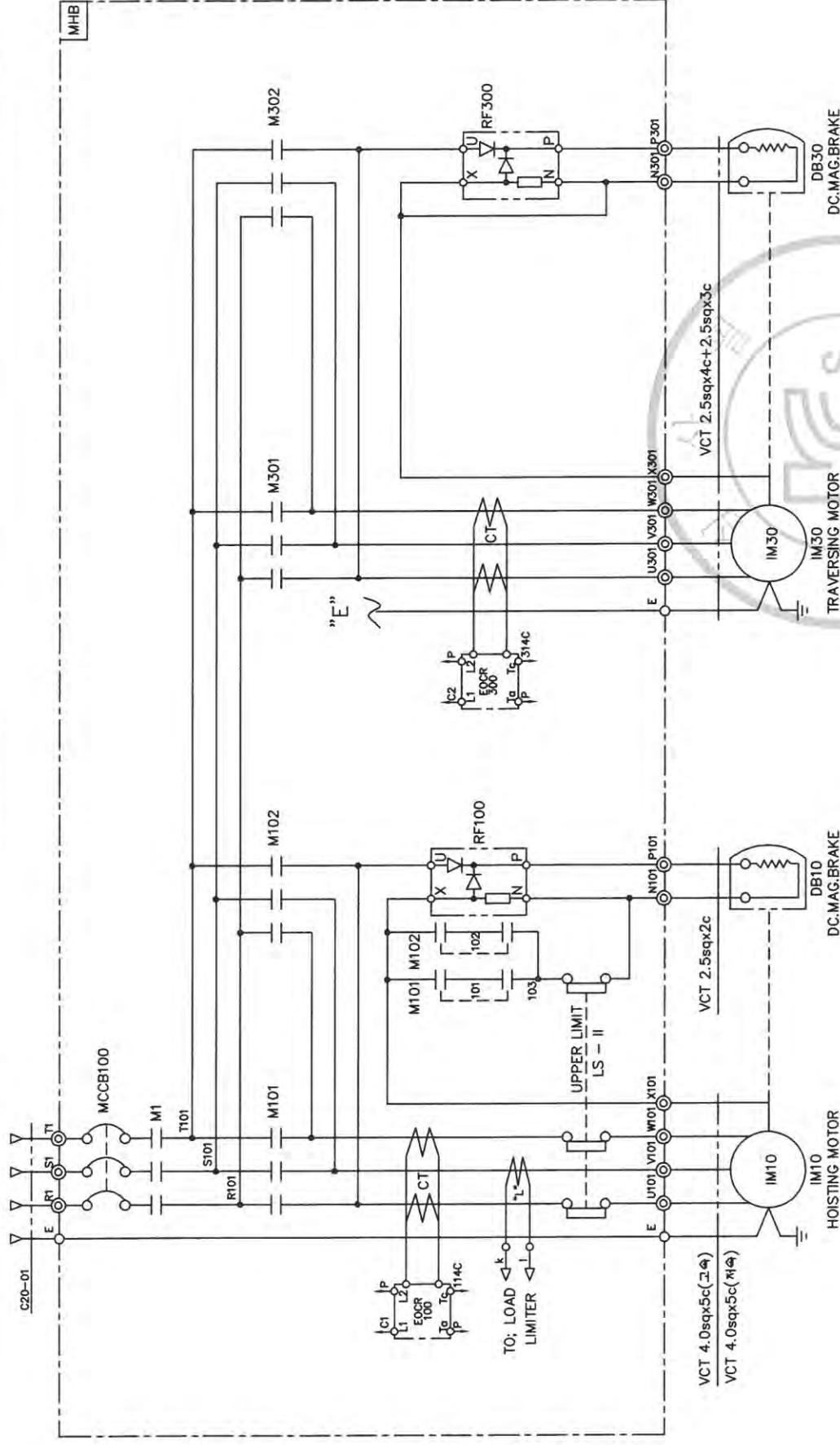
A									DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
A													NONE		
A															
A															
MK	DATE	REVISIONS	CHK.	APP.											
					HOIST CONTROL BOX (저속)										
					ARRANGEMENT DRAWING										
					 극동호이스트 주식회사 KLIK DONG HOIST CO., LTD.										
					DWG. NO KD18BA62										

HOIST CONTROL BOX (제어)
ARRANGEMENT DRAWING

KD18BA62

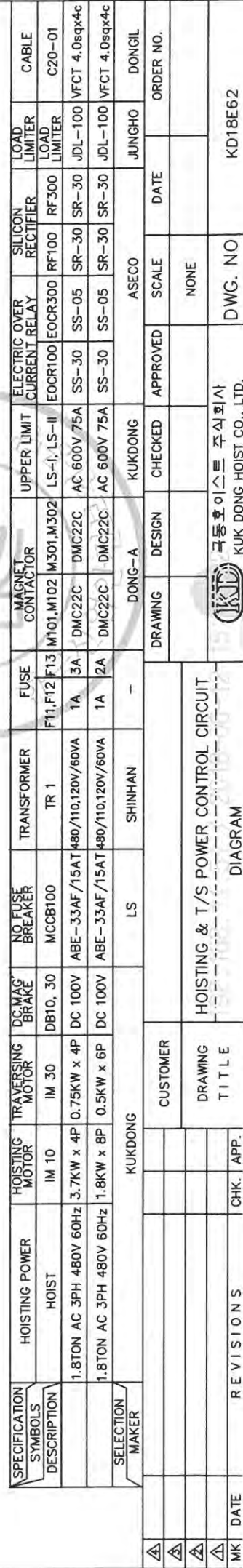
HOISTING MOTION

TRaversing MOTION



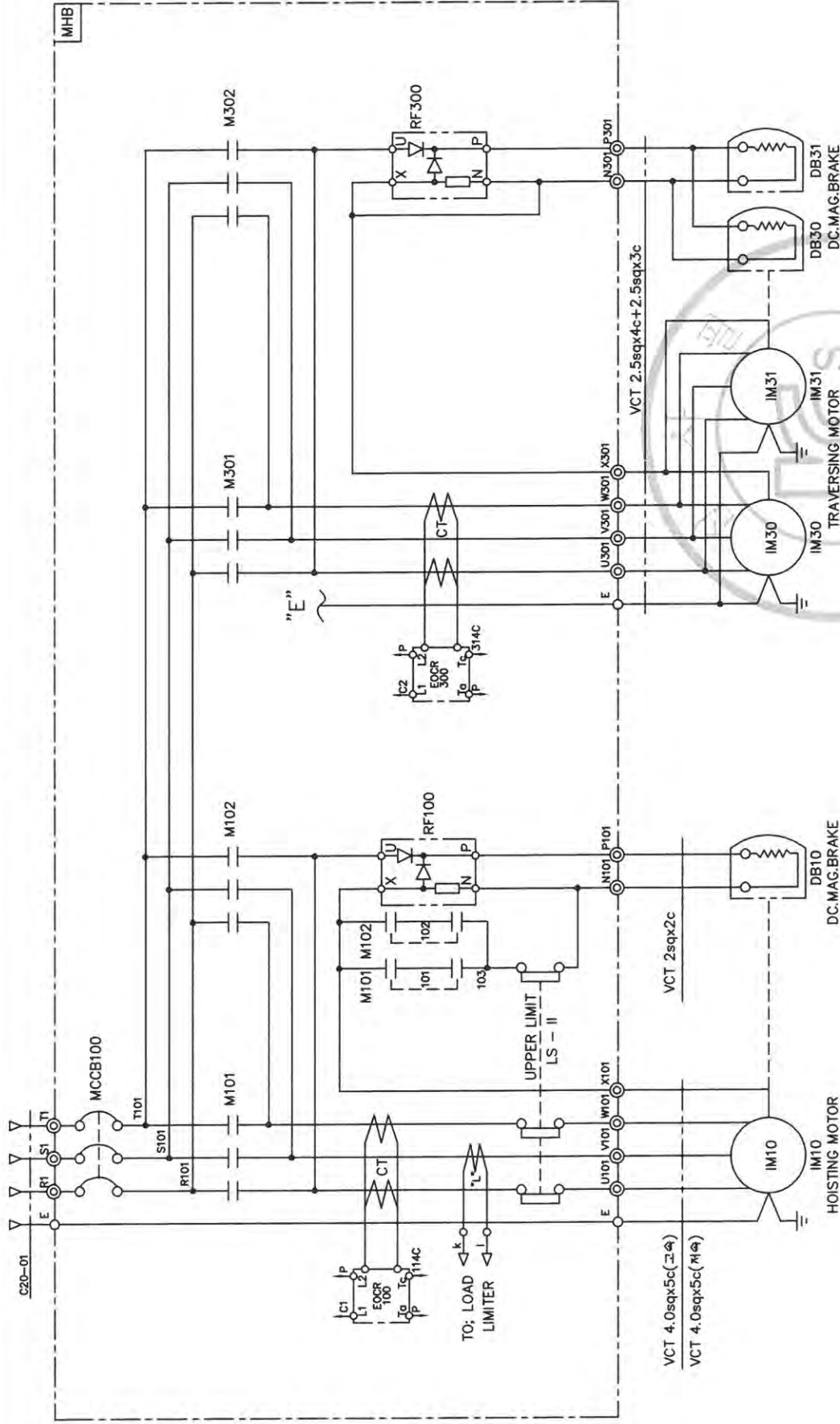
SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE			
															DESCRIPTION		
	HOIST	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12 F13	M1	M*101,M*102	LS-I, LS-II	EOCR100	RF100	RF300	C20-01			
	1.8TON AC 3PH 480V 60Hz	3.7KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/15AT	480/110,120V/60VA	1A 3A	DMC22C	DMC22C	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 4.0sqx4c			
	1.8TON AC 3PH 480V 60Hz	1.8KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/15AT	480/110,120V/60VA	1A 2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 4.0sqx4c			
SELECTION MAKER																	
	KUKDONG						DONG-A				ASECO		JUNGCHO		DONGIL		
	CUSTOMER			DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
	DRAWING TITLE			HOISTING & T/S POWER CONTROL CIRCUIT													
	REVISIONS			DIAGRAM													
	DATE	CHK.	APP.	 KUKDONG HOIST CO., LTD.											DWG. NO.		KD18E61

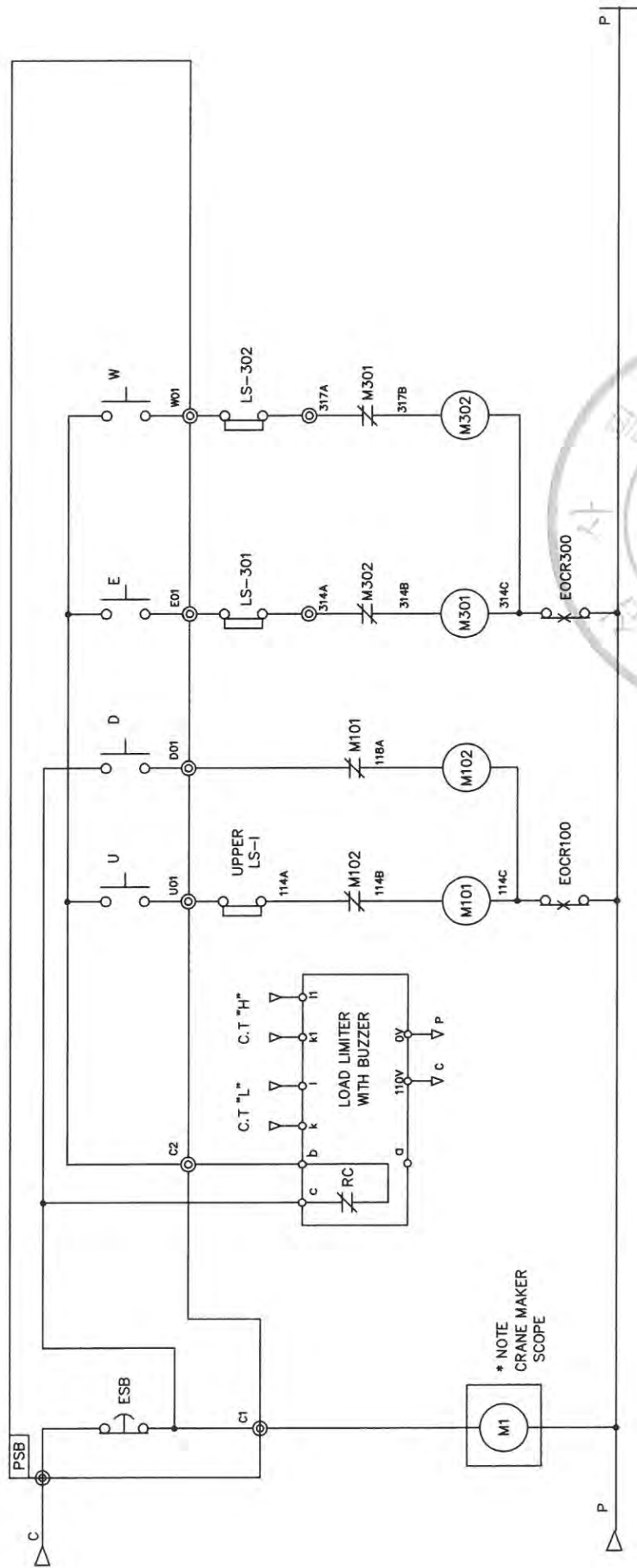
TRAVERSING MOTION



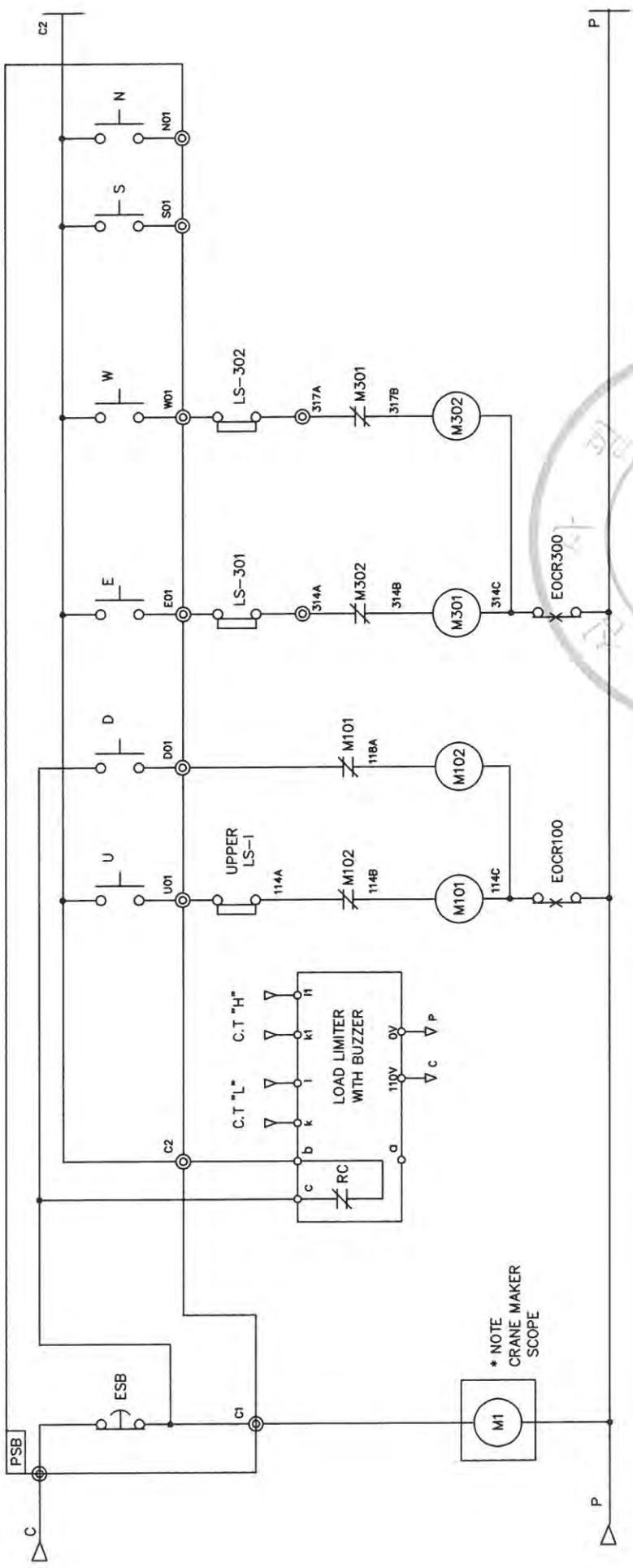
HOISTING MOTION

TRAVERSING MOTION

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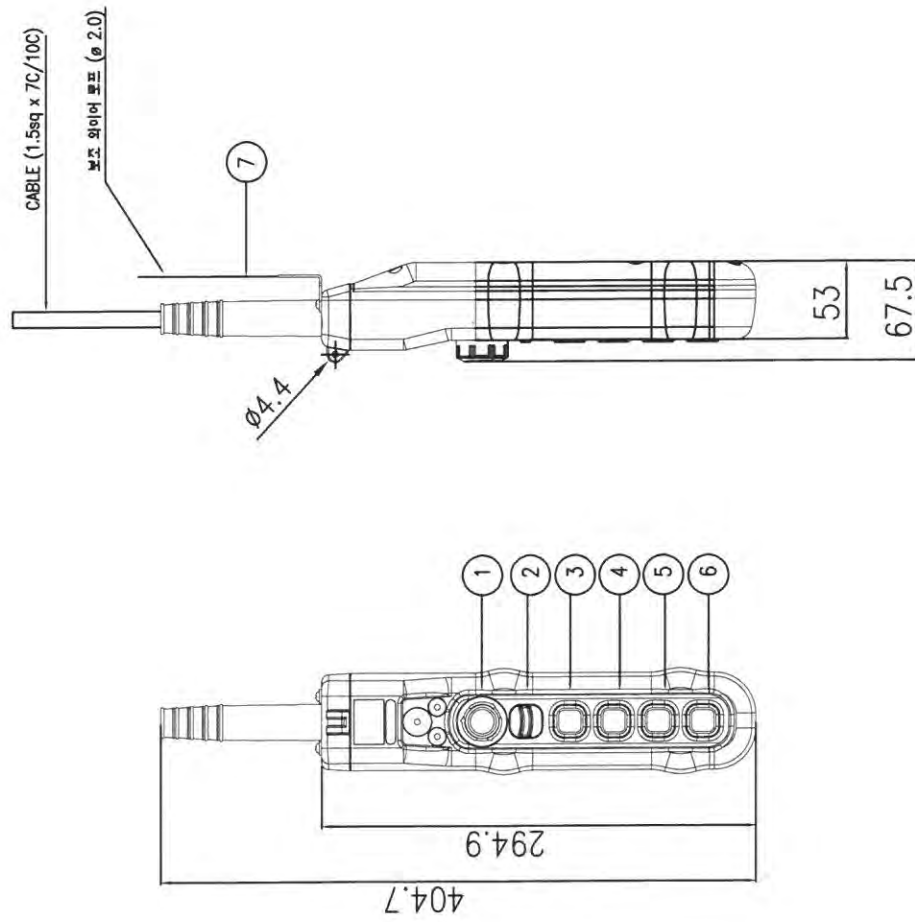


SPECIFICATION SYMBOLS		UPPER LIMIT		PENDANT P.B S/W		LOAD LIMITER		LIMIT SWITCH	
DESCRIPTION		LS-1		E.S.B		LOAD LIMITER		LS-301,302	
MAKER		AC 600V 3A		250V 3A		JDL-100		KG-L001	
DRAWING		DESIGN		CHECKED		DATE		ORDER NO.	
MAIN POWER 2 & CONTROL CIRCUIT		NONE		KUNHUNG		JUNGHUNG		KG-AUTO	
DWG. NO		KUNHUNG		JUNGHUNG		DATE		ORDER NO.	
KID		극동호이스트 주식회사		KID		KID		KID	
MK		DATE		REVISIONS		CHK.		APP.	
KD18E001		1TH		1TH		1TH		1TH	



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불법복제 및 배포금지



색상	구분	작작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색—흑색		지정된의미없음	기타

* MATERIAL : POLYCARBOBATE(PLASTIC)

