



제 2015 - 47427 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소 재 지 425-833) 경기도 안산시 성곡동 630-2 반월공단 B-607-14

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

_____ 형식,모델(용량,등급)/인증번호 _____
KD5 (5Ton) / 15-AQ2AC-00229

_____ 인 증 기 준 _____

고용노동부 고시 제2012 - 33호 (위험기계,기구 의무안전인증 고시)

_____ 인 증 조 건 _____

2015년 01월 27일



한국산업안전보건공단이사장



심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		
안전인증대상 기계·기구명				
호이스트				
형 식 (규 격)		KD5	용 량 (등 급)	5 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.

인증심사원

강성두 변명수

(서명 또는 인)

2015년 01월 09일

한국산업안전보건공단 경기서부지사장



서 면 심 사 서 류

형식 번호 : KD5

극 동 호 이 스톱 (주)

工場 : 경기도 안산시 단원구 해봉로 119 (반월공단607-14)

電話 : 031) 491 - 5311

FAX : 031) 494 - 5315

산업재해예방
안전보건공단
Korea Occupational Safety & Health Agency

불법복제 및 배포금지

동 일 형 식 일 램 표

사업장명	극동호이스트(주)	개정일자 및 번호	2015년 01월 06일	인증번호		
형식 및 모델		동일 형식 인정범위 및 내역				비 고
형식	모델	권상속도 (m/min)	횡행속도 (m/min)	양정(m)	횡행방식	
KD5	KD5-L6-M	8.4	고속:24m/min 저속:16m/min	6	모터구동식	
	KD5-L9-M			9		
	KD5-L12-M			12		
	KD5-L18-M			18		
	KD5-L24-M			24		
	KD5-L30-M			30		
	KD5-L36-M			36		추가
	KD5-L40-M			40		추가
	KD5-L18-M-H			18		
	KD5-L24-M-H			24		
	KD5-L30-M-H			30		
	KD5-L36-M-H			36		추가
	KD5-L40-M-H			40		추가
	KD5-L6-S	4.2	-	6	정치식	
	KD5-L9-S			9		
	KD5-L12-S			12		
	KD5-L18-S			18		
	KD5-L24-S			24		
	KD5-L30-S			30		
	KD5-L36-S			36		추가
	KD5-L40-S			40		추가
	KD5-L6-P			6	수동구동식	
	KD5-L9-P			9		
	KD5-L12-P			12		
	KDC5-L6-M	5.6/0.56	고속:24m/min 저속:16m/min	6	모터구동식	
	KDC5-L9-M			9		
	KDC5-L12-M			12		
	KDC5-L18-M			18		
	KDC5-L24-M			24		
	KDC5-L30-M			30		
	KDC5-L36-M			36		추가
	KDC5-L40-M			40		추가
	KDC5-L18-M-H			18		
	KDC5-L24-M-H			24		
	KDC5-L30-M-H			30		
	KDC5-L36-M-H			36		추가
	KDC5-L40-M-H			40		추가
	KDC5-L6-S		-	6	정치식	
	KDC5-L9-S			9		
	KDC5-L12-S			12		
	KDC5-L18-S			18		
	KDC5-L24-S			24		
	KDC5-L30-S			30		
	KDC5-L36-S			36		추가
	KDC5-L40-S			40		추가
	KDC5-L6-P			6	수동구동식	
	KDC5-L9-P			9		
	KDC5-L12-P			12		

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)

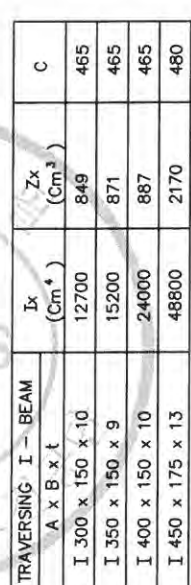
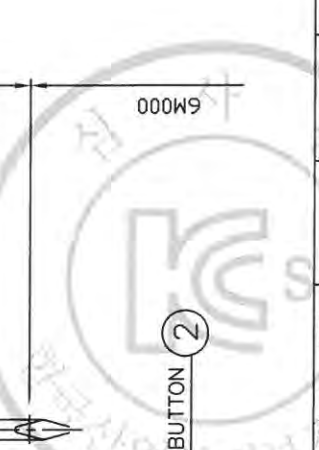
인 증 조 건

아래 주소에서 생산되는 제품에 관한,
정호엔지니어링, 경기도 광명시 노동사동 440-5

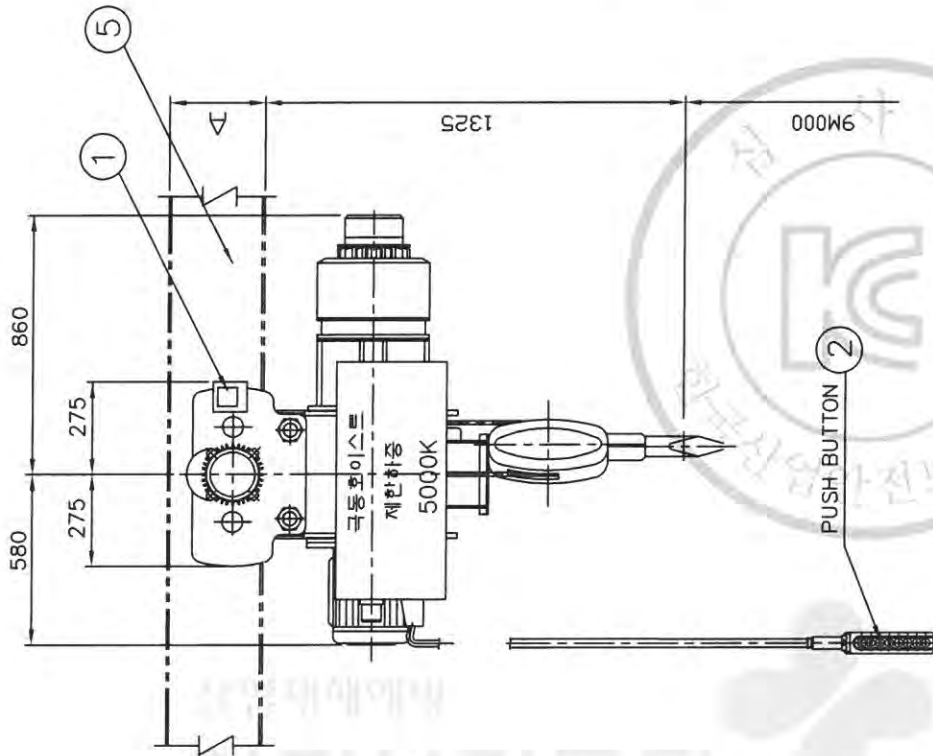
2012년 06월 11일

한국산업안전보건공단 이사장



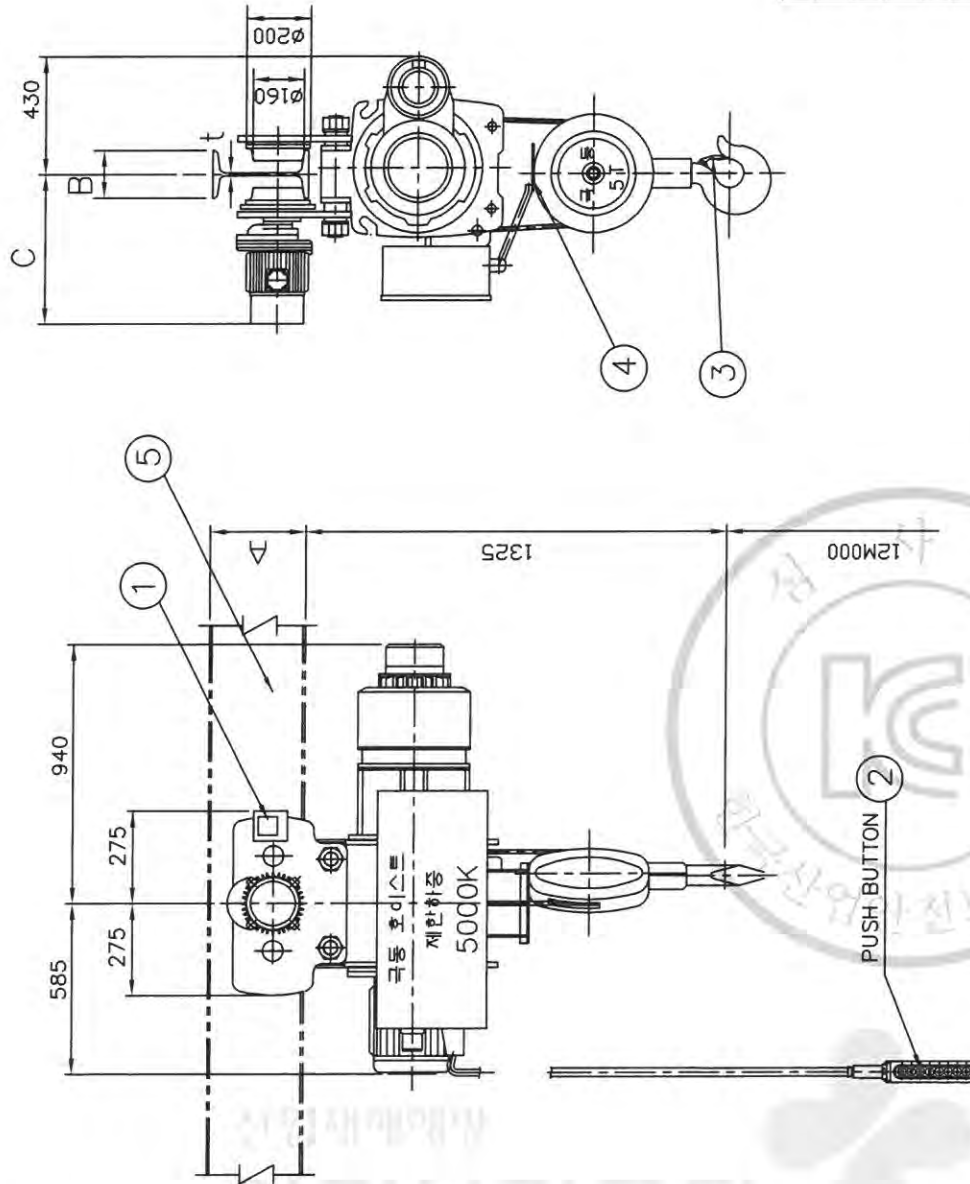


5	I-BEAM	SS400		—	TABLE 참조	
4	UPPER LIMIT S/W	SS400		1		
3	SAFETY LATCH	SPC		1		
2	EMERGENCY S/W	—		1		
1	LOAD LIMITER	—		1		
NO.	DESCRIPTION	MTL	SUB QTY	SUB TOTAL	SUB WEIGHT(Kg)	REMARKS.
PROJECT	KDC5 - L6 - M					DATE
						mm
TITLE	ARRANGEMENT DRAWING FOR HOIST					SCALE
						A3/15
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING		
 KUK DONG HOIST CO., LTD.			SHEET No.		DWG No.	
					KDC5M6000	



5	I-BEAM	SS400				—			TABLE 참조
4	UPPER LIMIT S/W	SS400				1			
3	SAFETY LATCH	SPC				1			
2	EMERGENCY S/W	—				1			
1	LOAD LIMITER	—				1			
NO.	DESCRIPTION	MTL	SUB	TOTAL	SUB	TOTAL	REMARKS.		
PROJECT		KDC5 - L9 - M					DATE		DIM
							mm		
TITLE		ARRANGEMENT DRAWING FOR HOIST					SCALE	PROJECTION	
							A3/15	3rd	
DRAWN	DESIGNED	CHECKED	APPROVED		REF. DRAWING				
		KUD					SHEET No.		DWG No.
KUK DONG HOIST CO., LTD.							KDC5M9000		

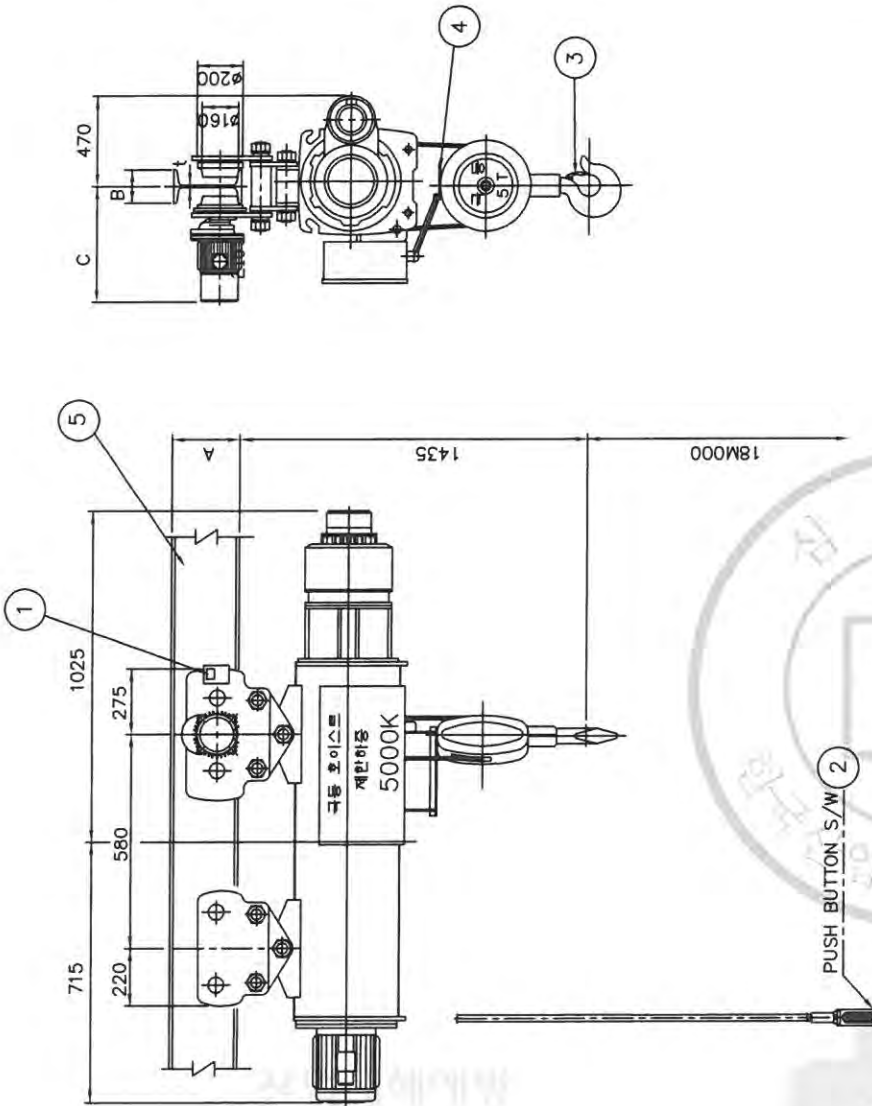
TRAVERSING I - BEAM A x B x t	I _x (Cm ⁴)	Z _x (Cm ³)	C
I 300 x 150 x 10	12700	849	465
I 350 x 150 x 9	15200	871	465
I 400 x 150 x 10	24000	887	465
I 450 x 175 x 13	48800	2170	480



TRAVERSING I - BEAM		I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
A x B x t					
I 300 x 150 x 10		12700	849	MAX. 4.4M	465
I 350 x 150 x 12		22400	1280	MAX. 6.1M	465
I 400 x 150 x 10		24100	1200	MAX. 5.6M	465
I 450 x 175 x 11		39200	1740	MAX. 7.5M	480

SPECIFICATION		
HOISTING LOAD		5000 KG
TESTING LOAD		6250 KG
LIFT		12 M
RATING		30 MIN
HOISTING	SPEED	5.6 / 0.56 M/MIN
	MOTOR	5.5 / 1.0 KW x 6 P
TRAVERSING	HIGH	SPEED 24 M/MIN
	MOTOR	0.75 KW x 4 P
	LOW	SPEED 16 M/MIN
	MOTOR	0.5 KW x 6 P
TRAVERSING	HIGH	SPEED 24/12 M/MIN
	MOTOR	0.8/0.4 KW x 4/8 P
	LOW	SPEED 16/8 M/MIN
	MOTOR	0.5/0.25 KW x 6/12 P
WIRE ROPE		(6x37) 16 x 2 FALLS
POWER SOURCE		AC3 220V(380,440,460,480) 60Hz
COLOR		10 B 3/5
WEIGHT		700 KG

5	I-BEAM	SS400			—		레이블 합조	
4	UPPER LIMIT S/W	SS400			1			
3	SAFETY LATCH	SPC			1			
2	EMERGENCY S/W	—			1			
1	LOAD LIMITER	—			1			
NO.	DESCRIPTION	MTL	SUB QTY	TOTAL QTY	SUB WEIGHT(kg)	TOTAL WEIGHT(kg)	REMARKS.	
PROJECT							DATE	DIM
								mm
TITLE		KDC5 - L12 - M					SCALE	PROJECTION
		ARRANGEMENT DRAWING FOR HOIST					A3/15	3rd
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING				
		극동호이스트 주식회사 KUK DONG HOIST CO., LTD.					SHEET No.	DWG No.
								KDC5M1200

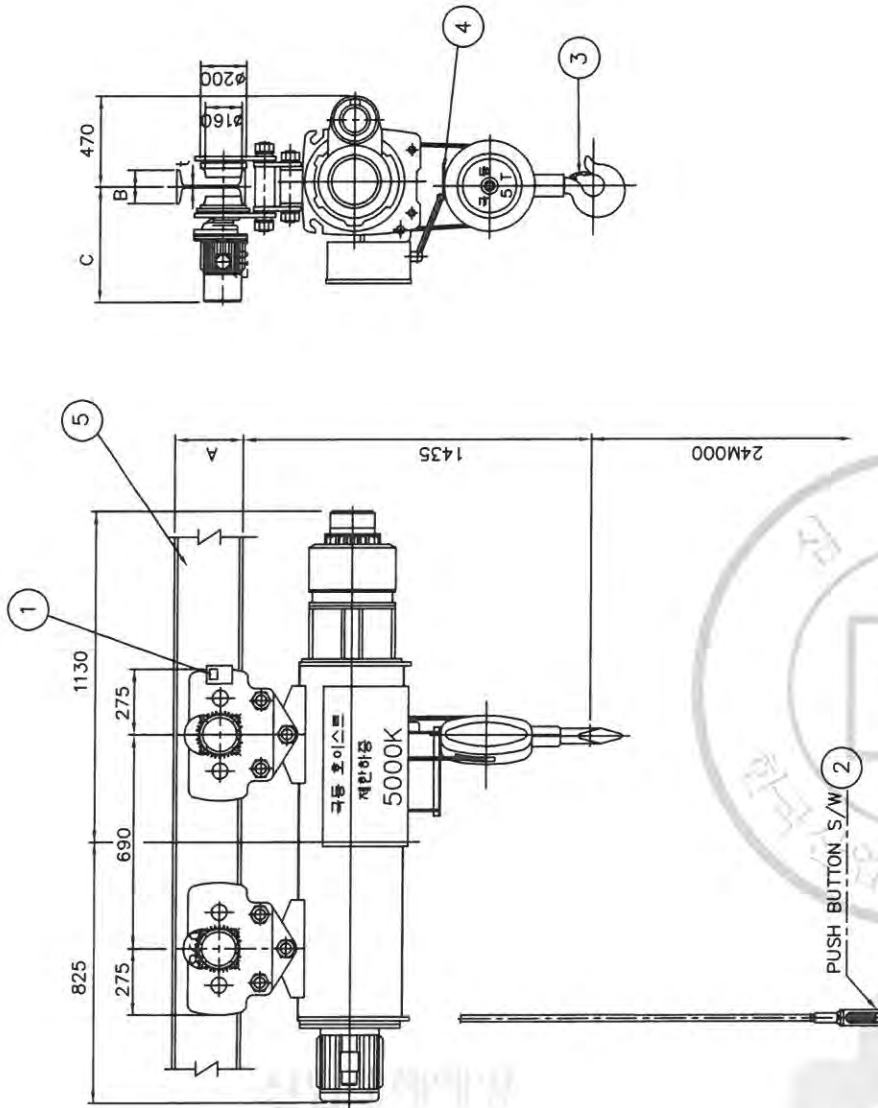


SPECIFICATION		
HOISTING LOAD	5000	KG
TESTING LOAD	6250	KG
LIFT	18	M
RATING	30	MIN
HOISTING	SPEED	5.6 / 0.56 M/MIN
	MOTOR	5.5 / 1.0 KW x 6 P
TRAVERSING	HIGH	SPEED MOTOR
		24 M/MIN 0.75 KW x 4 P
	LOW	SPEED MOTOR
		16 M/MIN 0.5 KW x 6 P
	HIGH	SPEED MOTOR
		24/12 M/MIN 0.8/0.4 KW x 4/8 P
WIRE ROPE	LOW	SPEED MOTOR
		16/8 M/MIN 0.5/0.25 KW x 6/12 P
		(6x37) ϕ 16 x 2 FALLS
POWER SOURCE	AC3 ϕ 220V(380,440,460,480) 60Hz	
COLOR	10 B 3/5	
WEIGHT	920	KG

5	I-BEAM	SS400	-			레이블 참조
4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SPC	1			
2	PENDANT S/W	-	1			
1	LOAD LIMITER	-	1			
NO.	DESCRIPTION	M ² /L	QTY		WEIGHT(kg)	REMARKS.
			SUB	TOTAL		
PROJECT					DATE	DIM
TITLE		KDC5 - L18 - M			SCALE	PROJECTION
DRAWN		DESIGNED	CHECKED	APPROVED	A3/20	3rd
					REF. DRAWING	
					DWG No.	
					SHEET No.	
					KDC5M1800	
		국동호이스트 주식회사 KUK DONG HOIST CO., LTD.				

