



제 2012 - 27282 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소재지) 제425-833 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.

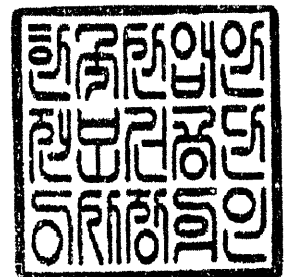
_____ 품 목 _____
호이스트

_____ 형식,모델(용량,등급)/인증번호 _____
KD2.8 (2.8Ton) /12-AQ2AC-03173

_____ 인 증 기 준 _____
고용노동부 고시 제2011 - 39호 (위험기계,기구 의무안전인증 고시)

_____ 인 증 조 건 _____

2012년 08월 10일



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				
형식 (규격)		KD2.8	용량 (등급)	2.8 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

[] 예비심사

[√] 서면심사

[] 기술능력 및 생산체계 심사

[] 개별 제품심사

[] 개별 제품심사(제작중)

[] 형식별 제품심사

결과가 [√] 적 합

[] 부적합

합을 통지합니다.

2012년 06월 26일

인증심사원

강성두 변명수

(서명 또는 인)

한국산업안전보건공단 경기서부지도원장



서 면 심 사 서 류

형식 번호 : KD2.8

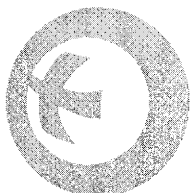
극 동 호 이 스트 (주)

工場 : 경기도 안산시 단원구 성곡동 630-2 반월공단607-14

電話 : 031) 491 - 5311

FAX : 031) 494 - 5315

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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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동 일 형 식 일 람 표

구분	정식	모델	양정(M)	권상속도(M/MIN)	내역	원형방식	비고
정식	KD2.8	KD2.8-L6-M	6	9.0	모터구동식	모터구동식	
		KD2.8-L9-M	9				
		KD2.8-L12-M	12				
		KD2.8-L18-M	18				
		KD2.8-L24-M	24				
		KD2.8-L30-M	30				
		KD2.8-L36-M	36				
		KD2.8-L18-M-H	18				
		KD2.8-L24-M-H	24				
		KD2.8-L30-M-H	30				
		KD2.8-L36-M-H	36				
		KD2.8-L6-S	6				
		KD2.8-L9-S	9	4.5	정치식	정치식	
		KD2.8-L12-S	12				
		KD2.8-L18-S	18				
		KD2.8-L24-S	24				
		KD2.8-L30-S	30				
		KD2.8-L36-S	36				
		KD2.8-L6-P	6				
		KD2.8-L9-P	9				
		KD2.8-L12-P	12				
		KDC2.8-L6-M	6				
		KDC2.8-L9-M	9	9.0/0.9	수동구동식	수동구동식	
		KDC2.8-L12-M	12				
		KDC2.8-L18-M	18				
		KDC2.8-L24-M	24				
		KDC2.8-L30-M	30				
		KDC2.8-L36-M	36				
		KDC2.8-L18-M-H	18				
		KDC2.8-L24-M-H	24				
		KDC2.8-L30-M-H	30				
		KDC2.8-L36-M-H	36				
		KDC2.8-L6-S	6				
		KDC2.8-L9-S	9				
		KDC2.8-L12-S	12				
		KDC2.8-L18-S	18				
		KDC2.8-L24-S	24				
		KDC2.8-L30-S	30				
		KDC2.8-L36-S	36				
		KDC2.8-L6-P	6				
		KDC2.8-L9-P	9				
		KDC2.8-L12-P	12				

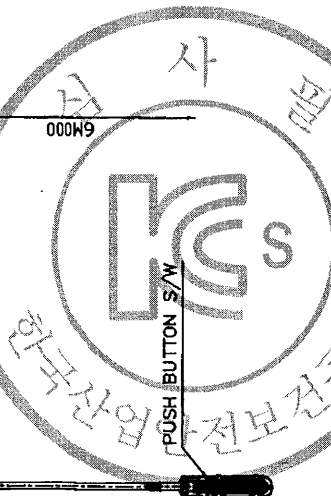
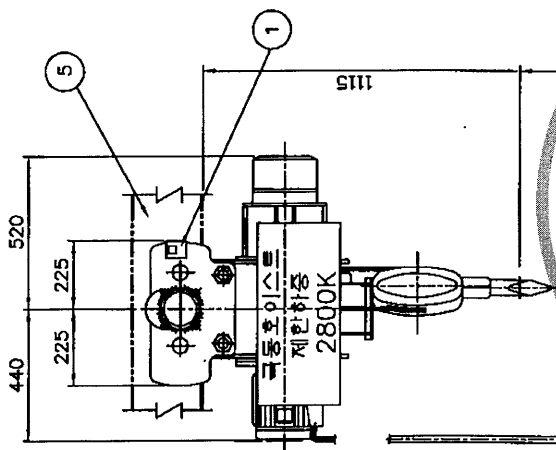
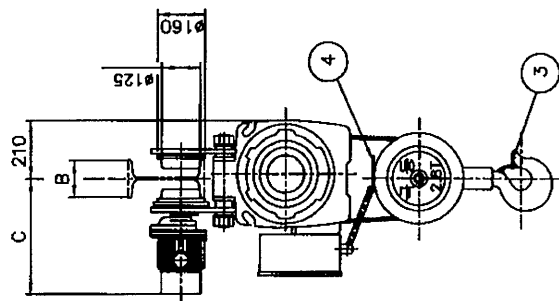
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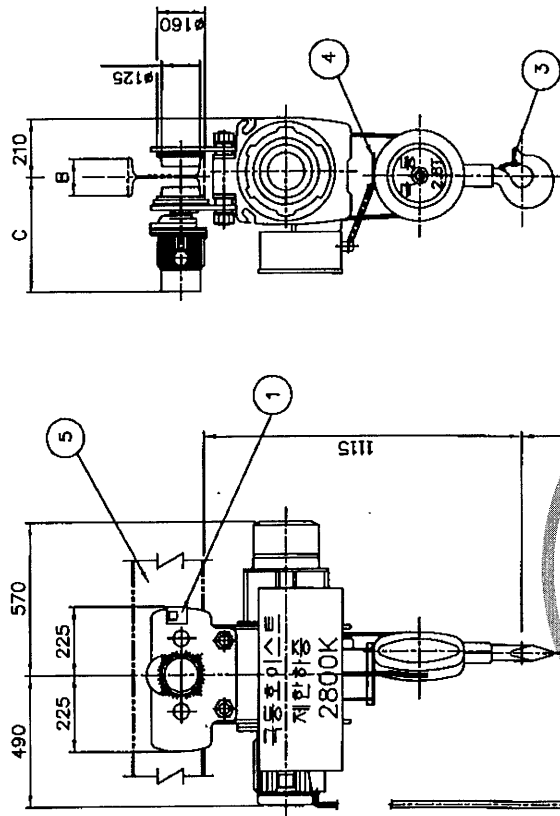
SPECIFICATION									
RATED LOAD		2800 KG							
TESTING LOAD		3500 KG							
LIFT		6 M							
RATING		30 MIN							
HOISTING	HIGH	SPEED		9.0 M/MIN					
		MOTOR		5 KW x 4P					
	LOW	SPEED		4.5 M/MIN					
		MOTOR		2.5 KW x 8P					
TRAVERSING	LOW	SPEED		16 M/MIN					
		MOTOR		0.5 KW x 6 P					
	HIGH	SPEED		24 M/MIN					
		MOTOR		0.75 KW x 4 P					
DUAL	LOW	SPEED		16/8 M/MIN					
		MOTOR		0.5/0.25 KW x 6/12 P					
	HIGH	SPEED		24/12 M/MIN					
		MOTOR		0.8/0.4 KW x 4/8 P					
WIRE ROPE		(6x37) ϕ 12.5 x 2 FALLS							
POWER SOURCE		AC3 ϕ 220V(380,440,480)V 60Hz							
COLOR		10 B 3/5							
GROSS WEIGHT		374 KG							



TRAVERSING I - BEAM		C
B	125	450
	150	465
	175	485

5	I-BEAM	SS400	—						
4	UPPER LIMIT S/W	SS400	1						
3	SAFETY LATCH	SPC	1						
2	EMERGENCY S/W	—	1						
1	LOAD LIMITER	—	1						
NO.	DESCRIPTIONS	MTL	SET	UNIT	TOTAL	REMARKS			
			QTY	WEIGHT	KG.				
PROJECT		DATE							
TITLE		KD2.8-L6-M							
DRAWN		ARRANGEMENT DRAWING FOR HOIST							
		DESIGNED	CHECKED	APPROVED	REF DRAWING				

SPECIFICATION				
RATED LOAD		2800 KG		
TESTING LOAD		3500 KG		
LIFT		9 M		
RATING		30 MIN		
HOISTING	SPEED	9.0 M/MIN		
	MOTOR	5 KW x 4P		
	SPEED	4.5 M/MIN		
LOW	MOTOR	2.5 KW x 8P		
	SPEED	16 M/MIN		
	MOTOR	0.5 KW x 6 P		
HIGH	SPEED	24 M/MIN		
	MOTOR	0.75 KW x 4 P		
	SPEED	16/8 M/MIN		
DUAL LOW	MOTOR	0.5/0.25 KW x 6/12 P		
	SPEED	24/12 M/MIN		
	MOTOR	0.8/0.4 KW x 4/8 P		
WIRE ROPE		(6x37) ϕ 12.5 x 2 FALLS		
POWER SOURCE		AC3 ϕ 220V(380,440,480)V 60Hz		
COLOR		10 B 3/5		
GROSS WEIGHT		410 KG		



TRAVERSING I - BEAM		C
B	125	450
	150	465
	175	485

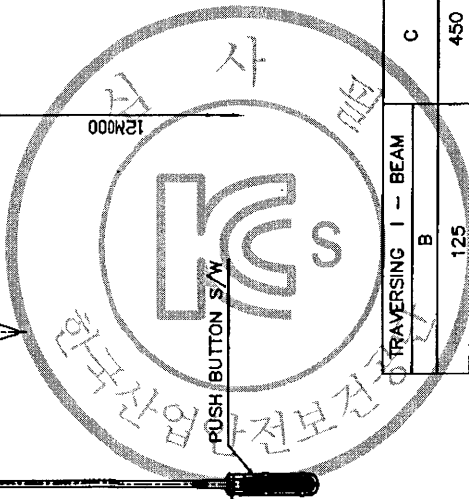
5	I-BEAM	SS400	—						
4	UPPER LIMIT S/W	SS400	1						
3	SAFETY LATCH	SPC	1						
2	EMERGENCY S/W	—	1						
1	LOAD LIMITER	—	1						
NO.	DESCRIPTIONS	M/T L	SET	UNIT	TOTAL	REMARKS			
			QTY		WEIGHT KG.				
PROJECT						DATE			
TITLE		KD2.8-L9-M				SCALE			
		ARRANGEMENT DRAWING FOR HOIST				A3/20 /			
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING					
						DRAWING NO.			
		국동호이스트 주식회사 KUK DONG HOIST CO., LTD.				KD28M9000			

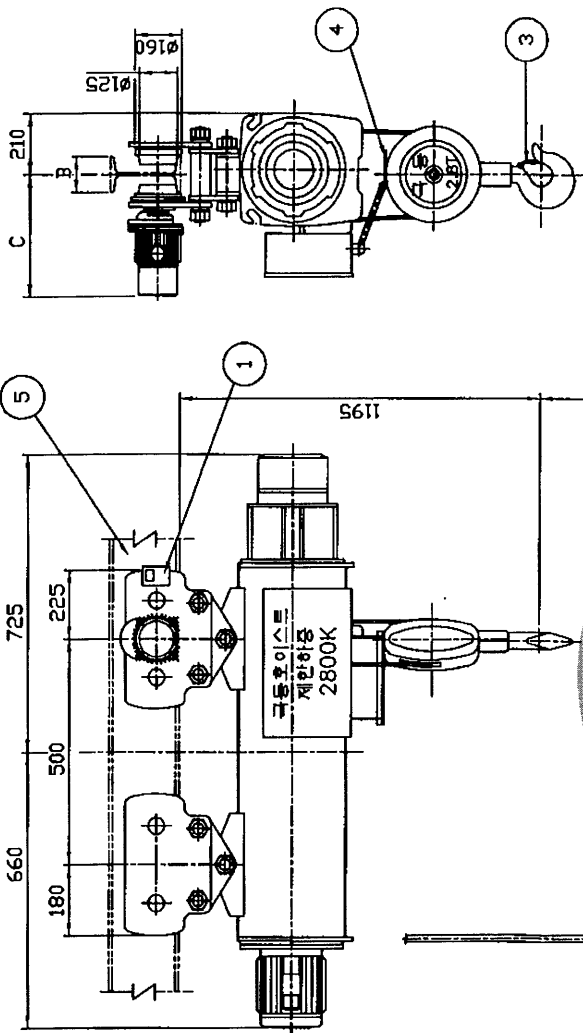
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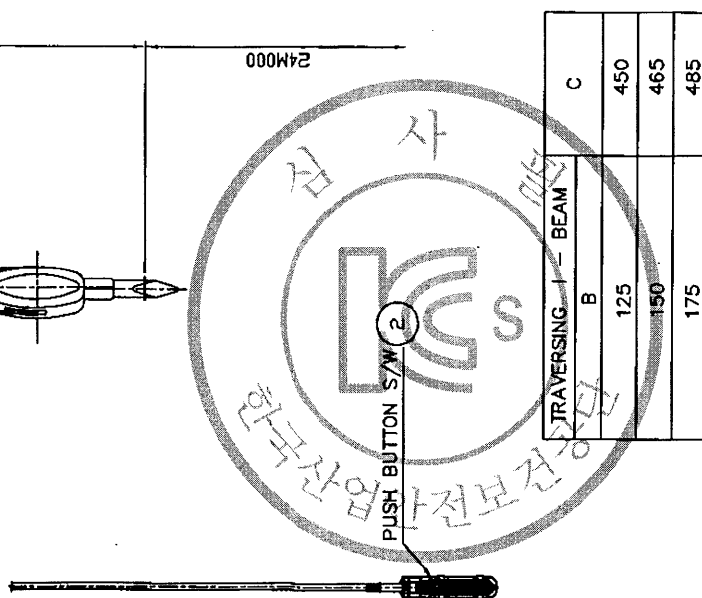
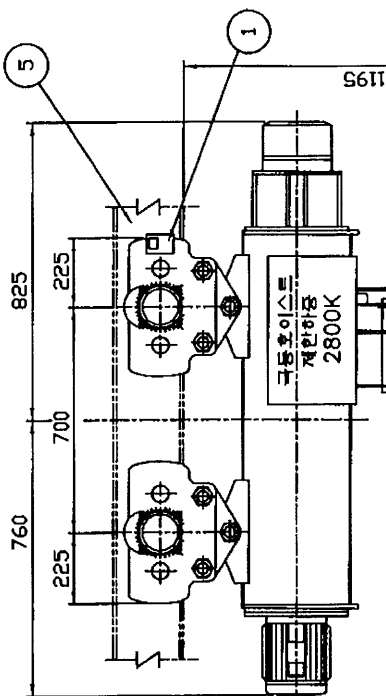
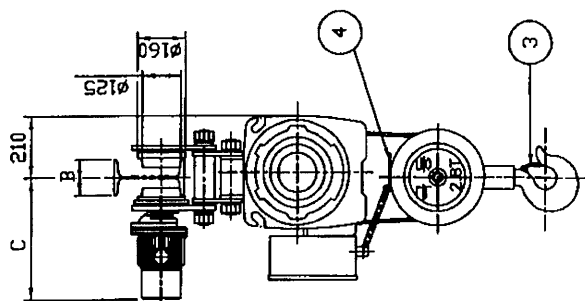
TRAVERSING I - BEAM		C
B		
125		450
150		465
175		485

SPECIFICATION			
RATED LOAD		2800	KG
TESTING LOAD		3500	KG
LIFT		18	M
HOISTING	RATING	30	MIN
	SPEED	9.0	M/MIN
	MOTOR	5	KW x 4P
	LOW	4.5	M/MIN
TRAVELING	SPEED	2.5	KW x 8P
	MOTOR	16	M/MIN
	LOW	0.5	KW x 6 P
	SPEED	24	M/MIN
DUAL	MOTOR	0.75	KW x 4 P
	SPEED	16/8	M/MIN
	MOTOR	0.5/0.25	KW x 6/12 P
	SPEED	24/12	M/MIN
WIRE ROPE	(6x37) Ø12.5 x 2 FALLS		
	POWER SOURCE	AC3Ø 220V(380,440,460,480)V	60Hz
COLOR		10 B 3/5	
GROSS WEIGHT		520	KG

NO.	DESCRIPTION	M/T	QTY		REMARKS.
			SUB	TOTAL	
5	I-BEAM	SS400	-	-	
4	UPPER LIMIT S/W	SS400	1		
3	SAFETY LATCH	SPC	1		
2	PENDANT S/W	-	1		
1	LOAD LIMITER	-	1		
PROJECT					
TITLE					
ARRANGEMENT DRAWING FOR HOIST					
DRAWN	DESIGNED	CHECKED	APPROVED	DATE	DIM
	mm				
SCALE					
PROJECTION					
3rd					
REF. DRAWING					
SHEET No. DWG No. KD28M1800					
KUK DONG HOIST CO., LTD.					