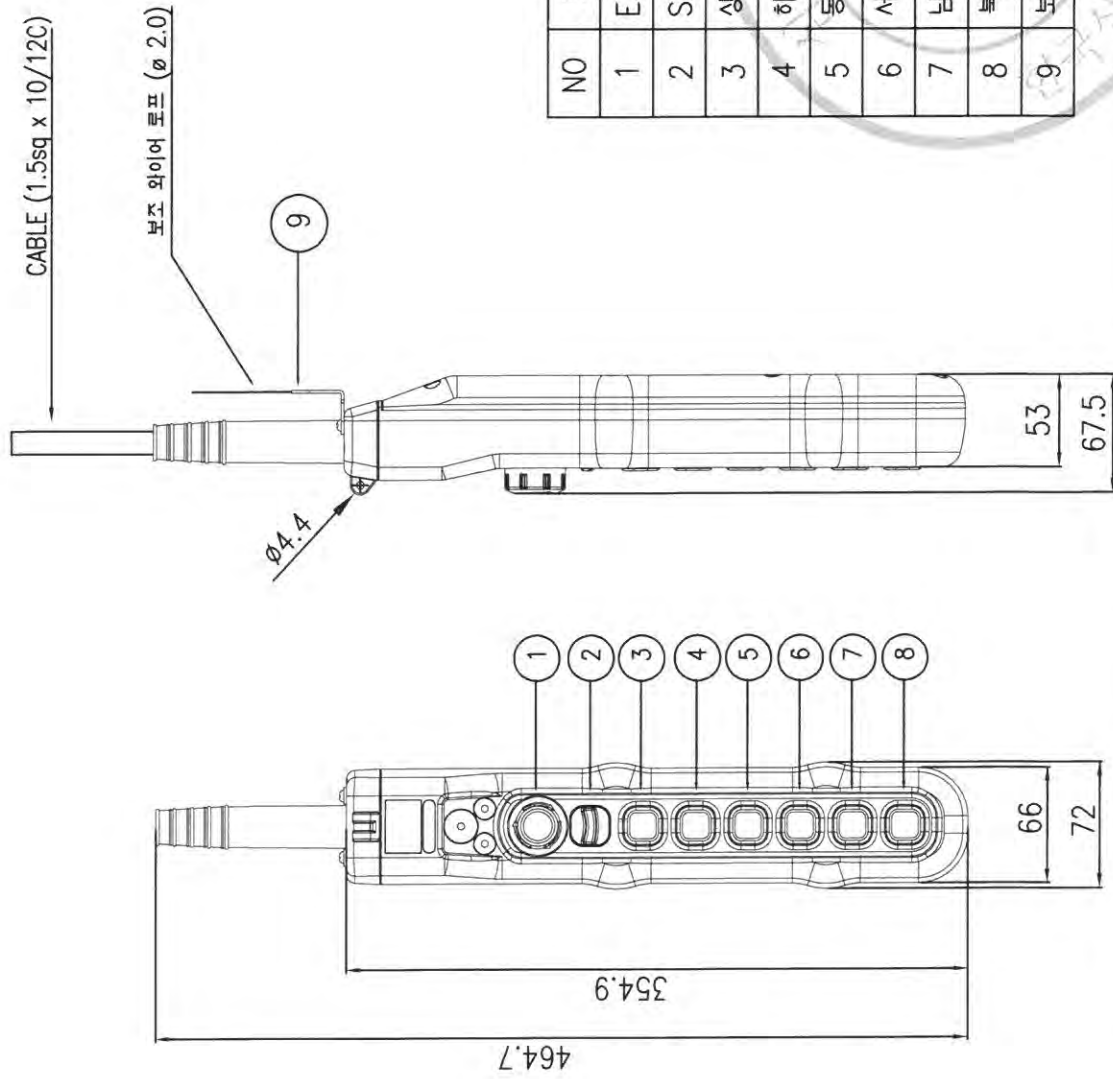
* BODY COLOR : YELLOW, BLACK

* IP : 55.01상

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		
4	하	1PUSH BUTTON 1STEP		
5	동(전)	1PUSH BUTTON 1STEP		
6	서(후)	1PUSH BUTTON 1STEP		BLACK
7	보조 와이어	ø 2.0		

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

법률 제 및 배포 금지



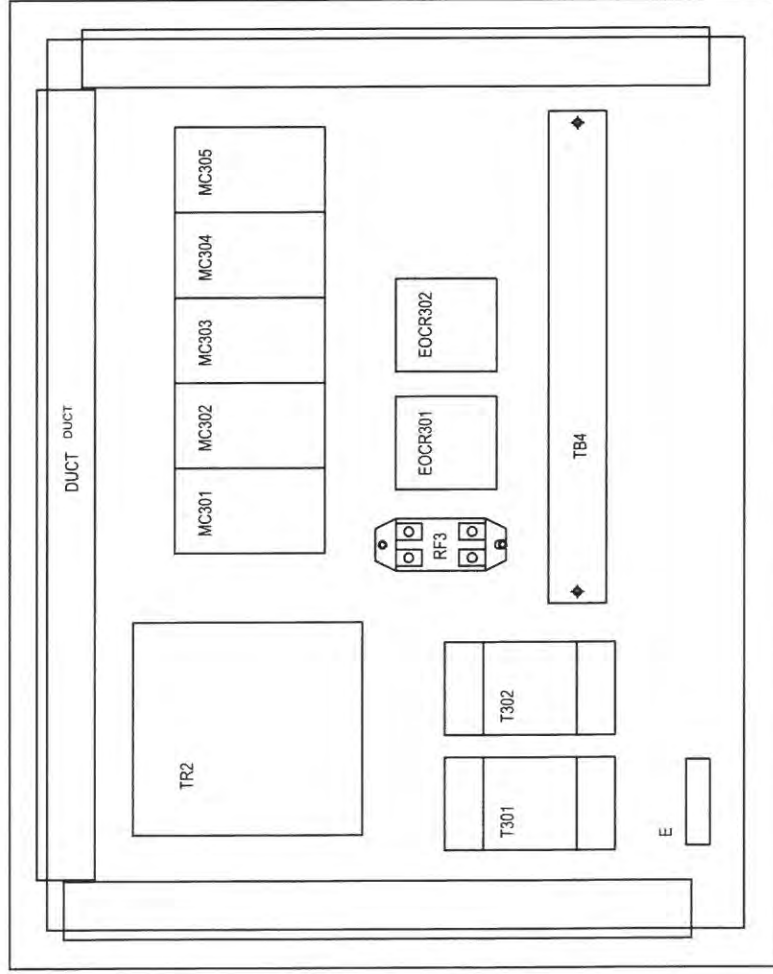
색상	구분	조지버튼	표시등
	저색	비상	비상
	황색	비정상	비정상
	녹색	정상	정상
	흰색	이무	이무
흰색, 회색, 흑색		지정된 의미 없음	기타

* 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	BLACK
2	SPARE			
3	상	1PUSH BUTTON 1STEP		
4	하	1PUSH BUTTON 1STEP		
5	동 (좌)	1PUSH BUTTON 1STEP		
6	서 (우)	1PUSH BUTTON 1STEP		
7	남 (전)	1PUSH BUTTON 1STEP		
8	북 (후)	1PUSH BUTTON 1STEP		
9	보조 WIRE	ø 2.0		

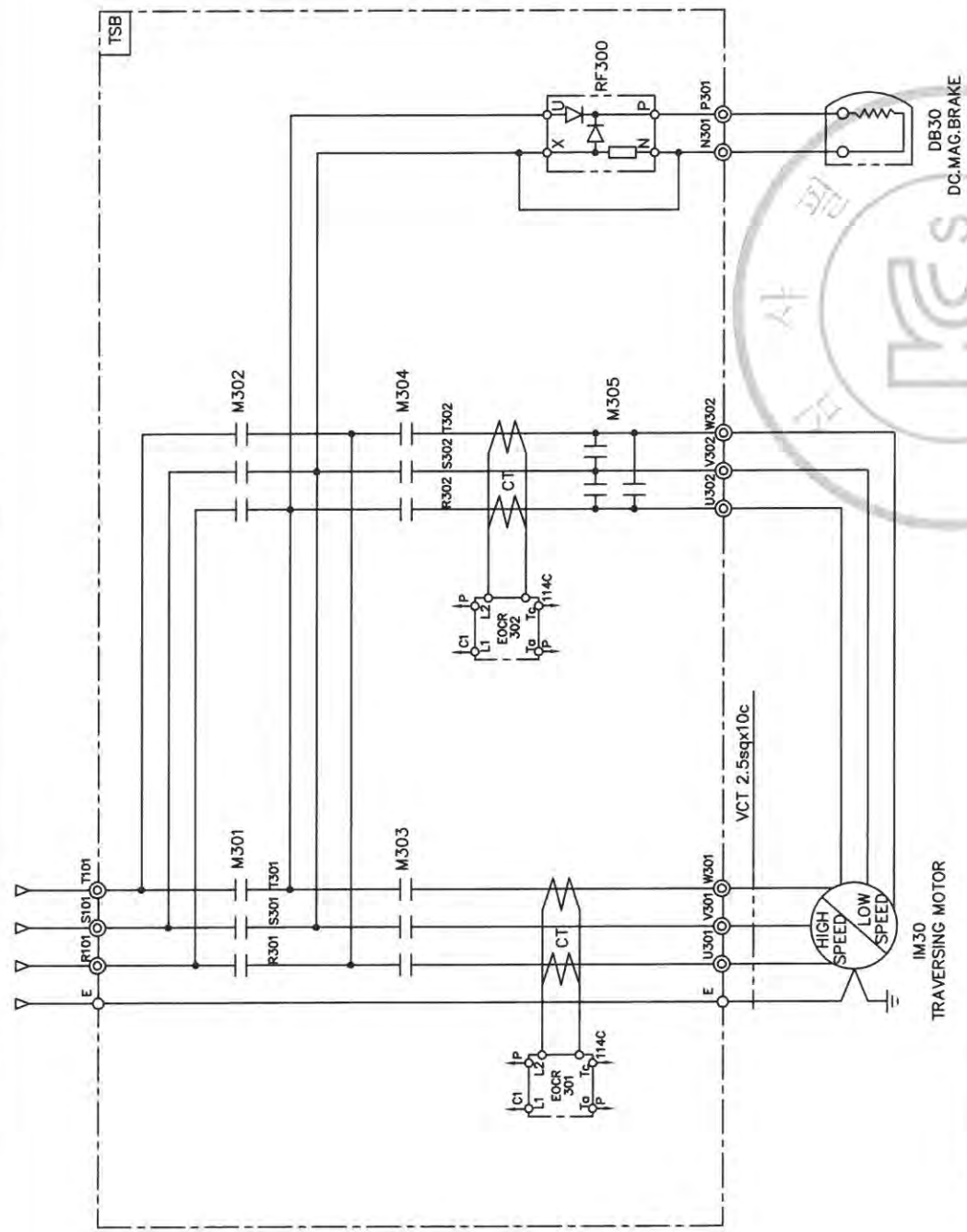
A					CUSTOMER	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
A					DRAWING TITLE	PENDANT PUSH BUTTON SWITCH					
A						LAY OUT					
MK	DATE	REVISIONS	CHK.	APP.		KUK DONG HOIST CO., LTD.			DWG. NO		

불법복제 및 배포금지

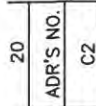


SYMBOL	NAME	SPEC	Q'ty
TR2	TRANS	380V40/460V480V-220V 300VA	1
MC301,302,303,304,305	MAGNETIC CONTACTOR	DMC22b	5
T301,302	TIMER	T48N-E10A	2
EOCR301,302	ELECTRIC OVER CURRENT RELAY	SS-05 (220V ; SS-30)	2
RF3	RECTIFIER	SR-30	1
TB4	TERMINAL BLOCK	20A x 12P	1
DUCT	CABLE DUCT	60x30	1
E	EARTH BUS BAR	PUR	1

[illegible]

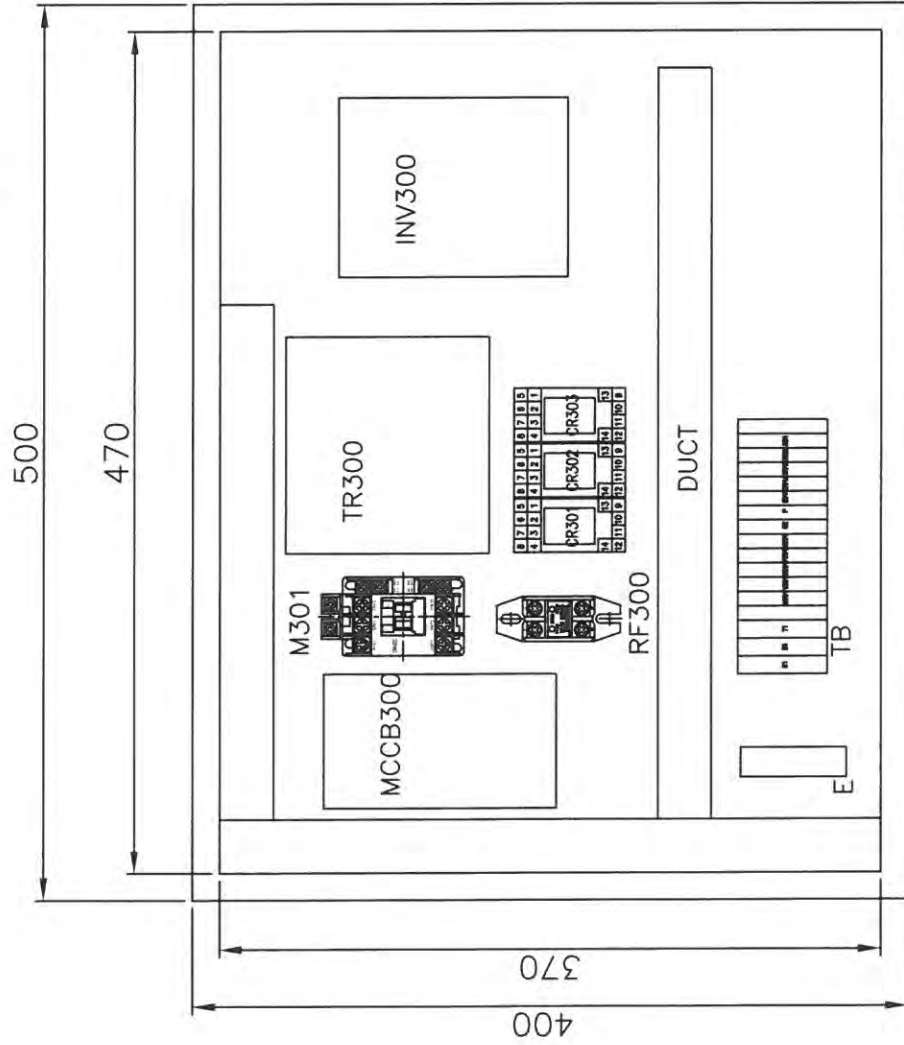


20	ADR'S NO.	C2
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20	ADR'S NO.	C2
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법률 제 및 배포 금지

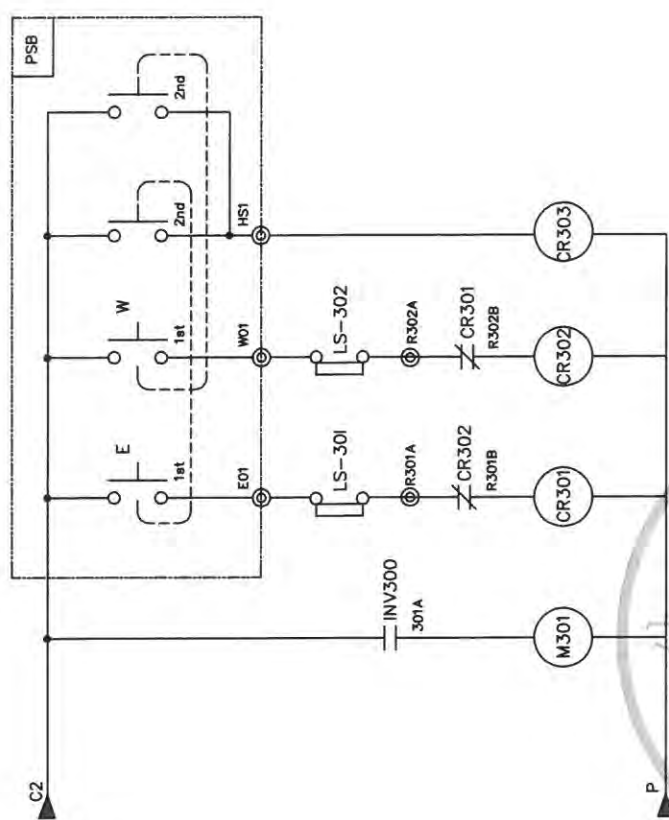


R1	S1	T1	U301V301W1301	P301N301	C2	P	E01	P301A	W01	P302A	HS1
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11	EARTH BUS BAR	PUR	1	
10	DUCT	PUR	1	
9	TERMINAL BLOCK	PUR	1	
8	INVERTER	PUR	1	
7	TR	PUR	1	
6	RELAY & SCOKET	PUR	1	
5	RF	PUR	1	
4	MC	PUR	1	
3	MCCB	PUR	1	

2	속 판	SS400	1								
1	T/S BOX	PUR	1								
NO.	DESCRIPTION	M'T'L	SUB	TOTAL	SUB	TOTAL	WEIGHT(Kg)		REMARKS.		
PROJECT		QTY		DATE		DIM					
TITLE		T/S CONTROL PANEL(INVERTER)		SCALE		PROJECTION					
DRAWN	DESIGNED	CHECKED	APPROVED	A3/3		3rd		REF. DRAWING			
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET No.		DWG No.		KD18EI001					

CONTROL CIRCUIT DIAGRAM



SPECIFICATION SYMBOLS	TRAVERSING POWER	TRAVERSING MOTOR	DC.MAG' BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER
DESCRIPTION		IM 30	DB30	MCCB300	TR 300	M301	CR301.302.303	INV300	RF300
	AC 3PH 220V 60Hz	0.5KW x 6P	DC 100V	ABE-33AF/10AT	-	DMC22b	MINI 4a4b(Coil AC110V)	SV015GSA-2	SR-30
SELECTION MAKER	AC 3PH 380(440,460,480)V 60Hz	0.5KW x 6P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V/200VA	DMC22b	MINI 4a4b(Coil AC110V)	SV015GSA-4	SR-30
								LS	ASAN
					KUK DONG HOIST				
		CUSTOMER	INVERTER CONTROL						
	DRAWING TITLE	TRAVERSING POWER & CONTROL CIRCUIT							
REVISIONS	CHK.	APP.	DIAGRAM						
DATE			 KUDONGHOIST 주식회사 KUK DONG HOIST CO., LTD.						
			DWG. NO.						
			KD18EI002						

POWER CIRCUIT DIAGRAM

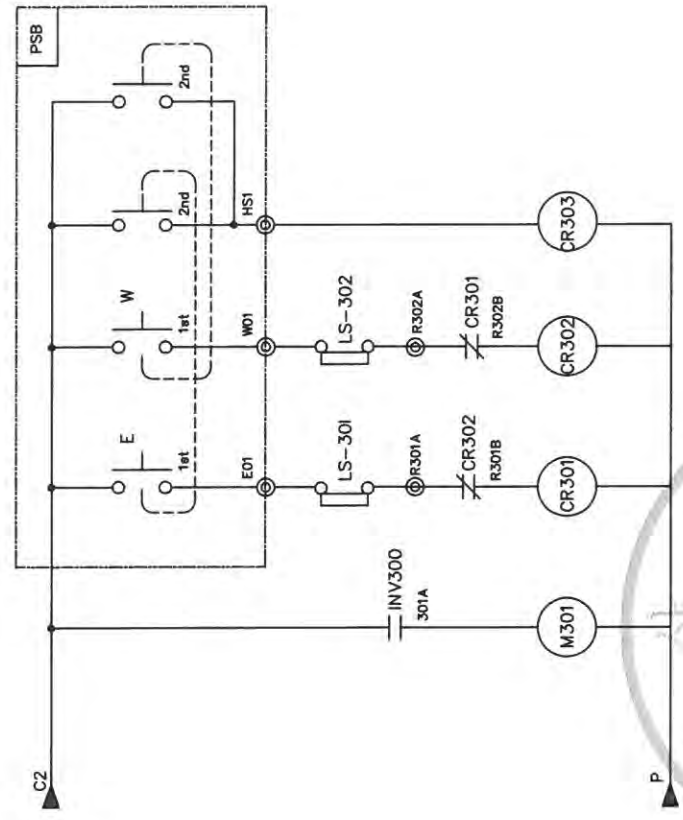
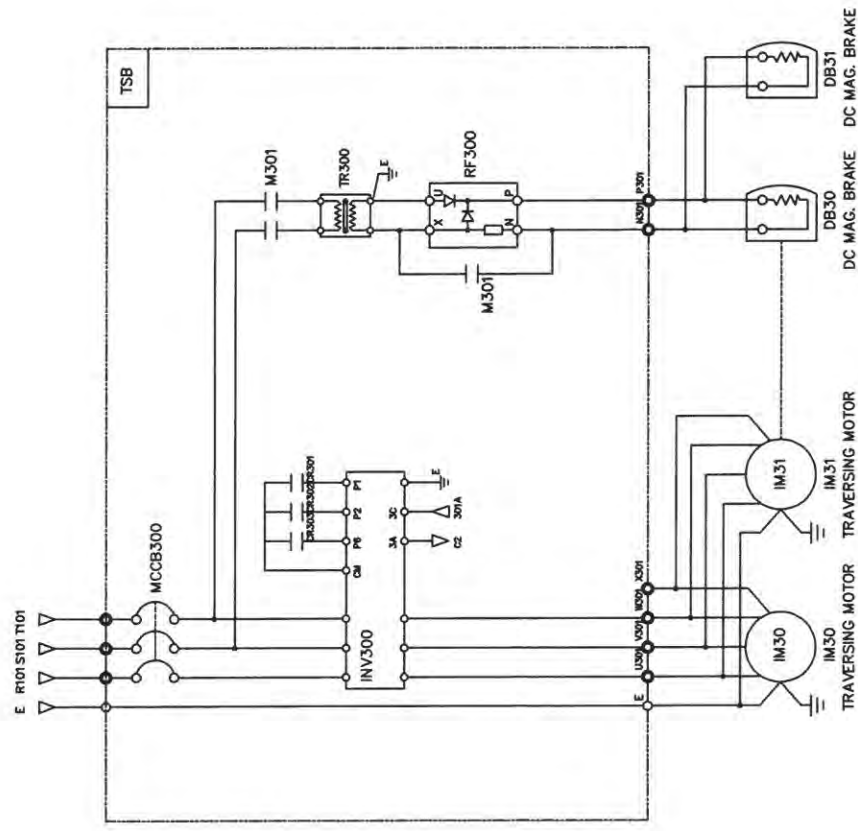
CONTROL CIRCUIT DIAGRAM