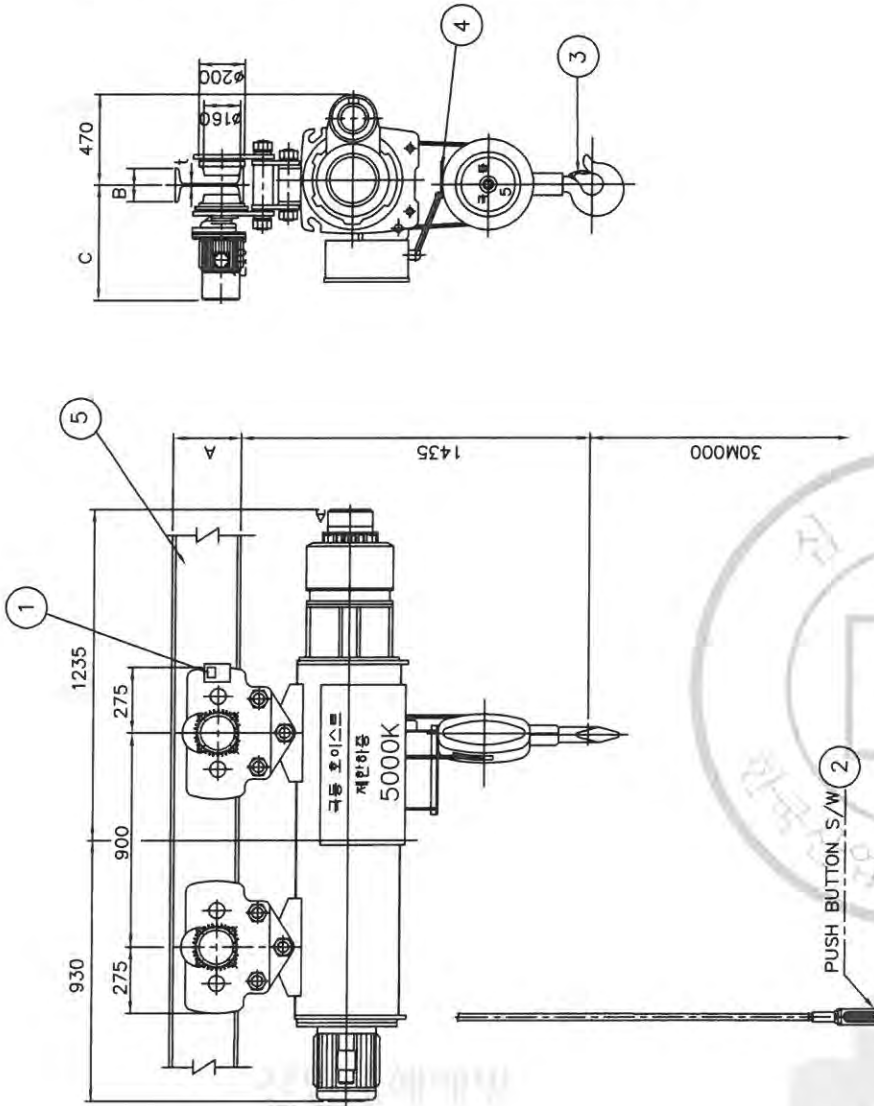
TRAVERSING I - BEAM A x B x t	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 300 x 150 x 10	12700	849	MAX. 4.5M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 5.8M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480





SPECIFICATION		
HOISTING LOAD		5000 KG
TESTING LOAD		6250 KG
LIFT		24 M
RATING		30 MIN
HOISTING	SPEED	5.6 / 0.56 M/MIN
	MOTOR	5.5 / 1.0 KW x 6 P
TRAVERSING	SPEED	24 M/MIN
	HIGH MOTOR	0.75 KW x 4 P (2UNIT)
	LOW MOTOR	16 M/MIN
	HIGH MOTOR	0.5 KW x 6 P (2UNIT)
	LOW MOTOR	24/12 M/MIN
	HIGH MOTOR	0.8/0.4 KWx4/8P (2UNIT)
WIRE ROPE	SPEED	16/8 M/MIN
	LOW MOTOR	0.5/0.25KWx6/12P(2UNIT)
		(6x37) Ø16 x 2 FALLS
POWER SOURCE		AC3Ø 220V(380,440,480,480) 60Hz
COLOR		10 B 3/5
WEIGHT		980 KG

5	I-BEAM	SS400	-				테이블 참조
4	UPPER LIMIT S/W	SS400	1				
3	SAFETY LATCH	SPC	1				
2	PENDANT S/W	-	1				
1	LOAD LIMITER	-	1				
NO.	DESCRIPTION	MTL	SUB	TOTAL	SUB	TOTAL	REMARKS.
			QTY		WEIGHT(kg)		
PROJECT							
		DATE		DIM			
				mm			
TITLE		KDC5 - L24 - M					
		ARRANGEMENT DRAWING FOR HOIST					
DRAWN		DESIGNED	CHECKED	APPROVED	SCALE	PROJECTION	
					A3/20	3rd	
					REF. DRAWING		
 KDC KUD HONG HOIST CO., LTD.		SHEET No.		DWG No.		KDC5M2400	

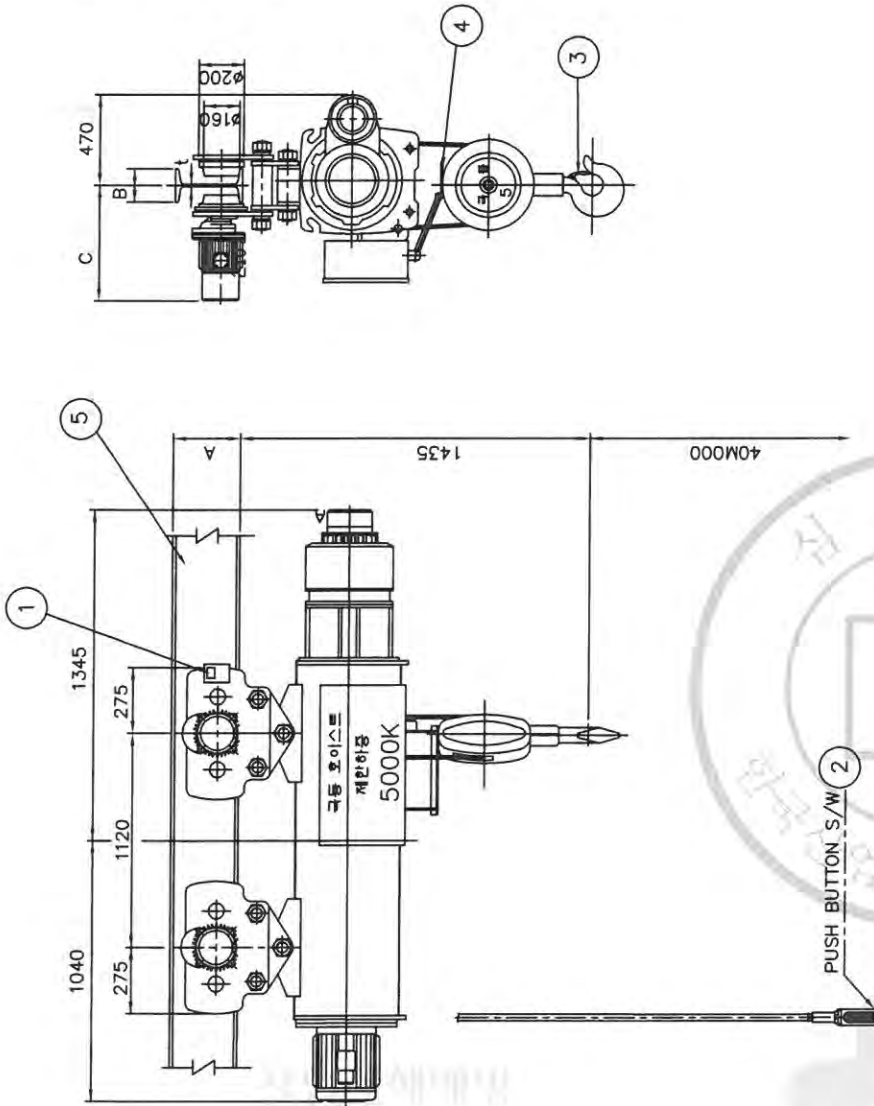


SPECIFICATION			
HOISTING LOAD	5000	KG	
TESTING LOAD	6250	KG	
LIFT	30	M	
RATING	30	MIN	
HOISTING	SPEED	5.6 / 0.56	M/MIN
	MOTOR	5.5 / 1.0 KW x 6 P	
TRAVERSING	SPEED	24	M/MIN
	MOTOR	0.75 KW x 4 P (2UNIT)	
	SPEED	16	M/MIN
	MOTOR	0.5 KW x 6 P (2UNIT)	
	SPEED	24/12	M/MIN
	MOTOR	0.8/0.4 KWx4/8P (2UNIT)	
WIRE ROPE	SPEED	16/8	M/MIN
	MOTOR	0.5/0.25KWx6/12P(2UNIT)	
		(6x37) ϕ 16 x 2 FALLS	
		AC3 ϕ 220V(380,440,460,480) 60Hz	
POWER SOURCE			
COLOR		10 B 3/5	
WEIGHT		1050	KG

5	I-BEAM	SS400	-	-	TABLE 번호
4	UPPER LIMIT S/W	SS400	1	-	
3	SAFETY LATCH	SPC	1	-	
2	PENDANT S/W	-	1	-	
1	LOAD LIMITER	-	1	-	
NO.	DESCRIPTION	MTL	SUB QTY	TOTAL WEIGHT(Kg)	REMARKS.
PROJECT					
TITLE					
ARRANGEMENT DRAWING FOR HOIST					
DRAWN					
DESIGNED					
CHECKED					
APPROVED					
DATE					
SCALE					
PROJECTION					
3rd					
REF. DRAWING					
KDC5 - L30 - M					
SHEET No.					
KDC5M3000					

TRAVERSING I - BEAM	IX (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 300 x 150 x 10	12700	849	MAX. 4.5M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 5.8M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480





SPECIFICATION				
HOISTING LOAD	5000 KG			
TESTING LOAD	6250 KG			
LIFT	40 M			
RATING	30 MIN			
HOISTING	SPEED	5.6 / 0.56 M/MIN		
	MOTOR	5.5 / 1.0 KW x 6 P		
TRAVERSING	HIGH	SPEED	24 M/MIN	
		MOTOR	0.75 KW x 4 P (2UNIT)	
	LOW	SPEED	16 M/MIN	
		MOTOR	0.5 KW x 6 P (2UNIT)	
	HIGH	SPEED	24/12 M/MIN	
		MOTOR	0.8/0.4 KWx4/8P (2UNIT)	
	LOW	SPEED	16/8 M/MIN	
		MOTOR	0.5/0.25KWx6/12P(2UNIT)	
WIRE ROPE	(6x37) ø16 x 2 FALLS			
POWER SOURCE	AC3ø 220V(380,440,460,480) 60Hz			
COLOR	10 B 3/5			
WEIGHT	1190 KG			

5	I-BEAM	SS400	-	-	-	-	-	-	-	TABLE 번호
4	UPPER LIMIT S/W	SS400	1	-	-	-	-	-	-	
3	SAFETY LATCH	SPC	1	-	-	-	-	-	-	
2	PENDANT S/W	-	1	-	-	-	-	-	-	
1	LOAD LIMITER	-	1	-	-	-	-	-	-	
NO.	DESCRIPTION	MTL	SUB QTY	TOTAL QTY	SUB WEIGHT(kg)	TOTAL WEIGHT(kg)	REMARKS.	DATE	DIM	
PROJECT										
TITLE										
ARRANGEMENT DRAWING FOR HOIST										
KDC5 - L40 - M										
SCALE										
A3/20										
REF. DRAWING										
DESIGNED										
CHECKED										
APPROVED										
KDC5M4000										
KUK DONG HOIST CO., LTD.										
SHEET No.										
DWG No.										

TRAVERSING I - BEAM	IX (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 300 x 150 x 10	12700	849	MAX. 4.5M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 5.8M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480



안전보건공단



TRAVERSING □ - BEAM	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 300 x 150 x 10	12700	849	MAX. 4.6M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 6.1M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480

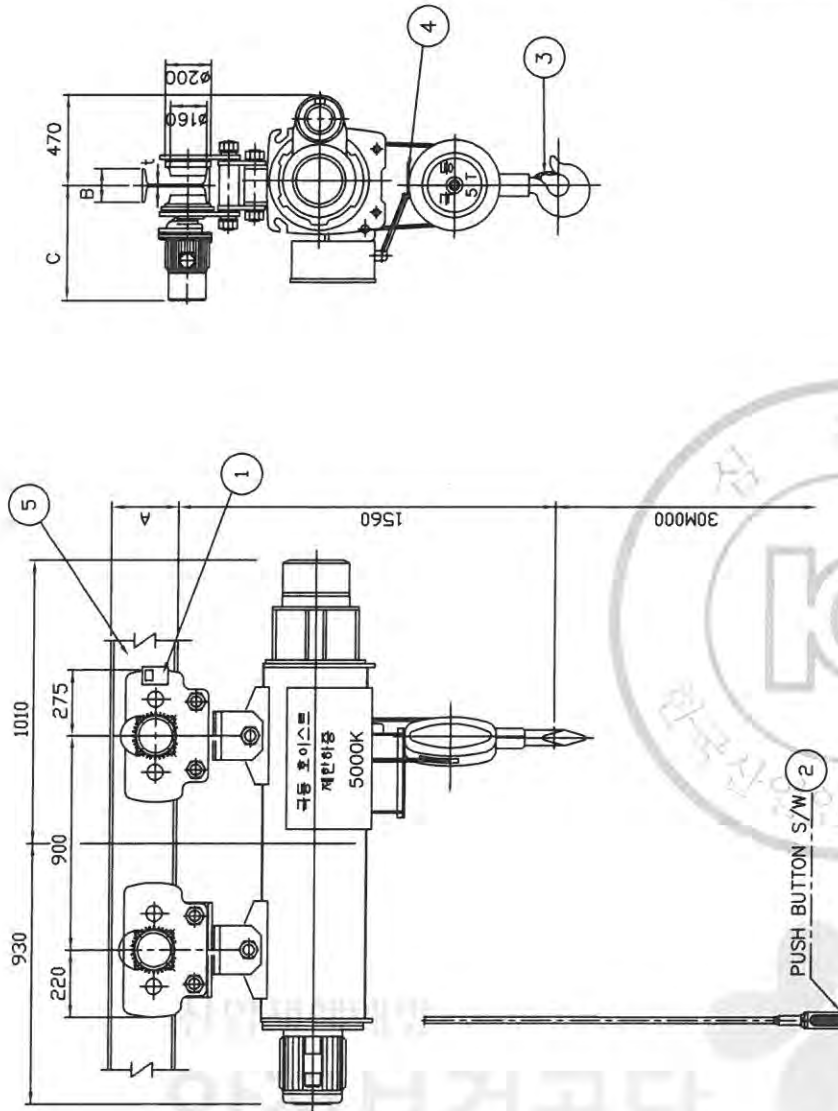




TRAVERSING □ - BEAM A x B x t	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 300 x 150 x 10	12700	849	MAX. 4.6M	465
I350 x 150 x 12	22400	1280	MAX. 5.9M	465
I400 x 150 x 10	24100	1200	MAX. 6.1M	465
I450 x 175 x 11	39200	1740	MAX. 7.7M	480



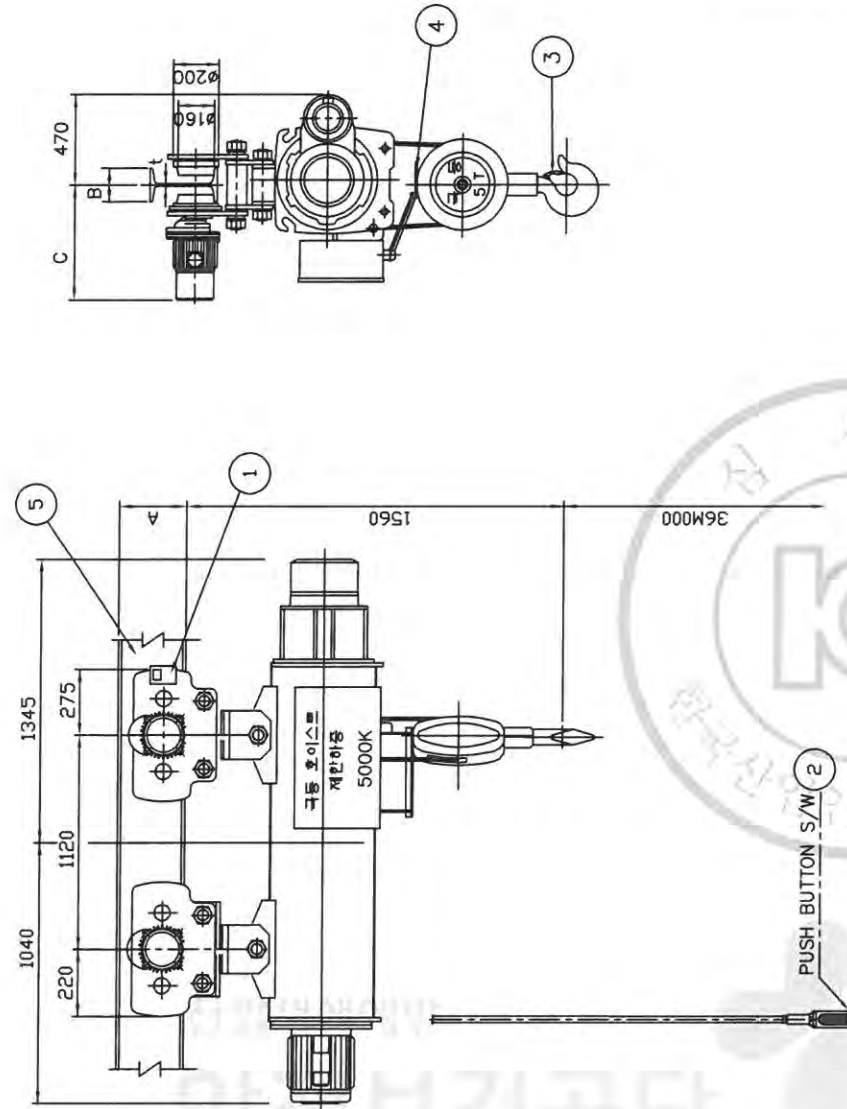
SPECIFICATION						
RATED LOAD		5000		KG		
TESTING LOAD		6250		KG		
LIFT		30		M		
RATING		30		MIN		
HOISTING	SPEED	5.6 / 0.56		M/MIN		
	MOTOR	5.5 / 1.0 KW x 6 P		6 P		
TRAVERSING	SPEED	24		M/MIN		
	MOTOR	0.75 KW x 4 P (2UNIT)				
	SPEED	16		M/MIN		
	MOTOR	0.5 KW x 6 P (2UNIT)				
	HIGH	SPEED	24/12		M/MIN	
	LOW	MOTOR	0.8/0.4 KW x 4/8P (2UNIT)			
WIRE ROPE	HIGH	SPEED	16/8		M/MIN	
	LOW	MOTOR	0.5/0.25KW x 6/12P(2UNIT)			
		(5x37) #16 x 2 FALLS				
POWER SOURCE		AC3Ø 220V(380,440,460,480)V 60Hz				
COLOR		10 B 3/5				
WEIGHT		1080		KG		