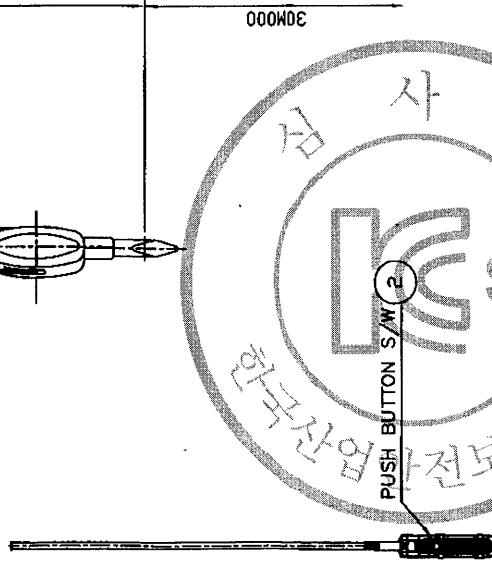
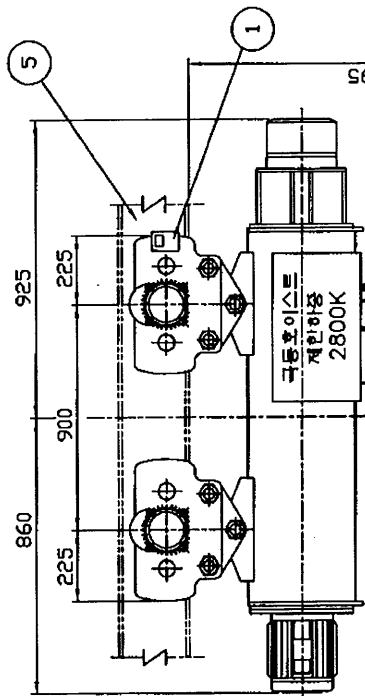
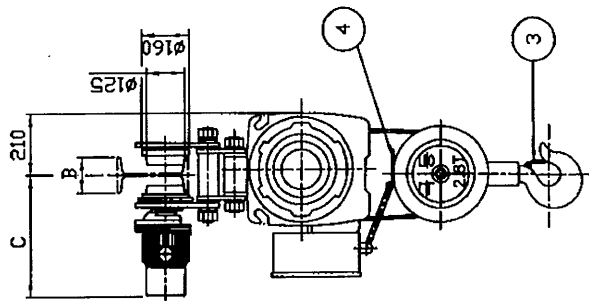
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SPECIFICATION									
RATED LOAD		2800		KG					
TESTING LOAD		3500		KG					
LIFT		24		M					
RATING		30		MIN					
HOISTING	HIGH	SPEED	9.0		M/MIN				
		MOTOR	5 KW x 4P						
	LOW	SPEED	4.5		M/MIN				
		MOTOR	2.5 KW x 8P						
TRAVERSING	LOW	SPEED	16		M/MIN				
		MOTOR	(0.5 KW x 6 P) x 2UNIT						
	HIGH	SPEED	24		M/MIN				
		MOTOR	(0.75 KW x 4 P) x 2UNIT						
	DUAL LOW	SPEED	16/8		M/MIN				
		MOTOR	(0.5/0.25 KW x 6/12 P) x 2UNIT						
DUAL HIGH	SPEED	24/12		M/MIN					
	MOTOR	(0.8/0.4 KW x 4/8 P) x 2UNIT							
WIRE ROPE		(6x37) Ø12.5 x 2 FALLS							
POWER SOURCE		AC3Ø 220V(380,440,460,480)V 60Hz							
COLOR		10 B 3/5							
GROSS WEIGHT		570 KG							

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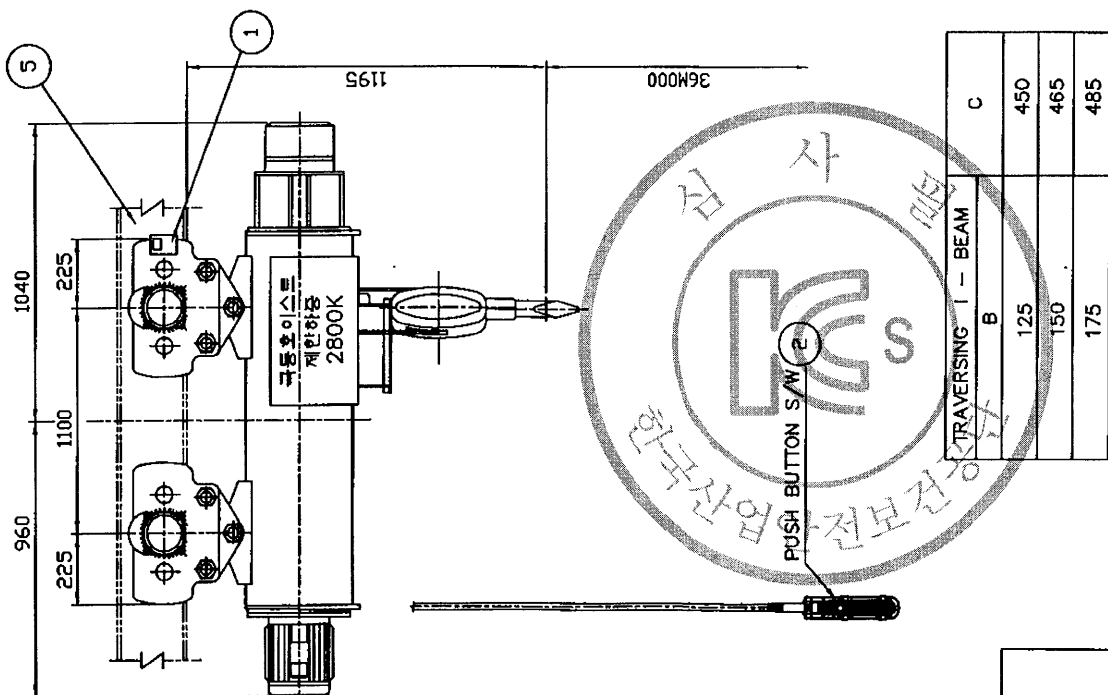
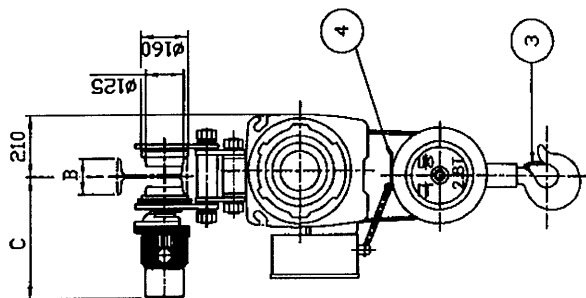
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SPECIFICATION									
RATED LOAD		2800		KG					
TESTING LOAD		3500		KG					
LIFT		30		M					
RATING		30		MIN					
HOISTING	HIGH	SPEED		9.0		M/MIN			
		MOTOR		5 KW x 4P					
	LOW	SPEED		4.5		M/MIN			
		MOTOR		2.5 KW x 8P					
TRAVERSING	LOW	SPEED		16		M/MIN			
		MOTOR		(0.5 KW x 6 P) x 2UNIT					
	HIGH	SPEED		24		M/MIN			
		MOTOR		(0.75 KW x 4 P) x 2UNIT					
DUAL	LOW	SPEED		16/8		M/MIN			
		MOTOR		(0.5/0.25 KW x 6/12 P) x 2UNIT					
	HIGH	SPEED		24/12		M/MIN			
		MOTOR		(0.8/0.4 KW x 4/8 P) x 2UNIT					
WIRE ROPE				(6x37) Ø12.5 x 2 FALLS					
POWER SOURCE				AC3Ø 220V(380,440,460,480)V 60Hz					
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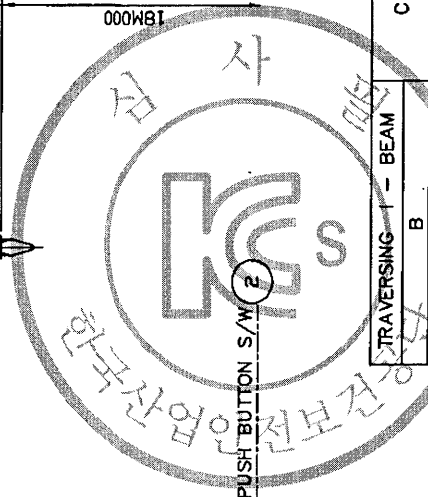
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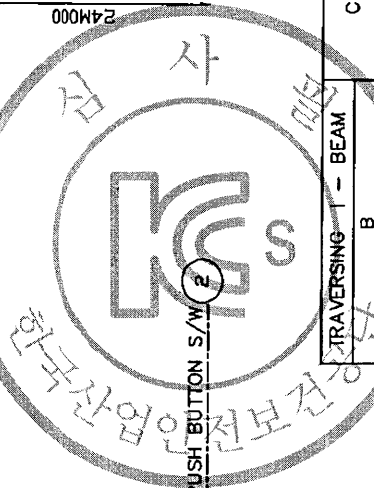
SPECIFICATION			
RATED LOAD		2800 KG	
TESTING LOAD		3500 KG	
LIFT		36 M	
RATING		30 MIN	
HOISTING	HIGH	SPEED	9.0 M/MIN
		MOTOR	5 KW x 4P
LOW		SPEED	4.5 M/MIN
		MOTOR	2.5 KW x 8P
LOW		SPEED	16 M/MIN
		MOTOR	(0.5 KW x 6 P) x 2UNIT
HIGH		SPEED	24 M/MIN
		MOTOR	(0.75 KW x 4 P) x 2UNIT
DUAL LOW		SPEED	16/8 M/MIN
		MOTOR	(0.5/0.25 KW x 5/12 P) x 2UNIT
DUAL HIGH		SPEED	24/12 M/MIN
		MOTOR	(0.8/0.4 KW x 4/8 P) x 2UNIT
WIRE ROPE		(6x37) Ø12.5 x 2 FALLS	
POWER SOURCE		AC3Ø 220V(380,440,460,480)V 60Hz	
COLOR		10 B 3/5	
GROSS WEIGHT		680 KG	

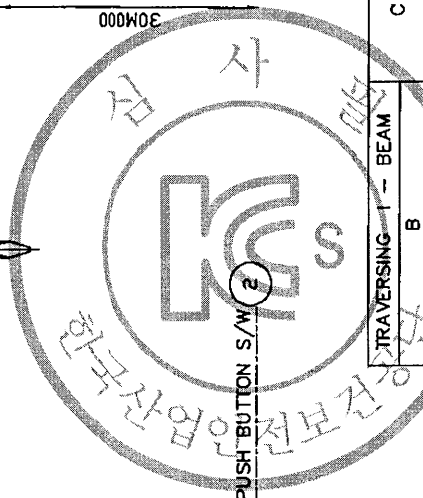
[illegible]



TRAVERSING	B	— BEAM	C
	125		450
	150		465
	175		485

[illegible]

[illegible]

[illegible]

SPECIFICATION									
RATED LOAD		2800 KG							
TESTING LOAD		3500 KG							
LIFT		36 M							
RATING		30 MIN							
HOISTING	SPEED	9.0 M/MIN							
	MOTOR	5 KW x 4P							
	SPEED	4.5 M/MIN							
LOW	MOTOR	2.5 KW x 8P							
	SPEED	16 M/MIN							
	MOTOR	(0.5 KW x 6 P) x 2UNIT							
HIGH	MOTOR	24 M/MIN							
	MOTOR	(0.75 KW x 4 P) x 2UNIT							
	SPEED	16/8 M/MIN							
DUAL LOW	MOTOR	(0.5/0.25 KW x 6/12 P) x 2UNIT							
	SPEED	24/12 M/MIN							
	MOTOR	(0.8/0.4 KW x 4/8 P) x 2UNIT							
WIRE ROPE		(6x37) 12.5 x 2 FALLS							
POWER SOURCE		AC3 220V(380,440,460,480)V 60Hz							
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ELECTRICAL SYMBOL LIST

DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS		DESCRIPTION	SYMBOLS	
			MAKE	BREAK		MAKE	BREAK
3 PHASE SQUIRREL CAGE ROTOR INDUCTION MOTOR		NO FUSE BREAKER 2 PHASE			MAGNETIC & RELAY CONTACTOR		
3 PHASE WOUND ROTOR INDUCTION MOTOR		NO FUSE BREAKER 3 PHASE			ON DELAY TIME CONTACTOR		
DC MAG. BRAKE DISK TYPE		EARTH LEAKAGE BREAKER 2 PHASE			OFF DELAY TIME CONTACTOR		
THRUSTER BRAKE		EARTH LEAKAGE BREAKER 3 PHASE			EOCR OR THERMAL RELAY CONTACTOR		
AC-DC MAG. BRAKE		TRANSFORMER			THERMOSTAT		
SC BRAKE		CURRENT TRANSFORMER			LIMIT SWITCH		
EC BRAKE		POTENTIAL TRANSFORMER			PUSHBUTTON SWITCH		
RECTIFIER		FUSE			EMERGENCY PUSHBUTTON SWITCH		
LOAD LIMITER ELECTRICAL TYPE		FUSE WITH CONTACTOR			KEY SWITCH		
ELECTRONIC OVER CURRENT RELAY		THYRISTOR UNIT			FOOT SWITCH		

DESCRIPTION	SYMBOLS	
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20	ADR'S NO.
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20	ADR'S NO.
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20	ADR'S NO.
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ELECTRICAL SPECIFICATION

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

CONTROL SOURCE : AC 1Φ 110V, 120V 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440, 460, 480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	HIGH 5.0KW x 4P 30 MIN	22.8 A	6.0 sq	12.2 A	6.0 sq	10.5 A	10.0 A	9.6 A	4.0 sq	DC MAG. BRAKE	
	LOW 2.5KW x 8P 30 MIN	17.7 A	6.0 sq	10.3 A	6.0 sq	8.9 A	7.7 A	7.3 A	4.0 sq	DC MAG. BRAKE	
REVERSING	HIGH 0.75KW x 4P 30 MIN	4.10 A	4.0 sq	2.40 A	4.0 sq	2.00 A	2.00 A	1.90 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	LOW 0.5KW x 6P 30 MIN	3.40 A	4.0 sq	2.00 A	4.0 sq	1.70 A	1.70 A	1.60 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	HIGH/LOW 0.8/0.4KWx4/8P 30 MIN	4.80 A	4.0 sq	2.78 A	4.0 sq	2.40 A	2.30 A	2.30 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	HIGH/LOW 0.5/0.25KWx6/12P 30 MIN	3.20 A	4.0 sq	1.85 A	4.0 sq	1.80 A	1.78 A	1.76 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
CONTROL CIRCUIT		2 A	2.5 sq	2 A	2.5 sq	2 A	2 A	2 A	2.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL (NORMAL LOAD)	HIGH	26.90 A	10.0 sq	14.60 A	6.0 sq	12.50 A	12.00 A	11.50 A	6.0 sq	I(A)=M/H + T/S + ASS'Y	
	LOW	21.10 A	10.0 sq	12.30 A	6.0 sq	10.60 A	9.40 A	8.90 A	6.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (PEAK LOAD)	HIGH	28.90 A	-	16.60 A	-	14.50 A	14.00 A	13.50 A	-	I(A)=M/H + T/S + ASS'Y	
	LOW	23.10 A	-	14.30 A	-	12.60 A	11.40 A	10.90 A	-	I(A)=M/H + T/S + ASS'Y	

* 위 계산은 H-HIGH(MAX.) 일때와 LOW(MIN.) 일때만 계산한것임.