BRAKE

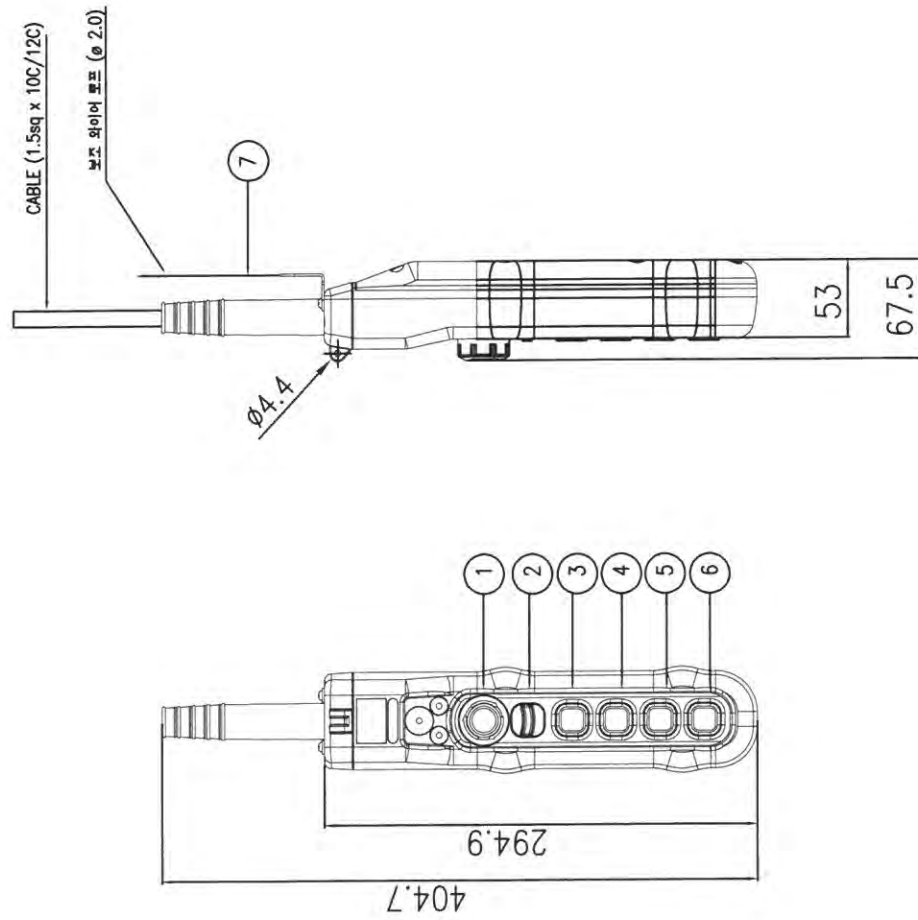
EAST

WEST

HIGH SPEED

[illegible]

법률복제 및 배포금지



* MATERIAL : POLYCARBOBATE(PLASTIC)

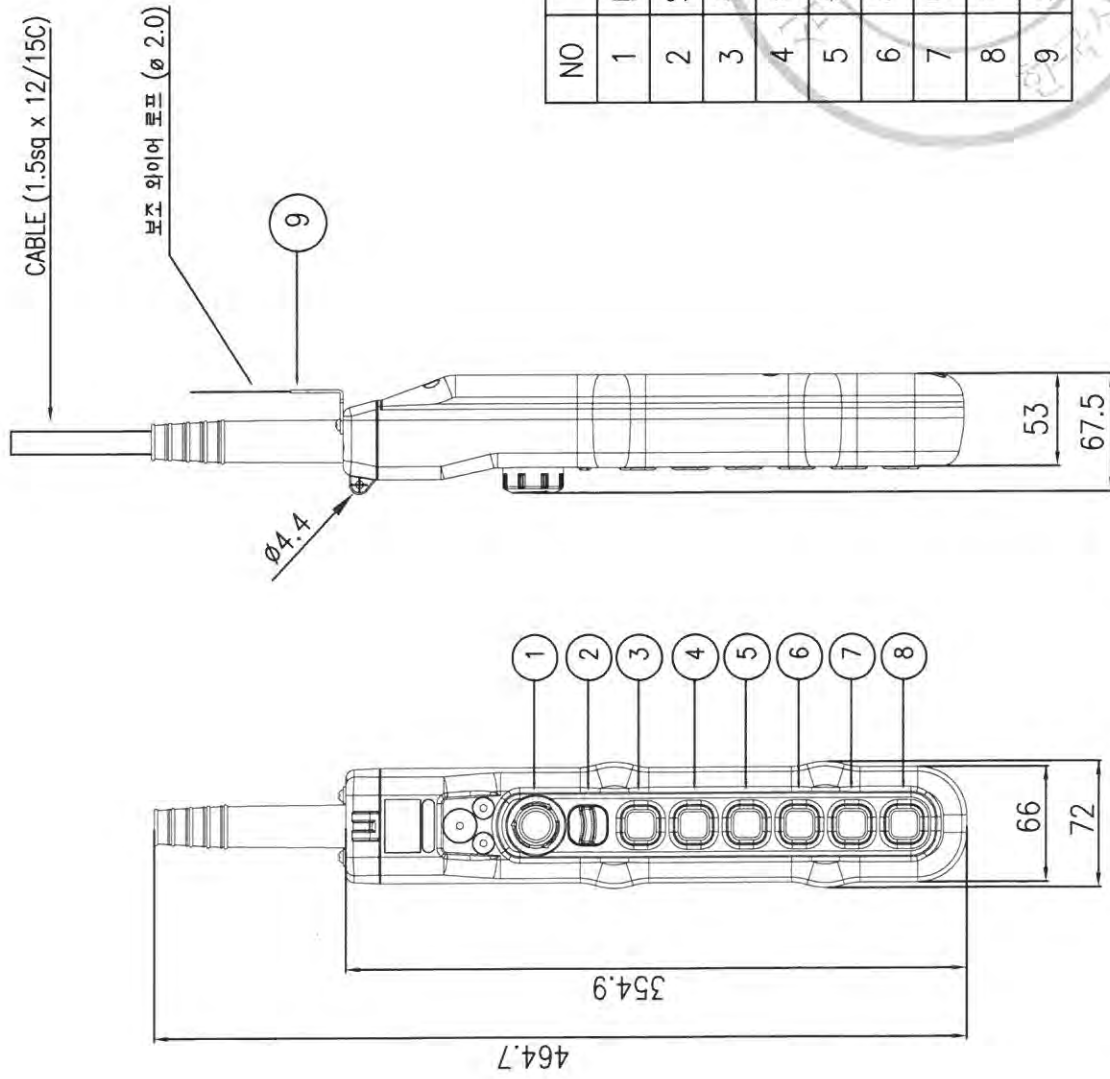
* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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

					CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
					DRAWING TITLE	PENDANT PUSH BUTTON SWITCH						
				LAY OUT								
MK	DATE	REVISIONS	CHK.	APP.								

법률 제 및 배포 금지



색상	구분	조지버튼	표시등
	적색	비상	비상
	황색	비정상	비정상
	녹색	정상	정상
	흰색	의무	의무
흰색, 회색 - 흑색		지정도의미없음	

* MATERIAL : POLYCARBOBATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	BLACK
2	SPARE			
3	상	1PUSH BUTTON 1STEP		
4	하	1PUSH BUTTON 1STEP		
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	ø 2.0		

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

I-BEAM 최대 지지거리



산업재해예방

안전보건공단

KOSHA OCCUPATIONAL SAFETY & HEALTH AGENCY



■ 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	1041.7	1069.7	907
200×150×t9/16	440	962.1	1020.7	837
250×125×t7.5/12.5	470	990	1039	1104.5
250×125×t10/19	560	951.6	1032.8	935.9
300×150×t8/13	640	945.2	1025.5	1089.2
300×150×t10/18.5	750	881.4	1000.4	962.9
300×150×t11.5/22	800	870.7	1017.7	901.2
350×150×t9/15	800	932.4	1052.3	1149.5
350×150×t12/24	990	818.5	1012.6	1006.7
400×150×t10/18	940	1019	1208.5	1143.6
400×150×t12.5/25	1150	815.3	1062	1132.7
450×175×t11/20	1190	943.6	1226.5	1150.6
450×175×t13/26	1370	804	1152	1125

☞ 기본 조건

정격하중 (Kg)	양정 (m)	권상속도 (m/min)	호이스트		작업계수	풍력계수
			자중 (Kg)	풍압면적 (m ²)		
1800	30	10	475	1.8	1.08	1.2

*첨부 강도계산서 참조



[I-BEAM 최대 지지거리 강도계산서]

1. 굽힘 MOMENT 계산

1-1. 수직하중에 의한 굽힘 MOMENT

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

$$\text{※ 작업계수}(\phi) = 1.08$$

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

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

$$\begin{aligned} \text{※ 이동하중 (kg)} &= \text{정격하중} + \text{호이스트 자중} \\ &= 1800 + 475 = 2275 \quad (\text{kg}) \end{aligned}$$

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

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

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

1-2. 풍하중에 의한 굽힘 MOMENT

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

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

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

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

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

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

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

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



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 फल면적 (m^2)	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	182465.42	186028.04	0.41	52.66	7108.48	791.61	115.40
200 × 150 × t9/16	440	0.504	221.76	446	100	13172.54	297351.05	310523.60	0.88	64.00	14079.65	696.24	140.80
250 × 125 × t7.5/12.5	470	0.383	180.01	414	53.9	11421.63	317624.99	329046.62	1.18	71.04	16695.11	794.80	309.74
250 × 125 × t10/19	560	0.555	310.8	585	86	23496.48	378446.80	401943.28	1.40	76.42	21396.48	687.08	248.80
300 × 150 × t8/13	640	0.483	309.12	632	78.4	26707.97	432510.62	459218.59	1.92	88.83	28426.75	726.61	362.59
300 × 150 × t10/18.5	750	0.655	491.25	849	118	49739.06	506848.39	556587.45	2.25	96.71	36267.75	655.58	307.35
300 × 150 × t11.5/22	800	0.768	614.4	978	143	66355.20	540638.28	606993.48	2.40	100.30	40118.40	620.65	280.55
350 × 150 × t9/15	800	0.585	468	870	93.5	50544.00	540638.28	591182.28	2.80	109.85	43939.20	679.52	469.94
350 × 150 × t12/24	990	0.872	863.28	1280	158	115377.37	669039.87	784417.24	3.47	125.73	62235.46	612.83	393.90
400 × 150 × t10/18	940	0.72	676.8	1200	115	85885.92	635249.98	721135.90	3.76	132.77	62403.22	600.95	542.64
400 × 150 × t12.5/25	1150	0.958	1101.7	1580	165	171038.93	777167.53	948206.45	4.60	152.83	87878.40	600.13	532.60
450 × 175 × t11/20	1190	0.917	1091.23	1740	173	175306.10	804199.44	979505.54	5.36	170.86	101662.53	562.93	587.64
450 × 175 × t13/26	1370	1.15	1575.5	2170	231	291388.73	925843.05	1217231.78	6.17	190.20	130289.88	560.94	564.03



불법복제 및 배포금지

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

1. 처짐량 판정 1

판정기준: $L / \sigma > 800$
 $\ast \sigma = \sigma_s + \sigma_d$

2. 처짐량 판정 2

판정기준: $L / \sigma_d > 1000$

3. 최대굽힘응력 판정

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

$\ast$ 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	0.2524	1041.7	1069.7	907
200 × 150 × t9/16	4460	440	0.0263	0.4311	962.1	1020.7	837
250 × 125 × t7.5/12.5	5180	470	0.0224	0.4524	990	1039	1104.5
250 × 125 × t10/19	7310	560	0.0463	0.5422	951.6	1032.8	935.9
300 × 150 × t8/13	9480	640	0.0530	0.6241	945.2	1025.5	1089.2
300 × 150 × t10/18.5	12700	750	0.1012	0.7497	881.4	1000.4	962.9
300 × 150 × t11.5/22	14700	800	0.1327	0.7861	870.7	1017.7	901.2
350 × 150 × t9/15	15200	800	0.0977	0.7602	932.4	1052.3	1149.5
350 × 150 × t12/24	22400	990	0.2319	0.9776	818.5	1012.6	1006.7
400 × 150 × t10/18	24100	940	0.1446	0.7778	1019	1208.5	1143.6
400 × 150 × t12.5/25	31700	1150	0.3277	1.0828	815.3	1062	1132.7
450 × 175 × t11/20	39200	1190	0.2909	0.9702	943.6	1226.5	1150.6
450 × 175 × t13/26	48800	1370	0.5147	1.1892	804	1152	1125

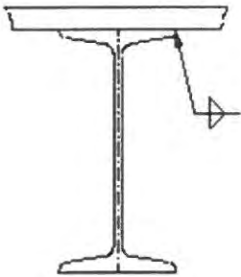
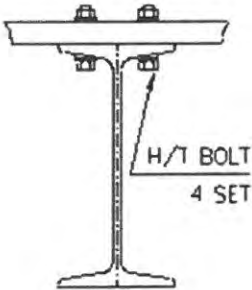
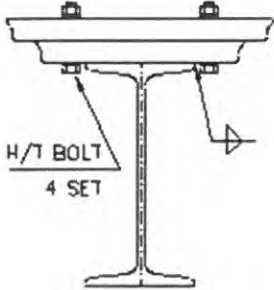
안전보건공단

한국산업안전보건공단

100-100-100 / 100-100-100

■ I-BEAM의 고정방법 및 사양

1. I-BEAM의 고정방법

용접구조	BOLT 체결구조	복합구조
		

2. 기본조건 및 사양

- * 용접이음의 허용응력(필렛용접 효율 포함) : $560\text{kg}/\text{cm}^2$
- * 필렛 용접효율 : 80%
- * H/T BOLT의 허용 인장응력 : $2,500\text{kg}/\text{cm}^2$

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



[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 $Q = 1800$
 HOIST자중 $Q1 = 475$

☞ 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	97.74	2608.5	M12	4	1.13	577.1
200 × 150 × t9/16	221.76	2742.5	M12	4	1.13	606.7
250 × 125 × t7.5/12.5	180.01	2697.4	M12	4	1.13	596.8
250 × 125 × t10/19	310.8	2838.6	M12	4	1.13	628
300 × 150 × t8/13	309.12	2836.8	M12	4	1.13	627.6
300 × 150 × t10/18.5	491.25	3033.5	M12	4	1.13	671.1
300 × 150 × t11.5/22	614.4	3166.5	M12	4	1.13	700.6
350 × 150 × t9/15	468	3008.4	M12	4	1.13	665.6
350 × 150 × t12/24	863.28	3435.3	M12	4	1.13	760
400 × 150 × t10/18	676.8	3233.9	M12	4	1.13	715.5
400 × 150 × t12.5/25	1101.7	3692.8	M12	4	1.13	817
450 × 175 × t11/20	1091.23	3681.5	M12	4	1.13	814.5
450 × 175 × t13/26	1575.5	4204.5	M12	4	1.13	930.2

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	2608.5	0.6	12.5	246
200 × 150 × t9/16	2742.5	0.6	15	215.5
250 × 125 × t7.5/12.5	2697.4	0.6	12.5	254.4
250 × 125 × t10/19	2838.6	0.6	12.5	267.7
300 × 150 × t8/13	2836.8	0.6	15	222.9
300 × 150 × t10/18.5	3033.5	0.6	15	238.4
300 × 150 × t11.5/22	3166.5	0.6	15	248.8
350 × 150 × t9/15	3008.4	0.6	15	236.4
350 × 150 × t12/24	3435.3	0.6	15	269.9
400 × 150 × t10/18	3233.9	0.6	15	254.1
400 × 150 × t12.5/25	3692.8	0.6	15	290.2
450 × 175 × t11/20	3681.5	0.6	17.5	248
450 × 175 × t13/26	4204.5	0.6	17.5	283.2

제 2012-BJ-0009 호



안 전 인 증 서

정호엔지니어링

경기도 광명시 노동사동 440-5

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

품 목

양중기용 과부하방지장치

형식·모델/용량·등급/인증번호

형식·모델

JDL-100

용량·등급

J-2

인증번호

12-AV2BJ-0009

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

아래 주소에서 생산되는 제품에 한함.

정호엔지니어링, 경기도 광명시 노동사동 440-5

2012년 06월 11일

한국산업안전보건공단 이사장



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	9.0 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	11.2 A	
1 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	9.0 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	11.2 A	
1.8 TON	1.8KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	17.6 A	
	2.5KW x 8P	17.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.5 A	
2.8 TON	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.0 A	
	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	25.0 A	
3 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-30	3 SEC	1 SEC	31.0 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	38.4 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-30	3 SEC	1 SEC	31.0 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	38.4 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-30	3 SEC	1 SEC	31.0 A	
	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	38.4 A	

NOTE

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



E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 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	5.2 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.9 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
1 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.2 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.9 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	6.4 A	
1.8 TON	1.8KW x 8P	6.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.1 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
	2.5KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.4 A	
3 TON	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	2.8KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.4 A	
	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 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	23.1 A	
	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	18.0 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	23.1 A	
	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	18.0 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 440V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.5 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.9 A	
1 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.5 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.9 A	
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	10.8 A	
	2.5KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.8 A	
2.8 TON	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.6 A	
	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	
3 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	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.5 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	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.5 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	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.5 A	

NOTE

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



E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 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	
0.5 TON	1.2KW x 8P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.4 A	
	1.5KW x 6P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.1 A	
	2.4KW x 4P	4.8 A	1 DRAVE	SS-06	3 SEC	1 SEC	5.2 A	
1 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.4 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.1 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.2 A	
1.8 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.9 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.5 A	
	2.5KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.5 A	
2.8 TON	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	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	11.5 A	
5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.7 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.5 A	
7.5 TON	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.7 A	
	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.5 A	

NOTE

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



E.O.C.R 권고 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-06	3 SEC	1 SEC	4.2 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.9 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	5.1 A	
1 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.2 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.9 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	5.1 A	
1.8 TON	1.8KW x 8P	5.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.2 A	
	2.5KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.2 A	
2.8 TON	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.2 A	
	2.8KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.2 A	
	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.2 A	
5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.0 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.2 A	
	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	
7.5 TON	4.2KW x 8P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.0 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.2 A	
	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	

NOTE

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



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	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
1.8 TON	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.6 A	CT-1	K, L	5 V.A	
	2.5KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
3 TON	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	

NOTE

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



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	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
1.8 TON	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.1 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	10.3 A	CT-1	K, L	5 V.A	
	2.5KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
3 TON	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	
7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	

NOTE

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



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

NOTE

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



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	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
1.8 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.3 A	5.9 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	
	2.5KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
2.8T	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
3TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	

NOTE

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



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	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
1.8 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.1 A	5.8 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	2.5KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
3 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	
5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	
7.5 TON	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	

NOTE

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



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	2.0 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 - 06	3 SEC	1 SEC	4.25 A	
2.2KW x 6P	12 A	1 DRIVE	SS - 30	3 SEC	1 SEC	9.6 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	8.5 A	
3.7KW x 4P	16 A	1 DRIVE	SS - 30	3 SEC	1 SEC	12 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	24 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 : AC3Φ 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	
		2 DRIVE	SS - 30	3 SEC	1 SEC	2.63A	
2.2KW x 6P	7.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.26 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.0 A	
3.7KW x 4P	9.3 A	1 DRIVE	SS - 30	3 SEC	1 SEC	14 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	9.3 A	
				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 : 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	1.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
0.4KW x 4P	1.4 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.4 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	2.8 A	
0.5KW x 6P	1.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	1.7 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	3.4 A	
0.75KW x 4P	2.0 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.0 A	
		2DRIVE	SS - 06	3 SEC	1 SEC	4.0 A	
1.0KW x 6P	3.3 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.3 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	6.6 A	
1.5KW x 4P	3.7 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.7 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.4 A	
1.5KW x 6P	3.8 A	1 DRIVE	SS - 06	3 SEC	1 SEC	3.8 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	7.6 A	
2.2KW x 4P	5.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	5.0 A	
		2 DRIVE	SS - 30	3 SEC	1 SEC	10 A	
0.8/0.4KW x 4/8P	2.4/2.27 A	1 DRIVE	SS - 06	3 SEC	1 SEC	2.4 A	
			SS - 06	3 SEC	1 SEC	2.27 A	
		2 DRIVE	SS - 06	3 SEC	1 SEC	4.8 A	
			SS - 06	3 SEC	1 SEC	4.54 A	
2.2KW x 6P	6.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	6.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	12.0 A	
3.7KW x 4P	8.0 A	1 DRIVE	SS - 30	3 SEC	1 SEC	8.0 A	
		2DRIVE	SS - 30	3 SEC	1 SEC	16 A	

NOTE

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

E.O.C.R 권고 SETTING 치

* POWER SOURCE : AC3Φ 480V 60Hz

극동호이스트 (주)

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

NOTE

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

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	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	855 RPM
11. FULL LOAD CURRENT	11.0 A
12. STARTING CURRENT AT RATED VOLTAGE	55.0 A
13. MINIMUM STARTING VOLTAGE	200 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	855 RPM
11. FULL LOAD CURRENT	6.4 A
12. STARTING CURRENT AT RATED VOLTAGE	31.9 A
13. MINIMUM STARTING VOLTAGE	345 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	855 RPM
11. FULL LOAD CURRENT	5.5 A
12. STARTING CURRENT AT RATED VOLTAGE	27.5 A
13. MINIMUM STARTING VOLTAGE	400 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	855 RPM
11. FULL LOAD CURRENT	5.3 A
12. STARTING CURRENT AT RATED VOLTAGE	26.3 A
13. MINIMUM STARTING VOLTAGE	418 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	855 RPM
11. FULL LOAD CURRENT	5.1 A
12. STARTING CURRENT AT RATED VOLTAGE	25.3 A
13. MINIMUM STARTING VOLTAGE	436 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	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

FORNED ONLY FOR THE PURPOSE OF SAFETY OF THE PRODUCT

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 RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE 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	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 °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	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



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.