TRAVERSING □ - BEAM	IX (Cm ⁴)	Zx (Cm ³)	SUPPORT LENGTH	C
A x B x t				
I 300 x 150 x 10	12700	849	MAX. 4.6M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 6.1M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480



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					
TITLE		KDC5 - L30 - M - H					
DRAWN		ARRANGEMENT DRAWING FOR HOIST					
		DESIGNED CHECKED APPROVED					
		SHEET NO. DRAWING NO.					
		KDC5M3000H					

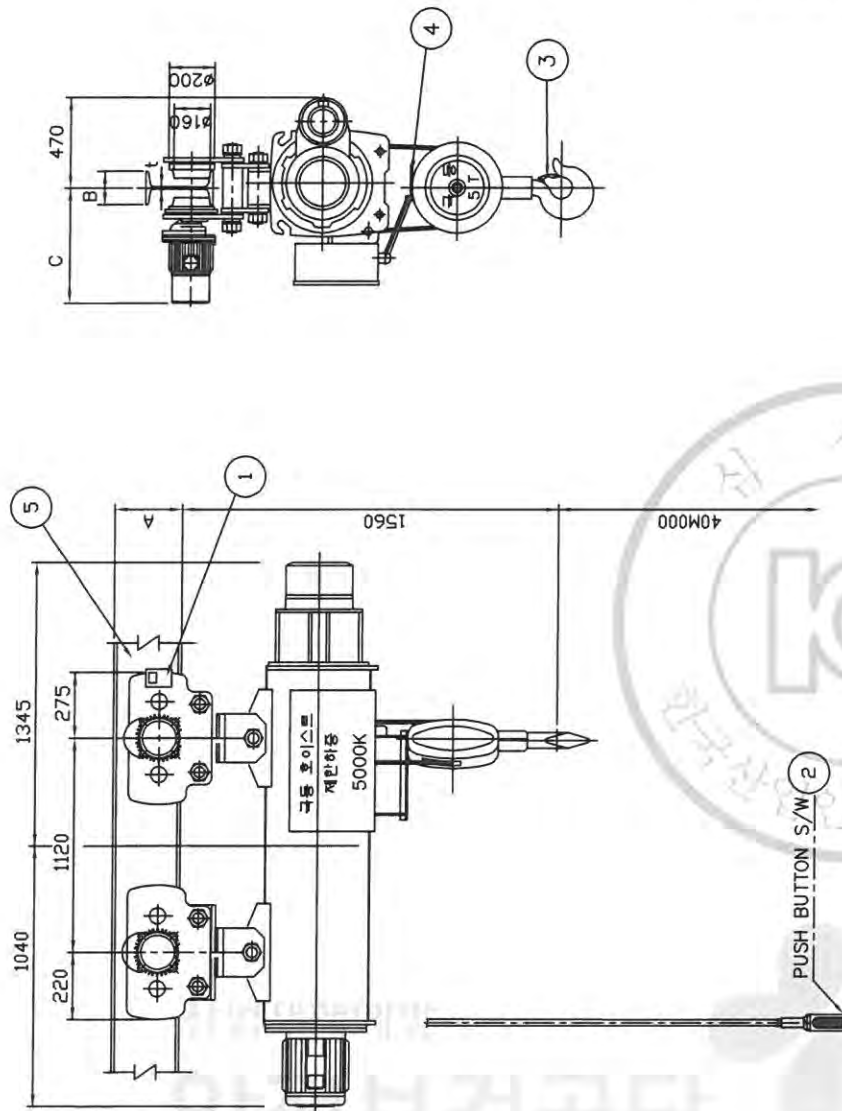


SPECIFICATION				
RATED LOAD	5000	KG		
TESTING LOAD	6250	KG		
LIFT	36	M		
RATING	30	MIN		
HOISTING	SPEED	5.6 / 0.56	M/MIN	
	MOTOR	5.5 / 1.0 KW x 6 P		
TRAVERSING	HIGH	SPEED	24	M/MIN
		MOTOR	0.75 KW x 4 P (2UNIT)	
	LOW	SPEED	16	M/MIN
		MOTOR	0.5 KW x 6 P (2UNIT)	
	HIGH	SPEED	24/12	M/MIN
		MOTOR	0.8/0.4 KW x 4/8P (2UNIT)	
WIRE ROPE	LOW	SPEED	16/8	M/MIN
		MOTOR	0.5/0.25KW x 6/12P(2UNIT)	
(6x37) $\phi 16$ x 2 FALLS				
POWER SOURCE	AC3 ϕ 220V(380,440,460,480)V 60Hz			
COLOR	10 B 3/5			
WEIGHT	1152 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	UNIT	TOTAL		REMARKS			
			QTY		WEIGHT KG.					
PROJECT						DATE				
						20 . . .				
TITLE	KDC5 - L36 - M - H				SCALE					
	ARRANGEMENT DRAWING FOR HOIST				A3/20 /					
	DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING					
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.						
				KDC5M3600H						

TRAVERSING I - BEAM	IX	Zx	SUPPORT LENGTH	C
A x B x t	(Cm ⁴)	(Cm ³)		
I 300 x 150 x 10	12700	849	MAX. 4.6M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 6.1M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480





SPECIFICATION		
RATED LOAD	5000	KG
TESTING LOAD	6250	KG
LIFT	40	M
RATING	30	MIN
HOISTING	SPEED	5.6 / 0.56 M/MIN
	MOTOR	5.5 / 1.0 KW x 6 P
TRAVERSING	SPEED	24 M/MIN
	MOTOR	0.75 KW x 4 P (2UNIT)
	SPEED	16 M/MIN
	MOTOR	0.5 KW x 6 P (2UNIT)
WIRE ROPE	HIGH	24/12 M/MIN
	LOW	0.8/0.4 KW x 4/8P (2UNIT)
	HIGH	16/8 M/MIN
	LOW	0.5/0.25KW x 6/12P(2UNIT)
POWER SOURCE	(6x37) ø16 x 2 FALLS	
COLOR	AC3Ø 220V(380,440,460,480)V 60HZ	
WEIGHT	10 B 3/5	
	1210	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 QTY	UNIT	TOTAL WEIGHT KG.	REMARKS
PROJECT		DATE				
TITLE		20 . . .				
DRAWN		SCALE				
		A3 / 20 /				
		REF DRAWING				
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.		
				KDC5M4000H		

TRAVERSING □ - BEAM	I _x (Cm ⁴)	Z _x (Cm ³)	SUPPORT LENGTH	C
I 300 x 150 x 10	12700	849	MAX. 4.6M	465
I 350 x 150 x 12	22400	1280	MAX. 5.9M	465
I 400 x 150 x 10	24100	1200	MAX. 6.1M	465
I 450 x 175 x 11	39200	1740	MAX. 7.7M	480



KDC5-L6(9, 12, 18, 24, 30, 36, 40)-M

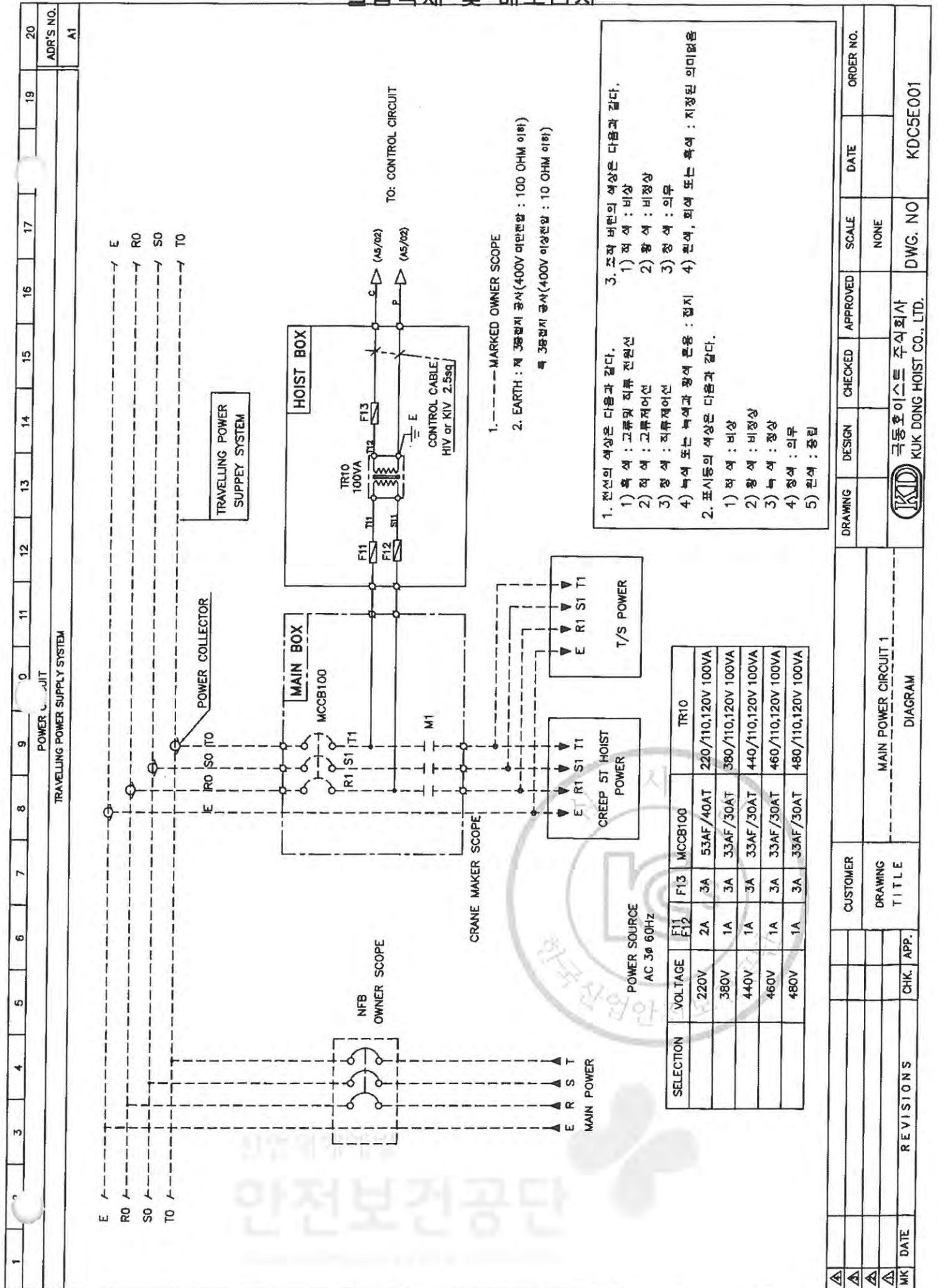
KDC5-L18(24, 30, 36, 40) - M-H

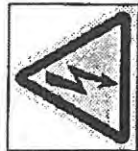


국민안전개발
안전보건공단



한국산업안전보건공단 (KOSHA)



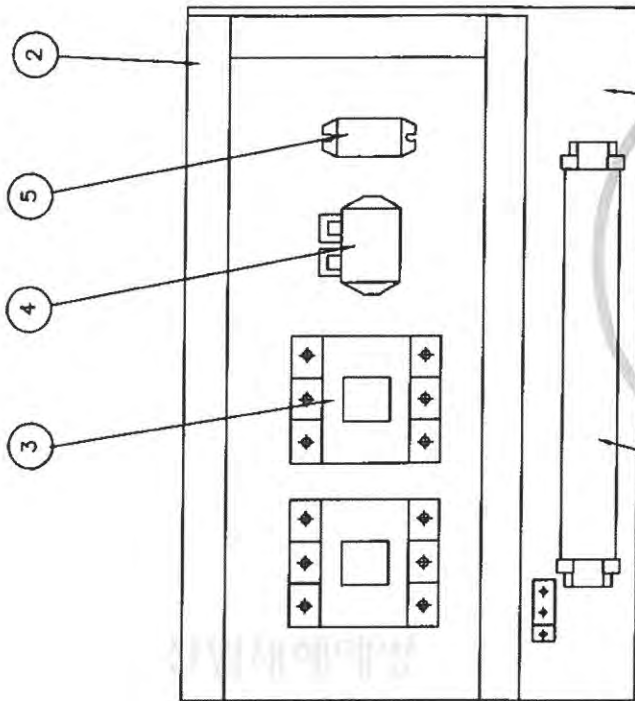


2) 외함 기판 후 증진되어 있는 부분은 IP2Y 이상의 질량 비중 감소가 다시 일어

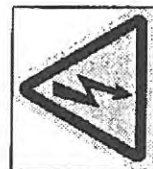
3. EARTH TERMINAL RESISTANCE : 0.018Ω

KDC5BA21

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																			ADR'S NO.

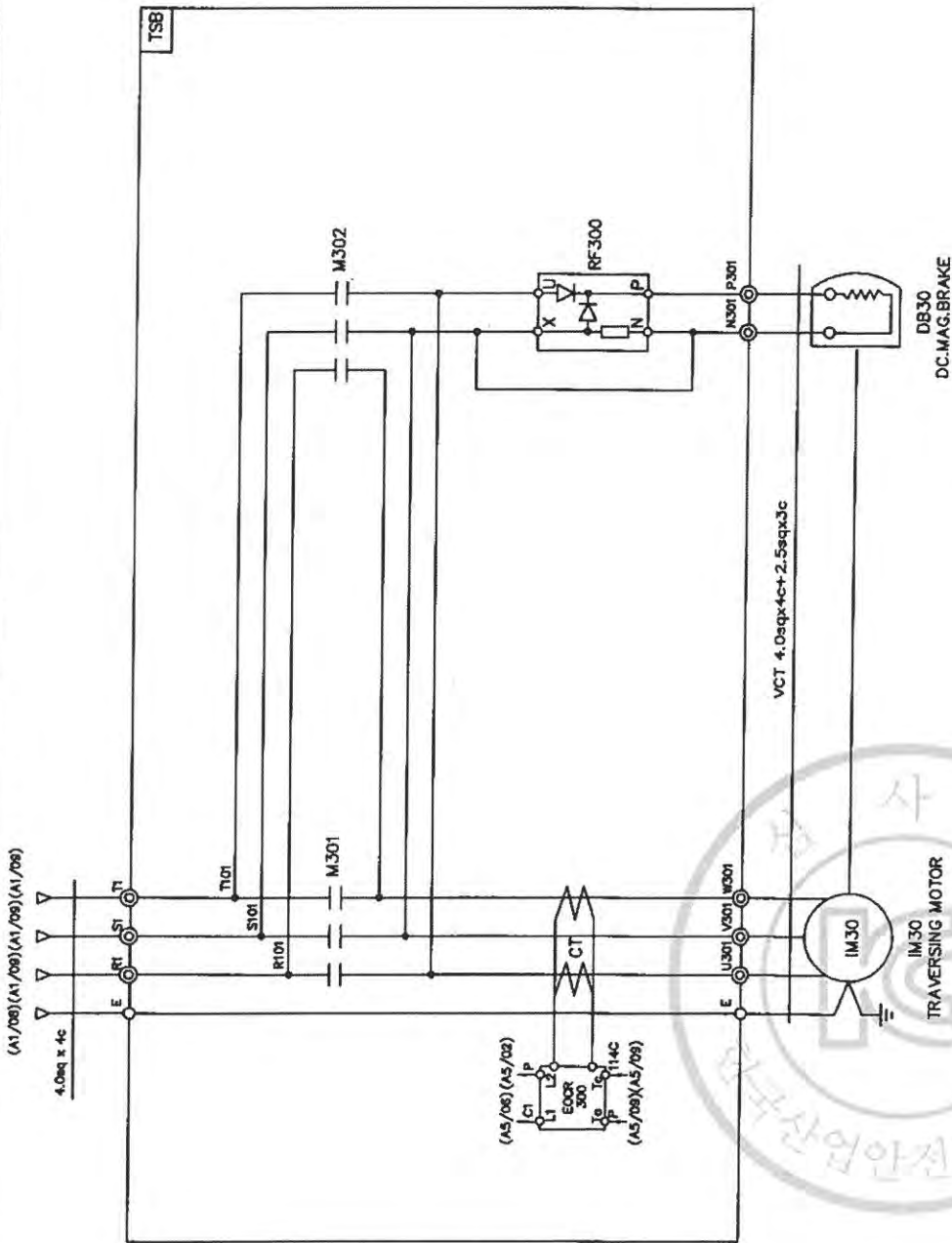


NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING



△										DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
△																
△																
△																
△																
MK	DATE															
												극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		DWG. NO		KDC5bt22
										TRAVERSING POWER CONTROL BOX						
										DRAWING T I T L E						
										ARRANGEMENT DRAWING						
R E V I S I O N S										CHK.	APP.					

TO: L
LIMIT

[illegible]

Δ		REV
MK	DATE	

[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	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V(120V), 100VA	1	
14	UPPER LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

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

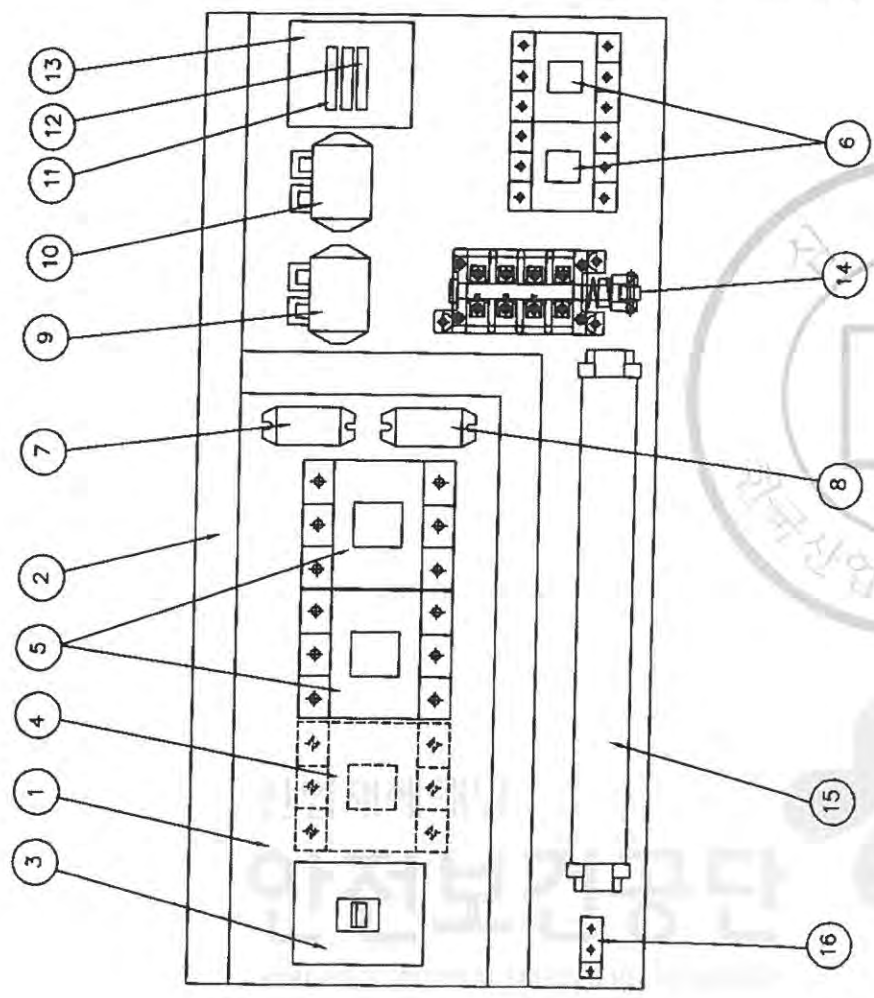
2. CABLE MATERIAL : KIV OR EQUIVALENT

3. 제어용 전선 : 2.5mm KIV,HIV MIN SIZE : 2.5sq

4. 제작시 다소 변경 될수있음.