* 위 계산은 LIFT 6(9, 12, 18)M에 적용

192.168.1.38 / 2012-06-27 11:35:02

ELECTRICAL SPECIFICATION

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

CONTROL SOURCE : AC 1Φ 110V, 120V 60Hz

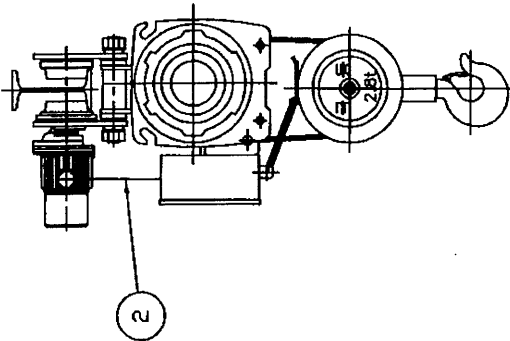
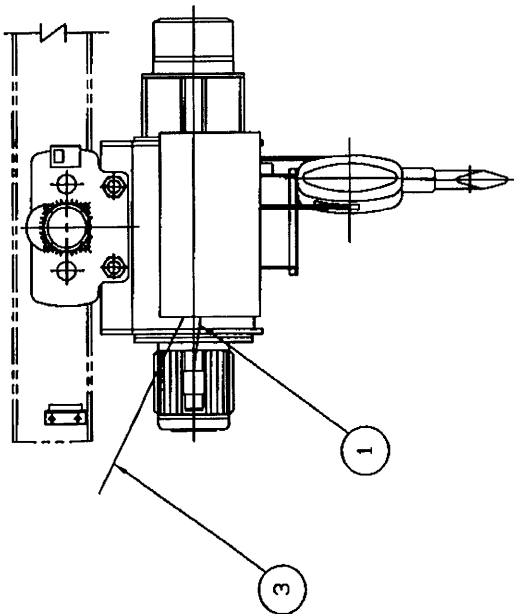
OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440, 460, 480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	HIGH	22.8 A	6.0 sq	12.2 A	6.0 sq	10.5 A	10.0 A	9.6 A	4.0 sq	DC MAG. BRAKE	
	LOW	17.7 A	6.0 sq	10.3 A	6.0 sq	8.9 A	7.7 A	7.3 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	4.0 sq	2.40 A	4.0 sq	2.00 A	2.00 A	1.90 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
	LOW	3.40 A	4.0 sq	2.00 A	4.0 sq	1.70 A	1.70 A	1.60 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
	HIGH/LOW	4.80 A	4.0 sq	2.78 A	4.0 sq	2.40 A	2.30 A	2.30 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
	HIGH/LOW	3.20 A	4.0 sq	1.85 A	4.0 sq	1.80 A	1.78 A	1.76 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
CONTROL CIRCUIT		2 A	2.5 sq	2 A	2.5 sq	2 A	2 A	2 A	2.5 sq		
LIGHTING & ACC'Y CIRCUIT											
SUB TOTAL (NORMAL LOAD)	HIGH	31.00 A	10.0 sq	14.60 A	6.0 sq	14.50 A	14.00 A	13.40 A	6.0 sq	I(A)=M/H + T/S + ASS'Y	
	LOW	24.50 A	10.0 sq	14.30 A	6.0 sq	10.60 A	11.10 A	10.50 A	6.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (PEAK LOAD)	HIGH	33.00 A	-	16.60 A	-	16.28 A	16.00 A	15.40 A	-	I(A)=M/H + T/S + ASS'Y	
	LOW	26.50 A	-	16.30 A	-	14.08 A	13.10 A	12.50 A	-	I(A)=M/H + T/S + ASS'Y	

위 계산은 H-HIGH, MAX.) 일때와 HIGH(MAX.) 일때와 LOW(MIN.) 일때만 계산한것임.
 * 위 계산은 LIFT 24M, 30M, 36M에 적용.

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한글서체

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



동전위접지

본 도면은 EARTH를 영기하기 위한 도면으로서
실제 배치와 다를 수 있으며 HOIST 본체와의
EARTH용 CABLE은 REFERENCE

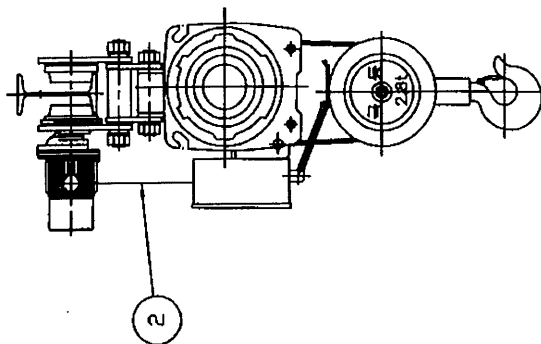
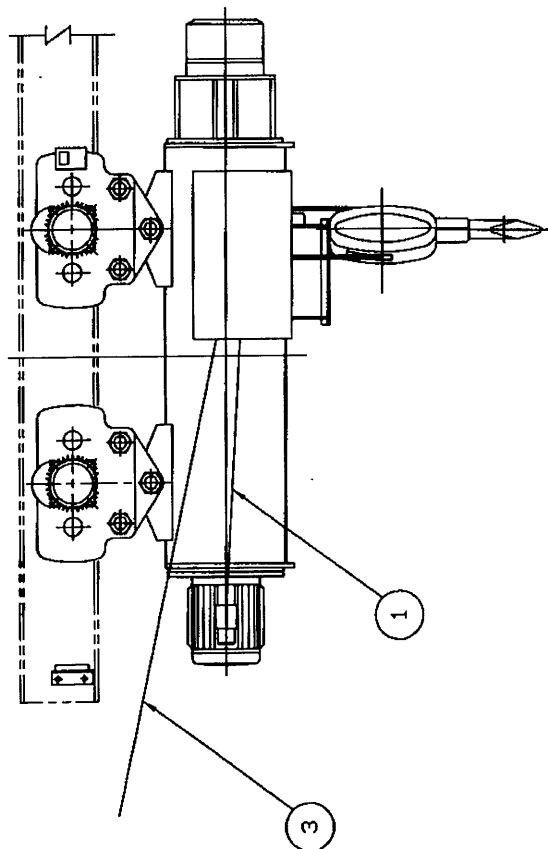
*3중 접지공사 100Ω 이하 (AC 3PH 400V 미터기 이상)
*4중 접지공사 100Ω 이하 (AC 3PH 400V 미터기 이상)

NO	CABLE				REMARK
	SIZE				
	TYPE	380V	TYPE		
	2.20V	6.0sq	440V,460V,480V		
1	VCT	6.0sq	VCT	4.0sq	HOISTING MOTOR WITH EARTH
2	VCT	6.0sq	VCT	4.0sq	T/S MOTOR WITH EARTH
3	VFCT	10sq	VFCT	6.0sq	MAIN POWER WITH EARTH

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

[illegible]

* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz (LIFT 24,30,36M)
* 24,30,36M TRAVERSING MOTOR 2UNIT



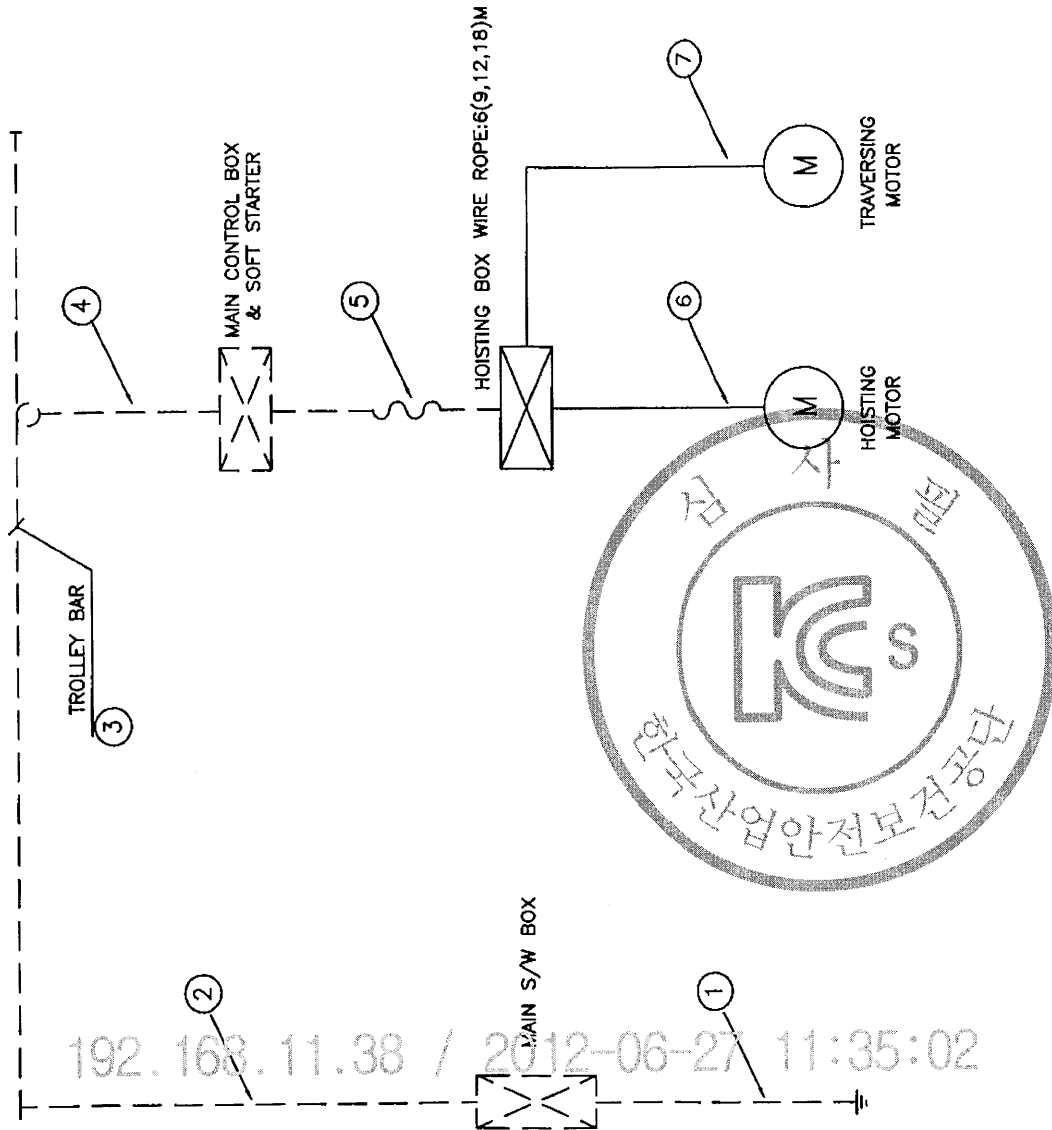
등전위접지

1. 전기장비와 기계의 보충된 것은 그 후 6개월 이내에 인출되어야 하며 적절한 전기연속 기능이 유지되어야함.
2. 보호본딩회로는 기뢰기, 과전류보호장치기 부하되지 않아야 한다.

NO	CABLE					REMARK
	TYPE	SIZE		TYPE	VOLTAGE	
		220V	380V			
1	VCT	6.0sq	6.0sq	VCT	440V, 460V, 480V	HOISTING MOTOR WITH EARTH
2	VCT	4.0sq	6.0sq	VCT	4.0sq	T/S MOTOR WITH EARTH
3	VFCT	10sq	6.0sq	VFCT	6.0sq	MAIN POWER WITH EARTH

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

[illegible]



* CV CABLE 4C중 1C는 EARTH로 사용함.

- NOTE -

1. 전동기 외함, 제어반의 프레임 등은 접지하
여 그 접지 저항은

400V 미만 : 100옴 이하일것.(3중 접지)
400V 이상 : 10옴 이하일것.(복 3중접지)

2.MAIN S/W BOX는 3중 접지 요.

----- USER SCOPE

----- KUKDONG SCOPE

동전위접지

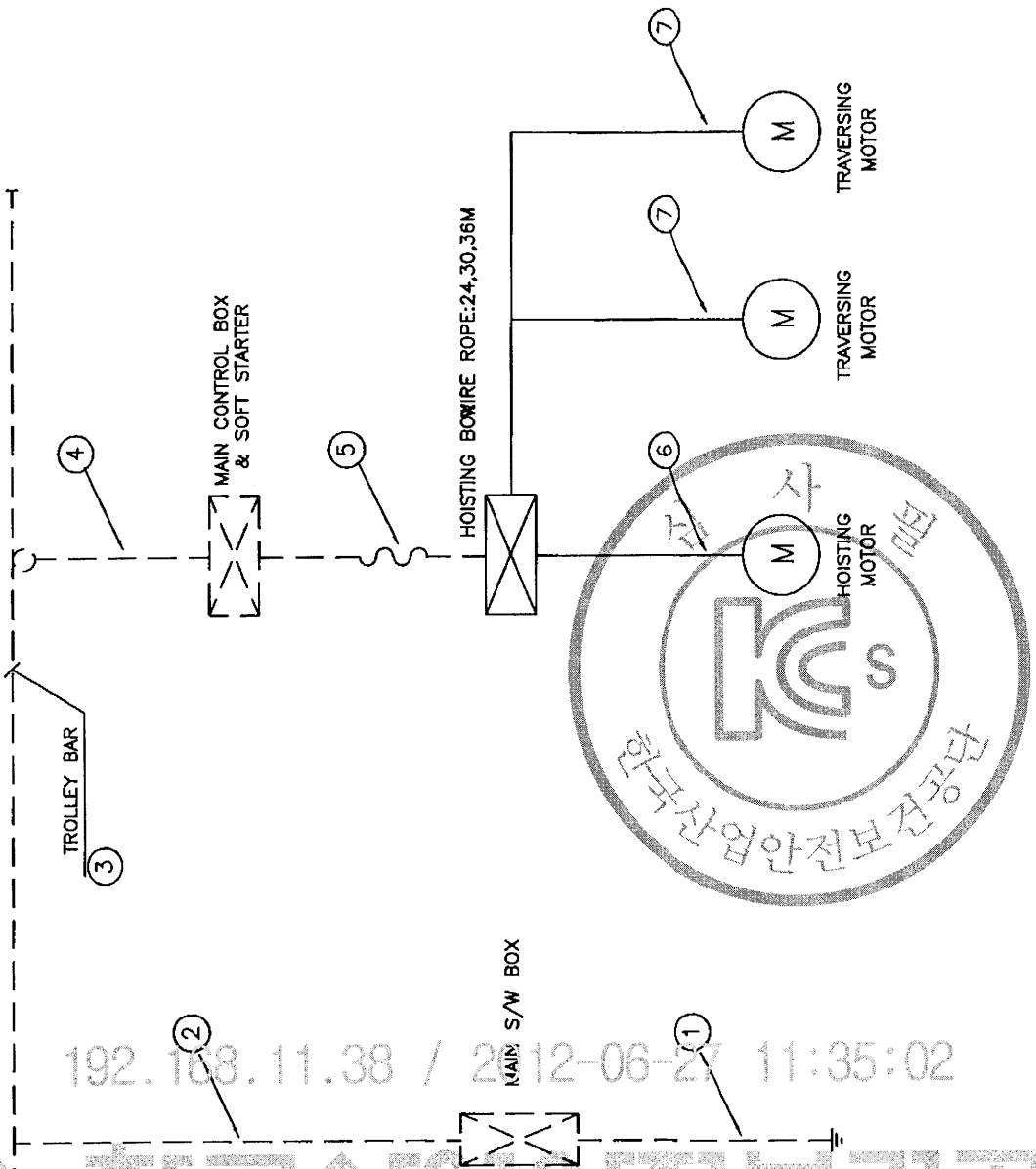
1. 전기장비와 기계의 노출된 모든 도선부는 보호접지망에 연결되어야 하며
적절한 접지연속성 기능이 유지되어야함.
2. 보호접지회로는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

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

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NO	DESCRIPTION	CABLE SIZE
1	MAIN EARTH LINE	USER SCOPE
2	POWER SOURCE	USER SCOPE
3	TROLLEY BAR	USER SCOPE
4	POWER SOURCE WITH EARTH	USER SCOPE
5	HOST POWER SOURCE WITH EARTH	VCT 10SQ x 1C
6	HOISTING MOTOR WITH EARTH	VCT 6.0SQ x 1C
7	TRAVERSING MOTOR WITH EARTH	VCT 4.0SQ x 1C

* CV CABLE 4C중 1C는 EARTH로 사용함.

- NOTE -

- 전동기 외형, 제어반의 프레임 등은 참조하여 그 설치 제한을
- 400V 미만 : 100오옴 이하일것.(3중 접지)
400V 이상 : 10오옴 이하일것.(복 3중접지)
2.MAIN S/W BOX는 3중 접지 요.