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



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 호이스트 (국내품)	
형 식 (규 격)	KD1.8-MH	용 량 (등 급)	1.8 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☒ 서면심사

☐ 기술능력 및 생산체계 심사

☐ 개별 제품심사

☐ 개별 제품심사(제작중)

☐ 형식별 제품심사

결과가 ☒ 적 합

☐ 부적합

합을 통지합니다.

2018년 06월 12일

인증심사원

이승태

이승태
(서명 또는 인)

한국산업안전보건공단 중부지역본부장





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 호이스트 (국내품)				
형 식 (규 격)	KDV1M-1T		용 량 (등 급)	1 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☒ 서면심사

☐ 기술능력 및 생산체계 심사

☐ 개별 제품심사

☐ 개별 제품심사(제작중)

☐ 형식별 제품심사

결과가 ☒ 적 합

☐ 부적합

함을 통지합니다.

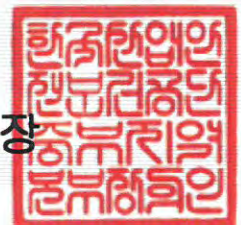
2018년 06월 15일

인증심사원

이승태

이승태
(서명 또는 인)

한국산업안전보건공단 중부지역본부장



서 면 심 사 서 류

형식 번호 : KD1.8-MH

극 동 호 이 스톱 (주)



工場 : 경기도 안산시 단원구 해봉로 119 (성곡동)

電話 : 031) 491 - 5311

선입새해에 FAS : 031) 494 - 5315

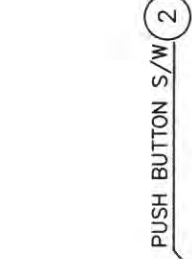
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

동일 형식 일람 표

사업장명		극동호이스트(주)	개정일자 및 번호			인증번호
형식 및 모델			동일 형식 인정범위 및 내역			
형식	모델		권상속도(m/min)	횡행속도(m/min)	양정(m)	횡행방식
KD1.8 - MH	KD1.8 - L36 - M		고속: 9(m/min)	고속: 24(m/min) 2~24(m/min) 저속: 16(m/min) 2~16(m/min)	36	모터구동식
	KD1.8 - L36 - M - H				42	
	KD1.8 - L42 - M				45	
	KD1.8 - L42 - M - H		저속: 4.5(m/min)	듀얼고속:24/12(m/min) 듀얼저속:16/8(m/min)		
	KD1.8 - L45 - M					
	KD1.8 - L45 - M - H					
비 고						



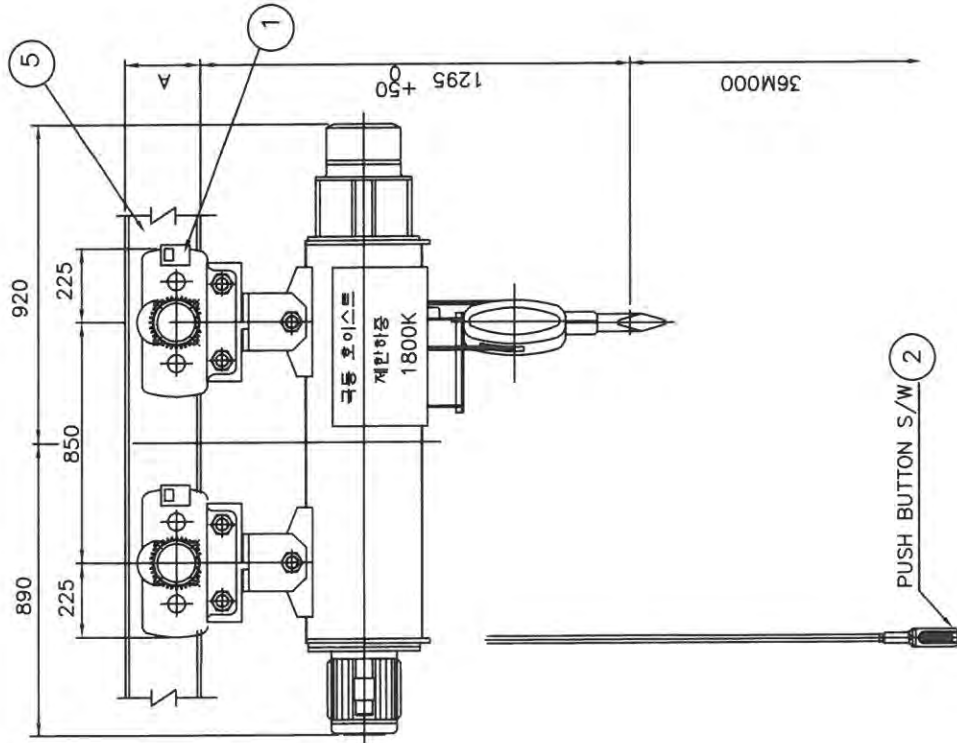


SPECIFICATION		
RATED LOAD		1.8 TON
TESTING LOAD		2.25 TON
	LIFT	36
HOISTING	SPEED	9 M/MIN
	HIGH MOTOR	5.5 KW x 4P
	LOW SPEED	4.5 M/MIN
	MOTOR	2.8 KW x 8P
TRAVERSING	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)
	HIGH MOTOR	0.75 KW x 4 P (2UNIT)
	LOW SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)
	MOTOR	0.5 KW x 6 P (2UNIT)
WIRE ROPE	DUAL SPEED	24/12 M/MIN
	HIGH MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)
	DUAL SPEED	16/8 M/MIN
	LOW MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)
		(6x36) ø10 x 2 FALLS
POWER SOURCE	AC3ø 220V(380,440,460,480)V 50Hz	
COLOR		
GROSS WEIGHT	10B3/5 525 KG	

호출번호 : KD1.8-MH

5	J-BEAM	SS400		—				TABLE	참조
4	UPPER LIMIT S/W	SS400		1					
3	SAFETY LATCH	SPC		1					
2	EMERGENCY S/W	—		1					
1	LOAD LIMITER	—		1					
NO.	DESCRIPTIONS	MTL	SET QTY	UNIT	TOTAL	REMARKS			
PROJECT		DATE							
TITLE		KD2 - L36 - M				SCALE			
DRAWN		ARRANGEMENT DRAWING FOR HOIST				A3/20 /			
		DESIGNED				CHECKED			
		APPROVED				REF. DRAWING			
		DRAWING NO.				SHEET NO.			
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						KD2M3600			

TRAVERSING I – BEAM	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 250 x 125 x 7.5	5180	415	MAX 4.6M	465
I 300 x 150 x 10	12700	849	MAX 7.3M	475
I 350 x 150 x 9	15200	871	MAX 7.6M	475
I 400 x 150 x 10	24100	1200	MAX 9.0M	475
I 450 x 175 x 11	39200	1740	MAX 11.4M	485

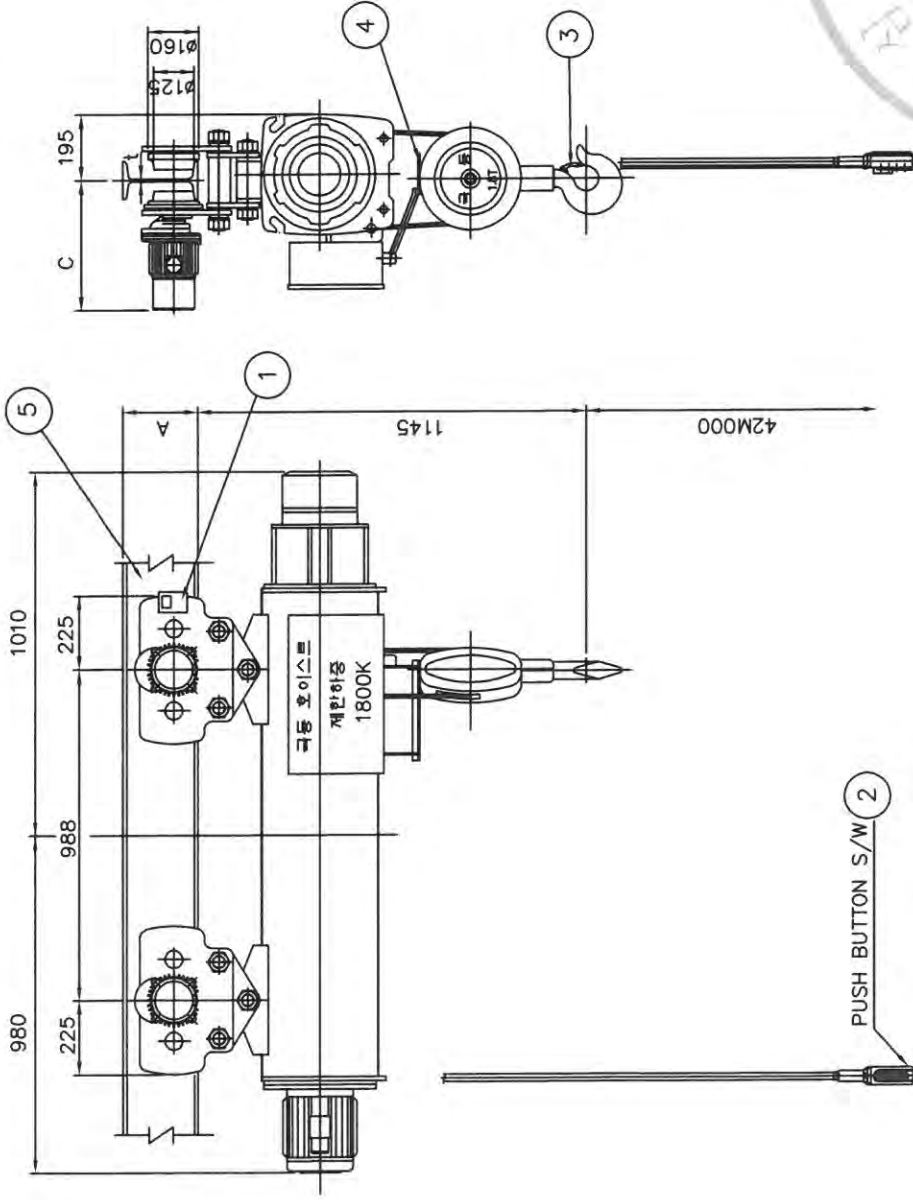


SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		36	
HOISTING	HIGH	SPEED	9 M/MIN
		MOTOR	5.5 KW x 4P
	LOW	SPEED	4.5 M/MIN
		MOTOR	2.8 KW x 8P
TRAVERSING	HIGH	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)
		MOTOR	0.75 KW x 4 P (2UNIT)
	LOW	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)
		MOTOR	0.5 KW x 6 P (2UNIT)
	DUAL	SPEED	24/12 M/MIN
	HIGH	MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)
	DUAL	SPEED	16/8 M/MIN
	LOW	MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)
WIRE ROPE		(6x36) ϕ10 x 2 FALLS	
POWER SOURCE		AC3ϕ 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		530 KG	

표시번호 : KD1.8-MH

5	J-BEAM	SS400		—					TABLE	참조
4	UPPER LIMIT S/W	SS400		1						
3	SAFETY LATCH	SPC		1						
2	EMERGENCY S/W	—		1						
1	LOAD LIMITER	—		1						
NO.	DESCRIPTIONS	M'TL	SET	UNIT	TOTAL	REMARKS				
			QTY	WEIGHT	KG.					
PROJECT						DATE				
TITLE		KD2 - L36 - M - H				SCALE				
ARRANGEMENT DRAWING FOR HOIST						A3 / 20 /				
DRAWN	DESIGNED	CHECKED	APPROVED			REF DRAWING				
 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.		KD2M3600H				

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 4.6M	465
I	300 x 150 x 10	12700	849	MAX 7.3M	475
I	350 x 150 x 9	15200	871	MAX 7.6M	475
I	400 x 150 x 10	24100	1200	MAX 9.0M	475
I	450 x 175 x 11	39200	1740	MAX 11.4M	485



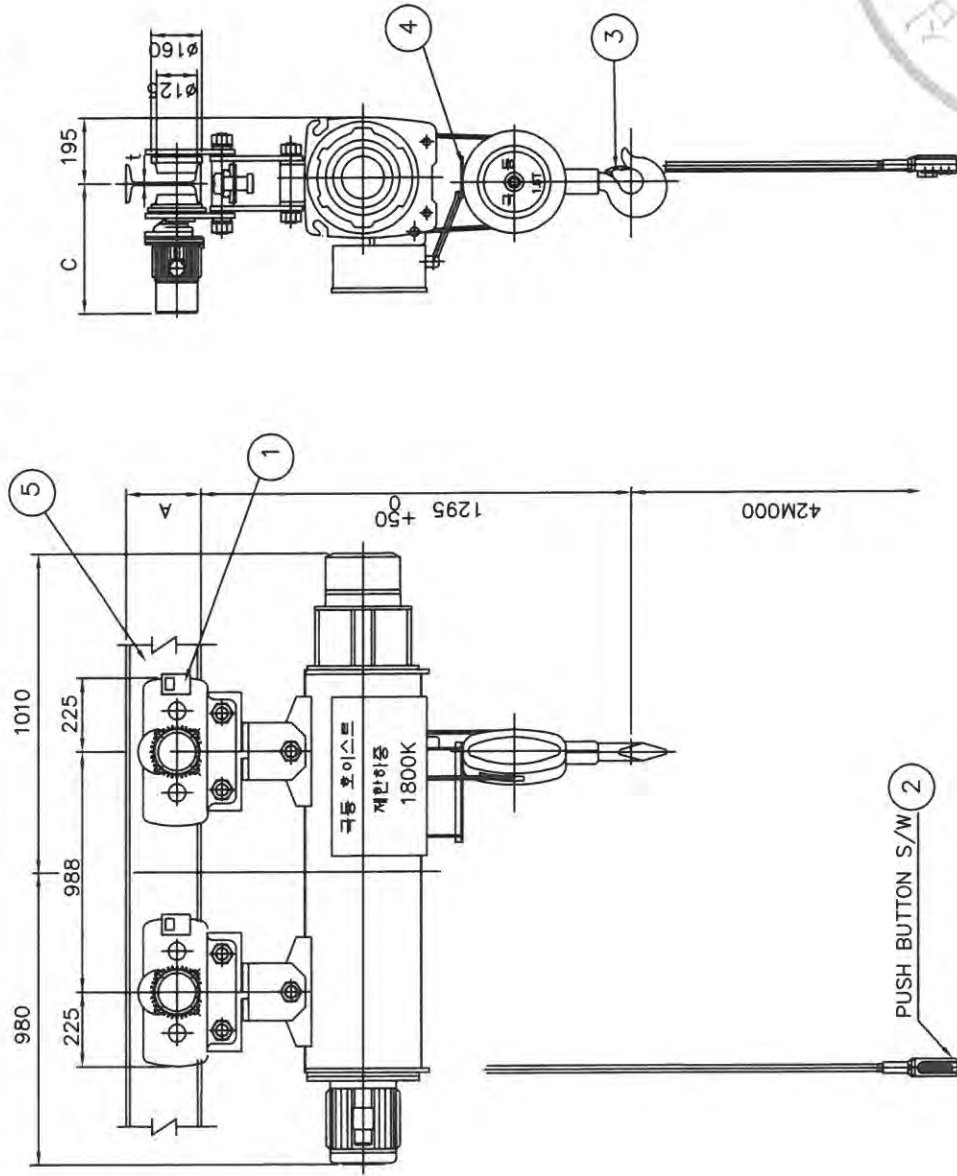
SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		42	
HOISTING	SPEED	9 M/MIN	
	MOTOR	5.5 KW x 4P	
	SPEED	4.5 M/MIN	
	MOTOR	2.8 KW x 8P	
TRAVERSING	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)	
	MOTOR	0.75 KW x 4 P (2UNIT)	
	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)	
	MOTOR	0.5 KW x 6 P (2UNIT)	
TRAVERSING	SPEED	24/12 M/MIN	
	MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)	
	SPEED	16/8 M/MIN	
	MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)	
WIRE ROPE		(6x36) ø10 x 2 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		560 KG	

형식번호 : KD1.8-MH

5	J-BEAM	SS400	—	—	TABLE	참조
4	UPPER LIMIT S/W	SS400	1	—		
3	SAFETY LATCH	SPC	1	—		
2	EMERGENCY S/W	—	1	—		
1	LOAD LIMITER	—	1	—		
NO.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS
PROJECT						
DATE						
TITLE						
KD1.8 - L42 - M						
SCALE						
A3/20 /						
ARRANGEMENT DRAWING FOR HOIST						
DRAWN	DESIGNED	CHECKED	APPROVED	REF	DRAWING	
SHEET NO. DRAWING NO.						
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						
KD18M4200						

TRAVERSING I - BEAM	Ix (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 250 x 125 x 7.5	5180	415	MAX 4.6M	465
I 300 x 150 x 10	12700	849	MAX 7.3M	475
I 350 x 150 x 9	15200	871	MAX 7.6M	475
I 400 x 150 x 10	24100	1200	MAX 9.0M	475
I 450 x 175 x 11	39200	1740	MAX 11.4M	485





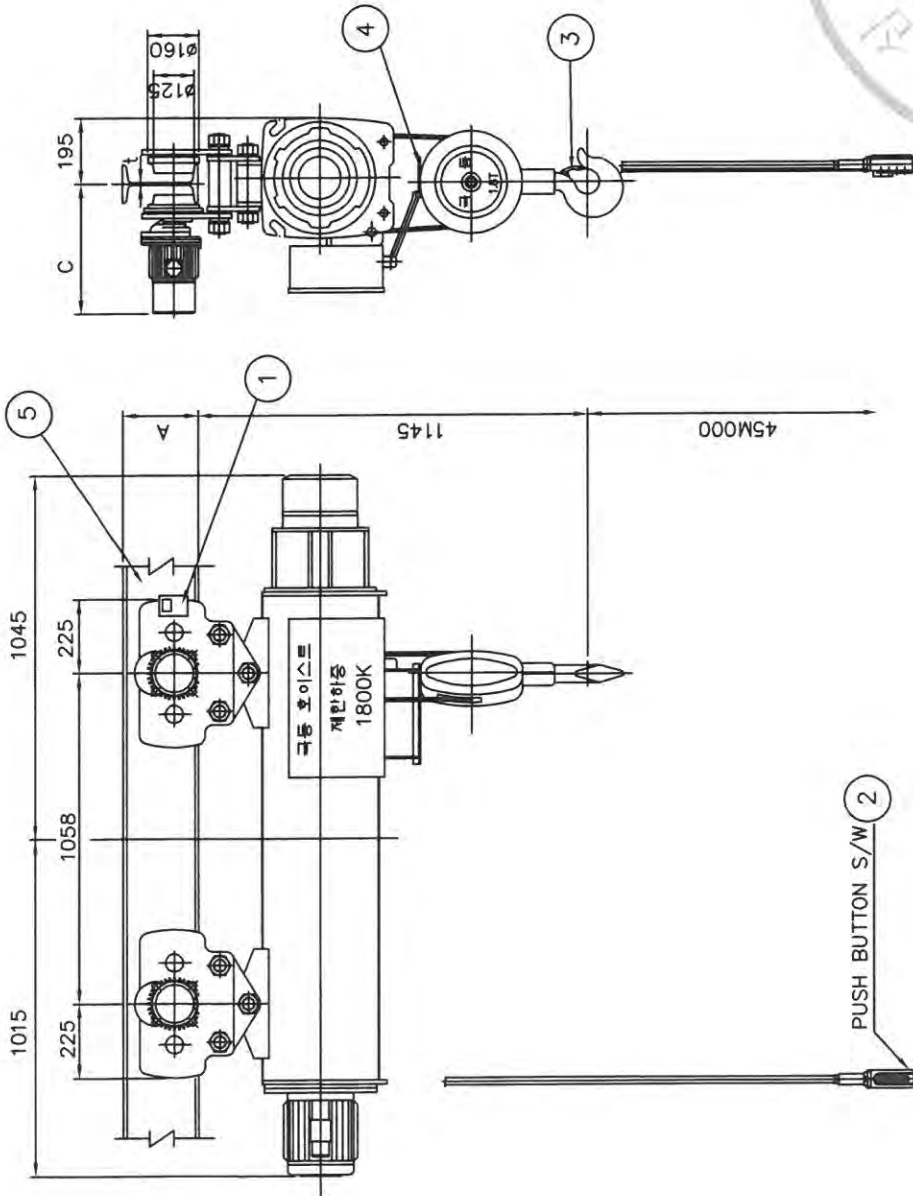
SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		42	
HOISTING	SPEED	9 M/MIN	
	MOTOR	5.5 KW x 4P	
	SPEED	4.5 M/MIN	
	MOTOR	2.8 KW x 8P	
TRAVERSING	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)	
	MOTOR	0.75 KW x 4 P (2UNIT)	
	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)	
	MOTOR	0.5 KW x 6 P (2UNIT)	
TRAVERSING	SPEED	24/12 M/MIN	
	MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)	
	SPEED	16/8 M/MIN	
	MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)	
WIRE ROPE		(6x36) ø10 x 2 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		565 KG	