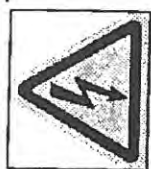
5. 외함 개방구조는 다음과 같음.

- 1) 외함 개방시 충전부분이 차단되도록 함.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



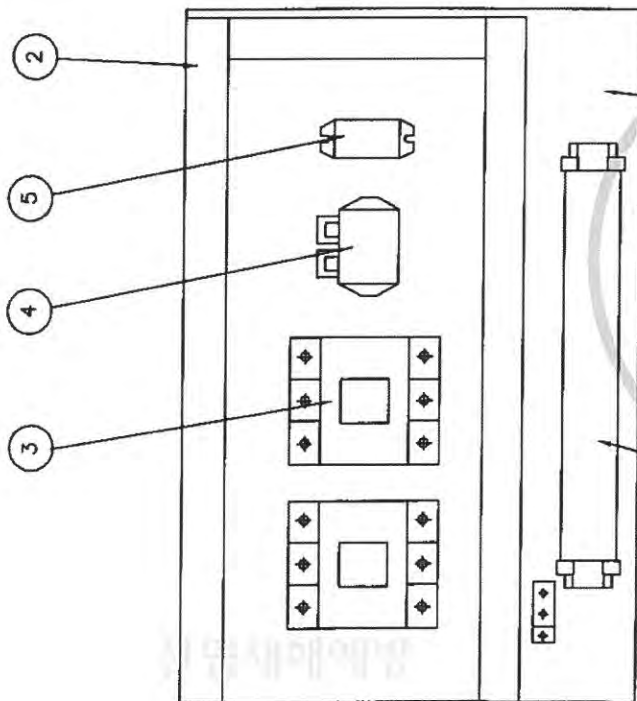
NOTE

1. UPPER LIMIT LS-1,LS-2의 전정 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC, 3ø 380V 50HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

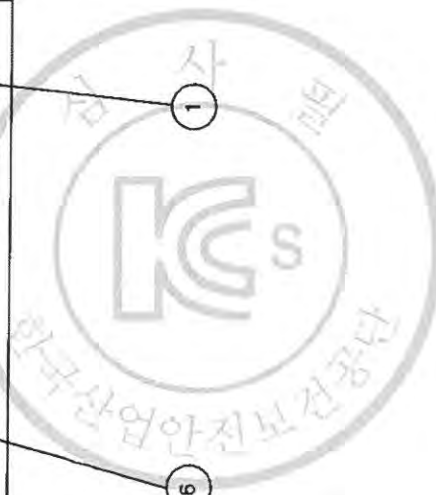


DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CREEP HOIST CONTROL BOX					NONE		
ARRANGEMENT DRAWING		KUD KUK DONG HOIST CO., LTD.			DWG. NO	KDC5BA31	
CUSTOMER							
DRAWING TITLE							
REVISIONS	CHK.	APP.					
DATE							

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																			ADR'S NO.

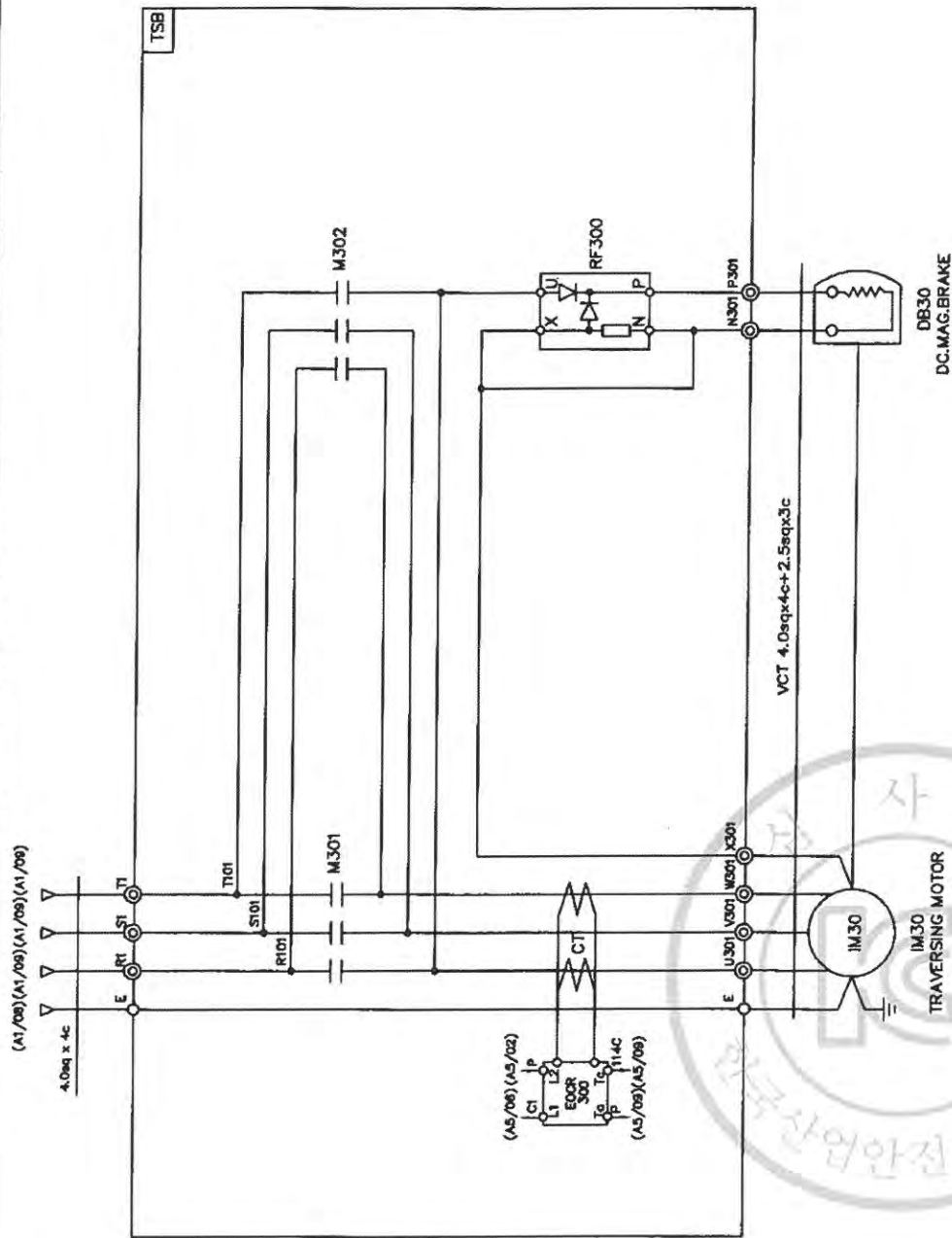


NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 급
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING

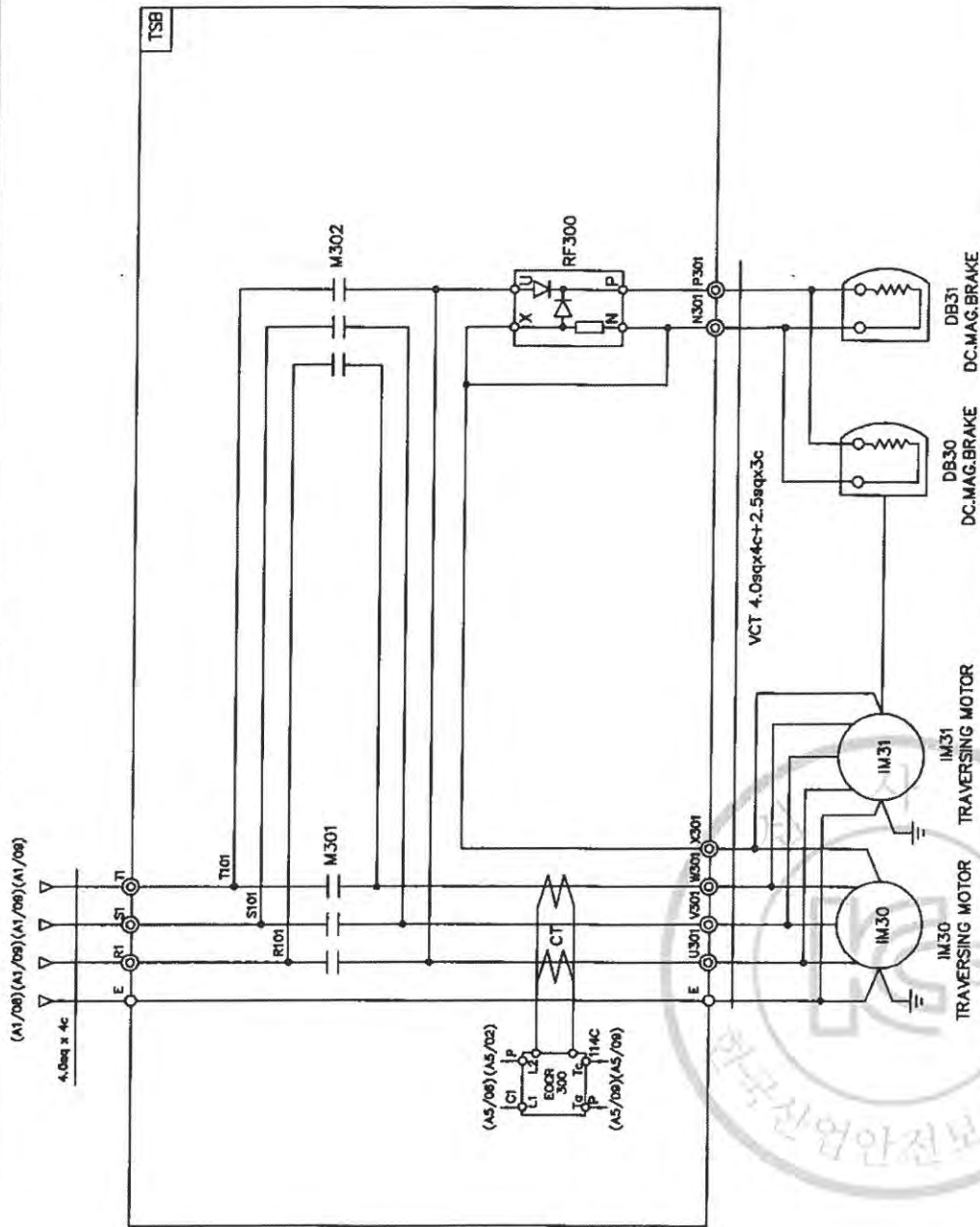


Δ																			
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MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER					DRAWING TITLE					ORDER NO.				
										TRAVERSING POWER CONTROL BOX									
										ARRANGEMENT DRAWING									
										극동호이스트 주식회사					DWG. NO				
										KUK DONG HOIST CO., LTD.					KDC5bt32				

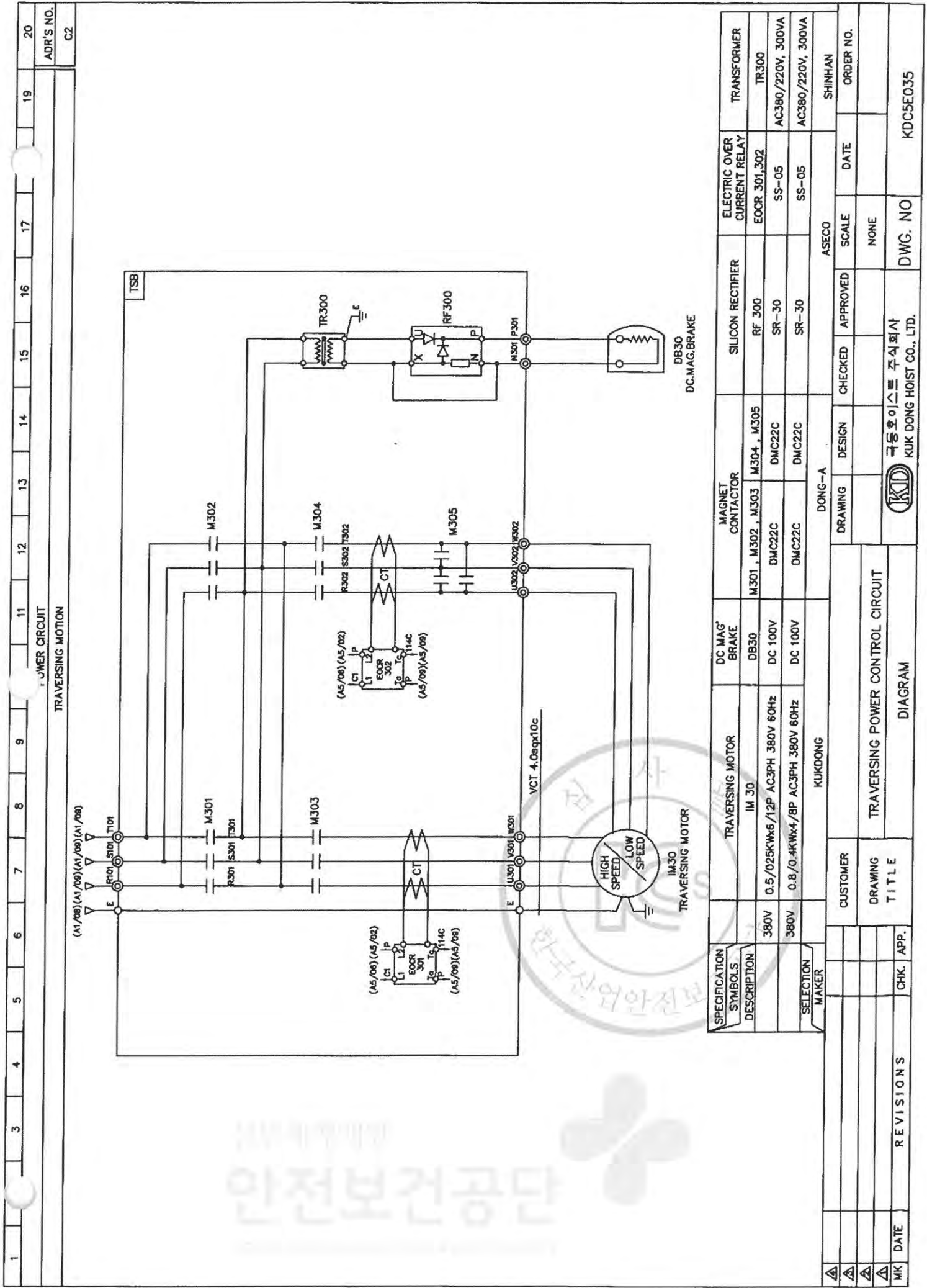
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
																			ADR'S NO.
																			G1

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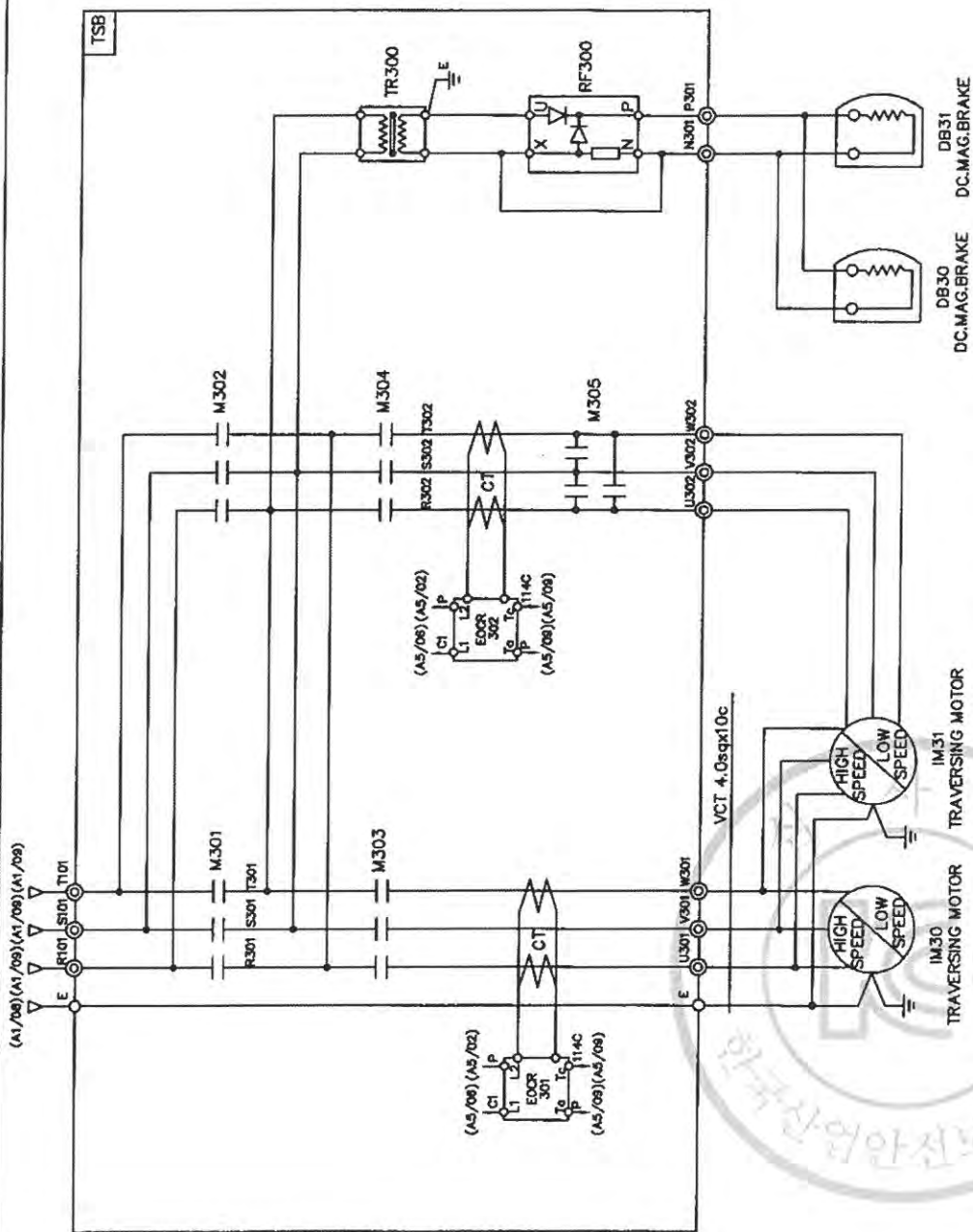
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



SPECIFICATION SYMBOLS		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		LIMIT SWITCH	
DESCRIPTION		IM 30, 1M31		DB 30		M301, M302		RF 300		EOCR 300		LS-301, LS-302	
0.75KW x 4P AC 3PH 380V 60Hz				DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-30		HY - W904	
0.5KW x 6P AC 3PH 380V 60Hz				DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-30		HY - W904	
SELECTION MAKER		KUKDONG				DONG-A		ASECO					
CUSTOMER						DRAWING		DESIGN		CHECKED		APPROVED	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT										SCALE	
												DATE	
REVISIONS												DWG. NO	
CHK. APP.												KDC5E34	
DATE												ORDER NO.	