USER SCOPE

KUKDONG SCOPE

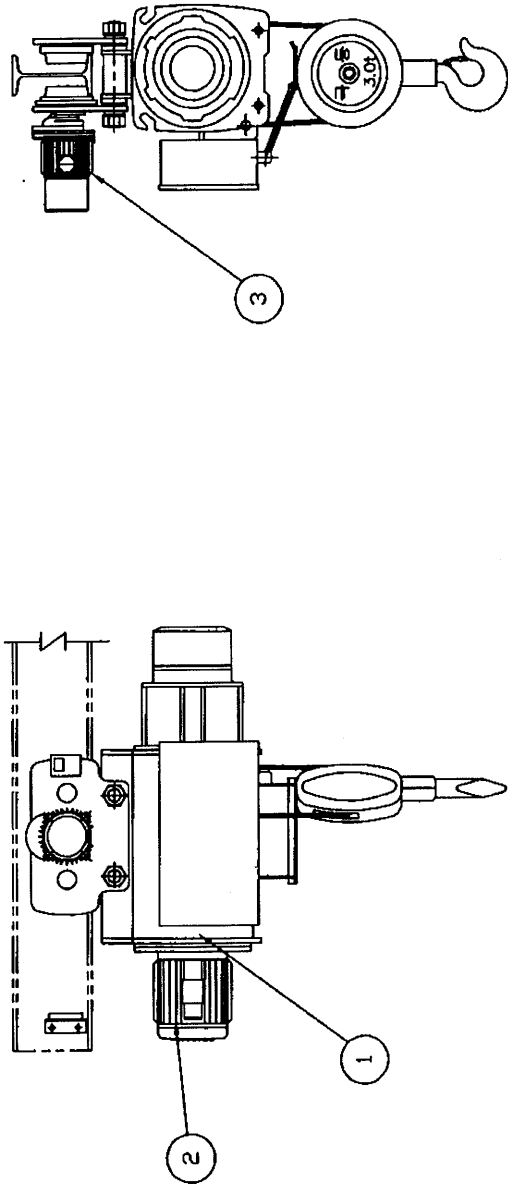
동전위접지

- 전기장비와 기계의 노출된 모든 도전부분은 보호접지(회로설계도면에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야함.)
- 보호접지회로에는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

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

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE	2003.07.01	
KD 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
EARTH DETAILS DRAWING						KD28-EC001
REVISIONS	CHK.	APP.	MK	DATE		

* MAIN POWER : AC 3PH 220V,380V,440V,460V,480 60Hz (LIFT 6,9,12,18,24,30,36M)



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

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

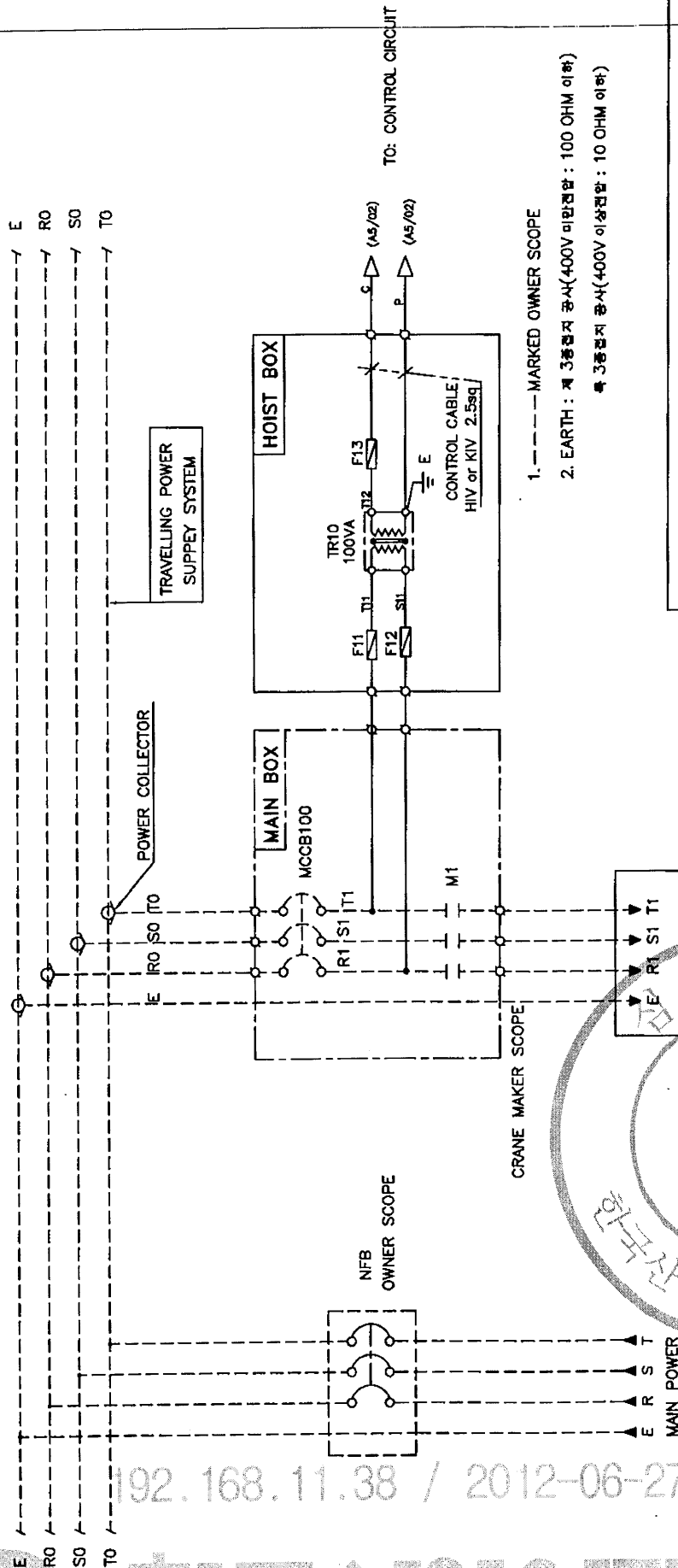
3 PHASE INDUCTION MOTOR			
	KW	P TYPE	TENV
VOLTS		V RATING	min
AMP.S		A AMP. TEMP	40C
HEARTS		INS. CLASS	F
R.P.M		BEARING	
ROTOR	C	BEARING	
SERIAL		DATE	
KUKDONG HOIST CO.,LTD			

A	MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER	DRAWING TITLE	WIRE HOIST NAMEPLATE	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.			
															극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		DWG. NO	KD28E601

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
																			ADR'S NO.
																			A1



1. --- MARKED OWNER SCOPE

2. EARTH : 제 3종접지 공사(400V 미만전압 : 100 OHM 이하)

특 3종접지 공사(400V 이상전압 : 10 OHM 이하)

1. 전선의 색상은 다음과 같다.

- 1) 흑색 : 교류 및 직류전원선
- 2) 적색 : 교류제어선
- 3) 청색 : 교류제어선
- 4) 녹색 또는 녹색과 황색 혼용 : 접지
- 5) 흰색 : 중립

2. 표시등의 색상은 다음과 같다.

- 1) 적색 : 비상
- 2) 황색 : 비정상
- 3) 녹색 : 정상
- 4) 청색 : 외부
- 5) 흰색 : 중립

3. 조작 버튼의 색상은 다음과 같다.

- 1) 적색 : 비상
- 2) 황색 : 비정상
- 3) 청색 : 외부
- 4) 흰색, 회색 또는 녹색 : 지정된 의미 없음

SELECTION	VOLTAGE	F11	F12	F13	MCCB100	TR10
	220V	2A	3A	3A	53AF/40AT	220/110,120V 100VA
	380V	1A	3A	3A	33AF/20AT	380/110,120V 100VA
	440V	1A	3A	3A	33AF/20AT	440/110,120V 100VA
	460V	1A	3A	3A	33AF/20AT	460/110,120V 100VA
	480V	1A	3A	3A	33AF/20AT	480/110,120V 100VA

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						DWG. NO
극동호이스트 주식회사						KD28E001
MAIN POWER CIRCUIT 1						
DIAGRAM						
CUSTOMER						
DRAWING TITLE						
REVISIONS	CHK.	APP.				
DATE						

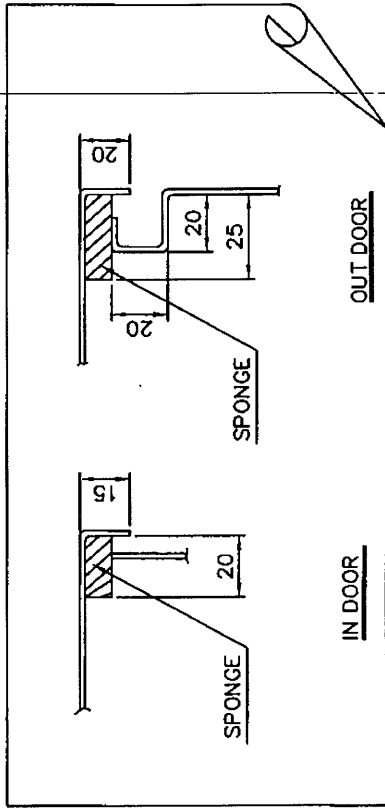
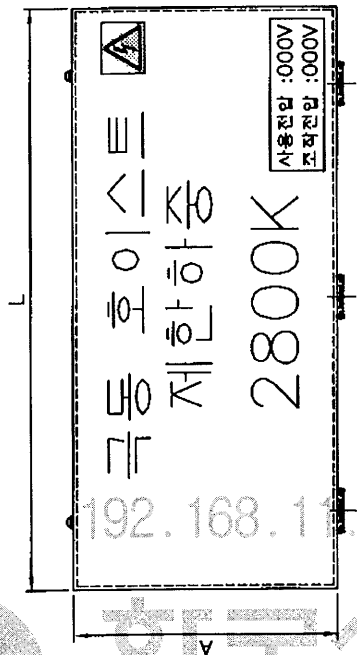
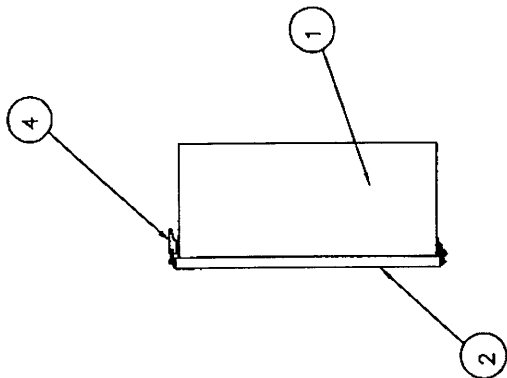
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

ADR'S NO.

NO	DESCRIPTION	MT'L	REMARKS
1	PANEL CASE	SPC	1.6t
2	PANEL COVER	SPC	1.6t
3	HINGE	PUR'	
4	CLAMP	PUR'	
5	SPONGE	PUR'	



NOTE

1.PROTECTION DEGREE ;

A. INDOOR TYPE : DUST PROOF

B. OUT DOOR TYPE : SPLASH PROOF

2.FINAL PAINTING COLOR (MUNSELL NO.)

A. IN SIDE : 10B 3/5

B. OUT SIDE : 10B 3/5

3.PAINTING THICKNESS : ABOVE 40 μ m

4.APPLICATION VOLTAGE : 220V,380V,440V,460V,480V

5.제어용 전선 : 2.5sq KIV,HIV

6.외함 개방 구조는 다음과 같다.

1) 외함 개방시 충전 부분이 차단되도록 한다.

2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의

직접 접촉 방호가 되어있을것.

SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR			OUT DOOR			REMARK
			A	B	L	A	B	L	
	2.8 TON	NORMAL	360	170	790	360	170	810	
		CREEP	360	170	790	360	170	810	

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						
HOISTING CONTROL BOX LAY-OUT						
DWG. NO. KD28EB00						

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

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 전 도 글
2	CABLE DUCT	-	1	
3	N.F.B	53AF/40AT	1	HOISTING
4	MAGNET CONTACTOR	DMC40C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC65C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	2 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	220V/110V, 120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A, 15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상과 같다.

1) 폭색 : 교류 및 직류 전원선으로 5) 형 색 : 직류 제어회로

2) 적색 : 교류 제어회로

3) 주황색 : 외부전원에서 공급되는 운동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

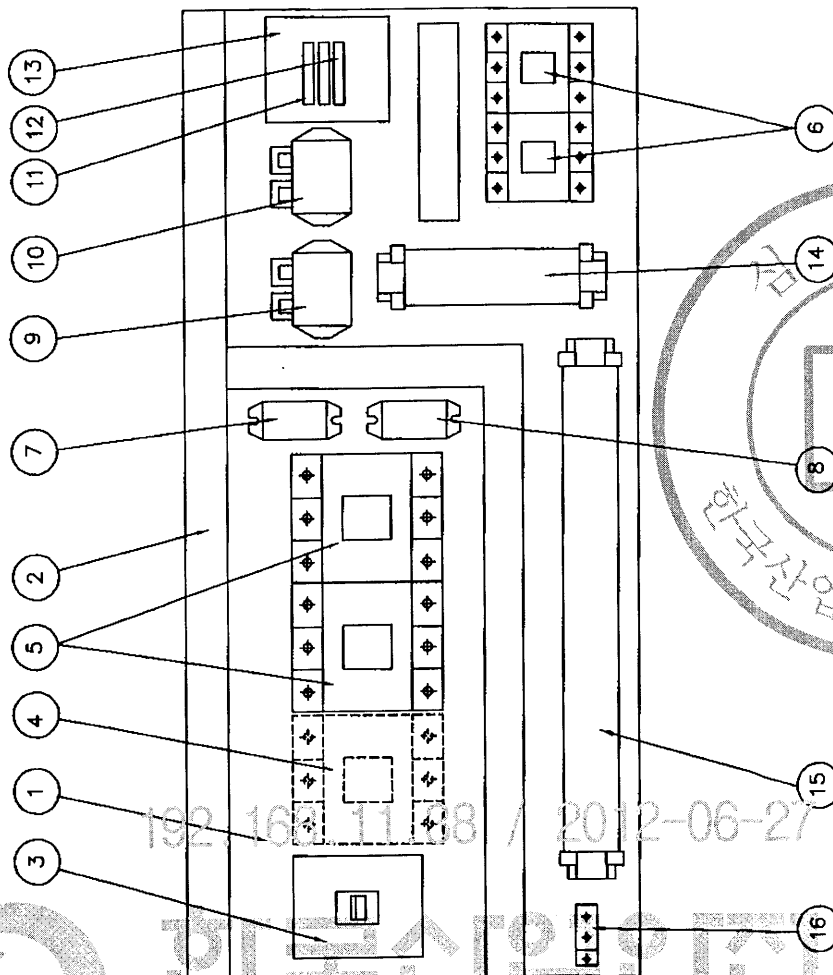
3. 제어용 전선 : 2.5mm KIV, H1V

4. 제어시 다스 변경 필수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

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



NOTE

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

2. POWER SOURCE : AC 3φ 220V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω

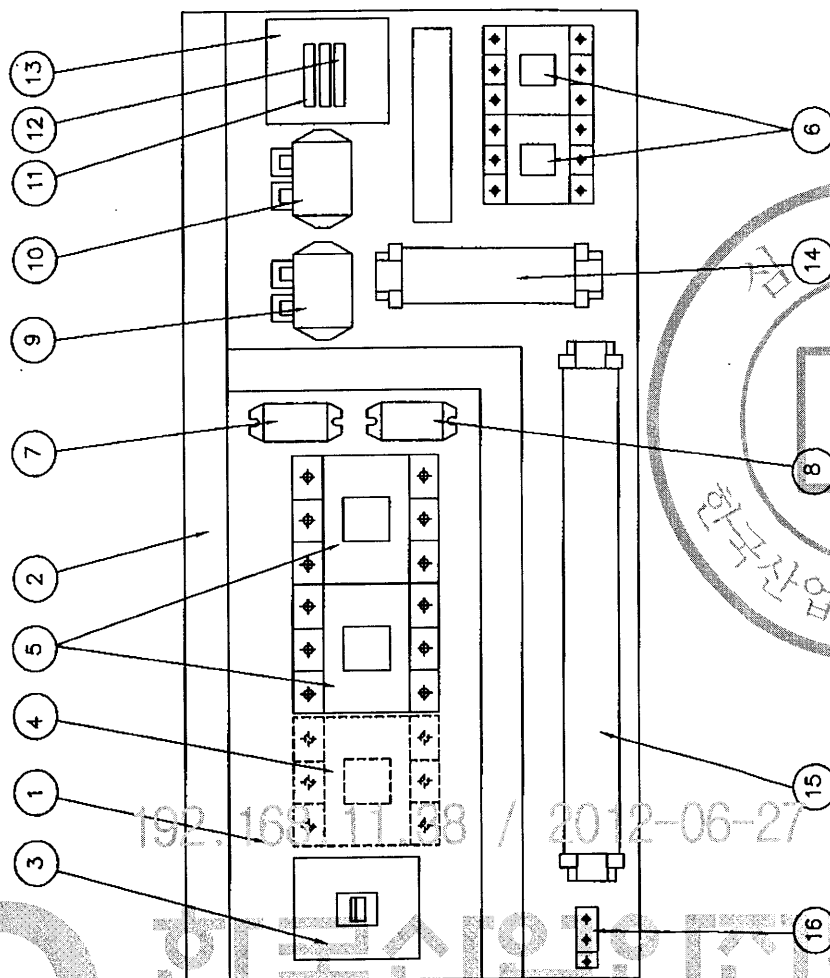


DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						KD28BA21
KUK DONG HOIST CO., LTD.						
HOIST CONTROL BOX (고사)						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
CHK. APP.						
DATE						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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NOTE 1. 전선의 사양은 다음과 같다.