형식번호 : KD1.8-MH

5	J-BEAM	SS400	—	—	TABLE	참조
4	UPPER LIMIT S/W	SS400	1	—		
3	SAFETY LATCH	SPC	1	—		
2	EMERGENCY S/W	—	1	—		
1	LOAD LIMITER	—	1	—		
NO.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	TOTAL	REMARKS
PROJECT						
DATE						
TITLE						
KD1.8 - L42 - M - H						
SCALE						
A3/20 /						
ARRANGEMENT DRAWING FOR HOIST						
DRAWN						
DESIGNED						
CHECKED						
APPROVED						
REF DRAWING						
SHEET NO.						
DRAWING NO.						
극동호이스트 주식회사						
KUK DONG HOIST CO., LTD.						
KD18M4200H						

TRAVERSING I - BEAM	Ix (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 250 x 125 x 7.5	5180	415	MAX 4.6M	465
I 300 x 150 x 10	12700	849	MAX 7.3M	475
I 350 x 150 x 9	15200	871	MAX 7.6M	475
I 400 x 150 x 10	24100	1200	MAX 9.0M	475
I 450 x 175 x 11	39200	1740	MAX 11.4M	485





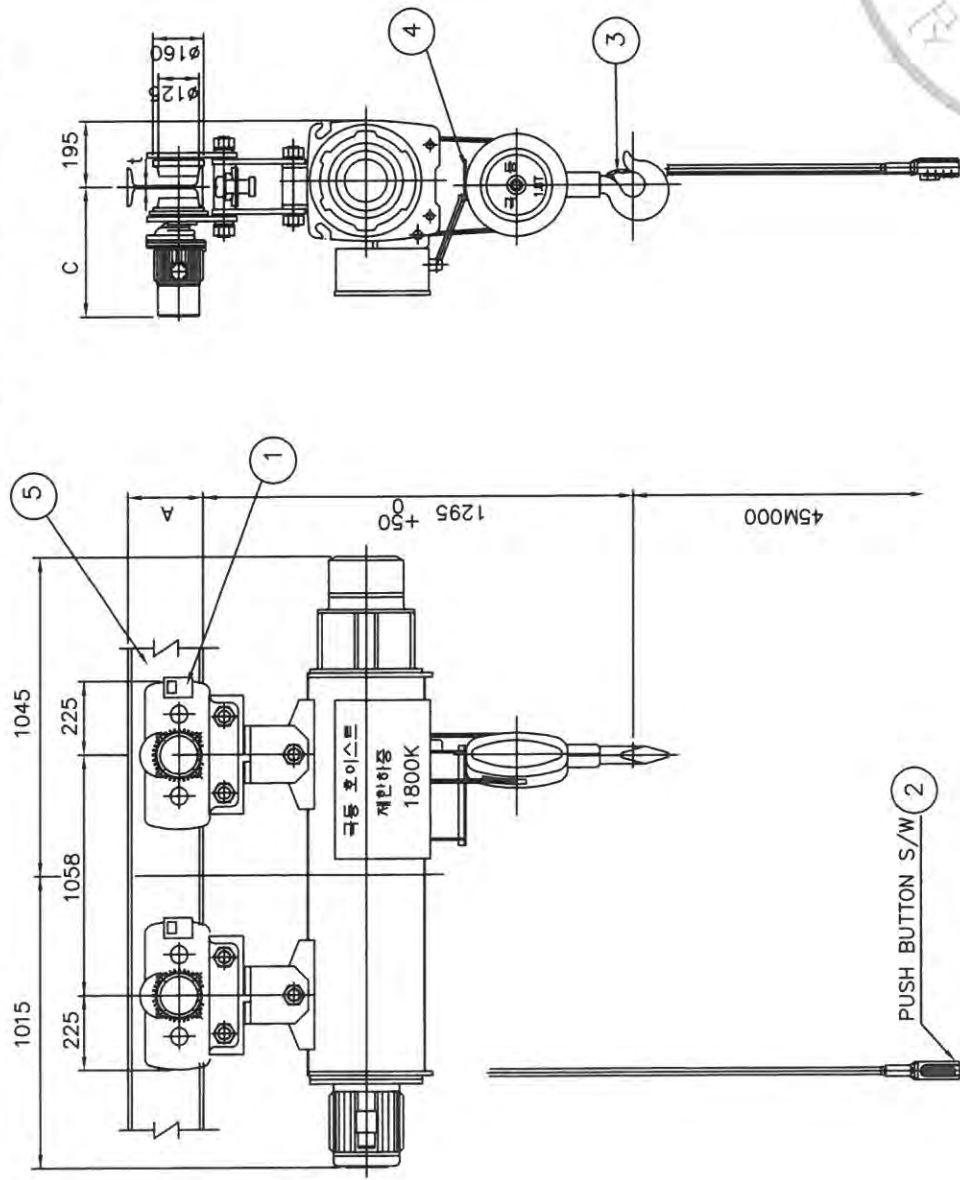
SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		45	
HOISTING	SPEED	9 M/MIN	
	MOTOR	5.5 KW x 4P	
	SPEED	4.5 M/MIN	
	MOTOR	2.8 KW x 8P	
TRAVERSING	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)	
	MOTOR	0.75 KW x 4 P (2UNIT)	
	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)	
	MOTOR	0.5 KW x 6 P (2UNIT)	
TRAVERSING	SPEED	24/12 M/MIN	
	MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)	
	SPEED	16/8 M/MIN	
	MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)	
WIRE ROPE		(6x36) ø10 x 2 FALLS	
POWER SOURCE		AC3ø 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		575 KG	

형식번호 : KD1.8-MH

5	J-BEAM	SS400	—	—	TABLE	한조			
4	UPPER LIMIT S/W	SS400	1	—					
3	SAFETY LATCH	SPC	1	—					
2	EMERGENCY S/W	—	1	—					
1	LOAD LIMITER	—	1	—					
NO.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS			
PROJECT									
DATE									
TITLE									
KD1.8 - L45 - M									
SCALE									
A3/20 /									
ARRANGEMENT DRAWING FOR HOIST									
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING					
SHEET NO. DRAWING NO.									
극동호이스트 주식회사 KUK DONG HOIST CO., LTD. KD18M4500									

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 4.6M	465
I 300 x 150 x 10	12700	849	MAX 7.3M	475
I 350 x 150 x 9	15200	871	MAX 7.6M	475
I 400 x 150 x 10	24100	1200	MAX 9.0M	475
I 450 x 175 x 11	39200	1740	MAX 11.4M	485





SPECIFICATION			
RATED LOAD		1.8 TON	
TESTING LOAD		2.25 TON	
LIFT		45	
HOISTING	HIGH	SPEED	9 M/MIN
		MOTOR	5.5 KW x 4P
	LOW	SPEED	4.5 M/MIN
		MOTOR	2.8 KW x 8P
TRAVERSING	HIGH	SPEED	24 M/MIN (INVERTER : 2~24 M/MIN)
		MOTOR	0.75 KW x 4 P (2UNIT)
	LOW	SPEED	16 M/MIN (INVERTER : 2~16 M/MIN)
		MOTOR	0.5 KW x 6 P (2UNIT)
	DUAL	SPEED	24/12 M/MIN
	HIGH	MOTOR	0.8/0.4 KW x 4/8 P (2UNIT)
	DUAL	SPEED	16/8 M/MIN
	LOW	MOTOR	0.5/0.25 KW x 6/12 P (2UNIT)
WIRE ROPE		(6x36) ϕ 10 x 2 FALLS	
POWER SOURCE		AC3 ϕ 220V(380,440,460,480)V 60Hz	
COLOR		10B3/5	
GROSS WEIGHT		580 KG	

호출번호 : KD1.8-MH

5	J-BEAM	SS400	—						TABLE	참조
4	UPPER LIMIT S/W	SS400	1							
3	SAFETY LATCH	SPC	1							
2	EMERGENCY S/W	—	1							
1	LOAD LIMITER	—	1							
NO.	DESCRIPTIONS	MT'L	SET/SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS				
PROJECT						DATE				
TITLE						SCALE				
KD1.8 - L45 - M - H						A3/20 /				
ARRANGEMENT DRAWING FOR HOIST						REF. DRAWING				
DRAWN	DESIGNED	CHECKED	APPROVED							
				SHEET NO.		DRAWING NO.				
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				KD18M4500H						

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 4.6M	465
I 300 x 150 x 10		12700	849	MAX 7.3M	475
I 350 x 150 x 9		15200	871	MAX 7.6M	475
I 400 x 150 x 10		24100	1200	MAX 9.0M	475
I 450 x 175 x 11		39200	1740	MAX 11.4M	485

ELECTRICAL SPECIFICATION

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

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

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440,460,480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	5.5KW x 4P	22.80 A	4.0 sq	12.20 A	4.0 sq	10.5 A	10.0 A	9.6 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	2.8KW x 8P	17.70 A	4.0 sq	10.30 A	4.0 sq	8.9 A	7.7 A	7.3 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	2.5 sq	2.40 A	2.5 sq	2.00 A	2.00 A	1.90 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
	LOW	3.40 A	2.5 sq	2.00 A	2.5 sq	1.70 A	1.70 A	1.60 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
	DUAL HIGH	4.80 A	2.5 sq	2.78 A	2.5 sq	2.40 A	2.30 A	2.30 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
	DUAL LOW	3.20 A	2.5 sq	1.85 A	2.5 sq	1.80 A	1.78 A	1.76 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
CONTROL CIRCUIT		1.0 A	1.5 sq	0.5 A	1.5 sq	0.5 A	1.5 A	0.5 A	1.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL		33.40 A	6.0 sq	18.26 A	4.0 sq	15.80 A	16.10 A	14.70 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	

※ SUB TOTAL은 TRAVERSING MOTOR 중 전류값이 가장 높은 DUAL HIGH의 고속 전류값을 적용하여 계산함

5	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		VCT 4SQ x 1C (220V : 6SQ x 1C)	
6		HOISTING MOTOR WITH EARTH		VCT 4.0SQ x 1C	
7		TRAVERSING MOTOR WITH EARTH		VCT 2.5SQ x 1C	

* CV CABLE 4C중 1C는 EARTH로 사용함.

—NOTE—

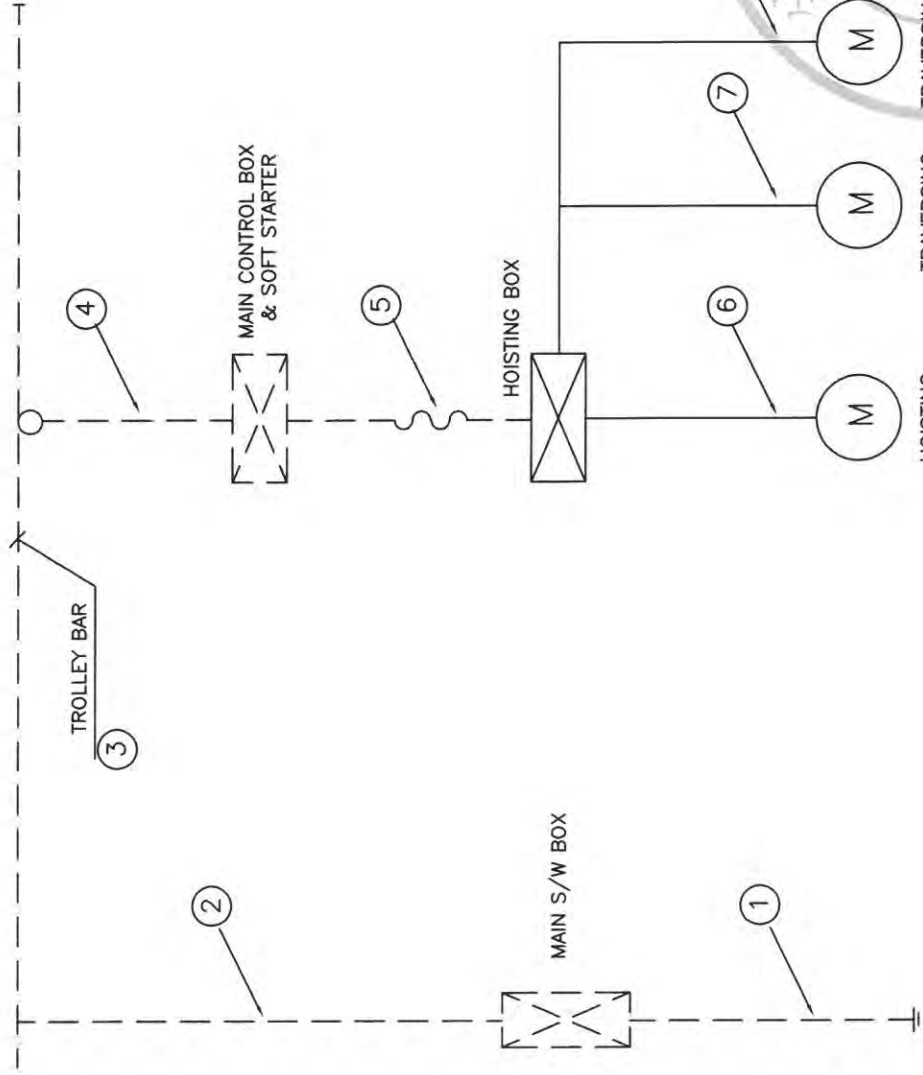
접지

1. 전기장치 외함접지는 접지단자를 이용하여 설치해야 하며

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

2. 접지단자에는 다음중 하나의 방법으로 표기

- 1) 기호로 표현하는 경우: $\oplus$
- 2) 문자로 표기하는 경우: PE
- 3) 부색 또는 색칠하여 표시



등전위접지

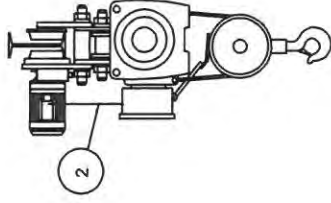
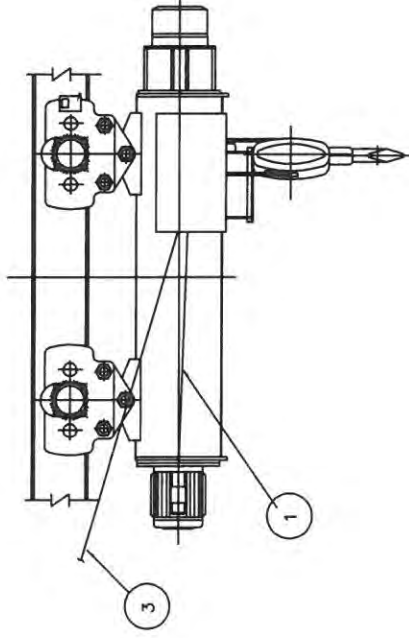
1. 전기장비와 기계의 노출된 모든 도전부는 보호봉팅회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.

2. 보호본영외로는 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]

* MAIN POWER : AC 3PH 220V,380V,440V460V,480V 60Hz



접지

1. 전기장치 외합접지는 접지단자를 이용하여 설치해야 하며

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

2. 접지단자에는 다음 하나의 항목으로 표기

- 1) 기호로 표현하는 경우: $\oplus$
- 2) 문자로 표기하는 경우: PE
- 3) 녹색 또는 노랑색 혼합 접지선

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

1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.

2. 보호본딩회로는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

NO	CABLE					REMARK
	TYPE	SIZE				
		220V	380V	TYPE		
		4.0sqx4c	4.0sqx5c	VCT	440V,460V,480V	
1	VCT	4.0sqx7c	2.5sqx7c	VCT	4.0sqx5c	HOISTING MOTOR WITH EARTH
2	VCT	6sqx4c	4.0sqx4c	VFCT	2.5sqx7c	T/S MOTOR WITH EARTH
3	VFCT				4.0sqx4c	MAIN POWER WITH EARTH

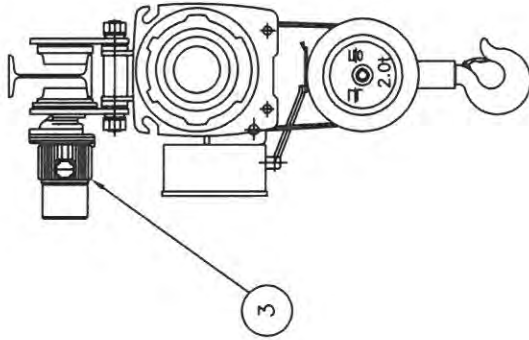
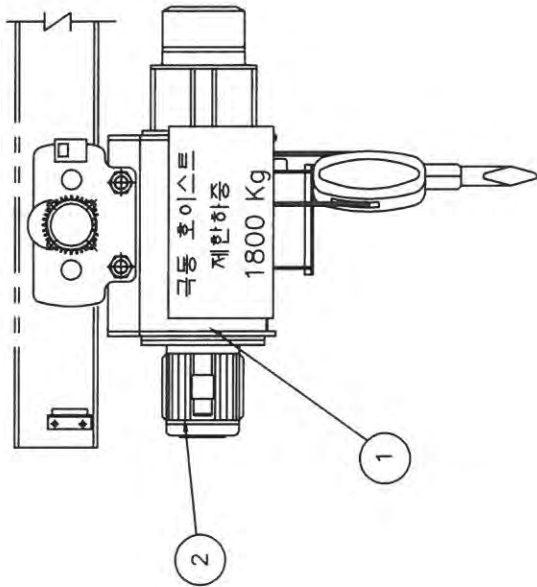
시험대상 전선의 최소 유효단면적	최소전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

[illegible]

KD1.8E06001

불법복제 및 배포금지

* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz



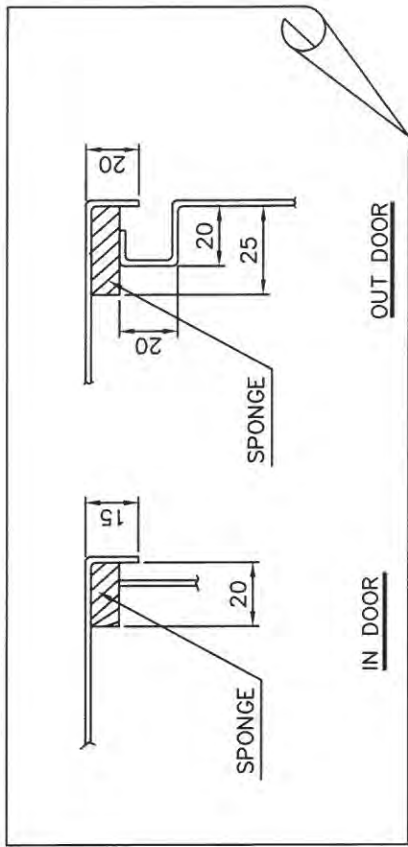
ELECTRIC WIRE ROPE HOIST									
									
MODEL	RATING		min						
CAPACITY	Kg	LIFT	m						
HOIST SPEED	m/min	POWER SOURCE	V	Hz					
HOIST MOTOR	Kw	P	AMP.S R&T HOIST	A					
TRAV.SPEED	m/min		AMP.S R&T TRAV.	A					
TRAV.MOTOR	Kw	P	WIRE ROPE	Ø					
WIDTH OF RAIL	mm	WEIGET	Kg						
DATE	SERIAL								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

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	
KUKDONG HOIST CO.,LTD			

 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	
KUKDONG HOIST CO.,LTD			

A						CUSTOMER						SCALE		DATE		ORDER NO.	
A												NONE					
A																	
A																	
WK		DATE		REVISIONS		CHK.		APP.				DWG. NO		KUKDONG HOIST CO., LTD.		KD18E601	

ADR'S NO.	
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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,HIV |
| 6.외함 개방 구조는 다음과 같다. |
| 1) 외함 개방시 충전 부분이 차단되도록 한다. |
| 2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의 |
| 직접 접촉 방호가 되어있을것. |

[illegible]

LAY-OUT

NOTE 1. 전선의 색상은 다음과 같다.

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

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

3. 제어용 전선 : 1.5mm KIV,HIV
4. 제어시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같음.