SPECIFICATION		SYMBOLS		DESCRIPTION		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30		0.5/0.25KWx6/12P AC3PH 380V 60Hz		M301, M302, M303, M304, M305		RF 300		EOCR 301,302		TR300	
DC MAG. BRAKE		DB30		DC 100V		DMC22C		SR-30		SS-05		AC380/220V, 300VA	
TRAVERSING MOTOR		IM 30		0.8/0.4KWx4/8P AC3PH 380V 60Hz		DMC22C		SR-30		SS-05		AC380/220V, 300VA	
SELECTION		MAKER		KUKDONG		DONG-A		ASECO		SHINHAN			
CUSTOMER		DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		DRAWING		DESIGN		APPROVED		SCALE	
DATE		REVISIONS		CHK. APP.		KUKDONG HOIST CO., LTD.		NONE		DATE		ORDER NO.	
MK		DWG. NO		KDC5E035		DWG. NO		KDC5E035		DWG. NO		KDC5E035	

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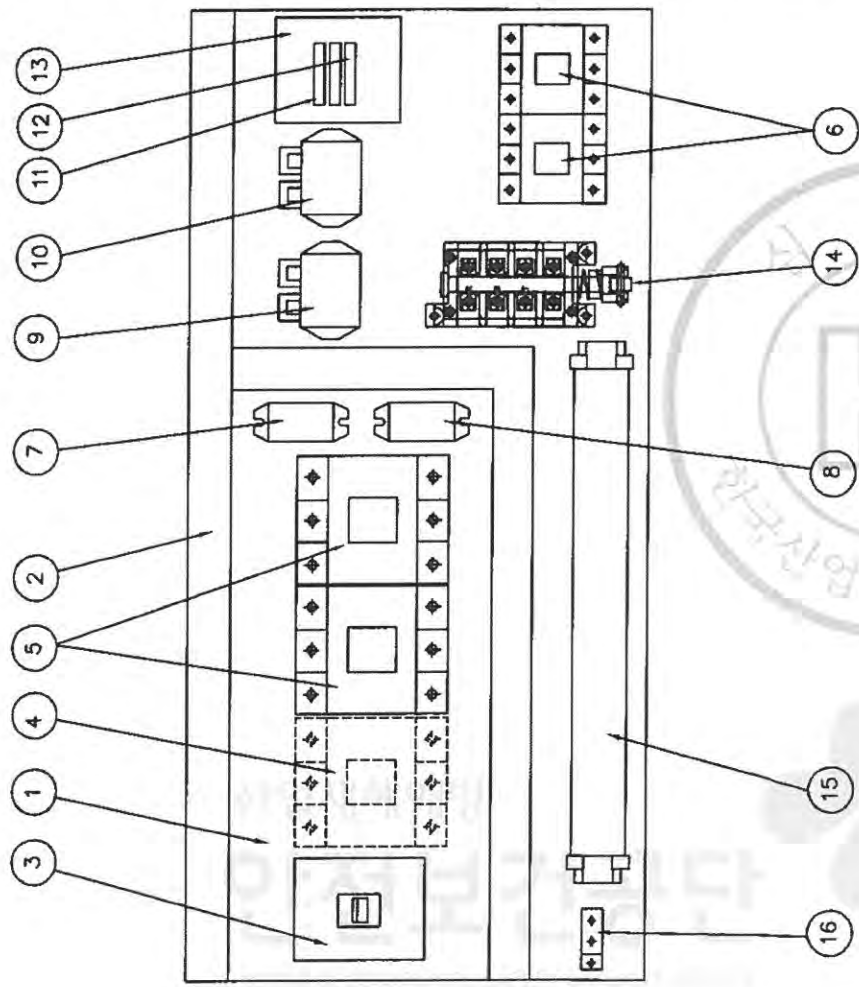
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	하 전 도 금
2	CABLE DUCT	-	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V(120V), 100VA	1	
14	UPPER LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

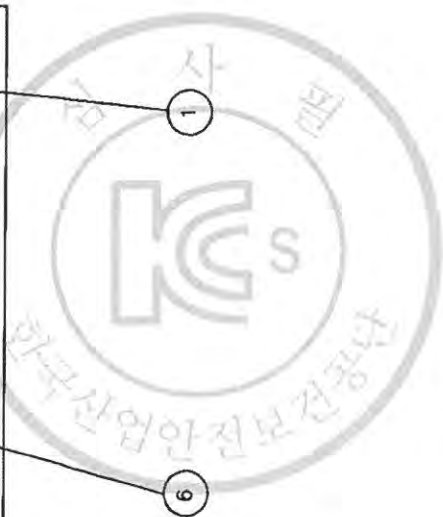
- 1) 흑색 : 교류 및 직류 전원선으로
 - 2) 적색 : 교류제어선
 - 3) 주황색 : 외부 전원에서 공급되는 운동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제라시 다소 변경 필수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 충전부분이 차단되도록 할것.
- 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NOTE

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

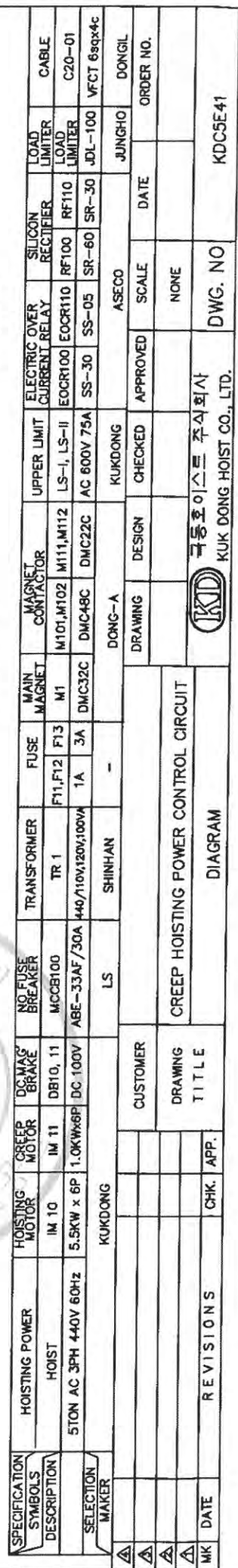


DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CREEP HOIST CONTROL BOX					NONE		
ARRANGEMENT DRAWING		KUD KUK DONG HOIST CO., LTD.			DWG. NO	KDCSBA41	
CUSTOMER							
DRAWING TITLE							
REVISIONS	CHK.	APP.					
MK	DATE						

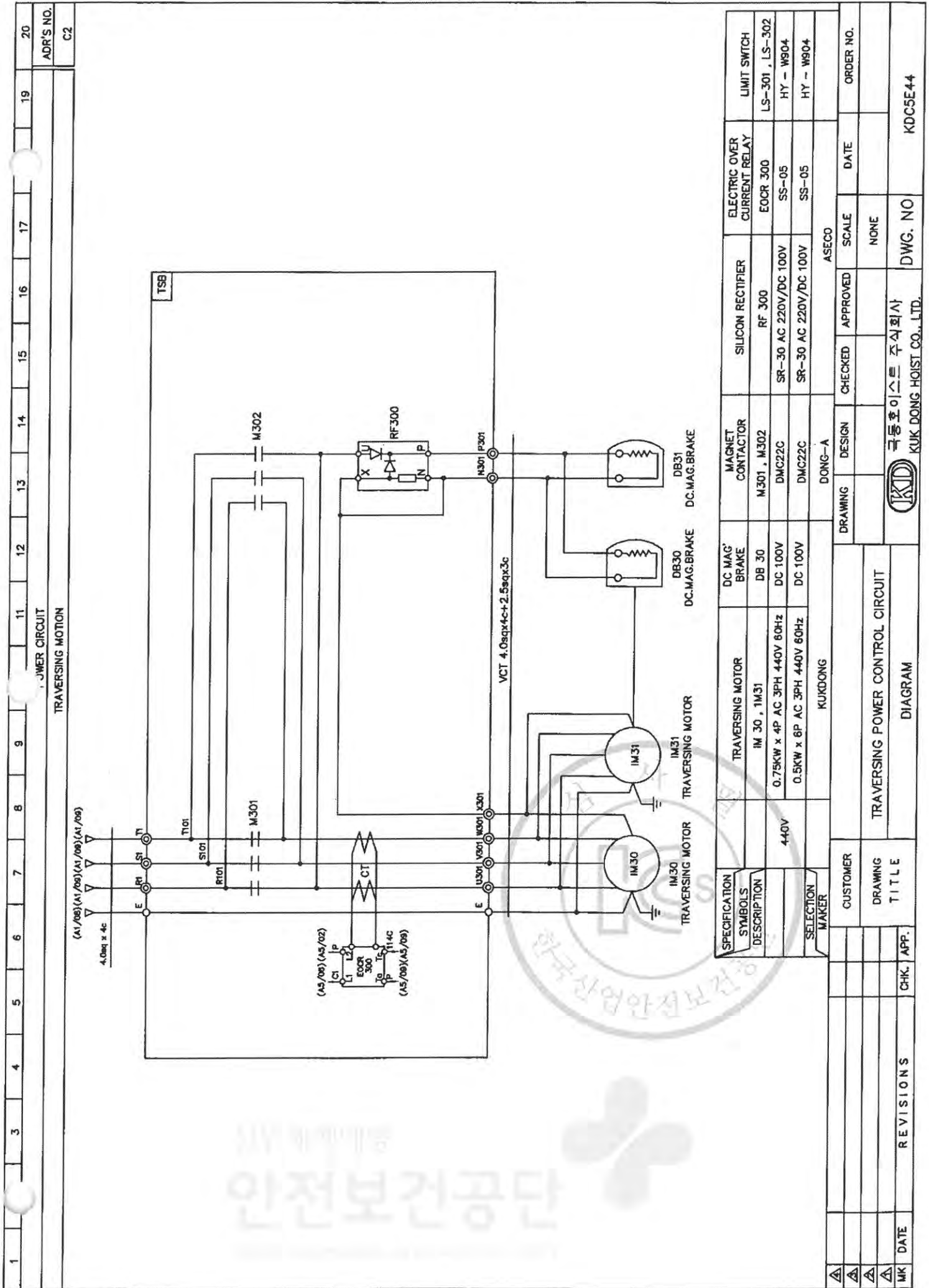


NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A, 15A	1	TRAVERSING

[illegible]



[illegible]





SPECIFICATION SYMBOLS DESCRIPTION	TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	TRANSFORMER							
							IM 30, 1M31	M301, M302, M303	M304, M305	RF 300	EOCR 301,302	TR300	
							440V	0.5/0.25KwX6/12P AC3PH 440V 60Hz	DC 100V	DMC22C	DC 100V	SS-05	AC440/220V, 300VA
							440V	0.8/0.4KwX4/8P AC3PH 440V 60Hz	DC 100V	DMC22C	DC 100V	SS-05	AC440/220V, 300VA
SELECTION MAKER	KUKDONG	DONG-A	ASECO	SHINHAN									
CUSTOMER	TRAVERSING POWER CONTROL CIRCUIT	DRAWING TITLE	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.				
REVISIONS	DATE	CHK. APP.	 KDK			KDK 호이스트 주식회사 KUK DONG HOIST CO., LTD.			DWG. NO.				
KDC5E046													

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 글
2	CABLE DUCT	-	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V(120V), 100VA	1	
14	UPPER LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.
 1) 흑색 : 교류 및 직류 전원선
 2) 적색 : 교류 제어선
 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 4) 녹색 또는 노색과 황색 혼용 : 접지선
 2. CABLE MATERIAL : KIV OR EQUIVALENT
 MIN SIZE : 2.5sq
 3. 제어용 전선 : 2.5mm KIV,HIV
 4. 제자리 다소 변경 될수있음.
 5. 외관 기법구조는 다음과 같음.
 1) 외함 개방시 충전부분이 차단되도록 함.
 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있음.

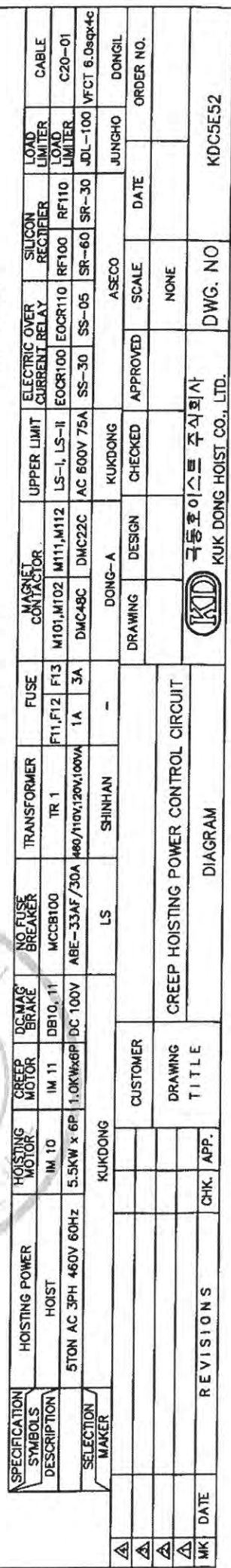
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		

CREEP HOIST CONTROL BOX
 ARRANGEMENT DRAWING

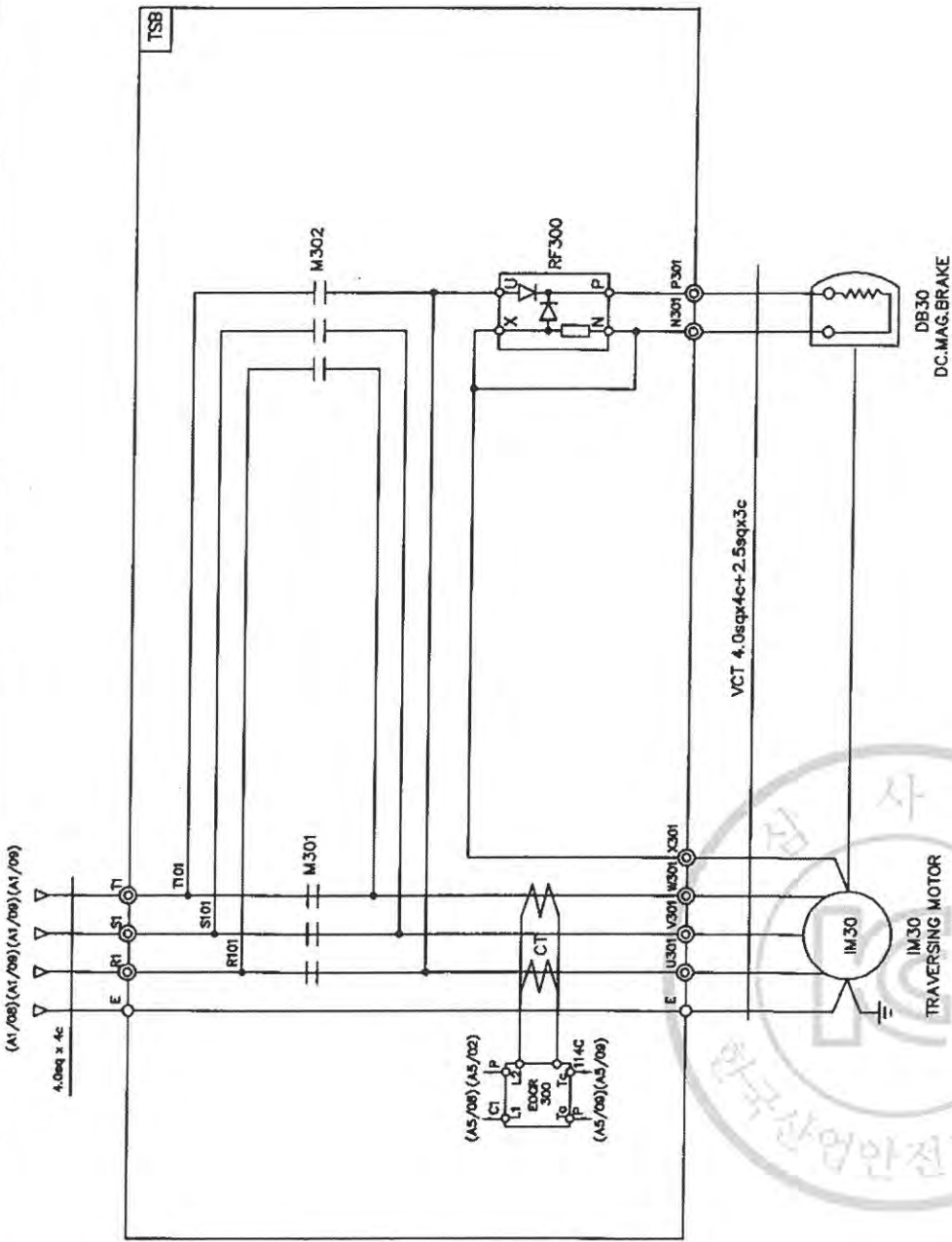
CUSTOMER	REVISIONS	CHK	APP.	DATE	DWG. NO	KDC5BA51



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REVISIONS								CHK.	APP.							
MK	DATE							DRAWING TITLE		CUSTOMER						
TRAVERSING POWER CONTROL BOX																
ARRANGEMENT DRAWING																
												극동호이스트 주식회사 KUJ DONG HOIST CO., LTD.			DWG. NO	KDc5bt52