- 1) 흑색 : 고무 및 자부 전원선표
 - 2) 적색 : 고무제어회로
 - 3) 주황색 : 외부전선에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : { KIV OR EQUIVALENT } MIN SIZE : 2.5sq
3. 제어용 전선 : 2.5mm KIV,HIV
 4. 제어시 다소 변경 될수있음.
 5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 충전부분이 차단되도록 할것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어

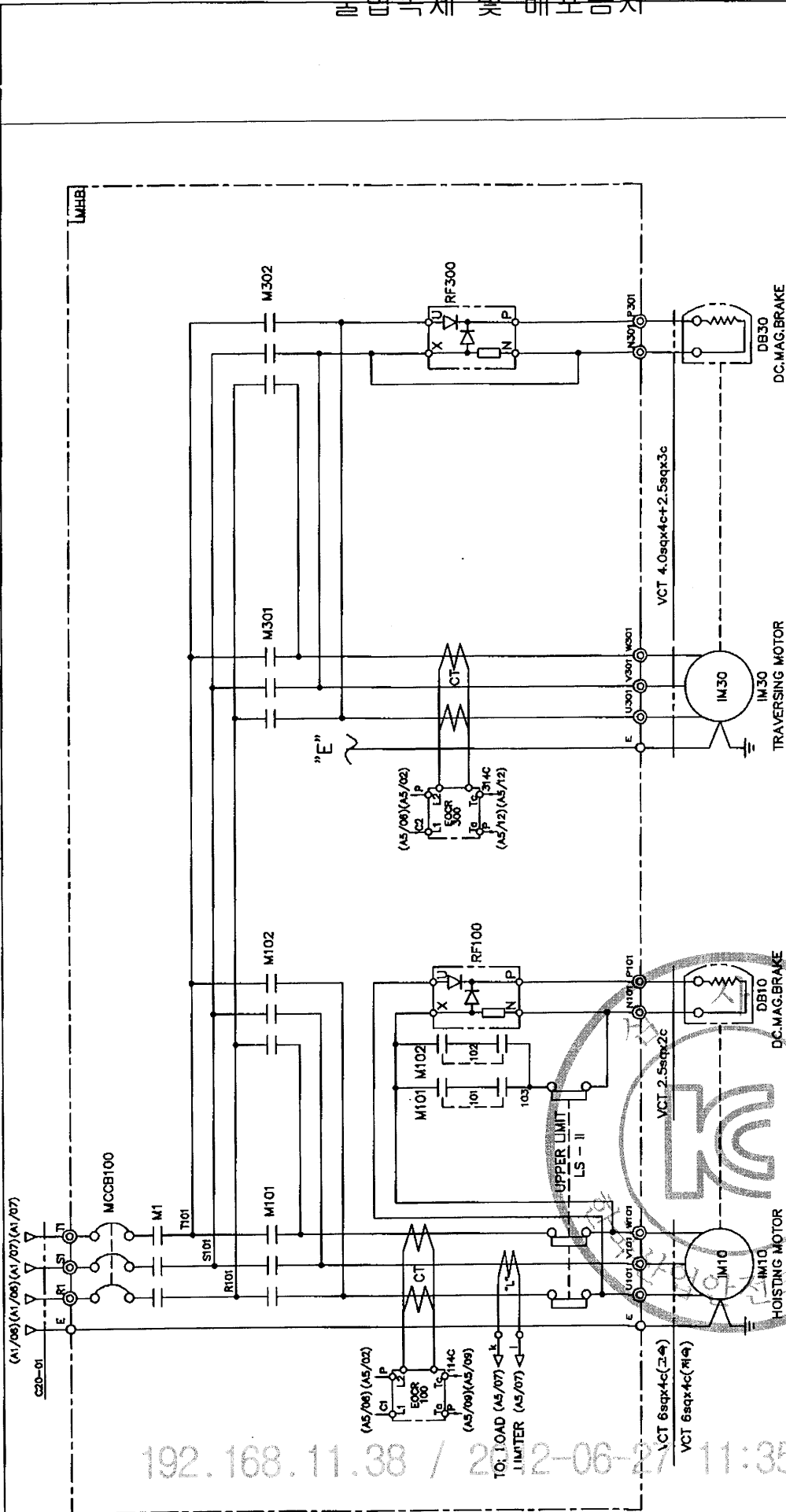


NOTES

1. UPPER LIMIT LS-1, LS-2의 전점 허용 전류 : 8A, AC 600V, 75A
2. POWER SOURCE : AC 3ø 220V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

[illegible]

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

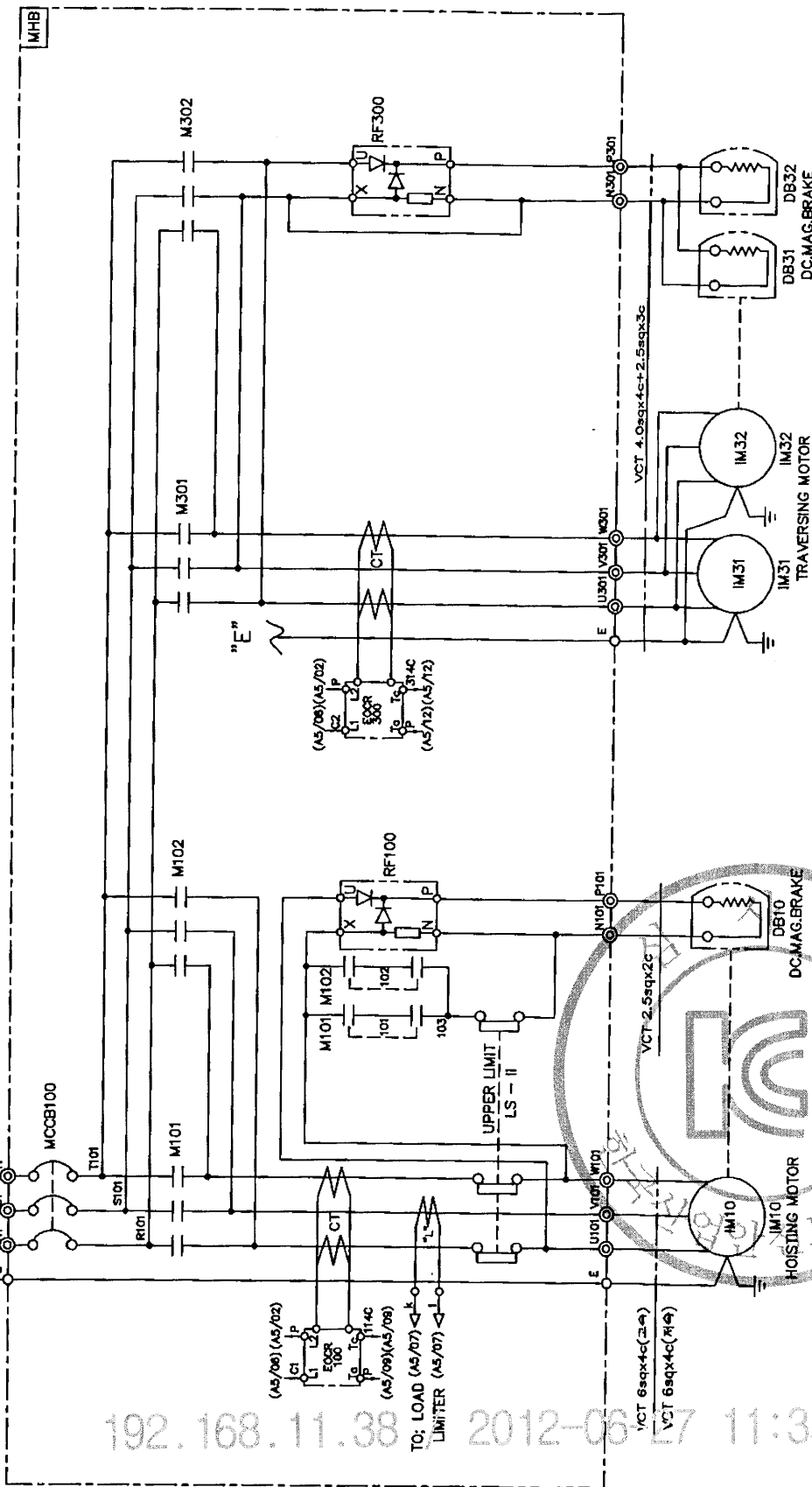


SPECIFICATION		HOISTING POWER		HOISTING MOTOR		TRAVERSING MOTOR		DC MAG. BRAKE		NO FUSE BREAKER		TRANSFORMER		FUSE		MAIN MAGNET		MAGNET CONTACTOR		UPPER LIMIT		ELECTRIC OVER CURRENT RELAY		SILICON RECTIFIER		LOAD LIMITER		CABLE	
SYMBOLS DESCRIPTION		HOIST		IM 10		IM 30		DB10		MCCB100		TR 1		F1, F12		M1		M101, M102		LS-I, LS-II		EOCR300		RF300		JDL-100		C20-01	
2.8TON AC 3PH 220V 60Hz 5.0KW x 4P 0.75KW x 4P		2.8TON AC 3PH 220V 60Hz 2.5KW x 8P 0.5KW x 6P		IM 10		IM 30		DC 100V		DC 100V		220/110V/120V/100VA		2A		DMC48C		DMC22C		AC 600V 75A		SS-05		SR-60		JDL-100		VFCT 10sqx4c	
2.8TON AC 3PH 220V 60Hz 2.5KW x 8P 0.5KW x 6P		DC 100V		DC 100V		DC 100V		DC 100V		DC 100V		220/110V/120V/100VA		2A		DMC48C		DMC22C		AC 600V 75A		SS-05		SR-60		JDL-100		VFCT 10sqx4c	
SELECTION		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
MAKER		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
CUSTOMER		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
DRAWING TITLE		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT		HOISTING POWER & CONTROL CIRCUIT	
REVISIONS		CHK.		APP.		CHK.		APP.		CHK.		APP.		CHK.		APP.		CHK.		APP.		CHK.		APP.		CHK.		APP.	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
DWG. NO		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
ORDER NO.		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG		KUKDONG	
JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0		JUNGH0	
DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL		DONGIL	

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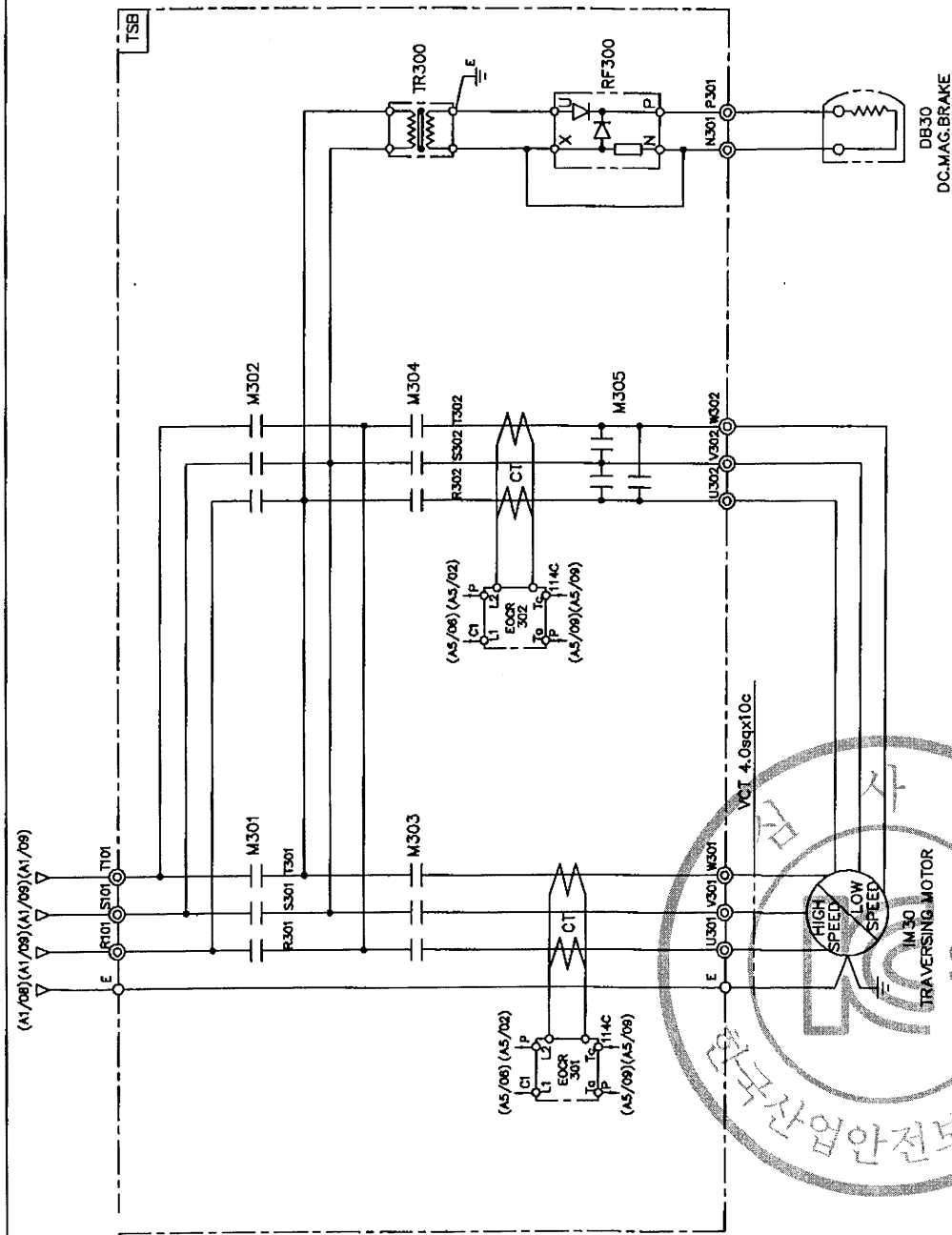
한국산업인력공단

1	2	3	4	5	6	7	8	9	1	11	12	13	14	15	16	17	19	20
POWER CIRCUIT										TRAVERSING MOTION								
HOISTING MOTION										B1								
(A1/06)(A1/07)(A1/07)(A1/07)										B1								



SPECIFICATION		HOISTING POWER		HOISTING MOTOR	TRANSVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE					
SYMBOL'S DESCRIPTION		HOIST		IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	C20-01		
		2.8TON AC 3PH 220V 60Hz		5.0KW x 4P	0.75KW x 4P	DC 100V	ABS-53AF/40AT	220/110V/120V/100VA	2A	3A	DMC65C	DMC22C	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 10sqx4c	
		2.8TON AC 3PH 220V 60Hz		2.5KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/30AT	220/110V/120V/100VA	2A	3A	DMC48C	DMC22C	AC 600V 75A	SS-30	SS-30	SR-60	SR-30	JDL-100	VFCT 10sqx4c	
SELECTION / MAKER		KUKDONG			LS		SHINHAN	-		DONG-A	KUKDONG	ASECO				JUNGHO	DONGIL			
					CUSTOMER												DATE		ORDER NO.	
					DRAWING TITLE		HOISTING POWER & CONTROL CIRCUIT										NONE			
					DIAGRAM		 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.										DWG. NO		KD28E24	
DATE		REVISIONS			CHK.	APP.														
MK																				

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



SPECIFICATION		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
SYMBOLS		IM 30		DB30		M301, M302, M303		RF 300		EOCR 301,302		TR300	
DESCRIPTION		220V		0.5/0.25KWx6/12P AC3PH 220V 60Hz		DC 100V		DMC22C		SR-30		AC220/220V, 300VA	
		220V		0.8/0.4KWx4/8P AC3PH 220V 60Hz		DC 100V		DMC22C		SR-30		AC220/220V, 300VA	
SELECTION								DONG-A		ASECO		SHINHAN	
MAKER				KUKDONG				DRAWING		DESIGN		CHECKED	
		CUSTOMER						APPROVED		SCALE		DATE	
		DRAWING		TRAVERSING POWER CONTROL CIRCUIT						NONE			
		TITLE		DIAGRAM									
REVISIONS		CHK.		APP.				DWG. NO				KD28E25	
DATE								KUKDONG HOIST CO., LTD.					
								KID					

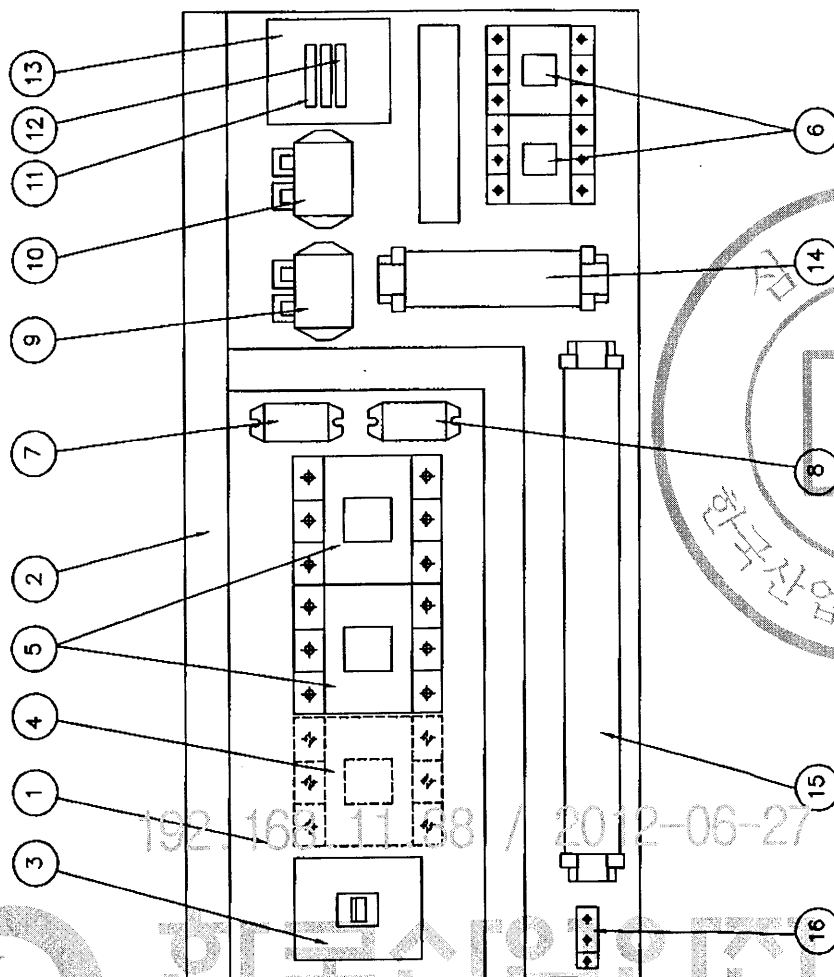
[illegible]