- 1) 외함 개방시 중전부분이 차단되도록 함.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호로

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

[illegible]

Exploded view diagram of the control cabinet for the 1000 Series. The diagram shows the main cabinet frame, a terminal block, a power supply unit, a control unit, and various mounting brackets and screws. Callouts 1 through 16 point to specific parts:

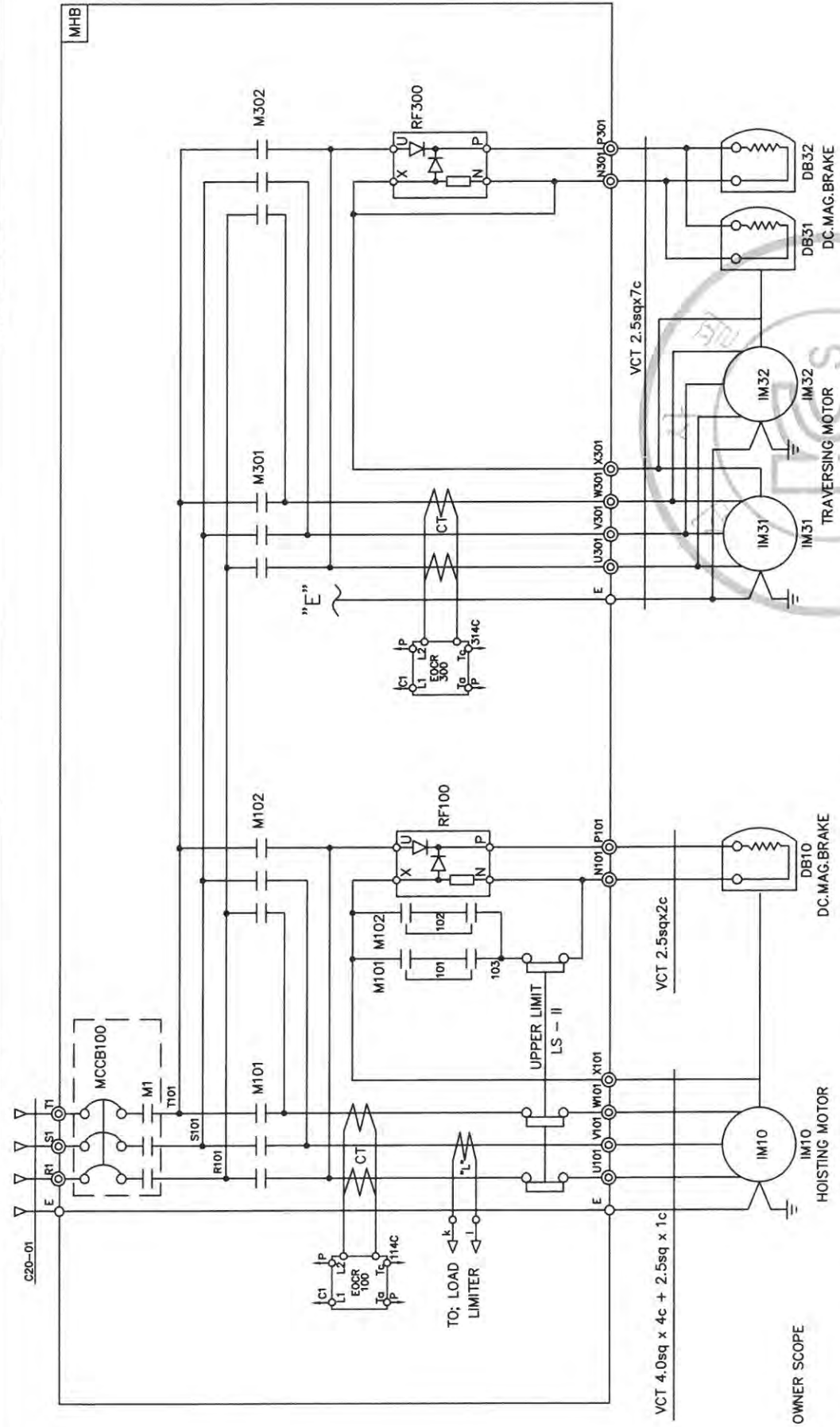
- 1: Control unit
- 2: Mounting bracket
- 3: Terminal block
- 4: Mounting bracket
- 5: Mounting bracket
- 6: Mounting bracket
- 7: Mounting bracket
- 8: Mounting bracket
- 9: Mounting bracket
- 10: Mounting bracket
- 11: Mounting bracket
- 12: Mounting bracket
- 13: Mounting bracket
- 14: Mounting bracket
- 15: Mounting bracket
- 16: Mounting bracket

NOTE

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

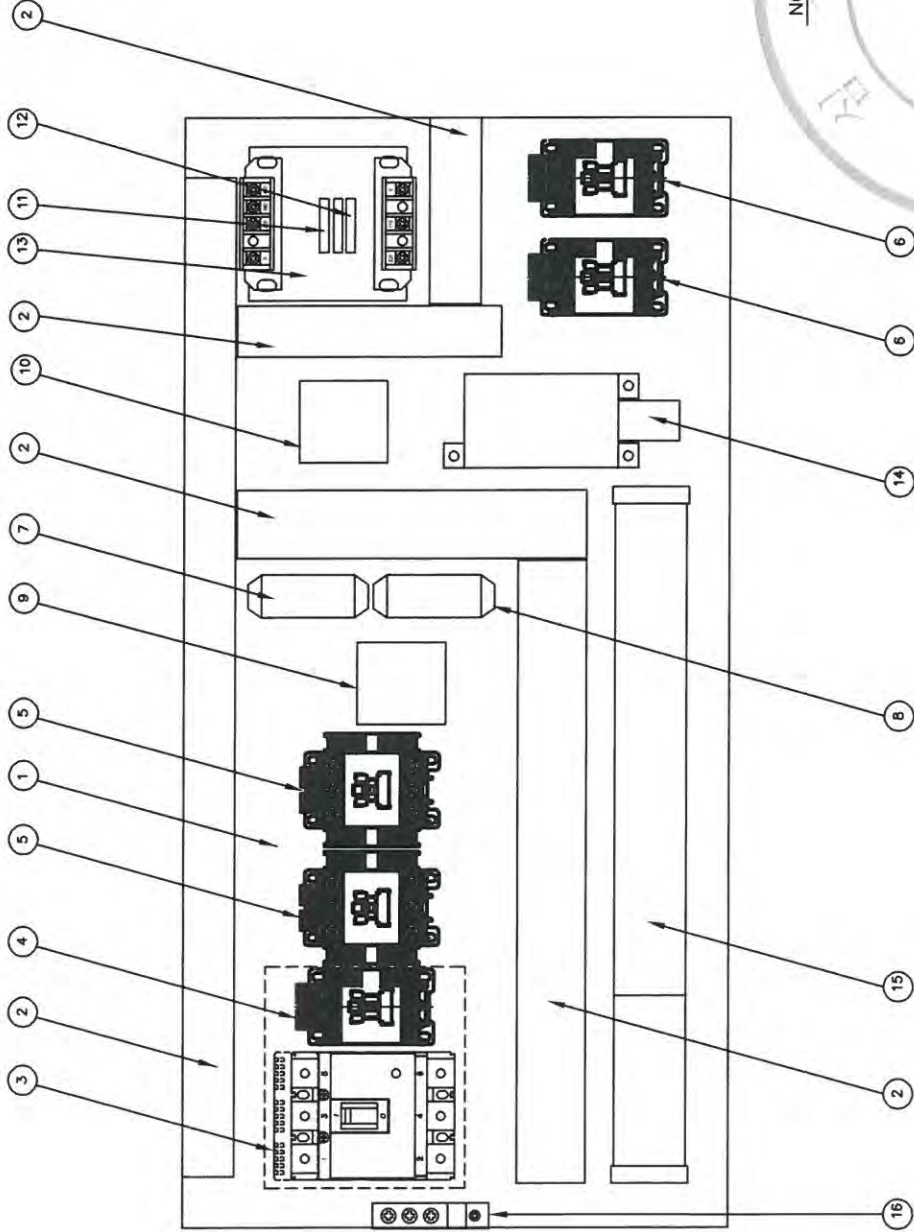
1. UPPER LIMIT LS-1,LS-2의 접점 허용 전류 용량: AC 600V, 75A
2. POWER SOURCE : AC. 3 ϕ 380V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018 Ω

[illegible]



SPECIFICATION SYMBOLS DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE		MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
							F11, F12	F13							
1.8TON AC 3PH 380V 60Hz	HOIST	IM 10	IM 31, 32	DB10, 31, 32	MCCB100	TR 1	1A	3A	DMC22b	DMC40b	AC 600V 75A	SS-05	SR-60	JDL-100	VFCT 4.0sqx4c
1.8TON AC 3PH 380V 60Hz		5.5KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/20AT	380/110, 120V/100VA	1A	3A	DMC22b	DMC40b	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 4.0sqx4c
1.8TON AC 3PH 380V 60Hz		2.8KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/20AT	380/110, 120V/100VA	1A	3A	DMC22b	DMC40b	AC 600V 75A	SS-30	SR-30	JDL-100	VFCT 4.0sqx4c
SELECTION MAKER					LS	SHINHAN	-			DONG-A	KUKDONG	ASAN		JUNGHO	DAEDUCK
				CUSTOMER	KD1.8-M-380V (MONO)										
				DRAWING TITLE	HOISTING & T/S POWER CONTROL CIRCUIT										
					DIAGRAM										
DATE	REVISIONS	CHK.	APP.		 국동호이스트 주식회사 KUK DONG HOIST CO., LTD. DWG. NO										
					KD2E34										

불법복제 및 배포금지



NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	이 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B (MCCB)	ABE33e/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	EOCR (DOCR)	SS-30	1	HOISTING
10	EOCR (DOCR)	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	35A,15A		
16	EARTH TERMINAL	3x2Dx40	1	

NOTE 1. 전선의 색상은 다음과 같다.

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

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 1.5sq

3. 제어용 전선 : 1.5mm KIV,HIV

4. 제작시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 중전부분이 차단되도록 함것.

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

NOTE

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

2. POWER SOURCE : AC. 3ø 440V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

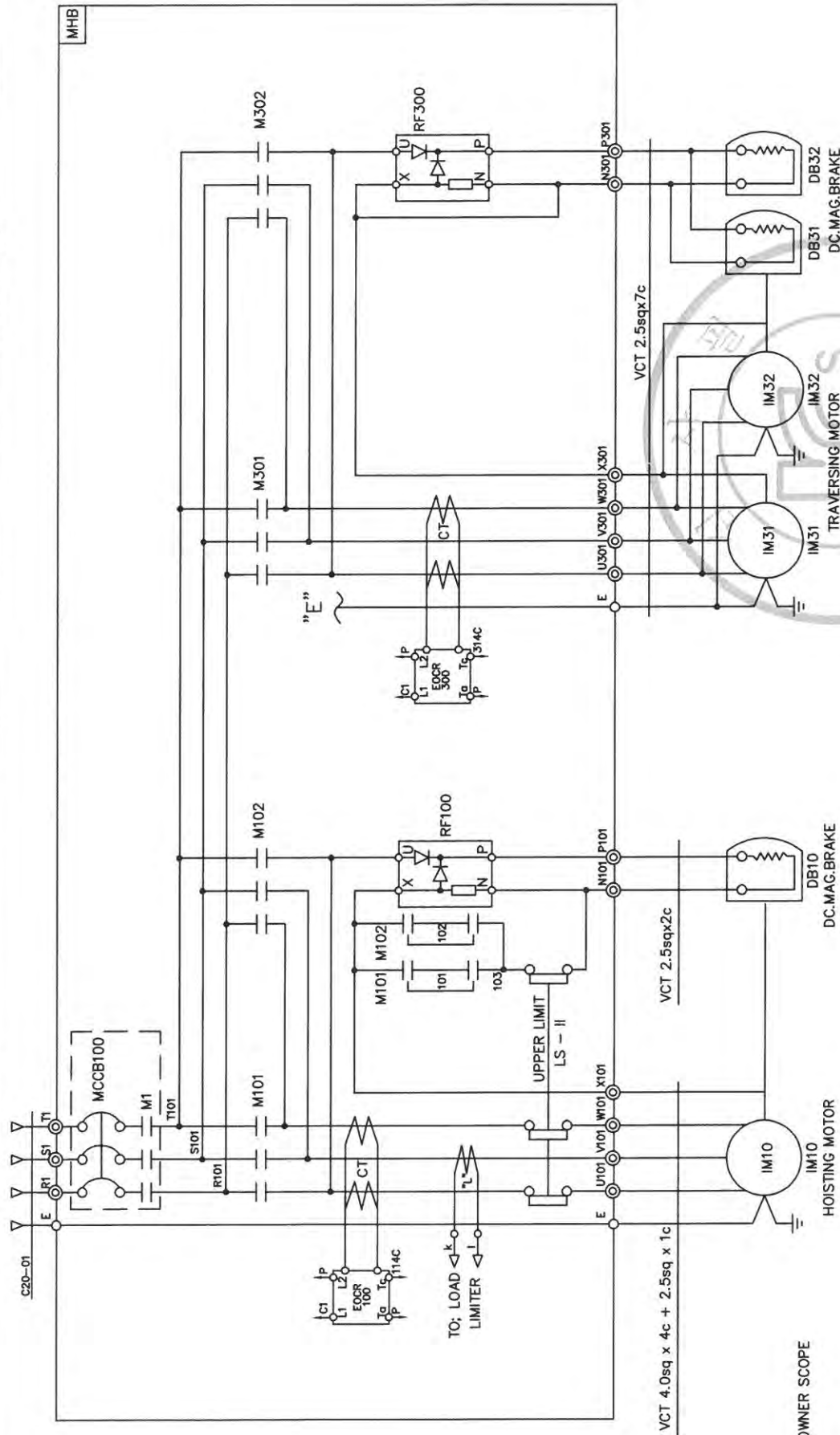
OWNER SCOPE



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HOISTING MOTION

TRAVERSING MOTION

[illegible]

Exploded view diagram of the control cabinet for the 1000 series. The diagram shows the main cabinet frame, a terminal block, a fuse holder, a circuit breaker, a relay, and a terminal block. Callouts 1 through 16 point to specific parts and their locations.

- 1: Main cabinet frame
- 2: Terminal block
- 3: Fuse holder
- 4: Circuit breaker
- 5: Relay
- 6: Terminal block
- 7: Fuse holder
- 8: Circuit breaker
- 9: Relay
- 10: Terminal block
- 11: Fuse holder
- 12: Circuit breaker
- 13: Relay
- 14: Terminal block
- 15: Fuse holder
- 16: Circuit breaker

NOTE 1. 전선의 역상은 다음과 같다.

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

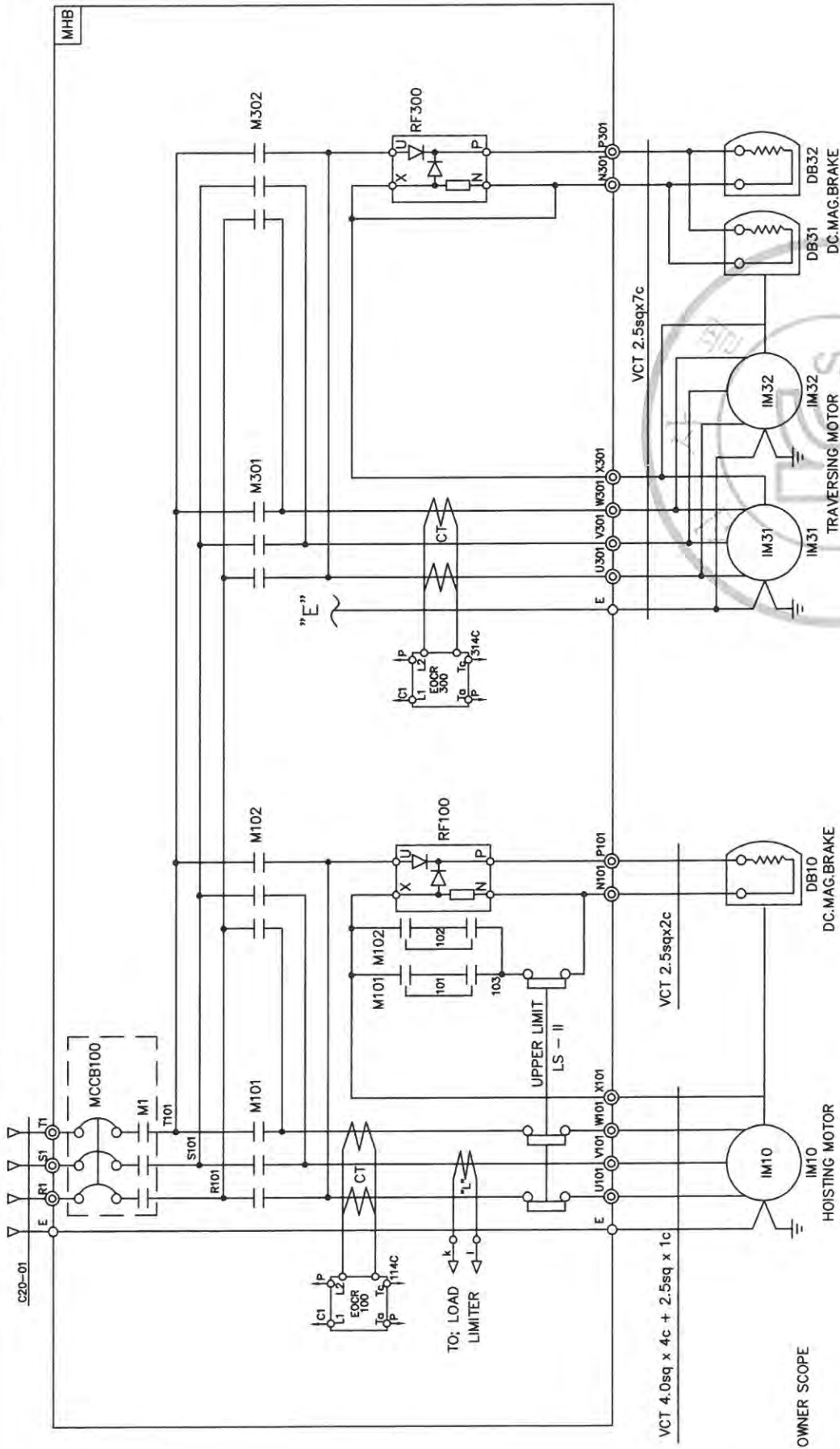
2. CABLE MATERIAL : [KIV OR EQUIVALENT
MIN SIZE : 1.5sq

3. 제어용 전선 : 1.5mm KIV,HIV
4. 제어시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같음.

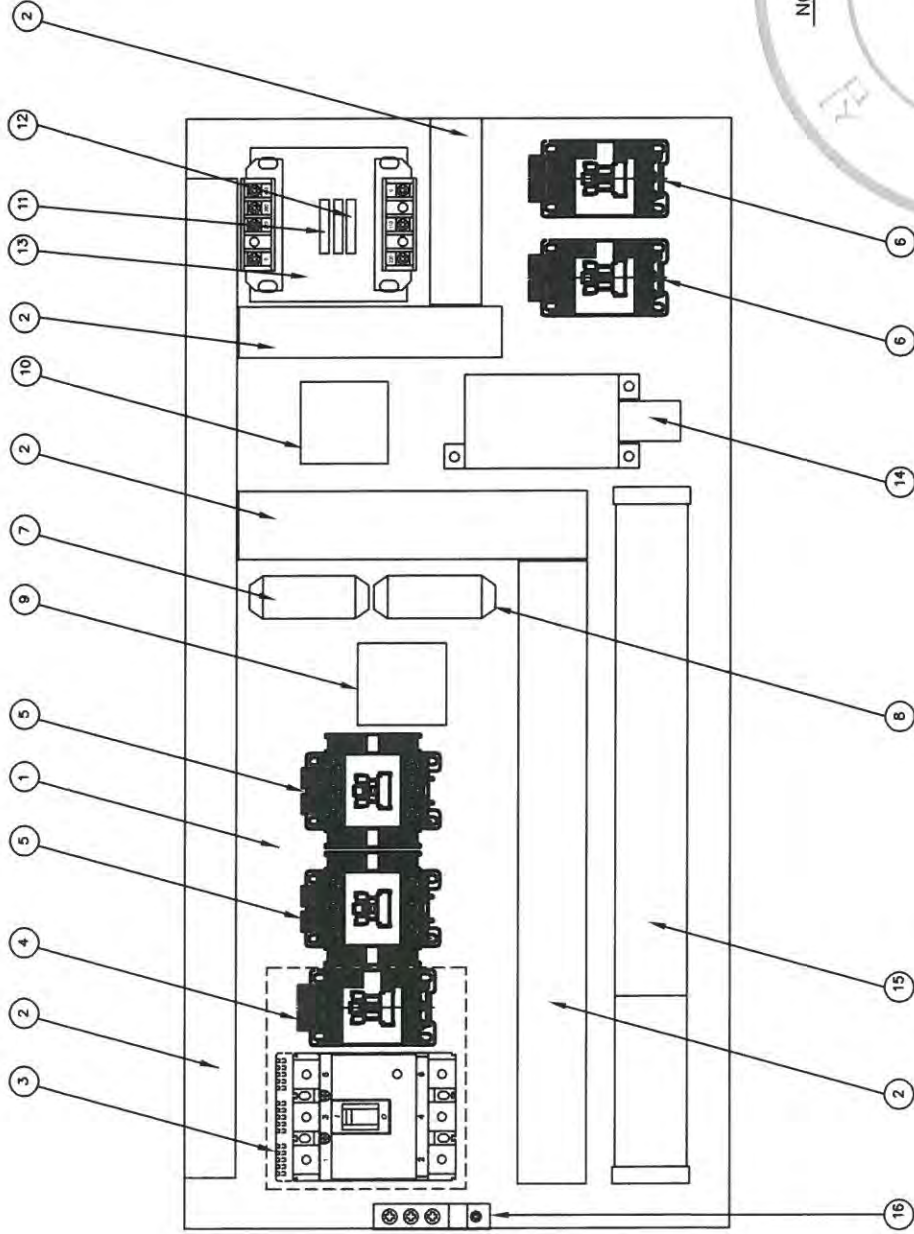
- 1) 외함 개방시 승전부분이 차단되도록 함.
- 2) 외함 개방후 승전되어있는 부분은 IP2X 이상의 차단 성능 확보가

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

[illegible]

[illegible]

불법복제 및 배포금지



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

OWNER SCOPE



NOTE 1. 전선의 색상은 다음과 같다.