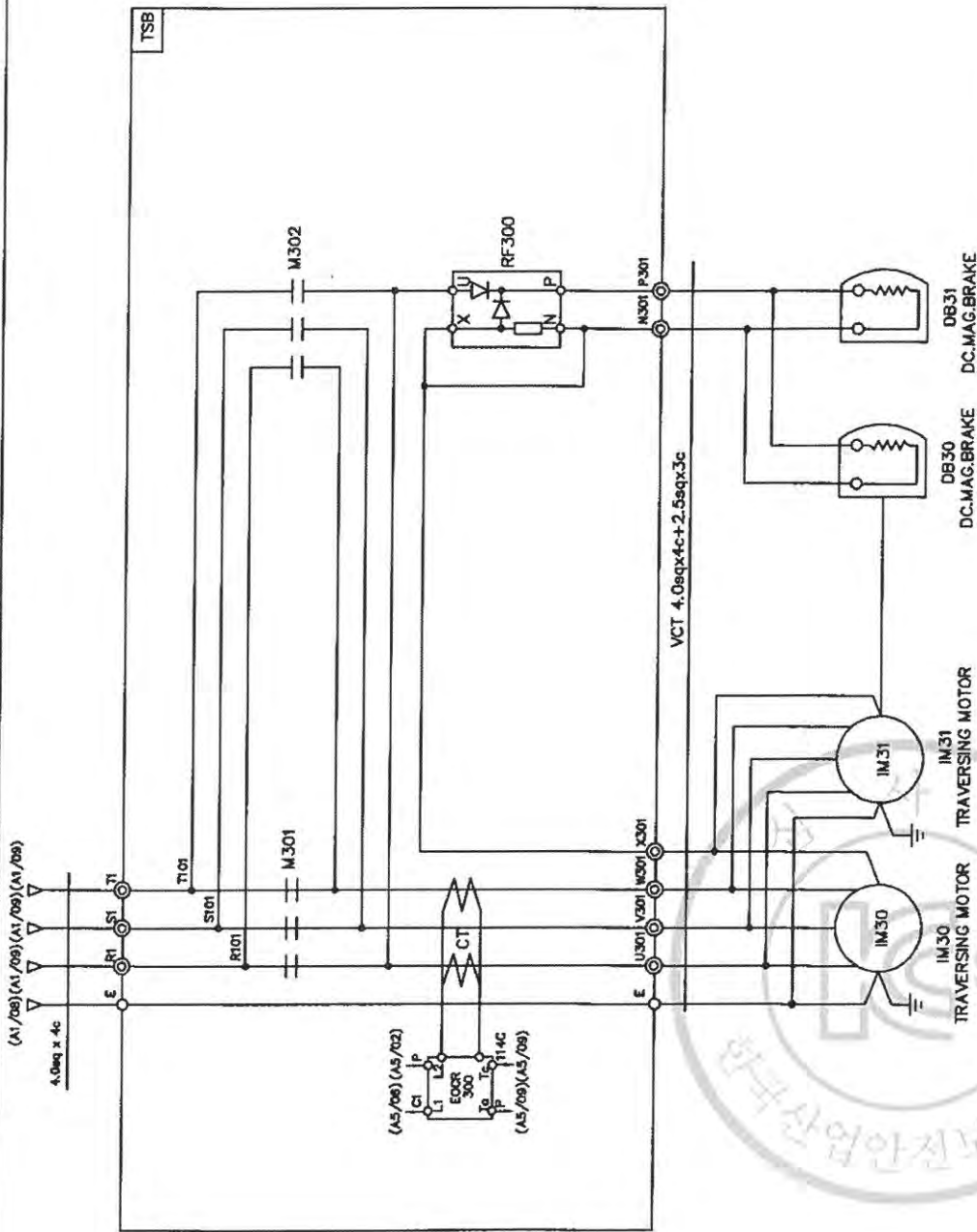


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C1



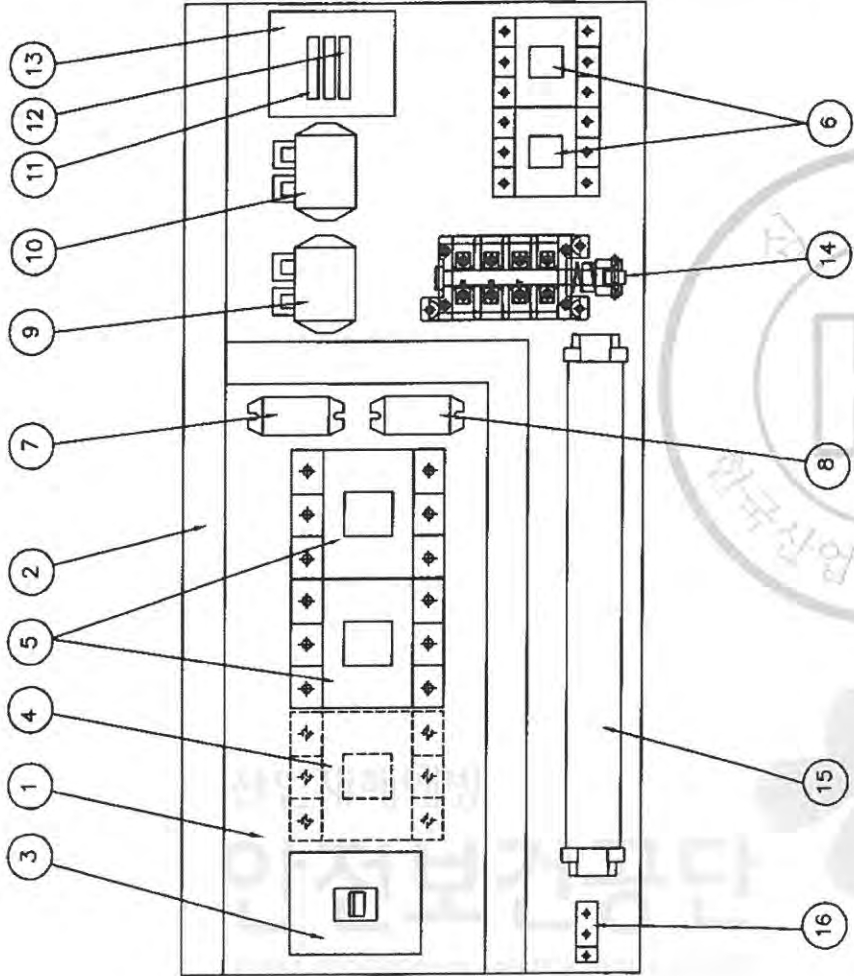
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
										POWER CIRCUIT											
										TRAVERSING MOTION											
																		ADR'S NO.			
																		C2			

[illegible]



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



NOTE

1. 전선의 색상은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전원선
 - 2) 적색 : 교류 제어선
 - 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 노색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방후 충전부분이 차단되도록 함것.
- 1) 외함 개방후 충전부분이 차단되도록 함것.
- 2) 외함 개방후 충전부분이 차단되도록 함것.

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

2. POWER SOURCE : AC. 3φ 480V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω



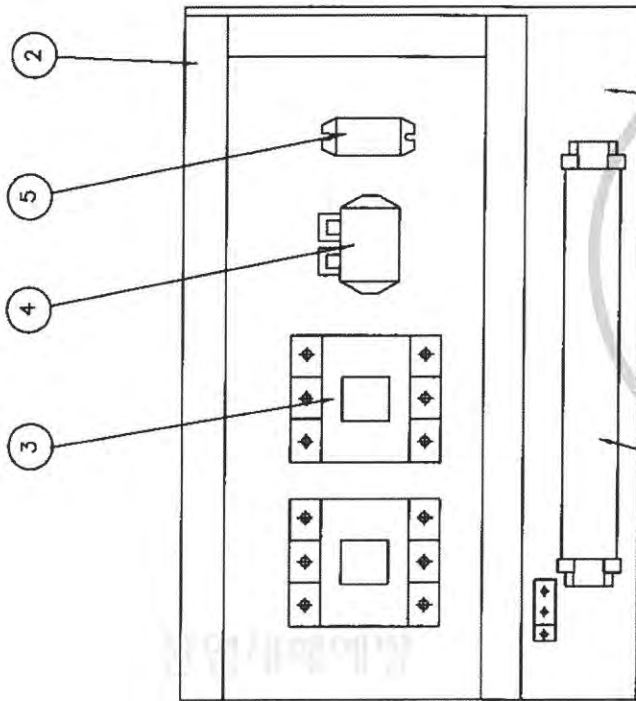
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	33AF/30AT	1	HOISTING
4	MAGNET CONTACTOR	DMC32C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC48C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	CREEP HOIST
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	CREEP HOIST
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	CREEP HOIST
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V(120V), 100VA	1	
14	UPPER LIMITER	AC 600V, 75A	1	LS-1,2
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE

1. 전선의 색상은 다음과 같다.
 - 1) 흑색 : 교류 및 직류 전원선
 - 2) 적색 : 교류 제어선
 - 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 노색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
4. 제작시 다소 변경 될수있음.
5. 외함 개방후 충전부분이 차단되도록 함것.
- 1) 외함 개방후 충전부분이 차단되도록 함것.
- 2) 외함 개방후 충전부분이 차단되도록 함것.

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CREEP HOIST CONTROL BOX						
ARRANGEMENT DRAWING						
KUD KUK DONG HOIST CO., LTD.						KDC5BA61

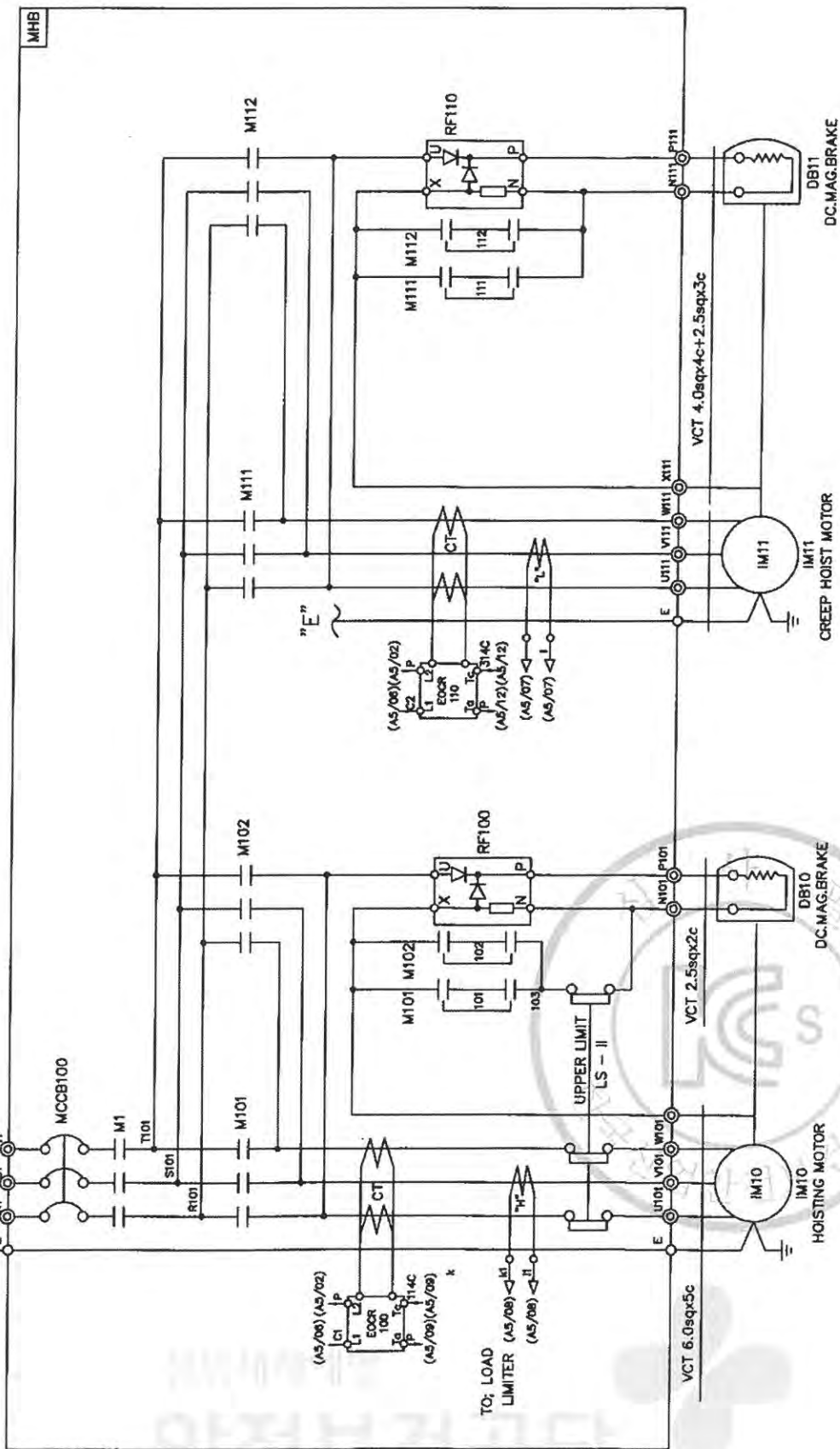
DATE	REVISIONS	CHK.	APP.	CUSTOMER



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

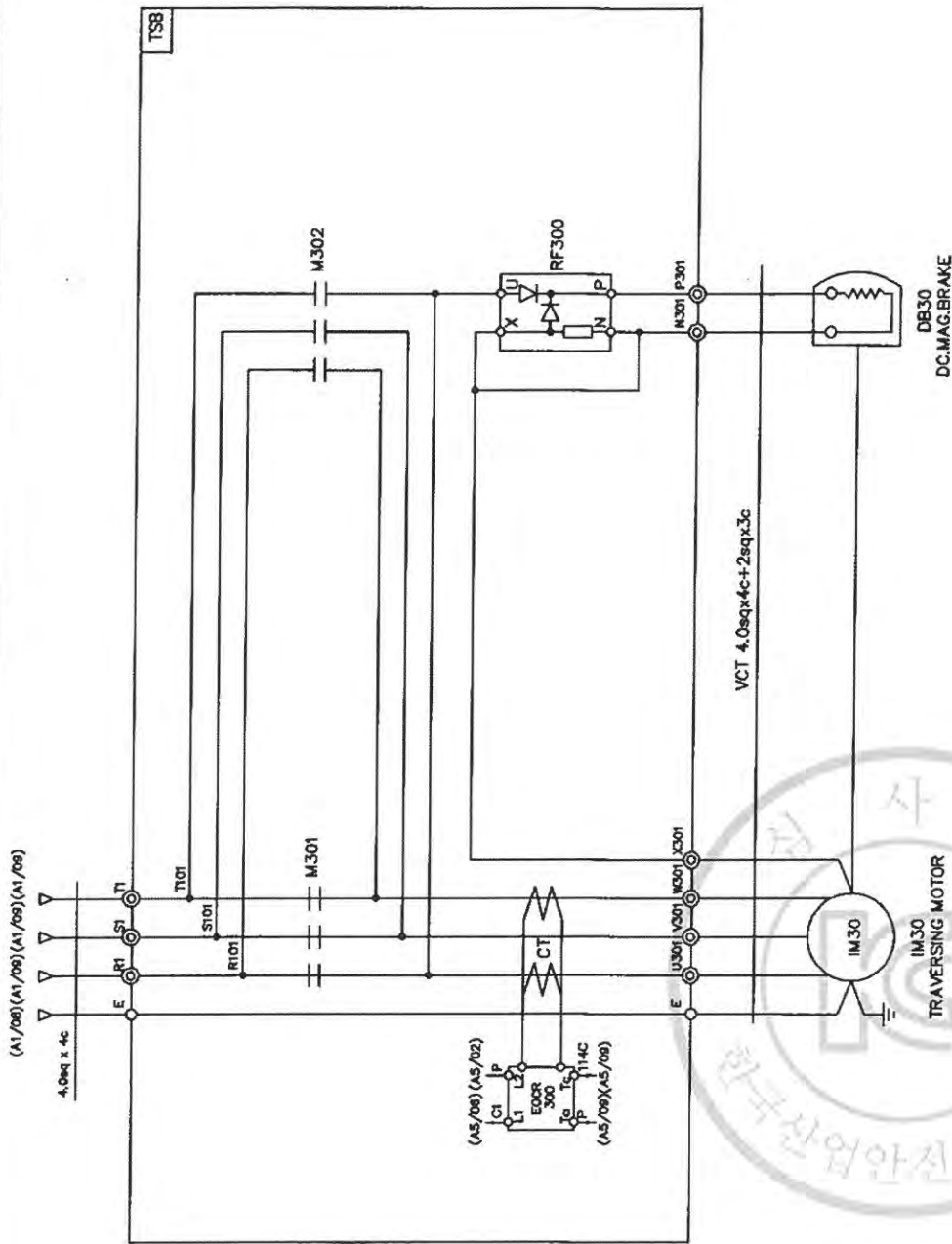
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT										CREEP HOIST MOTION									
HOISTING MOTION										CREEP HOIST MOTION									
C20-01										B1									
ADR'S NO.										B1									

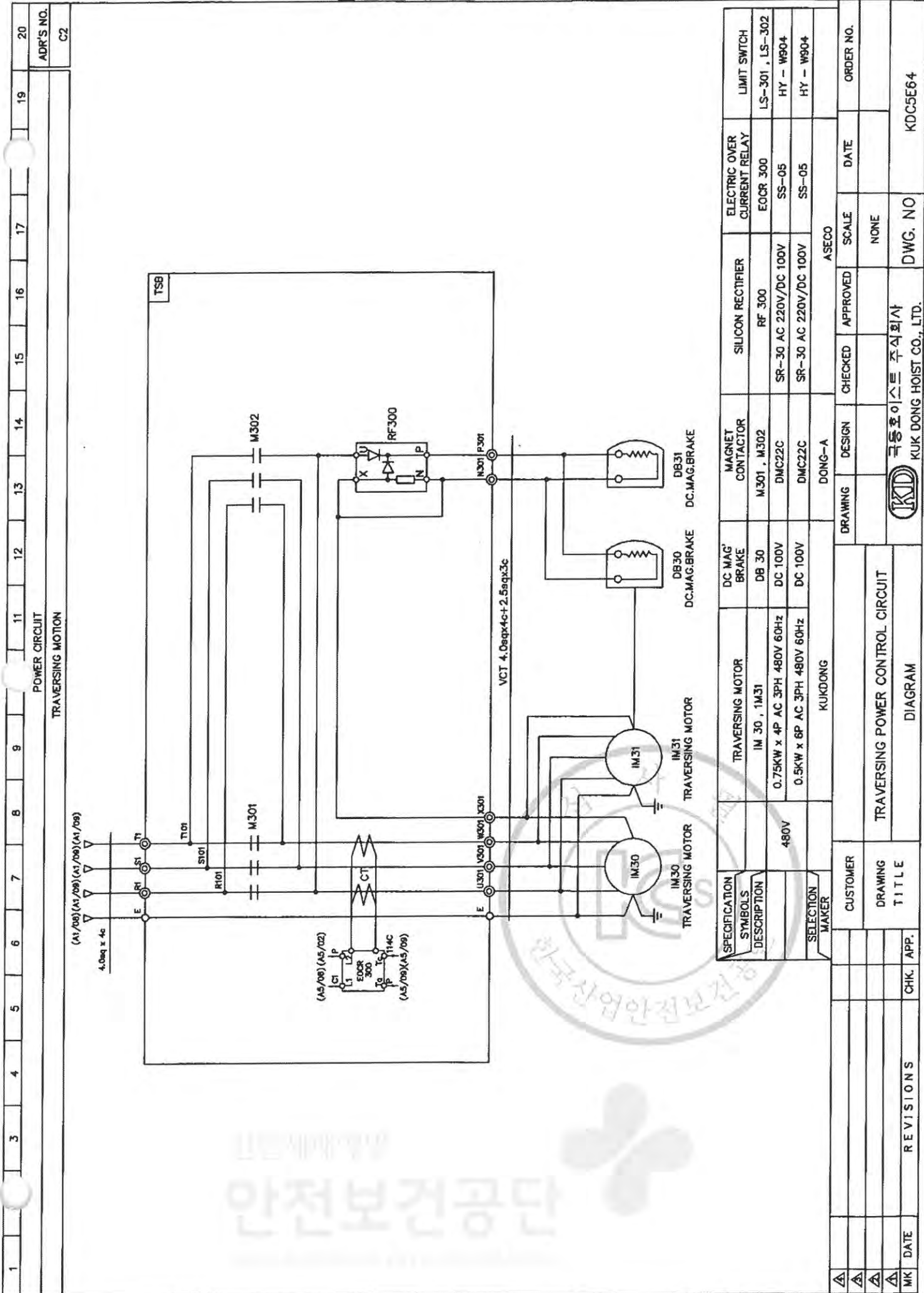


SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	5TON AC 3PH 480V 60Hz	IM 10	IM 11	DB10, 11	MCCB100	TR 1	F11, F12	M1	M101, M102	LS-I, LS-II	EOCR100	RF100	LDL-100	C20-01
SELECTION/MAKER														
MAKER														
DATE														
REVISIONS														
CHK.														
APP.														
CREEP HOISTING POWER CONTROL CIRCUIT										DWG. NO				
DIAGRAM										KDC5E61				
CUSTOMER										DATE				
DRAWING TITLE										SCALE				
KUKDONG										JUNGHU				
KUKDONG										DONGIL				
KUKDONG										ORDER NO.				
KUKDONG										KDC5E61				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C1