11	12	13	14	15	16	17	18	19	20
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1	2	3	4	5	6	7	8	9	10
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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/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	380V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3t×20×50	1	

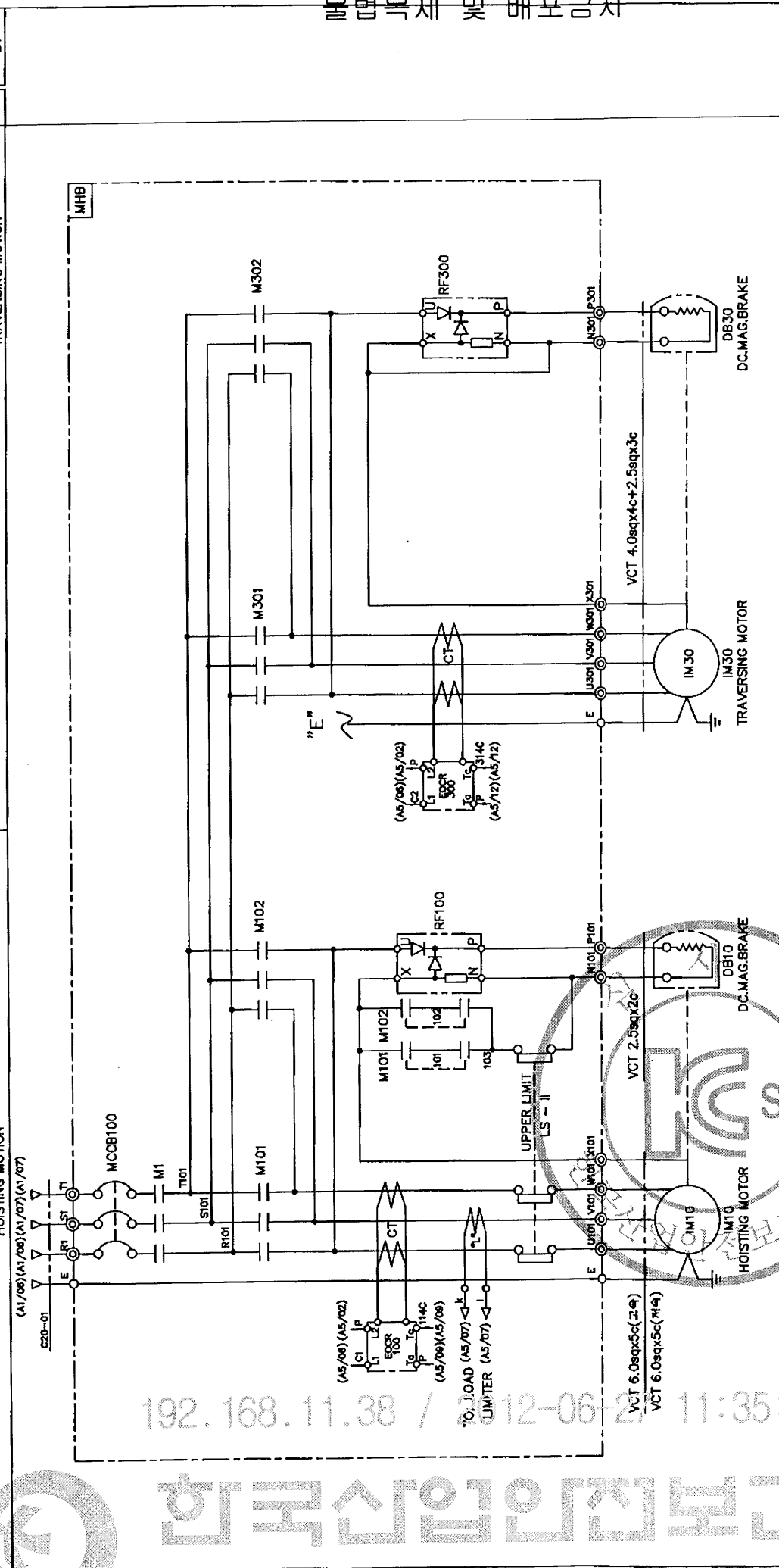


NOTE

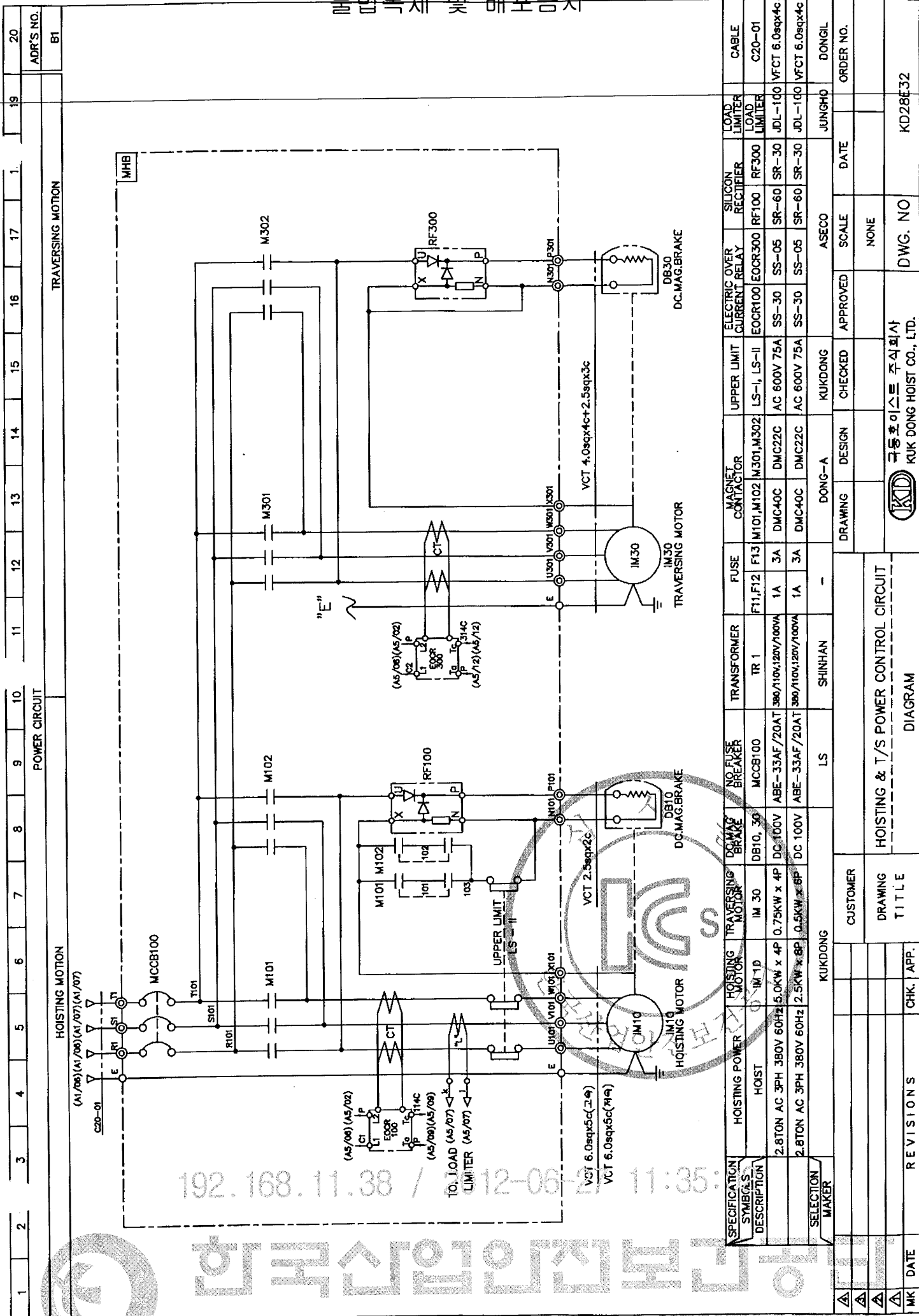
1. UPPER LIMIT LS-1, LS-2의 전압 허용 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC: 3φ 380V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω

- NOTE 1. 전선의 색상은 다음과 같다.
- 1) 흑 색 : 교류 및 직류 전원선로
 - 2) 적 색 : 교류 제어선
 - 3) 주황 색 : 외부에서 공급되는 연동장치 제어회로
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
3. 제어용 전선 : 2.5mm KIV, H/V
4. 제작시 다소 변경 될수있음.
5. 외함 개방구조는 다음과 같을것.
- 1) 외함 개방시 중전부분이 차단되도록 할것.
 - 2) 외함 개방후 중전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOIST CONTROL BOX (고속)						
ARRANGEMENT DRAWING						
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
						KD28BA31

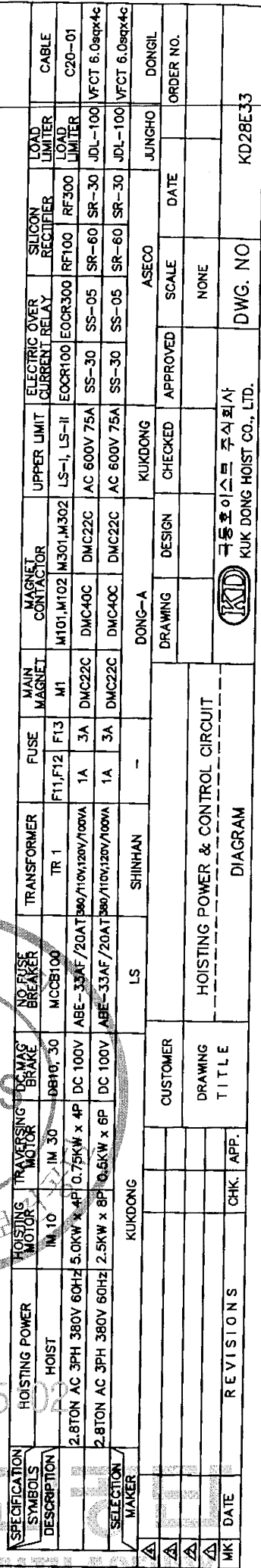


SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BREAKER	NO. FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE							
DESCRIPTION	HOIST	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F11, F12	M1	M101, M102	M301, M302	LS-I, LS-II	EOCR100	EOCR300	RF100	RF300	C20-01					
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.78KW x 4P	DC 100V	ABE-33AF/20AT	380/110V/120V/100VA	1A	3A	DMC22C	DMC40C	AC 600V 75A	SS-30	SS-05	SR-80	SR-30	JDL-100	VFCT 6.0sqx4c				
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 8P	DC 100V	ABE-33AF/20AT	380/110V/120V/100VA	1A	3A	DMC22C	DMC40C	AC 600V 75A	SS-30	SS-05	SR-80	SR-30	JDL-100	VFCT 6.0sqx4c				
SELECTION MAKER		KUKDONG			LS	SHINHAN	-		DONG-A		KUKDONG	ASECO				JUNGHO	DONGIL				
				CUSTOMER					DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE			ORDER NO.				
				DRAWING TITLE		HOISTING & T/S POWER CONTROL CIRCUIT															
				CHK. APP.		DIAGRAM															
DATE	REVISIONS					 KUK DONG HOIST CO., LTD.												DWG. NO.			KD28E.31



SPECIFICATION SYMBOLS DESCRIPTION	HOISTING POWER	HOISTING MOTOR	TRAVISING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
	HOIST	IM 1P	IM 30	DB10, 30	MCCB100	TR 1	F11,F12 F13	M101,M102 M301,M302	LS-I, LS-II	EOCR100	RF100	RF300	C20-01
	2.8TON AC 3PH 380V 60Hz	5.0KW x 4P	0.75KW x 4P	DC100V	ABE-33AF/20AT	390/110V/120V/100VA	1A	DMC40C	AC 600V 75A	SS-30	SR-60	JDL-100	VFCT 6.0sqx4c
	2.8TON AC 3PH 380V 60Hz	2.5KW x 8P	0.5KW x 8P	DC 100V	ABE-33AF/20AT	390/110V/120V/100VA	1A	DMC40C	AC 600V 75A	SS-30	SR-60	JDL-100	VFCT 6.0sqx4c
SELECTION MAKER	KUKDONG				LS	SHINHAN	-	DONG-A	KUKDONG	ASECO	JUNGHQ	DONGIL	
	CUSTOMER				DATE								
	DRAWING TITLE				NONE								
	HOISTING & T/S POWER CONTROL CIRCUIT				DWG. NO								
	DIAGRAM				KID								
	REVISIONS				KUKDONG HOIST CO., LTD.								
DATE	CHK.	APP.	KD28E32										

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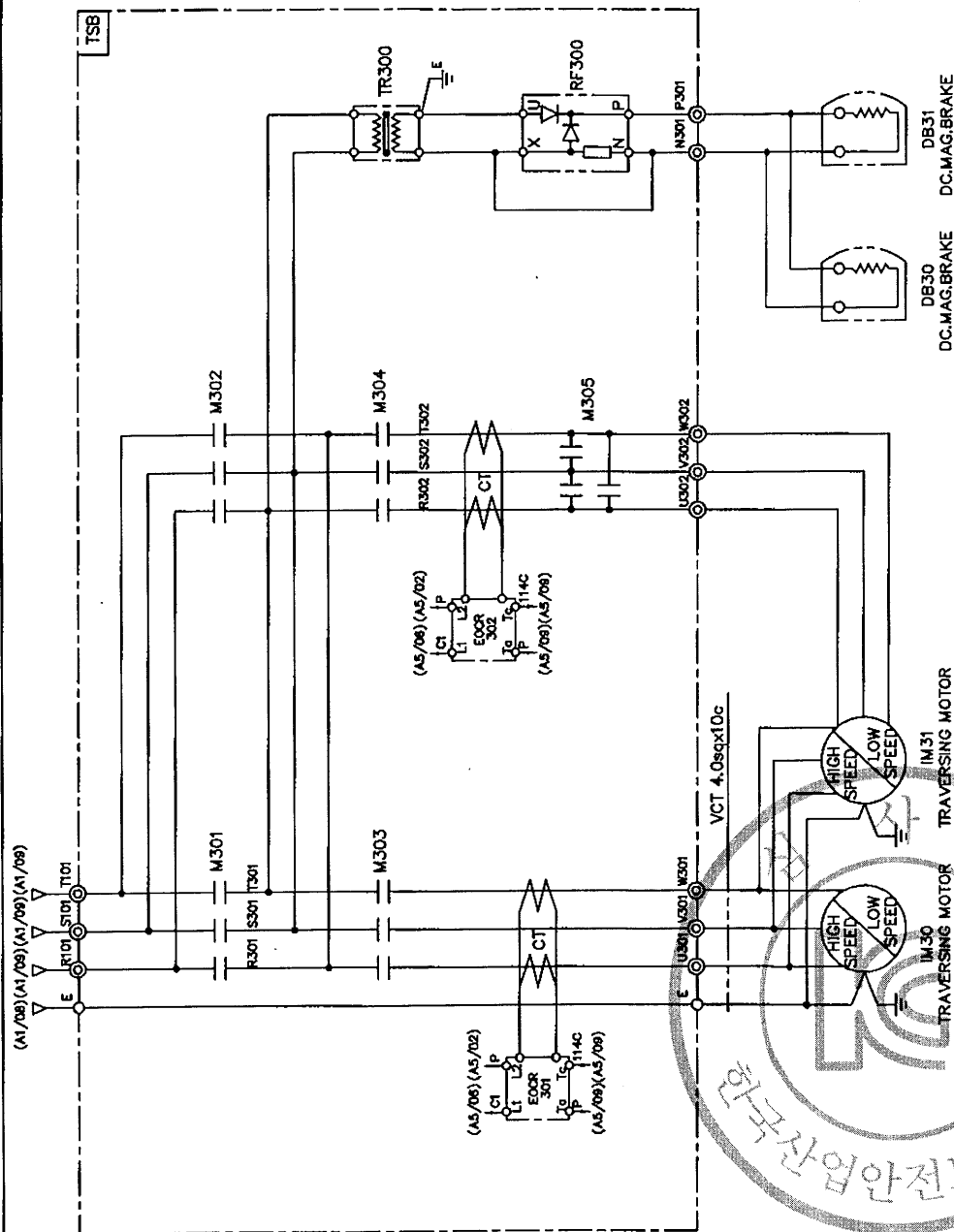


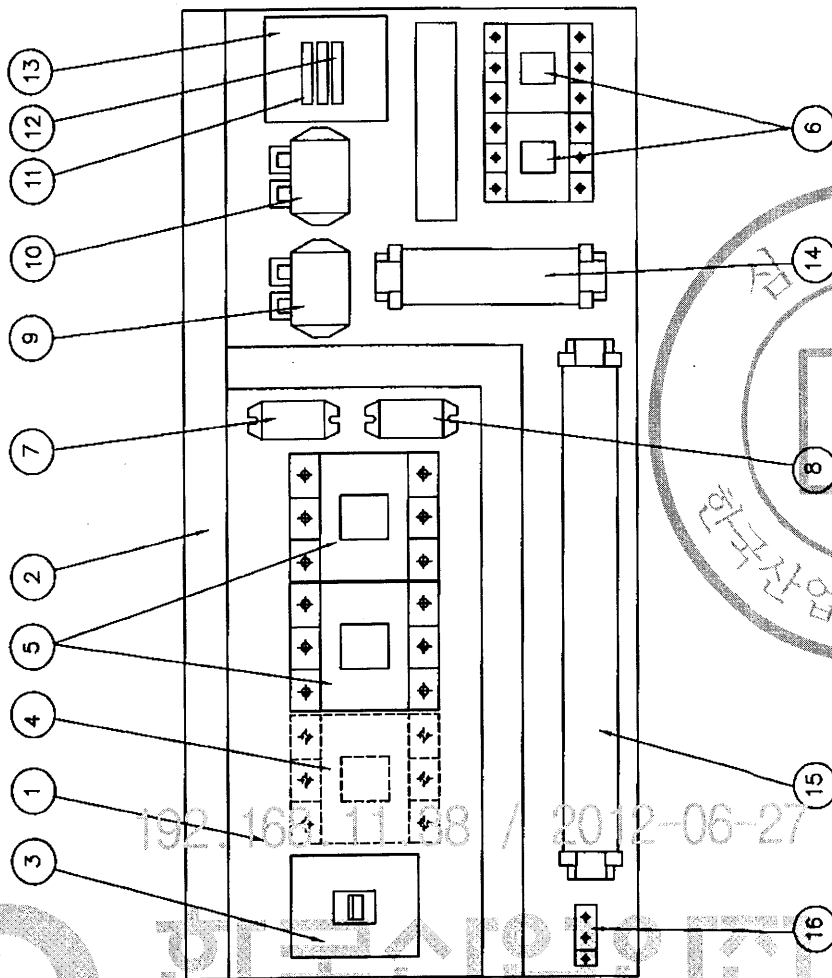
[illegible]

The diagram illustrates the electrical control system for a DC MAG. BRAKE. It includes a power supply section with a transformer TR300, a rectifier bridge RF300, and a filter capacitor C301. The main circuit consists of a DC link with capacitors M301, M302, M303, and M304. Two thyristor-based speed control stages are shown, each with a thyristor (T301, T302), a diode (D301, D302), and a freewheeling diode (FWD301, FWD302). The output is connected to a motor (M305) and a brake (B300).