- 1) 흑색 : 교류 및 직류 전원선로
- 2) 적색 : 교류 제어회로
- 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. 제직시 다소 변경 될수있음.

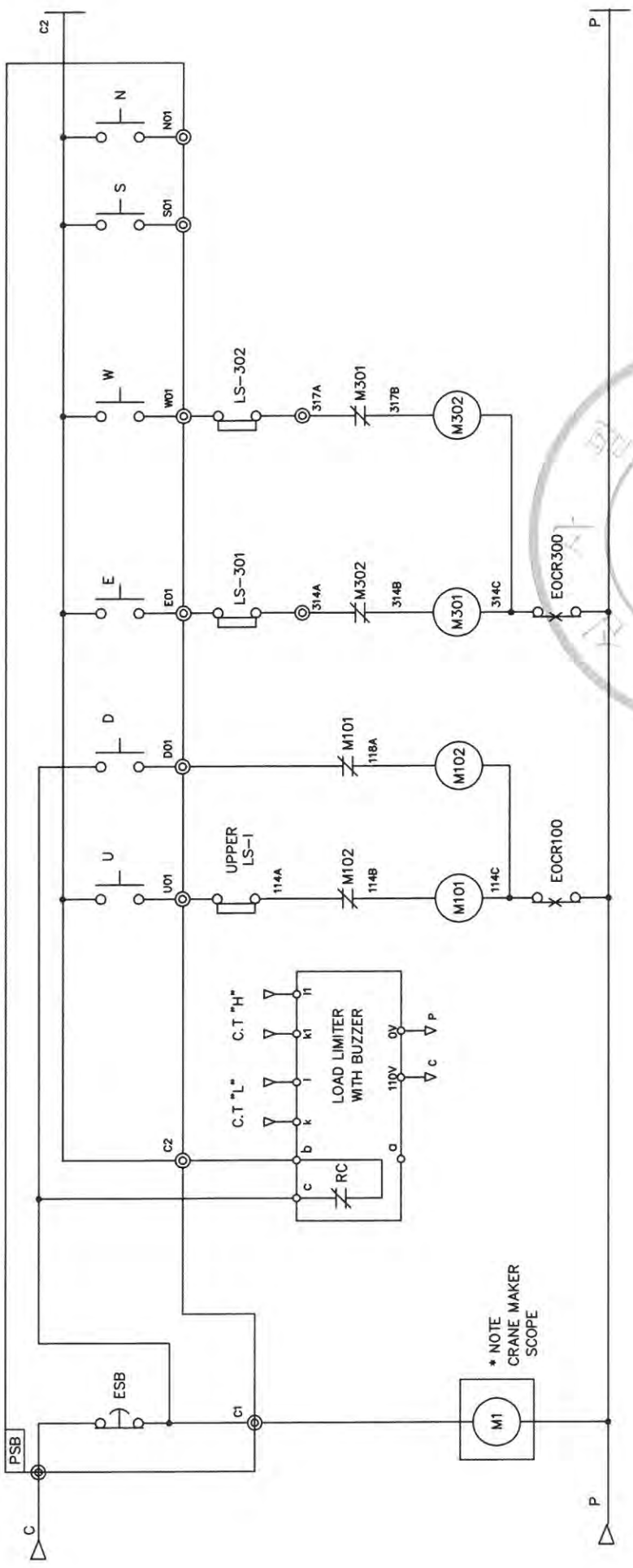
5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 중전부분이 차단되도록 할것.

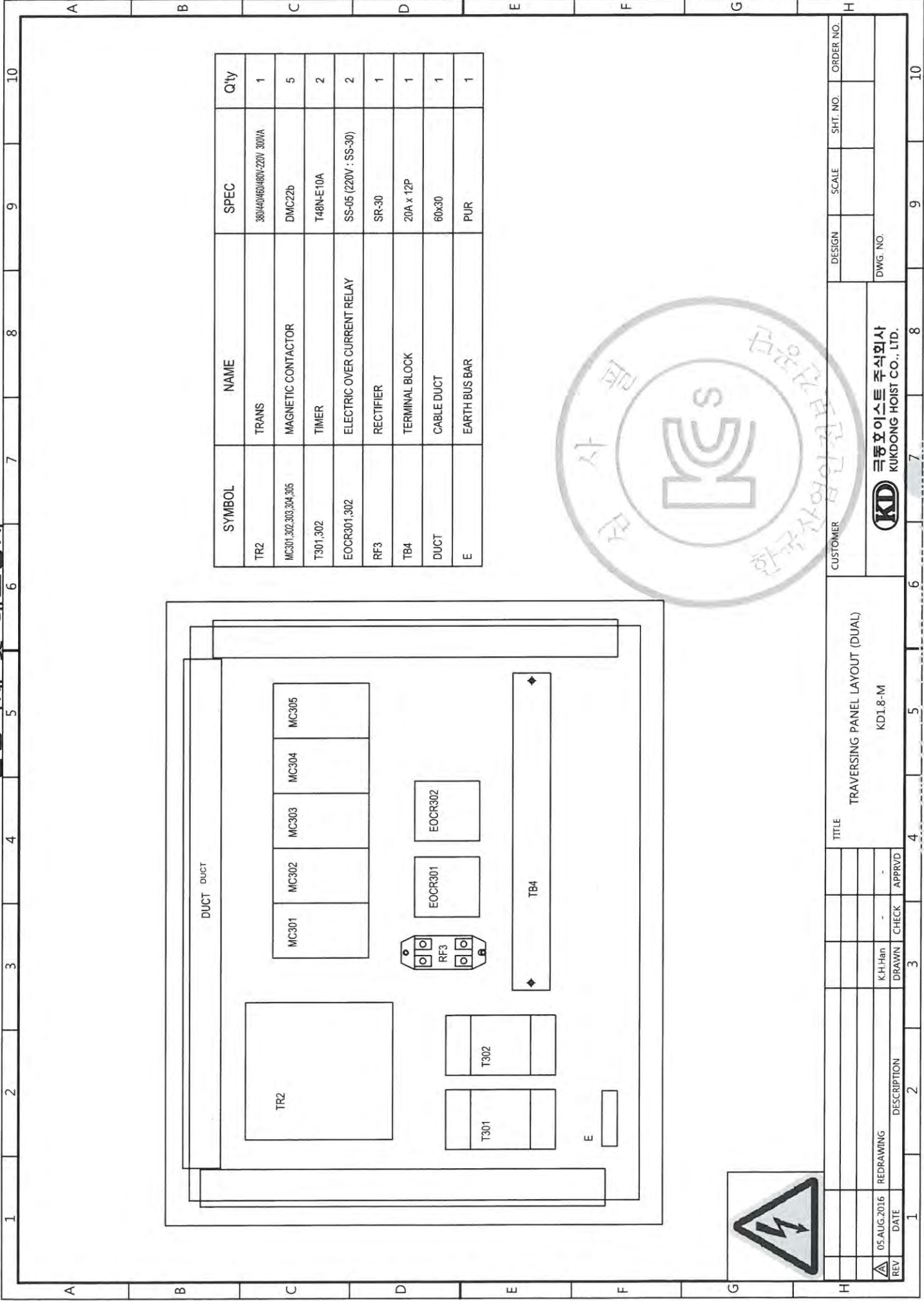
2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B (MCCB)	ABE33c/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22b	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40b	2	HOISTING
6	MAGNET CONTACTOR	DMC22b	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	EOCR (DOCR)	SS-30	1	HOISTING
10	EOCR (DOCR)	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	35A,15A		
16	EARTH TERMINAL	3x20x40	1	

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						KD18BA63
KD2-M-480V (MONO)						
HOIST CONTROL BOX						
ARRANGEMENT DRAWING						
MK	DATE	REVISIONS	CHK.	APP.		



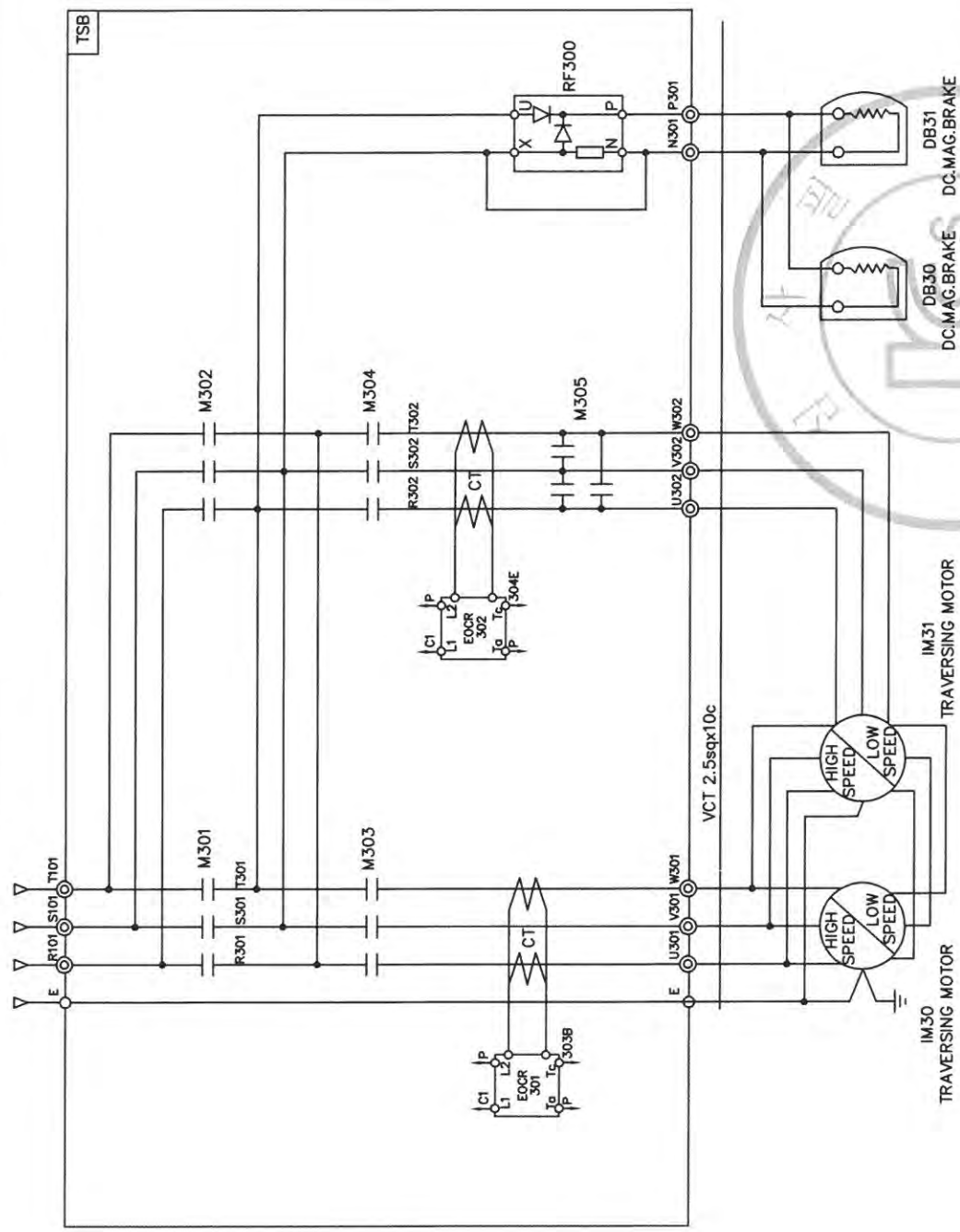
SPECIFICATION SYMBOLS				PENDANT P.B S/W				LOAD LIMITER				LIMIT SWITCH			
DESCRIPTION				E.S.B				LOAD LIMITER				LS-301,302			
MAKER				AC 600V 3A				JDL-100				KG-L001			
DRAWING				KUNHUNG				JUNG-HO				KG-AUTO			
DESIGN				APPROVED				DATE				ORDER NO.			
CHECKED				SCALE				NONE							
DRAWING TITLE				DWG. NO				KD18E002							
CUSTOMER				KUNHUNG											
REVISIONS				DATE											
CHK.				APP.											
DATE															

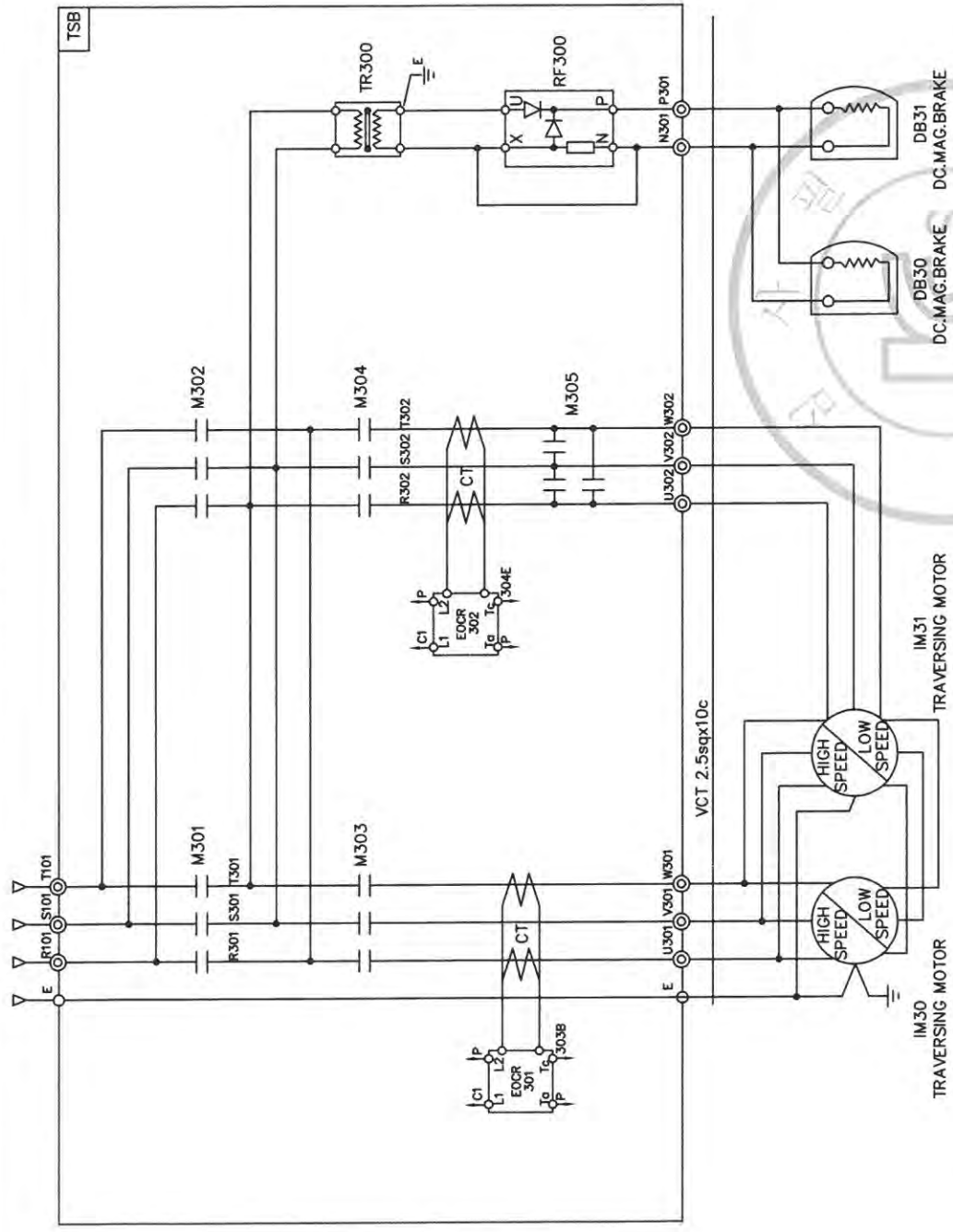


SYMBOL	NAME	SPEC	Q'ty
TR2	TRANS	380/440/460/480V-220V 300VA	1
MC301,302,303,304,305	MAGNETIC CONTACTOR	DMC22b	5
T301,302	TIMER	T48N-E10A	2
EOCR301,302	ELECTRIC OVER CURRENT RELAY	SS-05 (220V : SS-30)	2
RF3	RECTIFIER	SR-30	1
TB4	TERMINAL BLOCK	20A x 12P	1
DUCT	CABLE DUCT	60x30	1
E	EARTH BUS BAR	PUR	1



REV	DATE	DESCRIPTION	DRAWN	CHECK	APPRVD	TITLE	CUSTOMER	DESIGN	SCALE	SHT. NO.	ORDER NO.
05	AUG 2016	REDRAWING	K.H.Han	-	-	TRAVERSING PANEL LAYOUT (DUAL)	크중호이스트 주식회사 KUKDONG HOIST CO., LTD.				
						KD1.8-M					

[illegible]

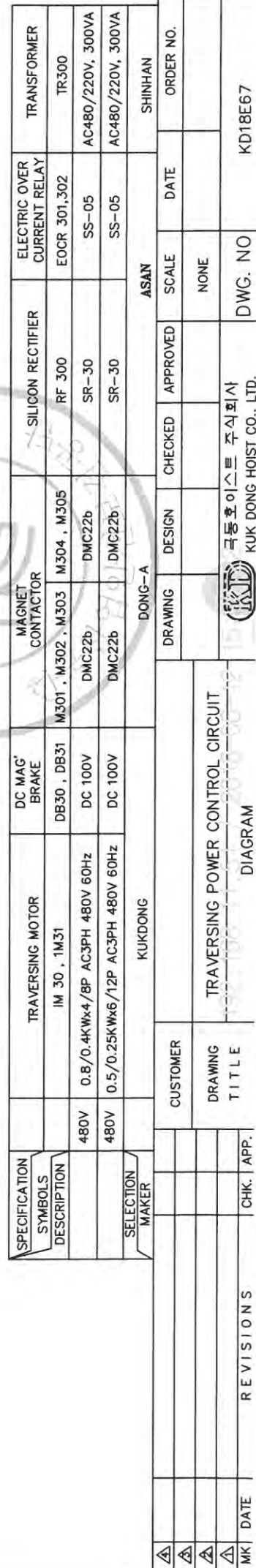
[illegible]

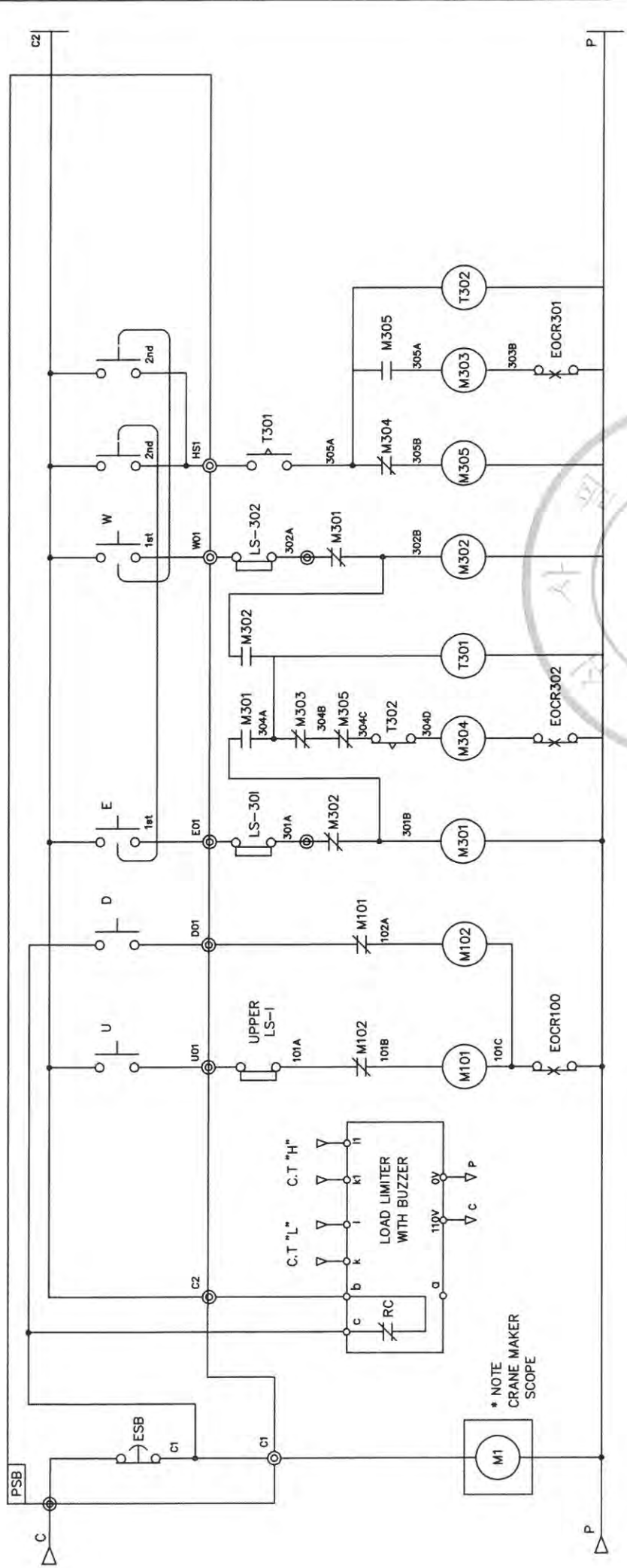
20	ADR'S M	C2
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20	ADR'S M	C2
----	---------	----