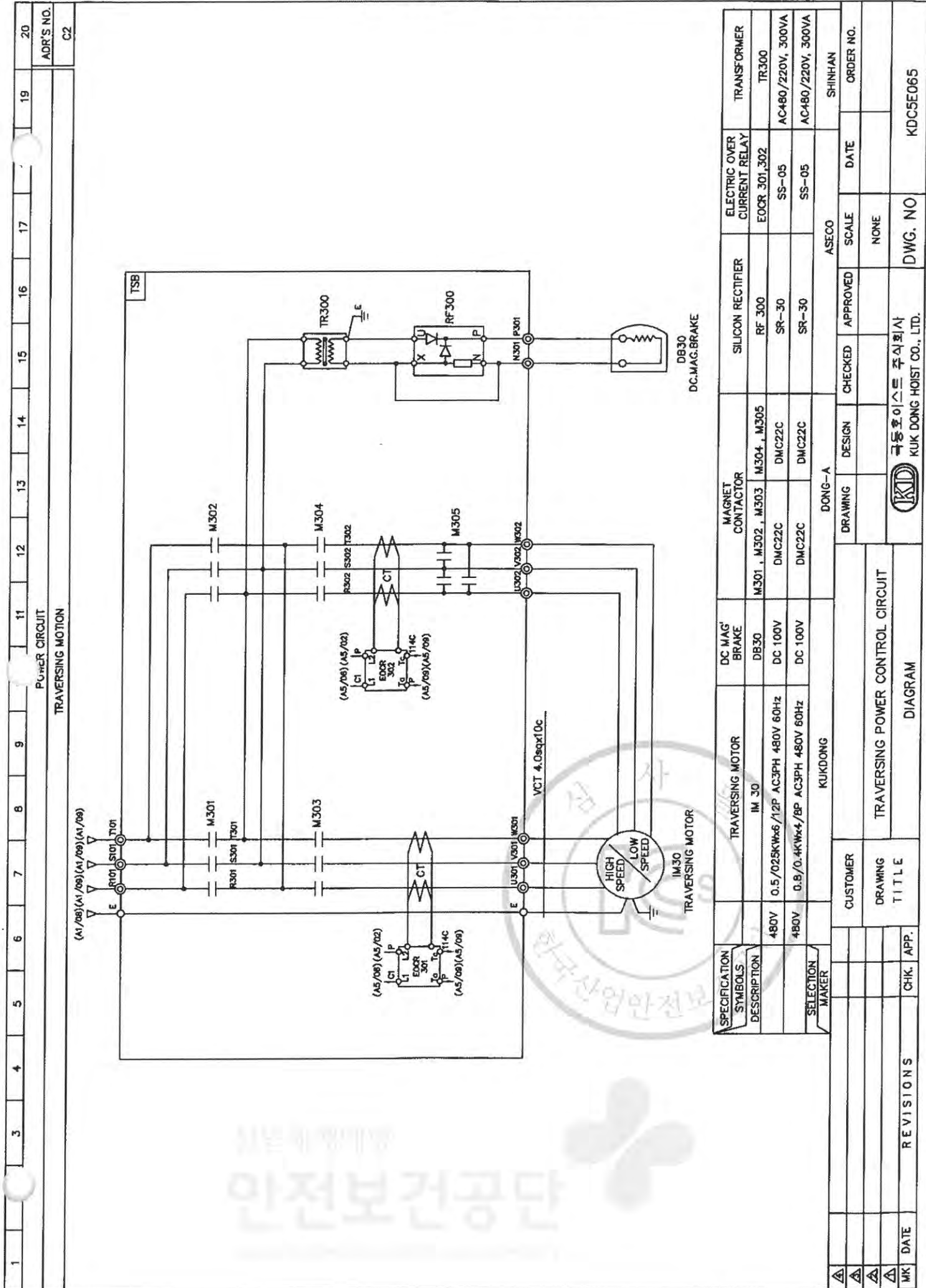


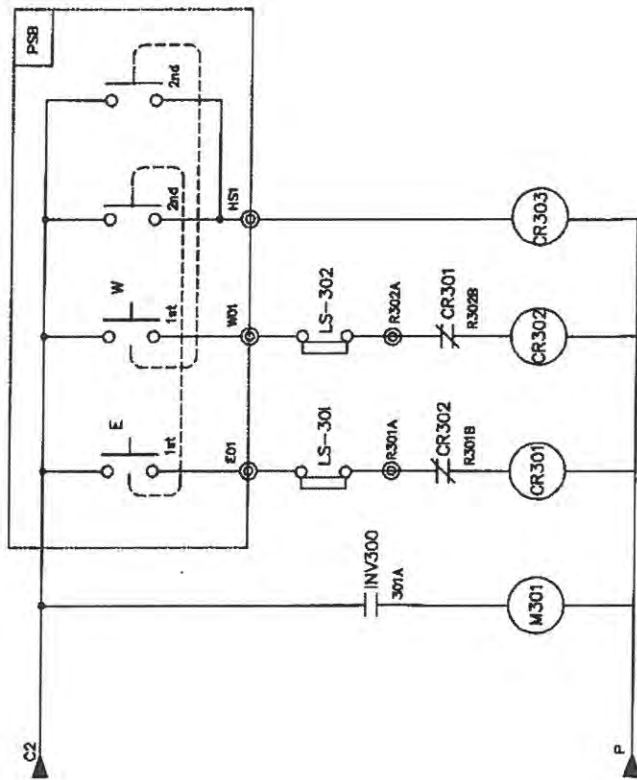
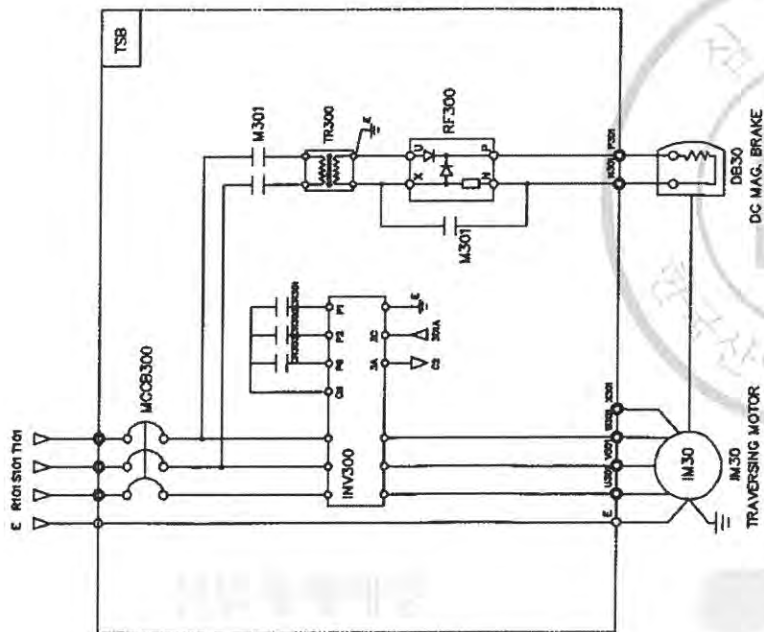
SPECIFICATION SYMBOLS	TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWITCH
DESCRIPTION	IM 30	DB 30	M301, M302	RF 300	EOCR 300	LS-301, LS-302
	0.75KW x 4P AC 3PH 480V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - W904
	0.5KW x 6P AC 3PH 480V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - W904
SELECTION MAKER	KUKDONG					
CUSTOMER	KUKDONG					
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT					
REVISIONS	DATE					
CHK.	APP.					
KUKDONG HOIST CO., LTD.				DWG. NO	DATE	ORDER NO.
KDC5E63						



SPECIFICATION SYMBOLS	TRAVERSING MOTOR	DC MAG' BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWITCH
DESCRIPTION	IM 30 , 1M31 0.75KW x 4P AC 3PH 480V 60Hz 0.5KW x 6P AC 3PH 480V 60Hz	DB 30 DC 100V DC 100V	M301 , M302 DMC22C DMC22C	RF 300 SR-30 AC 220V/DC 100V SR-30 AC 220V/DC 100V	EOCR 300 SS-05 SS-05	LS-301 , LS-302 HY - W904 HY - W904
SELECTION MAKER	KUKDONG					
CUSTOMER	KUKDONG					
DRAWING TITLE	TRAVERSING POWER CONTROL CIRCUIT					
REVISIONS	DIAGRAM					
DATE	KUKDONG HOIST CO., LTD.					
CHK.	DWG. NO					
APP.	KDC5E64					
MK	ORDER NO.					

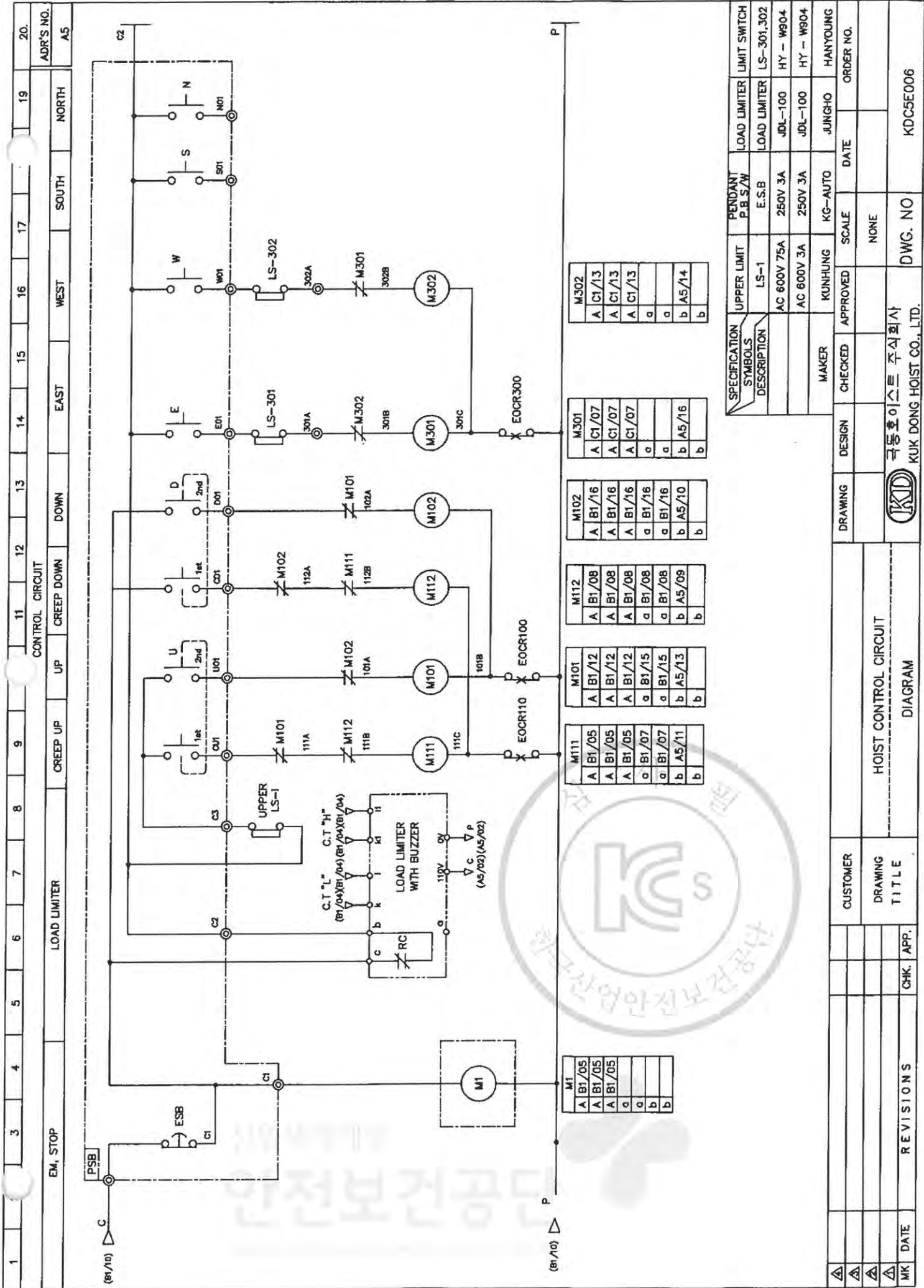
안전보건공단





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	0.75KW x 4P	DC 100V	ABE-33AF/10AT	220/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015IG5A-2	SR-30
		AC 3PH 380(440,460,480)V 60Hz	0.75KW x 4P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015IG5A-4	SR-30
		AC 3PH 220V 60Hz	0.5KW x 6P	DC 100V	ABE-33AF/10AT	220/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015IG5A-2	SR-30
		AC 3PH 380(440,460,480)V 60Hz	0.5KW x 6P	DC 100V	ABE-33AF/5AT	380(440,460,480)/220V,200VA	DM-22C	MINI 4a4b(Coil AC110V)	SV015IG5A-4	SR-30
SELECTION/MAKER									LS	ASAN
			KUK DONG HOIST							
			CUSTOMER		INVERTER CONTROL					
			DRAWING TITLE		TRAVERSING POWER & CONTROL CIRCUIT					
			CHK. APP.		DIAGRAM					
REVISIONS			 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.							
DATE							DWG. NO		KD05EI004	

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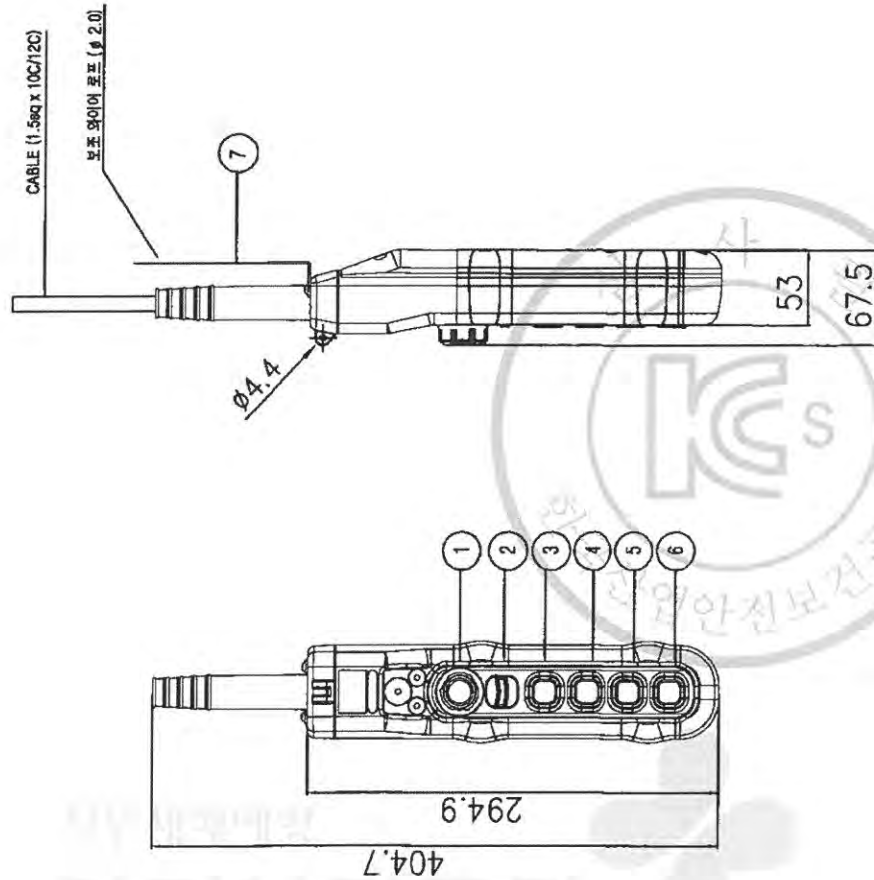
색상	구분	조작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색 - 흑색		지정된의미없음	기타

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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



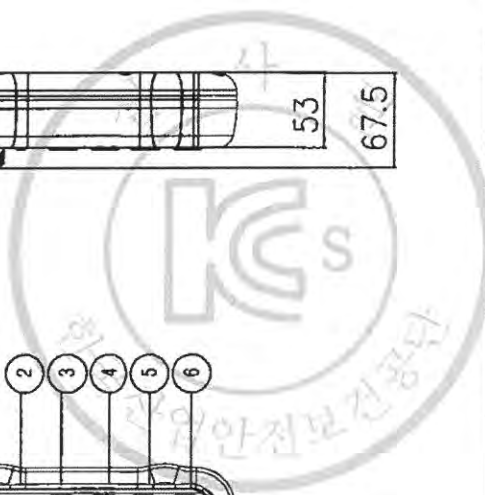
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KD KUK DONG HOIST CO., LTD.



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

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



구분	조사비트	표시용
원형	비상	비상
중형	비정상	비정상
보통	정상	정상
정상	무이	무이
현상, 하역 - 화석	지평면의미없음	기타

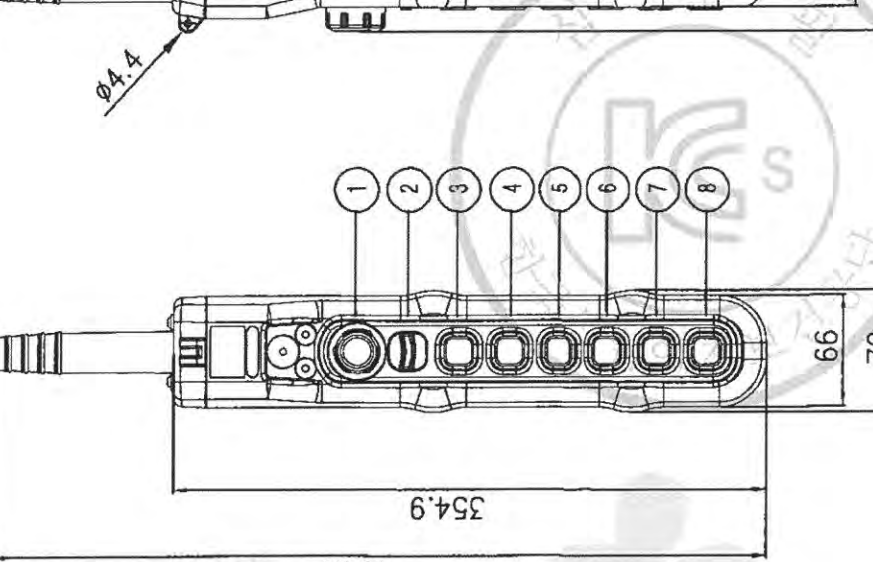
* MATERIAL : POLYCARBOBATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* |P : 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 2STEP		
4	하	1PUSH BUTTON 2STEP		
5	동(전)	1PUSH BUTTON 2STEP		
6	서(후)	1PUSH BUTTON 2STEP		
7	보조 와이어	ø 2.0		

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

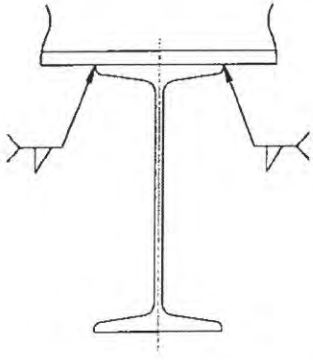
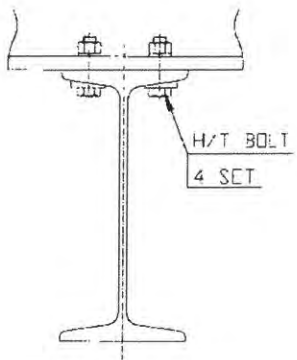
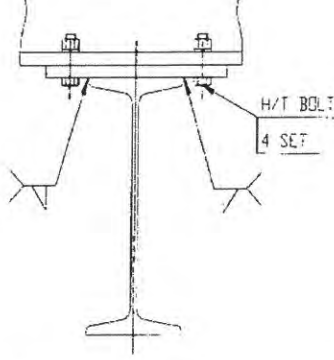


* MATERIAL : POLYCARBONATE (PLASTIC)
* BODY COLOR : YELLOW, BLACK
* IP : 55 이상

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

I-4. I-BEAM의 고정방법 및 사양

1. I-BEAM의 고정방법

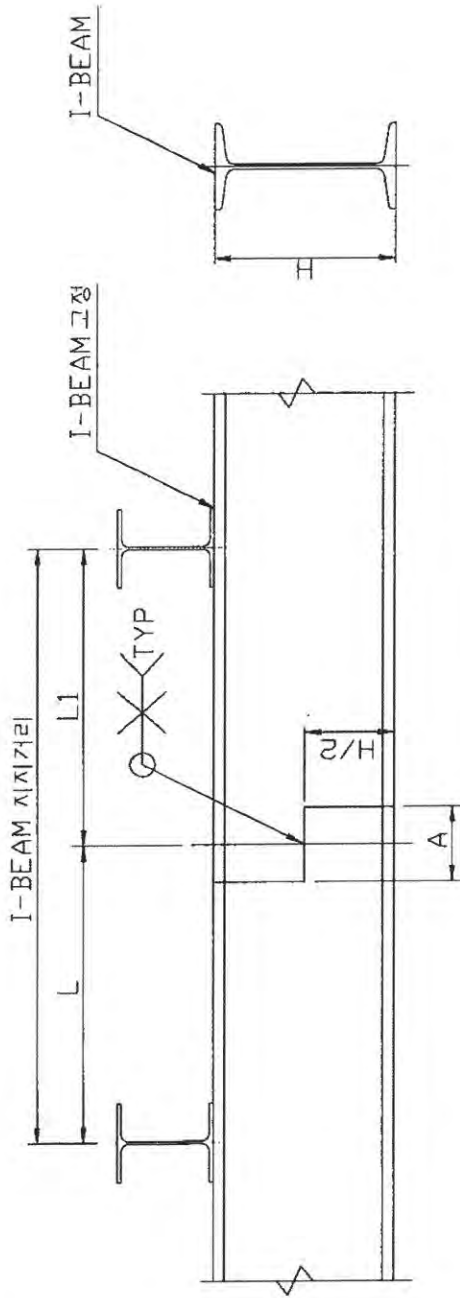
용접구조	BOLT 체결구조	복합구조
		

2. 기본조건 및 사양

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

정격하중 (TON)	용접구조 (mm)		BOLT 체결구조
	용접두께	최소 용접길이	최소 BOLT SIZE
1.0	6	100 × 2개소	M12 × 4 SET
2.0	6	125 × 2개소	M12 × 4 SET
2.8	6	125 × 2개소	M12 × 4 SET
3.0	6	125 × 2개소	M12 × 4 SET
→ 5.0	8	150 × 2개소	M16 × 4 SET

3. I-BEAM의 연결방법



- * I-BEAM의 용접 연결부위는 I-BEAM 고정 지점과 동일 선상에 위치하지 않도록 한다.
- * 고정 지점 사이 중앙에 용접 연결부위가 일치하지 않도록 한다.