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NOTE

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



NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 교류 및 직류 전원선으로 2) 청 색 : 교류 제어선

3) 주황색 : 외부에서 공급되는 연동장치 제어회로 4) 녹색 또는 녹색과 황색 혼합 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

3. 제어용 전선 : 2.5mm KIV, H1V

4. 제작시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

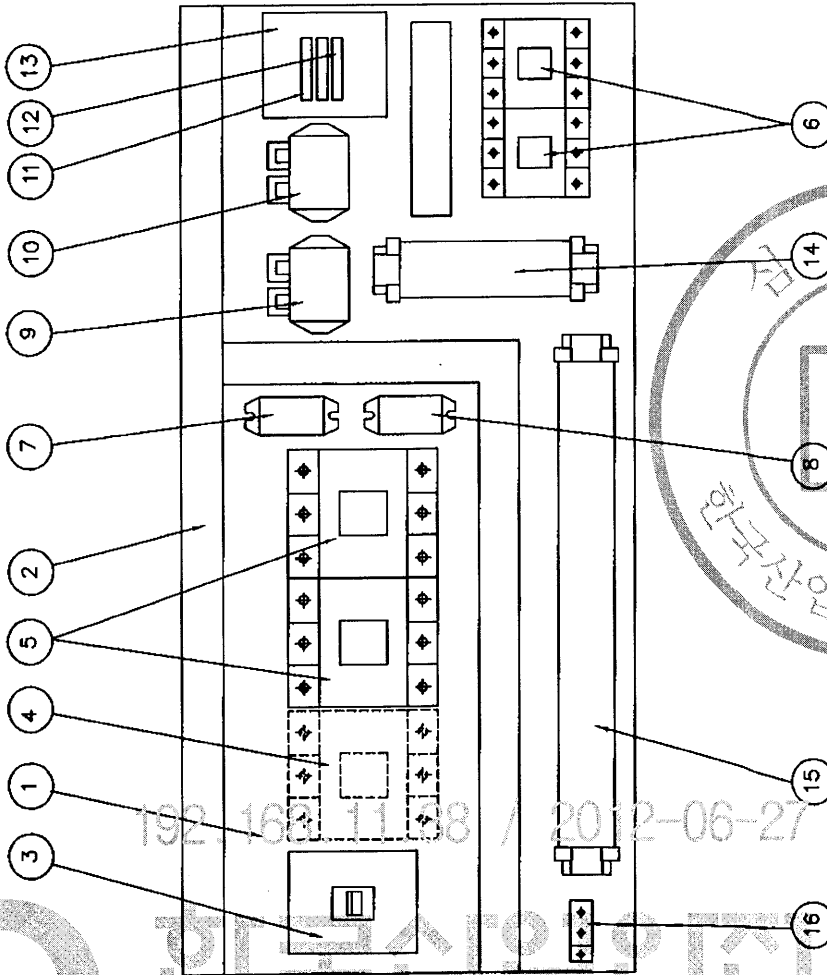
2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V, 120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A, 15A		
16	EARTH TERMINAL	3t×20×50	1	

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOIST CONTROL BOX (고속)					NONE		
ARRANGEMENT DRAWING		국동호이스트 주식회사 KUK DONG HOIST CO., LTD.			DWG. NO	KD28BA41	
DATE	REVISIONS	CHK.	APP.				

11	12	13	14	15	16	17	19	20
								ADR'S NO.

1	2	3	4	5	6	7	8	9	10
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NOTE

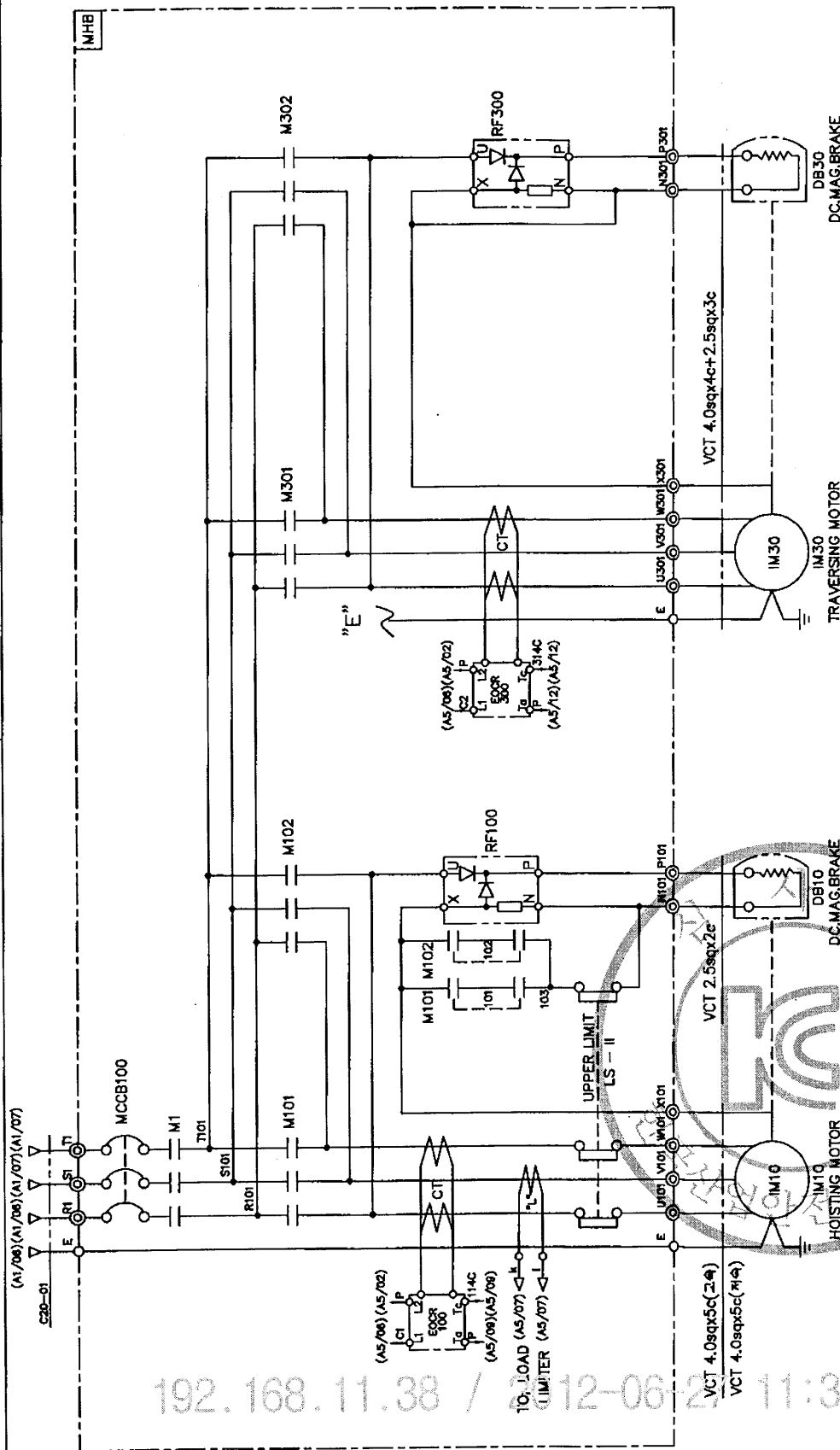
1. UPPER LIMIT LS-1, LS-2의 점원 하중 전류 용량 : AC 600V, 75A
2. POWER SOURCE : AC, 3Ø 440V 60HZ
3. EARTH TERMINAL RESISTANCE : 0.018Ω



- NOTE 1. 전선의 색상은 다음과 같다.
- 1) 흑 색 : 교류 및 직류 전원선으로
 - 2) 적 색 : 교류제어선
 - 3) 주황색 : 외부에서 공급되는 운동장치 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. 제어시 다소 변경 될수있음.
 5. 외함 개방구조는 다음과 같을것.
 - 1) 외함 개방시 충전부분이 차단되도록 할것.
 - 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	N.F.B	33AF /20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	440V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

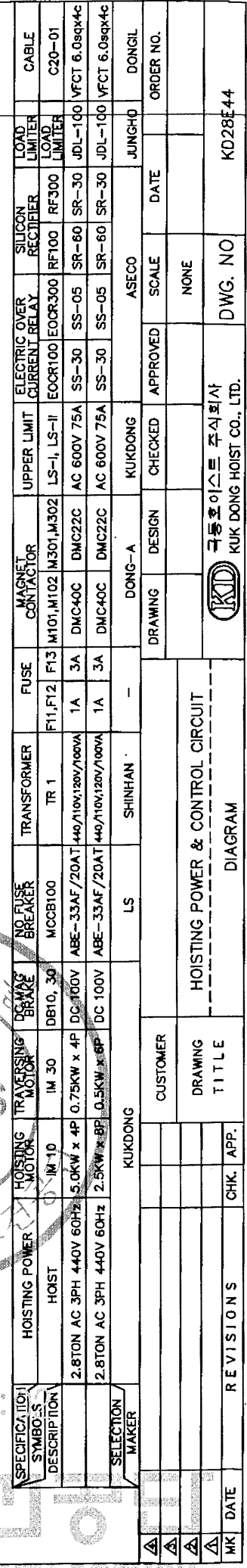
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.						DWG. NO
HOIST CONTROL BOX (지속)						KD28BA42
ARRANGEMENT DRAWING						
DATE	REVISIONS	CHK.	APP.			



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BREAK	NO. FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE		
DESCRIPTION	HOIST	IM-10	30	DB10, 30	MCBET00	TR 1	F11,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR300	RF300	C20-01		
	2.8TON AC 3PH 440V 60Hz	5.0KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/20AT	440/110V120W/100VA	1A	3A	DMC22C	DMC40C	AC 600V 75A	SS-30	SR-60	SR-30		
	2.8TON AC 3PH 440V 60Hz	2.5KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/20AT	440/110V120W/100VA	1A	3A	DMC22C	DMC40C	AC 600V 75A	SS-30	SR-60	SR-30		
SELECTION MAKER		KUKDONG			LS	SHINHAN	-		DONG-A		KUKDONG	ASECO		JUNGHD	DONGIL	
					CUSTOMER										ORDER NO.	
					DRAWING TITLE		HOISTING & T/S POWER CONTROL CIRCUIT									
					CHK.		APP.									
REVISIONS																
DATE																
										KUKDONG HOIST CO., LTD.		DWG. NO		KD28E-41		

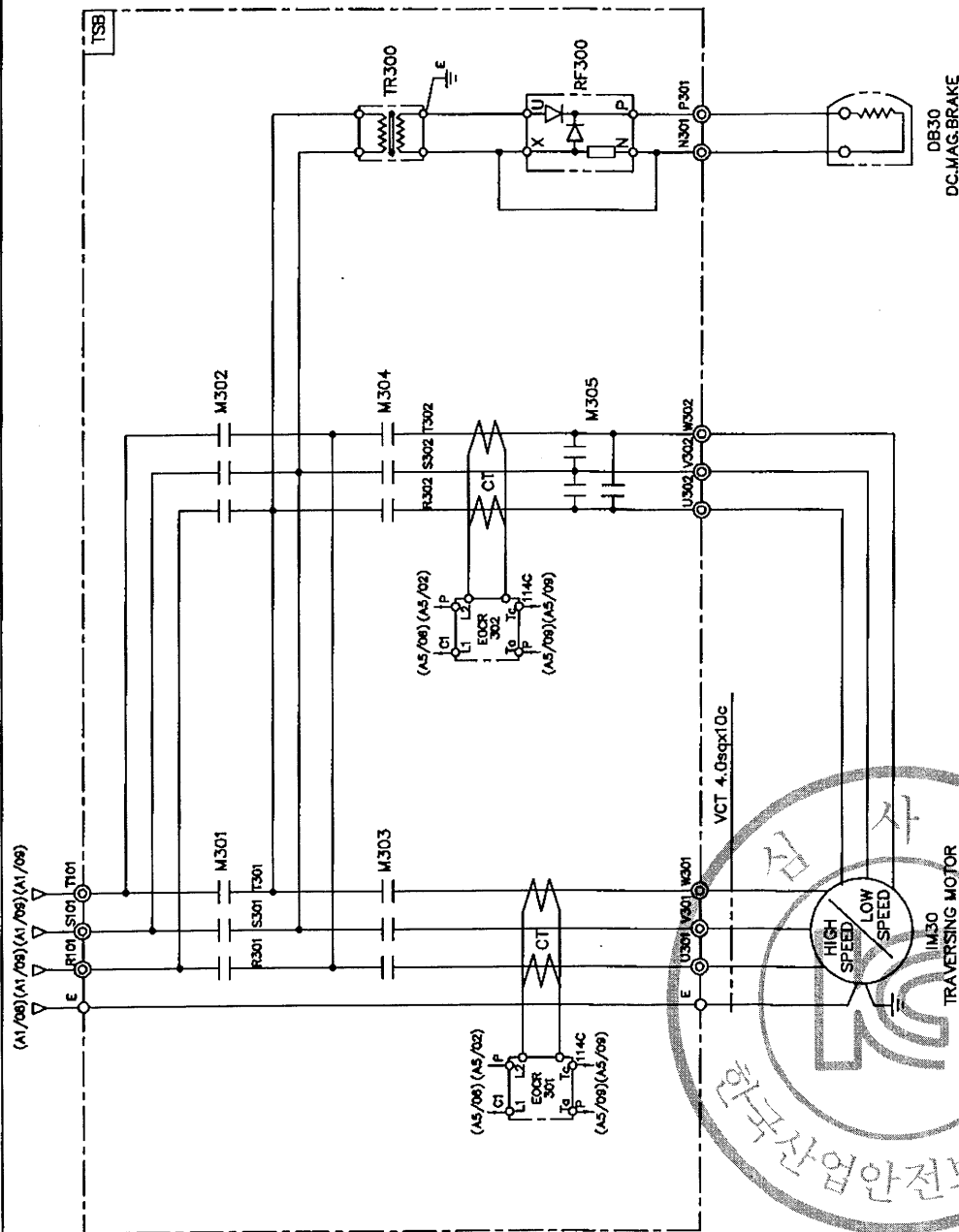
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POWER CIRCUIT										TRAVERSING MOTION										ADR'S NO.	
HOISTING MOTION										HOISTING MOTION										B1	
C220-01										M101										M102	
(A1/006)(A1/007)(A1/007)										M102										M101	
E										M101										M102	
R101										M102										M101	
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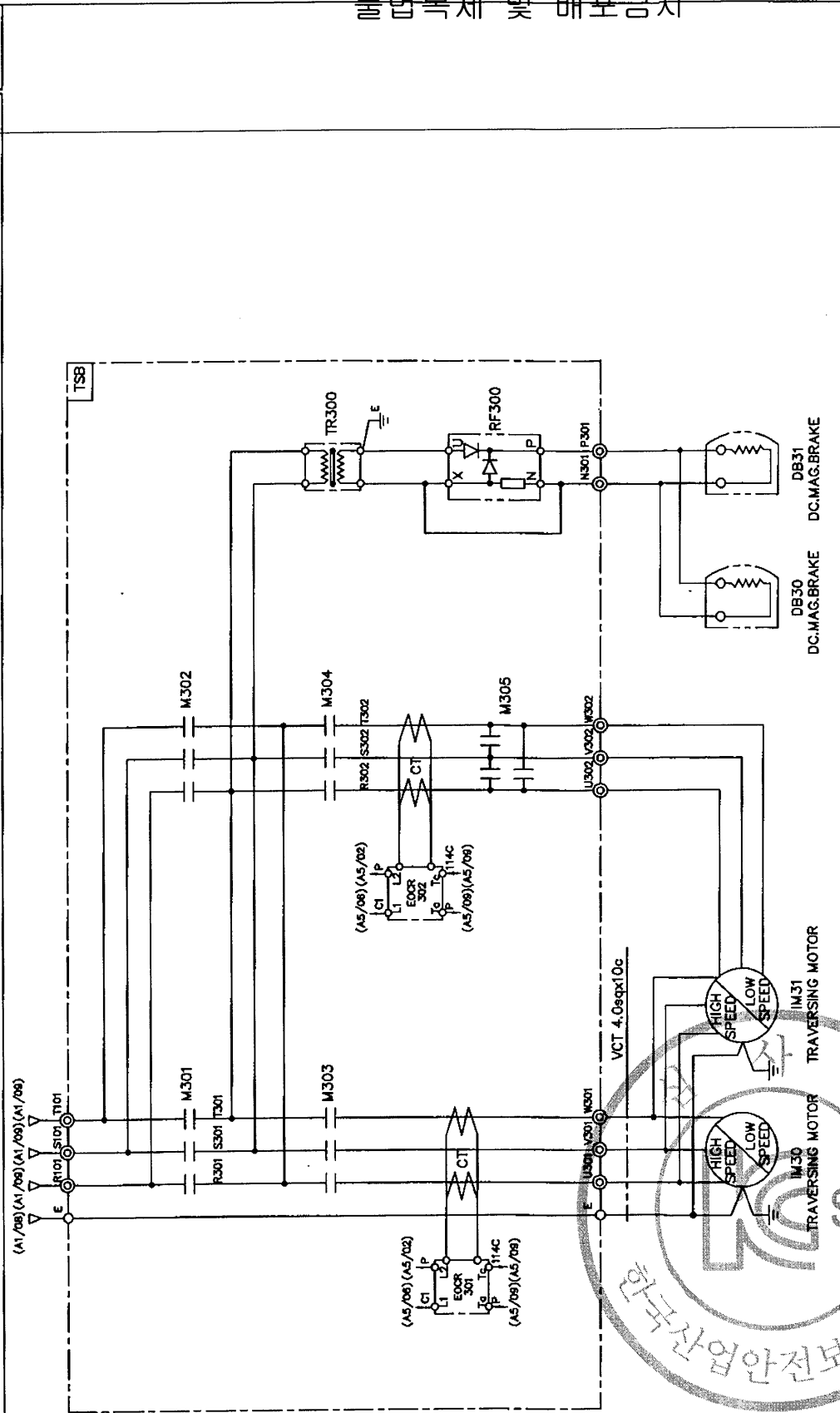