20	ADR'S M	C2
----	---------	----



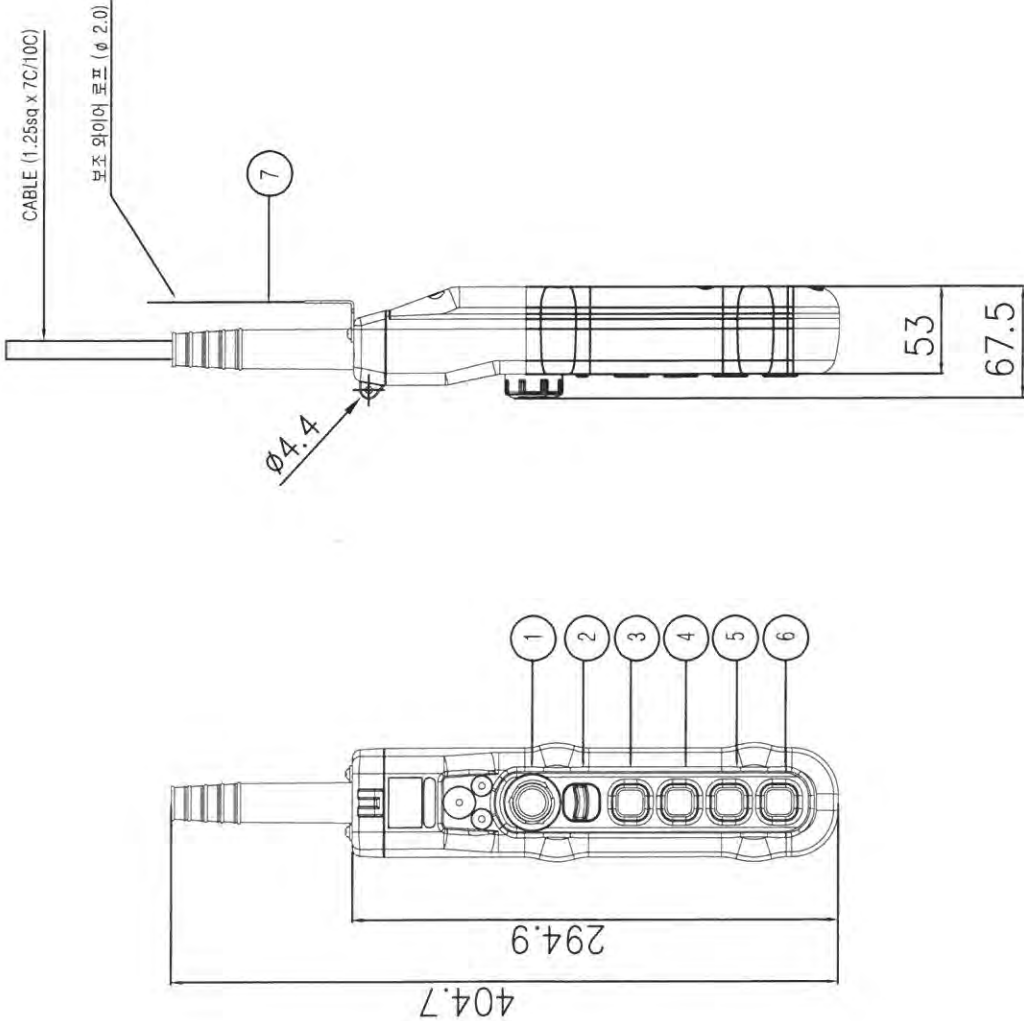
[illegible]

200

[illegible]

불법복제 및 배포금지

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

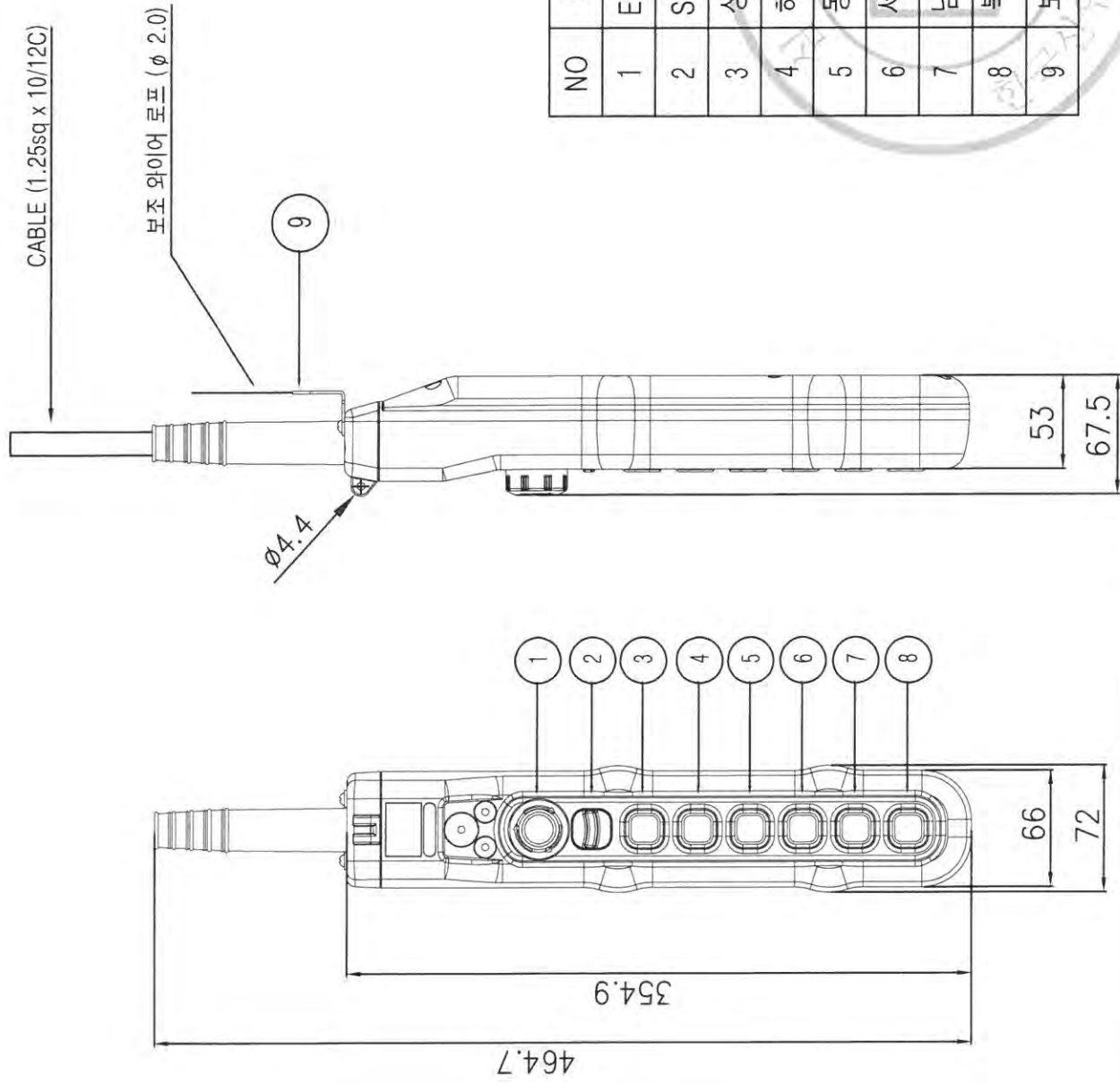


- * MATERIAL : POLYCARBOBATE(PLASTIC)
- * BODY COLOR : YELLOW, BLACK
- * IP : 55 이상

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

△ △ △ MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER		DRAWING		TITLE		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
					PENDANT PUSH BUTTON SWITCH		LAY OUT									

물품법복제 및 배포금지



상 세	구 분	조각버튼	표시응
저색		비상	비상
화영		비정상	비정상
녹		정상	정상
청		의무	의무
회색, 회색- 흰색		지정된의미없음	기타

* MATERIAL : POLYCARBOBATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55.0 이상

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

A				CUSTOMER	DRAWING	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
A					PENDANT PUSH BUTTON SWITCH LAY OUT						
A					TITLE						
A											
MK	DATE	REVISIONS	CHK.	APP.					DWG. NO		

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	996.9	1022.5	954.9
200×150×t9/16	430	966.6	1021.6	860.7
250×125×t7.5/12.5	460	991	1036.8	1144.2
250×125×t10/19	550	947.5	1023.5	971.3
300×150×t8/13	630	936.8	1011.6	1137
300×150×t10/18.5	730	896.7	1009.3	989.1
300×150×t11.5/22	780	884.2	1023.3	926.3
350×150×t9/15	750	1026.2	1144.5	1129
350×150×t12/24	970	825	1008.3	1043.2
400×150×t10/18	890	1103	1288.6	1136
400×150×t12.5/25	1100	869.1	1109.6	1136.8
450×175×t11/20	1120	1042.4	1323.5	1128.8
450×175×t13/26	1320	848.1	1186.2	1138.5

☞ 기본 조건

정격하중 (Kg)	양정 (m)	권상속도 (m/min)	호이스트		작업계수	풍력계수
			자중 (Kg)	풍압면적 (m ²)		
1800	45	9	580	1.8	1.08	1.2

*첨부 강도계산서 참조



[I-BEAM 최대 지지거리 강도계산서]

1. 굽힘 MOMENT 계산

1-1. 수직하중에 의한 굽힘 MOMENT

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

$$\text{※ 작업계수}(\phi) = 1.08$$

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

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

$$\begin{aligned} \text{※ 이동하중 (kg)} &= \text{정격하중} + \text{호이스트 자중} \\ &= 1800 + 580 = 2380 \quad (\text{kg}) \end{aligned}$$

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

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

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

1-2. 풍하중에 의한 굽힘 MOMENT

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

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

$$\text{※ 속도압}(q) : = 8.5 \times \sqrt[4]{h} = 22 \quad (\text{h= 양정: 45})$$

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

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

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

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

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

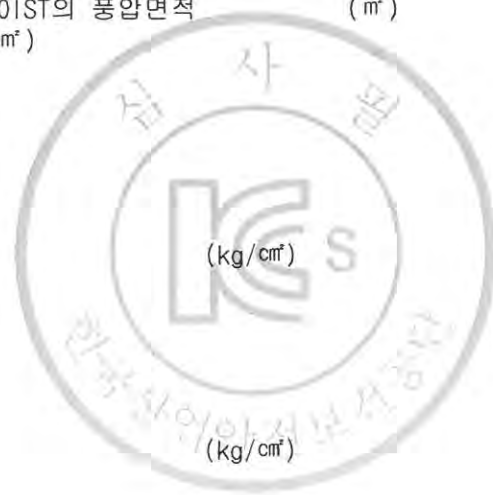


표1. I-BEAM 최대지지거리에 따른 굽힘응력 계산 결과

I-BEAM 규격	최대지지 거리(cm)	I-BEAM		단면계수		Ms (kg · cm)	Md (kg · cm)	Σ Mv (kg · cm)	I-BEAM फल면적 (m ²)	W (kg)	MW (kg · cm)	σ v (kg/cm ²)	σ w (kg/cm ²)
		단위중량 (kg/cm)	자중 (kg)	Zx (cm ²)	Zy (cm ²)								
150 × 125 × t8.5/14	270	0.362	97.74	235	61.6	3562.62	190852.20	194414.82	0.41	58.21	7858.62	827.30	127.58
200 × 150 × t9/16	430	0.504	216.72	446	100	12580.60	303949.80	316530.40	0.86	70.22	15098.16	709.71	150.98
250 × 125 × t7.5/12.5	460	0.383	176.18	414	53.9	10940.78	325155.60	336096.38	1.15	77.88	17912.40	811.83	332.33
250 × 125 × t10/19	550	0.555	305.25	585	86	22664.81	388773.00	411437.81	1.38	83.82	23050.50	703.31	268.03
300 × 150 × t8/13	630	0.483	304.29	632	78.4	25879.86	445321.80	471201.66	1.89	97.42	30686.04	745.57	391.40
300 × 150 × t10/18.5	730	0.655	478.15	849	118	47121.68	516007.80	563129.48	2.19	105.34	38447.64	663.29	325.83
300 × 150 × t11.5/22	780	0.768	599.04	978	143	63078.91	551350.80	614429.71	2.34	109.30	42625.44	628.25	298.08
350 × 150 × t9/15	750	0.585	438.75	870	93.5	44423.44	530145.00	574568.44	2.63	116.82	43807.50	660.42	468.53
350 × 150 × t12/24	970	0.872	845.84	1280	158	110762.75	685654.20	796416.95	3.40	137.15	66516.78	622.20	420.99
400 × 150 × t10/18	890	0.72	640.8	1200	115	76992.12	629105.40	706097.52	3.56	141.50	62969.28	588.41	547.56
400 × 150 × t12.5/25	1100	0.958	1053.8	1580	165	156489.30	777546.00	934035.30	4.40	163.68	90024.00	591.16	545.60
450 × 175 × t11/20	1120	0.917	1027.04	1740	173	155288.45	791683.20	946971.65	5.04	180.58	101122.56	544.24	584.52
450 × 175 × t13/26	1320	1.15	1518	2170	231	270507.60	933055.20	1203562.80	5.94	204.34	134861.76	554.64	583.82



불법복제 및 배포금지

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

1. 처짐량 판정 1

판정기준: $L / \sigma > 800$
 $\ast \sigma = \sigma_s + \sigma_d$

2. 처짐량 판정 2

판정기준: $L / \sigma_d > 1000$

3. 최대굽힘응력 판정

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

$\ast$ 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

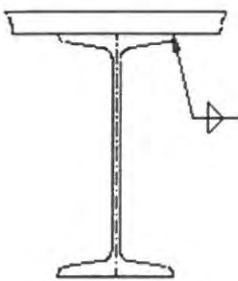
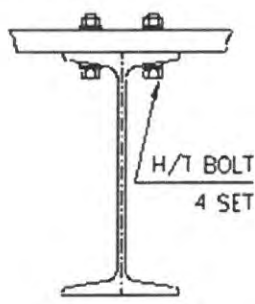
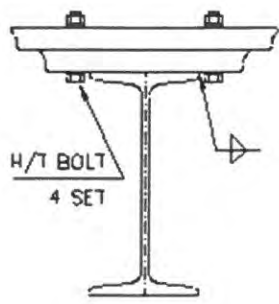
판정기준		
> 800	> 1000	≤ 1159

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	0.2641	996.9	1022.5	954.9
200 × 150 × t9/16	4460	430	0.0240	0.4209	966.6	1021.6	860.7
250 × 125 × t7.5/12.5	5180	460	0.0205	0.4437	991	1036.8	1144.2
250 × 125 × t10/19	7310	550	0.0431	0.5374	947.5	1023.5	971.3
300 × 150 × t8/13	9480	630	0.0498	0.6228	936.8	1011.6	1137
300 × 150 × t10/18.5	12700	730	0.0908	0.7232	896.7	1009.3	989.1
300 × 150 × t11.5/22	14700	780	0.1199	0.7622	884.2	1023.3	926.3
350 × 150 × t9/15	15200	750	0.0755	0.6553	1026.2	1144.5	1129
350 × 150 × t12/24	22400	970	0.2137	0.9620	825	1008.3	1043.2
400 × 150 × t10/18	24100	890	0.1162	0.6907	1103	1288.6	1136
400 × 150 × t12.5/25	31700	1100	0.2743	0.9914	869.1	1109.6	1136.8
450 × 175 × t11/20	39200	1120	0.2282	0.8462	1042.4	1323.5	1128.8
450 × 175 × t13/26	48800	1320	0.4436	1.1128	848.1	1186.2	1138.5

안전보건공단

■ I-BEAM의 고정방법 및 사양

1. I-BEAM의 고정방법

용접구조	BOLT 체결구조	복합구조
		

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	M12 x 4set

단, 적용 I-BEAM 400×150×t10/18 의 경우임

※ 강도계산서 참조



[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 $\psi = 1.1$
 작업계수 $\phi = 1.08$
 정격하중 $Q = 1800$
 HOIST자중 $Q1 = 580$

☞ 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	97.74	2723.6	M12	4	1.13	602.6
200 × 150 × t9/16	216.72	2852.1	M12	4	1.13	631
250 × 125 × t7.5/12.5	176.18	2808.3	M12	4	1.13	621.3
250 × 125 × t10/19	305.25	2947.7	M12	4	1.13	652.1
300 × 150 × t8/13	304.29	2946.6	M12	4	1.13	651.9
300 × 150 × t10/18.5	478.15	3134.4	M12	4	1.13	693.5
300 × 150 × t11.5/22	599.04	3265	M12	4	1.13	722.3
350 × 150 × t9/15	444.6	3098.2	M12	4	1.13	685.4
350 × 150 × t12/24	845.84	3531.5	M12	4	1.13	781.3
400 × 150 × t10/18	648	3317.8	M12	4	1.13	734
400 × 150 × t12.5/25	1063.38	3766.5	M12	4	1.13	833.3
450 × 175 × t11/20	1045.38	3747	M12	4	1.13	829
450 × 175 × t13/26	1529.5	4269.9	M12	4	1.13	944.7

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	2723.6	0.6	12.5	256.8
200 × 150 × t9/16	2852.1	0.6	15	224.1
250 × 125 × t7.5/12.5	2808.3	0.6	12.5	264.8
250 × 125 × t10/19	2947.7	0.6	12.5	278
300 × 150 × t8/13	2946.6	0.6	15	231.5
300 × 150 × t10/18.5	3134.4	0.6	15	246.3
300 × 150 × t11.5/22	3265	0.6	15	256.6
350 × 150 × t9/15	3098.2	0.6	15	243.5
350 × 150 × t12/24	3531.5	0.6	15	277.5
400 × 150 × t10/18	3317.8	0.6	15	260.7
400 × 150 × t12.5/25	3766.5	0.6	15	296
450 × 175 × t11/20	3747	0.6	17.5	252.4
450 × 175 × t13/26	4269.9	0.6	17.5	287.6

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

JDL-100

용량·등급

J-2

인증번호

12-AV2BJ-0009

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

아래 주소에서 생산되는 제품에 한함.

정호엔지니어링, 경기도 광명시 노동사동 440-5

2012년 06월 11일

한국산업안전보건공단 이사장



LOAD LIMITER 권고 SETTING치

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

극동 호이스트(주)

전압	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%				
220V	2.8KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-2	K-K1, L-L1	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-2	K-K1, L-L1	5 V.A	
380V	2.8KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-2	K-K1, L-L1	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-2	K-K1, L-L1	5 V.A	
440V	2.8KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-2	K-K1, L-L1	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-2	K-K1, L-L1	5 V.A	
460V	2.8KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
480V	2.8KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 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.



E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Ø 220, 380, 440, 460, 480V 60Hz							극동 호이스트(주)	
전압	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
220V	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	25.0 A	
380V	2.8KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.4 A	
	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
440V	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	
460V	2.8KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.2 A	
	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.2 A	
480V	2.8KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.5 A	
	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	

NOTE

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



THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 L
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	22.8 A
12. STARTING CURRENT AT RATED VOLTAGE	138.0 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	6.4 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 L
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	12.2 A
12. STARTING CURRENT AT RATED VOLTAGE	79.0 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	6.4 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 L
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	10.5 A
12. STARTING CURRENT AT RATED VOLTAGE	67.8 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	6.4 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 L
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	10.0 A
12. STARTING CURRENT AT RATED VOLTAGE	64.5 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	6.4 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 L
4. RATED POWER	5.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	9.6 A
12. STARTING CURRENT AT RATED VOLTAGE	61.9 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	81.0 %
15. POWER FACTOR AT 100% RATED LOAD	77.0 %
16. STARTING TORQUE	6.4 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.8 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	17.7 A
12. STARTING CURRENT AT RATED VOLTAGE	96.0 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. STARTING TORQUE	6.86 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.8 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	10.3 A
12. STARTING CURRENT AT RATED VOLTAGE	55.4 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. STARTING TORQUE	6.86 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.8 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	8.9 A
12. STARTING CURRENT AT RATED VOLTAGE	48.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. STARTING TORQUE	6.86 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.8 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	7.7 A
12. STARTING CURRENT AT RATED VOLTAGE	40.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. STARTING TORQUE	6.86 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	G R E A S E
23. STARTING METHOD	F U L L V O L T A G E

THREE PHASE INDUCTION MOTOR DATA SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.8 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	7.3 A
12. STARTING CURRENT AT RATED VOLTAGE	38.3 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. STARTING TORQUE	6.86 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	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 RATting	1 . 0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE 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	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 °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	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



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/§³

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