구조 (단위 : mm)

사용 I-BEAM	A	H	H/2	최대 지지거리				
				1 T	2 T	2.8 T	3 T	5 T
200×100×t7/10	200	200	100	4000				
250×125×t7.5/12.5	200	250	125	6000	4400	3700	3600	
300×150×t10/18.5	300	300	150	9000	6800	5800	5800	4500
350×150×t9/15	300	350	175	9800	7500	6300	6000	5900
400×150×t10/18	300	400	200	12600	9400	8000	7700	5700
450×175×t11/20	300	450	225		11000	10000	9900	7700

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

* I-BEAM 고정 방법 중 용접 구조의 용접 강도

$$\text{용접부 강도 } \sigma = 1.14 \times \frac{\text{I-BEAM 자중} + 1.25 \times (\text{정격 하중} + \text{Hoist 자중})}{0.707 \times \text{용접 두께} \times \text{용접 길이}} \leq 560 \text{ kg/cm}^2$$



I-BEAM 규격	BEAM 자중 (kg/m)	용접 두께 (cm)	최소 용접 길이 (cm)	1 T		2 T		2.8 T		3 T		5 T	
				HOIST 자중 (KG)	용접강도 (kgal/cm ²)	HOIST 자중 (KG)	용접강도 (kgal/cm ²)	HOIST 자중 (KG)	용접강도 (kgal/cm ²)	HOIST 자중 (KG)	용접강도 (kgal/cm ²)	HOIST 자중 (KG)	용접강도 (kgal/cm ²)
200×100×t7/10	26.0	0.6	10×2	320	225.2								
250×125×t7.5/12.5	38.3	0.6	12.5×2	320	181.5	520	342.7	620	463.7				
300×150×t10/18.5	65.6	0.6	15.0×2	320	153.7	520	288.1	620	388.8	620	411.2	642	478.2
350×150×t9/15	58.5	0.6	15.0×2	320	153.0	520	287.4	620	388.2	620	410.6	642	477.8
400×150×t10/18	72.0	0.8	15.0×2	320	115.7	520	288.6	620	389.4	620	411.8	642	478.7
450×175×t11/20	91.7	0.8	17.5×2			520	290.4	620	391.2	620	354.5	642	480.0

베 임 복 제 및 배 포 금 지

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



* I-BEAM 고정 방법 중 BOLT 고정 강도

$$\text{BOLT 강도 } \sigma = 1.14 \frac{\text{I-BEAM 자중} + 1.25 \times (\text{정격하중} + \text{Hoist 자중})}{\text{BOLT 단면적} \times \text{BOLT 수}} \leq 2500 \text{ kg/cm}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규격	BOLT 수	BOLT 단면적 (cm ²)	1 T		2 T		2.8 T		3 T		5 T	
					HOIST 자중 (KG)	BOLT강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT강도 (kg/cm ²)
200×100×t7/10	26.0	M12	4	1.13	320	422.7								
250×125×t7.5/12.5	38.3	M12	4	1.13	320	425.8	520	804.1	620	1087.9	620	1150.9		
300×150×t10/18.5	65.6	M12	4	1.13	320	432.7	520	811.0	620	1094.8	620	1157.8	642	1009.3
350×150×t9/15	58.5	M12	4	1.13	320	430.9	520	809.2	620	1093.0	620	1156.0	642	1008.3
400×150×t10/18	72.0	M16	4	2.01	320	244.2	520	456.9	620	616.4	620	651.8	642	1010.2
450×175×t11/20	91.7	M16	4	2.01			520	459.6	620	619.2	620	654.6	642	1013.0

불법복제 및 배포금지



I-5. I-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 65.5 \times 450^2}{8} = 17409 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(5000 + 642) \times 450}{4} = 795945 \quad \text{kg-cm}$$

$$\ast \text{ 호이스트 자중} = 642 \text{ KG} \quad \text{용 량 : } 5000 \text{ KG}$$

$$\ast \text{ DYNAMIC COEFFICIENT : } F = 1.254$$

$$\ast \text{ STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \sum M_v = M_s + M_d = 17409 + 795945 = 813354 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{49.69 \times 450}{2} = 11179.4 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 1.75 = 49.69 \text{ (kg)} \end{aligned}$$

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

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 1.38 + 0.37 = 1.75 \text{ (m}^2\text{)} \end{aligned}$$

$$\ast \text{ 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
300×150×t10/18.5	65.5	450	17409	795945	813354	49.69	11179.4	1.75
350×150×t12/24	87.2	590	39840	1043573	1083413	69.28	20436.6	2.44
400×150×t10/18	72.0	570	30703	1008197	1038900	78.65	22414	2.77
450×175×t11/20	91.7	770	71359	1361951	1433310	109.88	42303	3.87

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

5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{813354}{849} = 958.0 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{11179.4}{118} = 94.7 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$* \sum \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면2차 MOMENT I _x	단 면 계 수 Z _x	단 면 계 수 Z _y	$\sum M_v$ (kg-cm)	M _w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\sum \sigma$ (kg/cm ²)
300×150×t10/18.5	12700	849	118	813354	11179.4	958.0	94.7	1053
350×150×t12/24	22400	1280	158	1083413	20436.6	846.4	129.3	975.8
400×150×t10/18	24100	1200	115	1038900	22414.1	865.8	194.9	1060.7
450×175×t11/20	39200	1740	173	1433310	42302.7	823.7	244.5	1068.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 65.5 \times 450^3}{384 \times 2100000 \times 12700} = 0.02914 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(5000 + 642) \times 450^3}{48 \times 2100000 \times 12700} = 0.402 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.402}{450} = \frac{1}{1120} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0291+0.402}{450} = \frac{1}{1045} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
⇒ 300×150×t10/18.5	12700	65.5	0.0291	0.402	1 / 1119	1 / 1045
350×150×t12/24	22400	87.2	0.0496	0.513	1 / 1150	1 / 1048
400×150×t10/18	24100	72.0	0.0343	0.430	1 / 1325	1 / 1227
450×175×t11/20	39200	91.7	0.0662	0.652	1 / 1181	1 / 1072

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-6. I-BEAM의 최대 지지거리

6-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 87.2 \times 590^2}{8} = 39840 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(5000 + 642) \times 590}{4} = 1043573 \quad \text{kg-cm}$$

$$\ast \text{ 호이스트 자중} = 642 \text{ KG} \quad \text{용 량 : } 5000 \text{ KG}$$

$$\ast \text{ DYNAMIC COEFFICIENT : } F = 1.254$$

$$\ast \text{ STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 39840 + 1043573 = 1083413 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{69.28 \times 590}{2} = 20436.6 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 2.44 = 69.28 \text{ (kg)} \end{aligned}$$

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

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 2.07 + 0.37 = 2.44 \text{ (m}^2\text{)} \end{aligned}$$

$$\ast \text{ 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
300×150×t10/18.5	65.5	450	17409	795945	813354	49.69	11179.4	1.75
350×150×t12/24	87.2	590	39840	1043573	1083413	69.28	20436.6	2.44
400×150×t10/18	72.0	570	30703	1008197	1038900	78.65	22414	2.77
450×175×t11/20	91.7	770	71359	1361951	1433310	109.88	42303	3.87

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

6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{1083413}{1280} = 846.4 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{20436.6}{158} = 129.3 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$* \sum \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면2차 MOMENT I _x	단 면 계 수 Z _x	단 면 계 수 Z _y	$\sum M_v$ (kg-cm)	M _w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\sum \sigma$ (kg/cm ²)
300×150×t10/18.5	12700	849	118	813354.0	11179.4	958.0	94.7	1053
⇒ 350×150×t12/24	22400	1280	158	1083413	20436.6	846.4	129.3	975.8
400×150×t10/18	24100	1200	115	1038900	22414.1	865.8	194.9	1060.7
450×175×t11/20	39200	1740	173	1433310	42302.7	823.7	244.5	1068.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 87.2 \times 590^3}{384 \times 2100000 \times 22400} = 0.0496 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(5000 + 642) \times 590^3}{48 \times 2100000 \times 22400} = 0.513 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐 : } \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.513}{590} = \frac{1}{1150} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐 : } \delta_s + \text{이동하중에 의한 처짐 : } \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0496 + 0.513}{590} = \frac{1}{1048} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I_x	BEAM 자중 (kg/m)	δ_s (cm)	δ_d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
300×150×t10/18.5	12700	65.5	0.0291	0.402	1 / 1119	1 / 1045
350×150×t12/24	22400	87.2	0.0496	0.513	1 / 1150	1 / 1048
400×150×t10/18	24100	72.0	0.0343	0.430	1 / 1325	1 / 1227
450×175×t11/20	39200	91.7	0.0662	0.652	1 / 1181	1 / 1072

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-7. I-BEAM의 최대 지지거리

7-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 72 \times 570^2}{8} = 30703 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(5000 + 642) \times 570}{4} = 1008197 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 642 \text{ KG} \quad \text{용량 : } 5000 \text{ KG}$$

$$\text{* DYNAMIC COEFFICIENT : } F = 1.254$$

$$\text{* STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 30703 + 1008197 = 1038900 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{78.65 \times 570}{2} = 22414.1 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 2.77 = 78.65 \text{ (kg)} \end{aligned}$$

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

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 2.4 + 0.37 = 2.77 \text{ (m}^2\text{)} \end{aligned}$$

$$\text{* 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
300×150×t10/18.5	65.5	450	17409	795945	813354	49.69	11179.4	1.75
350×150×t12/24	87.2	590	39840	1043573	1083413	69.28	20436.6	2.44
400×150×t10/18	72.0	570	30703	1008197	1038900	78.65	22414.1	2.77
450×175×t11/20	91.7	770	71359	1361951	1433310	109.88	42303	3.87

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

7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{1038900}{1200} = 865.8 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{22414.1}{115} = 194.9 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$* \Sigma \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면2차 MOMENT I _x	단 면 계 수 Z _x	단 면 계 수 Z _y	ΣM_v (kg-cm)	M _w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
300×150×t10/18.5	12700	849	118	813354	11179.4	958.0	94.7	1053
350×150×t12/24	22400	1280	158	1083413	20436.6	846.4	129.3	975.8
⇒ 400×150×t10/18	24100	1200	115	1038900	22414.1	865.8	194.9	1060.7
450×175×t11/20	39200	1740	173	1433310	42302.7	823.7	244.5	1068.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 72 \times 570^3}{384 \times 2100000 \times 24100} = 0.03431 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(5000 + 642) \times 570^3}{48 \times 2100000 \times 24100} = 0.430 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.430}{570} = \frac{1}{1325} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0343+0.43}{570} = \frac{1}{1227} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
300×150×t10/18.5	12700	65.5	0.0291	0.402	1 / 1119	1 / 1045
350×150×t12/24	22400	87.2	0.0496	0.513	1 / 1150	1 / 1048
400×150×t10/18	24100	72.0	0.0343	0.430	1 / 1325	1 / 1227
450×175×t11/20	39200	91.7	0.0662	0.652	1 / 1181	1 / 1072

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-8. I-BEAM의 최대 지지거리

8-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 91.7 \times 770^2}{8} = 71359 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(5000 + 642) \times 770}{4} = 1361951 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 642 \text{ KG} \quad \text{용량 : } 5000 \text{ KG}$$

$$\text{* DYNAMIC COEFFICIENT : } F = 1.254$$

$$\text{* STATIC COEFFICIENT : } M = 1.05$$

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 71359 + 1361951 = 1433310 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{109.88 \times 770}{2} = 42302.7 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 3.87 = 109.88 \text{ (kg)} \end{aligned}$$

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

$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 3.5 + 0.37 = 3.87 \text{ (m}^2\text{)} \end{aligned}$$

$$\text{* 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ m}^2$$

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
300×150×t10/18.5	65.5	450	17409	795945	813354	49.69	11179.4	1.75
350×150×t12/24	87.2	590	39840	1043573	1083413	69.28	20436.6	2.44
400×150×t10/18	72.0	570	30703	1008197	1038900	78.65	22414	2.77
450×175×t11/20	91.7	770	71359	1361951	1433310	109.88	42303	3.87

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

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{1433310}{1740} = 823.7 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{42302.6604}{173} = 244.5 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$* \sum \sigma = \sigma_v + \sigma_w \leq 0.8 \times 1449 = 1159 \text{ kg/cm}^2$$

I-BEAM 규격	단면2차 MOMENT I _x	단 면 계 수 Z _x	단 면 계 수 Z _y	$\sum M_v$ (kg-cm)	M _w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\sum \sigma$ (kg/cm ²)
300×150×t10/18.5	12700	849	118	813354	11179.4	958.0	94.7	1053
350×150×t12/24	22400	1280	158	1083413	20436.6	846.4	129.3	975.8
400×150×t10/18	24100	1200	115	1038900	22414.1	865.8	194.9	1060.7
⇒ 450×175×t11/20	39200	1740	173	1433310	42302.7	823.7	244.5	1068.3

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 91.7 \times 770^3}{384 \times 2100000 \times 39200} = 0.06622 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(5000 + 642) \times 770^3}{48 \times 2100000 \times 39200} = 0.652 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.652}{770} = \frac{1}{1181} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0662+0.652}{770} = \frac{1}{1072} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐판정
300×150×t10/18.5	12700	65.5	0.0291	0.402	1 / 1119	1 / 1045
350×150×t12/24	22400	87.2	0.0496	0.513	1 / 1150	1 / 1048
400×150×t10/18	24100	72.0	0.0343	0.430	1 / 1325	1 / 1227
⇒ 450×175×t11/20	39200	91.7	0.0662	0.652	1 / 1181	1 / 1072

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

4. 참 고 도 서

- 1 LOAD LIMITER 권고 SETTING 치
- 2 E.O.C.R 권고 SETTING치
- 3 MOTOR DATA SHEET
- 4 사용방법 설명서 (HOIST, OLP)
- 5 PUSH BUTTON 카다록 및 IP 성적서
- 6 WIRE ROPE 성적서
- 7 SUB VENDOR LIST
- 8 INVERTER 취급설명서



한국산업안전보건공단
안전보건공단



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	8.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	34.4 A
12. LOCKED ROTOR CURRENT	198.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	79 %
16. FULL LOAD TORQUE	10.82 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6307zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	8.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	19.9 A
12. LOCKER ROTOR CURRENT	114.7 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	79 %
16. FULL LOAD TORQUE	10.82 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6307zz
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	8.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	18.1 A
12. LOCKED ROTOR CURRENT	94.8 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	79 %
16. FULL LOAD TORQUE	10.82 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6307zz
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	8.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	16.5 A
12. LOCKED ROTOR CURRENT	94.8 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	79 %
16. FULL LOAD TORQUE	10.82 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6307zz
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	8.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1740 RPM
11. FULL LOAD CURRENT	15.8 A
12. LOCKED ROTOR CURRENT	90.9 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	79 %
16. FULL LOAD TORQUE	10.82 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6307zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	28.2 A
12. LOCKED ROTOR CURRENT	155.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. FULL LOAD TORQUE	11.59 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	.16.3 A
12. LOCKER ROTOR CURRENT	89.8 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. FULL LOAD TORQUE	11.59 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	14.1 A
12. LOCKED ROTOR CURRENT	77.6 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. FULL LOAD TORQUE	11.59 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 L
4. RATED POWER	5.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	13.5 A
12. LOCKED ROTOR CURRENT	74.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. FULL LOAD TORQUE	11.59 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	5.5 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	12.9 A
12. LOCKED ROTOR CURRENT	71.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	77 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. FULL LOAD TORQUE	11.59 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	4.2 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	23.0 A
12. LOCKED ROTOR CURRENT	136.2 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	14.93 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	4.2 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	13.3 A
12. LOCKED ROTOR CURRENT	78.8 A
13. MINIMUM STARTING VOLTAGE	342 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL ROTOR TORQUE	14.93 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	4.2 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	11.5 A
12. LOCKED ROTOR CURRENT	68.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	14.93 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	4.2 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	11.0 A
12. LOCKED ROTOR CURRENT	65.1 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	14.93 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 M
4. RATED POWER	4.2 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	10.5 A
12. LOCKED ROTOR CURRENT	62.4 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	60 %
16. FULL LOAD TORQUE	14.93 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6307zz OPL : 6207zz
20. MOUNTING	H O R I Z O N T A L
21. MAXIMUM AMBIENT TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	6.7 A
12. LOCKED ROTOR CURRENT	23.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	3.9 A
12. LOCKED ROTOR CURRENT	13.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	3.3 A
12. LOCKED ROTOR CURRENT	11.9 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 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 TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	3.2 A
12. LOCKED ROTOR CURRENT	11.4 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 KG.M
17. SITE ALTTITUDE(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 TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	1.0 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1152 RPM
11. FULL LOAD CURRENT	3.1 A
12. LOCKED ROTOR CURRENT	10.9 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	62 %
16. FULL LOAD TORQUE	1.6 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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	4.1 A
12. LOCKED ROTOR CURRENT	22.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1.SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.4 A
12. LOCKED ROTOR CURRENT	12.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	11.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	10.6 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1760 RPM
11. FULL LOAD CURRENT	1.9 A
12. LOCKED ROTOR CURRENT	10.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	66 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. FULL LOAD TORQUE	1.02 KG.M
17. SITE ALTttITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	3.4 A
12. LOCKED ROTOR CURRENT	16.4 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	9.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. LOCKED ROTOR CURRENT	8.2 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.7 A
12. LOCKED ROTOR CURRENT	7.9 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1160 RPM
11. FULL LOAD CURRENT	1.6 A
12. LOCKED ROTOR CURRENT	7.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	64 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.4/2.27 A
12. LOCKED ROTOR CURRENT	8.6/6.21 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 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 TRMPERATURE 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	8.5/6.18 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 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (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 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 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 TRMPERATURE 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 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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 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 TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 TEMPURE	40 ℃
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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 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 TRMPERATURE 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 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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 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 TRMPERATURE 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 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 DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 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 TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.4/1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	5.82/4.93 A
13. MINIMUM STARTING VOLTAGE	436 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 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



ISSUE NO. PW1416

DATE 2014-01-29

MILL TEST CERTIFICATE

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

OF **KSD 3514 - 2002** (**B** Grade)

TO MESSRS KISWIRE LTD.

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06X37 + FC 2000M X 3 REEL

EX NO. PW1416

T/T NO.

ORDER NO. REEL NO. 2 ~ 4 SAMPLING NO. 2

DIAMETER OF ROPE 16.0 mm TYPE OF CORE Fiber Core

SPECIFIED BREAKING LOAD 145.0 kN SAMPLE BROKE AT 157.575 kN

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

ROPE LAY RHRL (OZ) LAY LENGTH 106.4 mm

LUBRICATION A-2

CHEMICAL ANALYSIS OF WIRE ROD

CHARGE NO.	C X 100	Si X 100	Mn X 100	P X 1000	S X 1000
SD51275791	61	20	55	7	13



KS



JIS

DATE OF SAMPLE TEST 2014-01-29

KISWIRE