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TRAVERSING MOTION

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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																			ADR'S NO.
TRAVERSING MOTION																			C2



SPECIFICATION SYMBOLS		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
DESCRIPTION		IM 30, 1M31		DB30, DB31		M301, M302, M303		RF 300		EOCR 301,302		TR300	
440V		0.5/0.25KWx5/12P AC 3PH 440V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC440/220V, 300VA	
440V		0.8/0.4KWx4/8P AC 3PH 440V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC440/220V, 300VA	
SELECTION MAKER		KUKDONG		DONG-A		ASECO		SHINHAN					
CUSTOMER													
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT											
REVISIONS													
DATE													
CHK. APP.													
DWG. NO		KUKDONG 이스트 주식회사 KUK DONG HOIST CO., LTD.		DATE		SCALE		NONE				KD28E46	

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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/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

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

2) 회 색 : 교류제어선

3) 주황색 : 외부에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼합 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

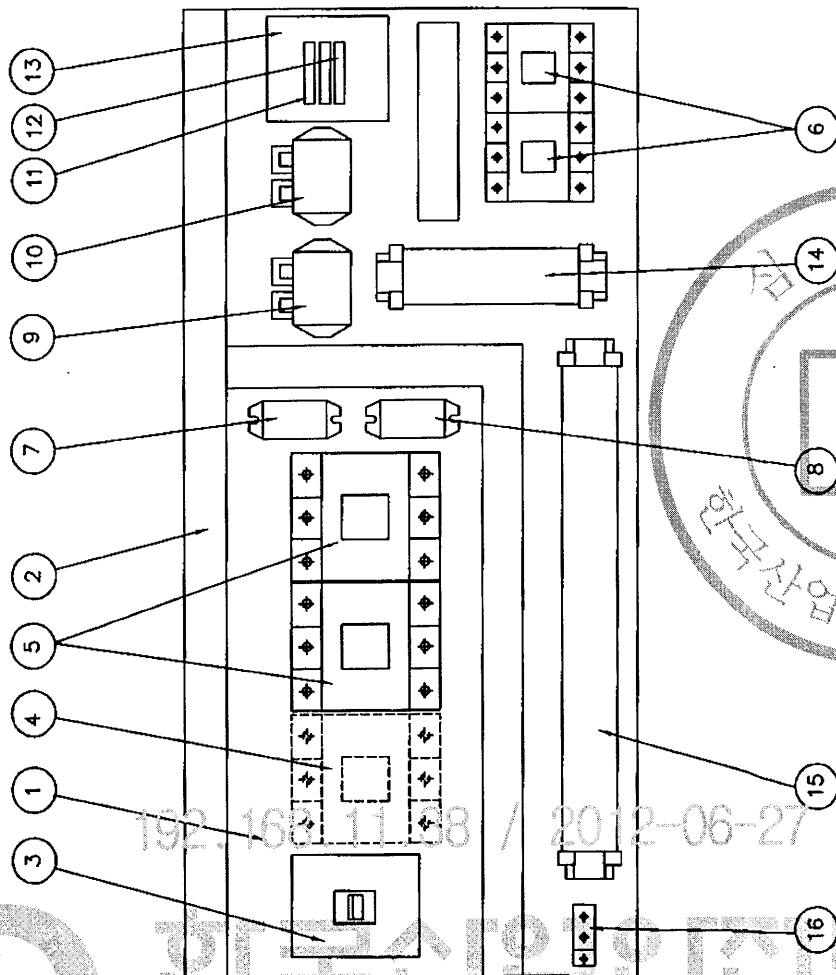
3. 제어용 전선 : 2.5mm KIV,HIV

4. 제어시 다스 변경 필수있음.

5. 외함 기밀구조는 다음과 같을것.

1) 외함 개방시 충전부분이 차단되도록 할것.

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



NOTE

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

2. POWER SOURCE : AC: 3Ø 460V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						KD28BA51
KUK DONG HOIST CO., LTD.						
ARRANGEMENT DRAWING						
HOIST CONTROL BOX (34)						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
CHK. APP.						
DATE						

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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/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	460V/110V, 120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A, 15A		
16	EARTH TERMINAL	3t x 20 x 50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 교류 및 직류 전원선 5) 청 색 : 직류 제어회로

2) 회 색 : 교류 제어선

3) 주황색 : 외부에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

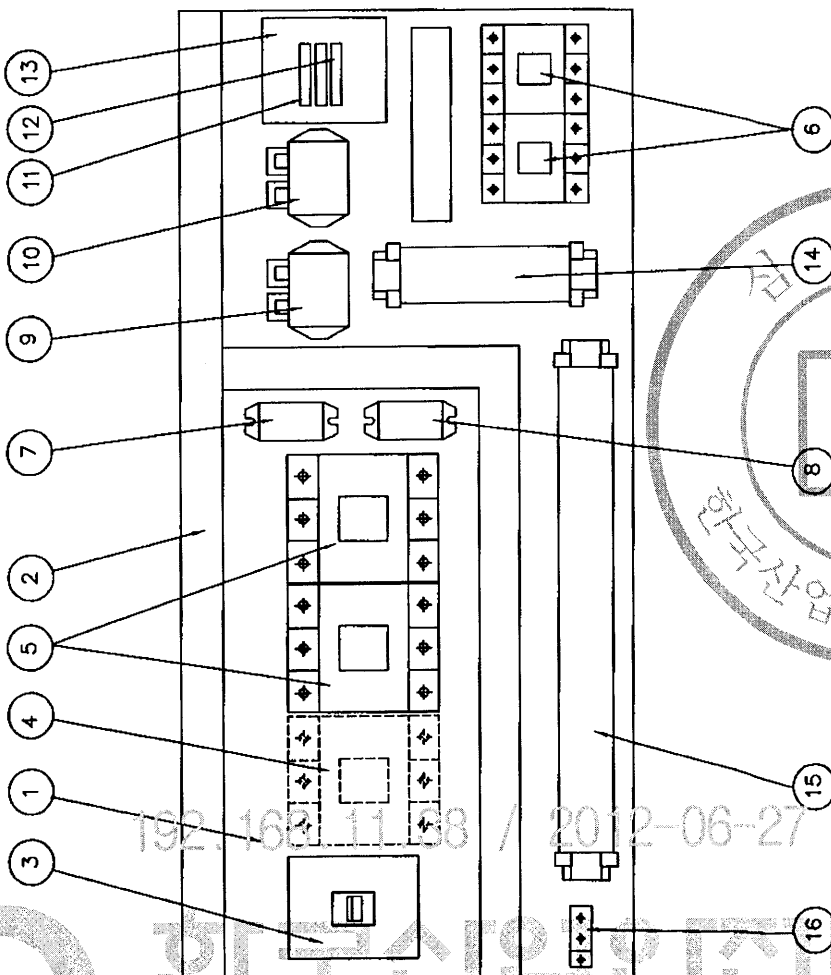
3. 제어용 전선 : 2.5mm KIV, H/V

4. 제라서 다소 변경 될수있음.

5. 외함 기방구조는 다음과 같을것.

1) 외함 기방시 충전부분이 차단되도록 할것.

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



NOTE

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

2. POWER SOURCE : AC 3φ 460V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω

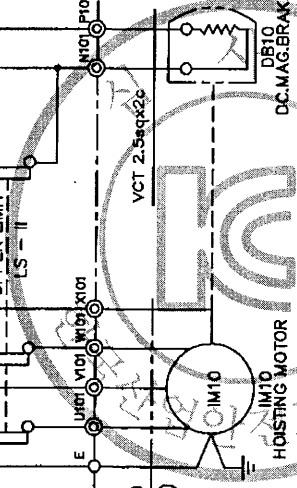


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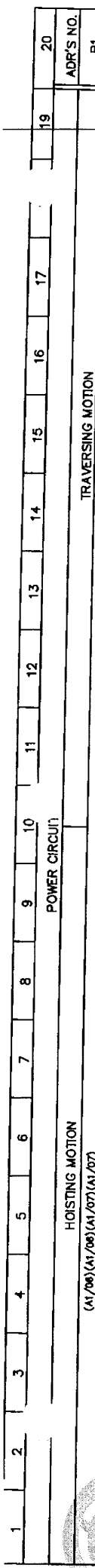
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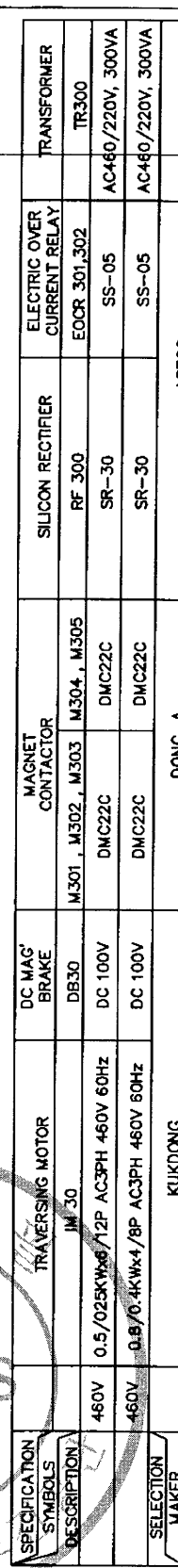
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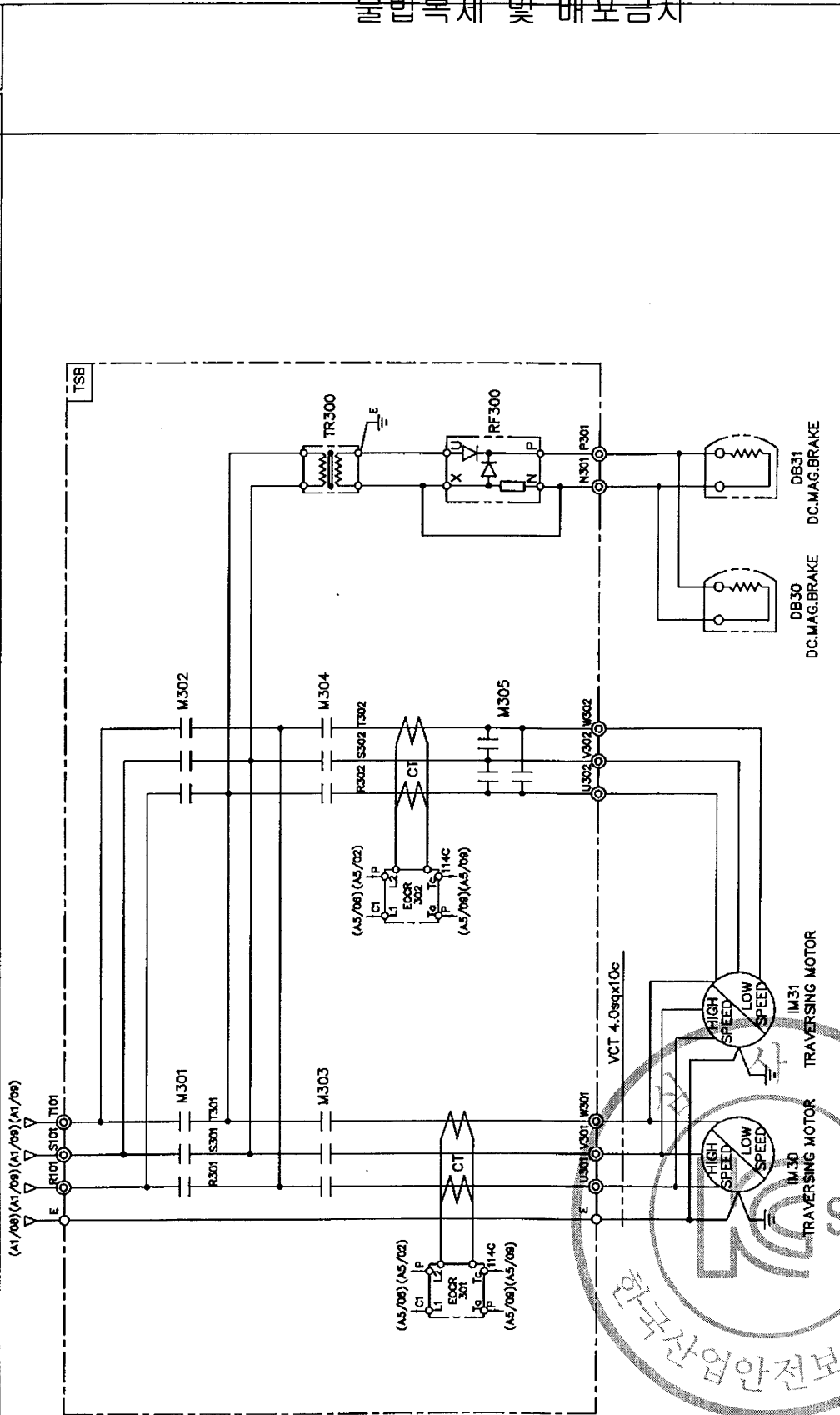
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HOISTING MOTION										TRAVERSING MOTION									
(A1/06)(A1/06)(A1/07)(A1/07)										ADR'S NO.									
										P4									

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	20
POWER CIRCUIT																		
TRAVERSING MOTION																		
C2																		



SPECIFICATION		SYMBOLS		DESCRIPTION		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30, 1W31		450V 0.5/0.25KW/5/12P AC3PH 460V 60Hz		M301, M302, M303		RF 300		EOCR 301,302		TR300	
DC MAG' BRAKE		DB30, DB31		DC 100V		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
TRAVERSING MOTOR		IM 30, 1W31		450V 0.8/0.4KW/4/8P AC3PH 460V 60Hz		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
SELECTION MAKER		KUKDONG											
CUSTOMER		KUKDONG											
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT											
REVISIONS													
DATE													
CHK APP.													
DWG. NO		KD28E56											

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한국산업안전보건공단

192.168.11.38 / 2012-06-27 11:35:02

ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 전 도 글
2	CABLE DUCT	-	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑 색 : 교류 및 직류 전원선 5) 청 색 : 직류 제어회로

2) 적 색 : 교류제어선

3) 주황색 : 외부에서 공급되는 연동장치 제어회로

4) 녹색 또는 누색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

MIN SIZE : 2.5sq

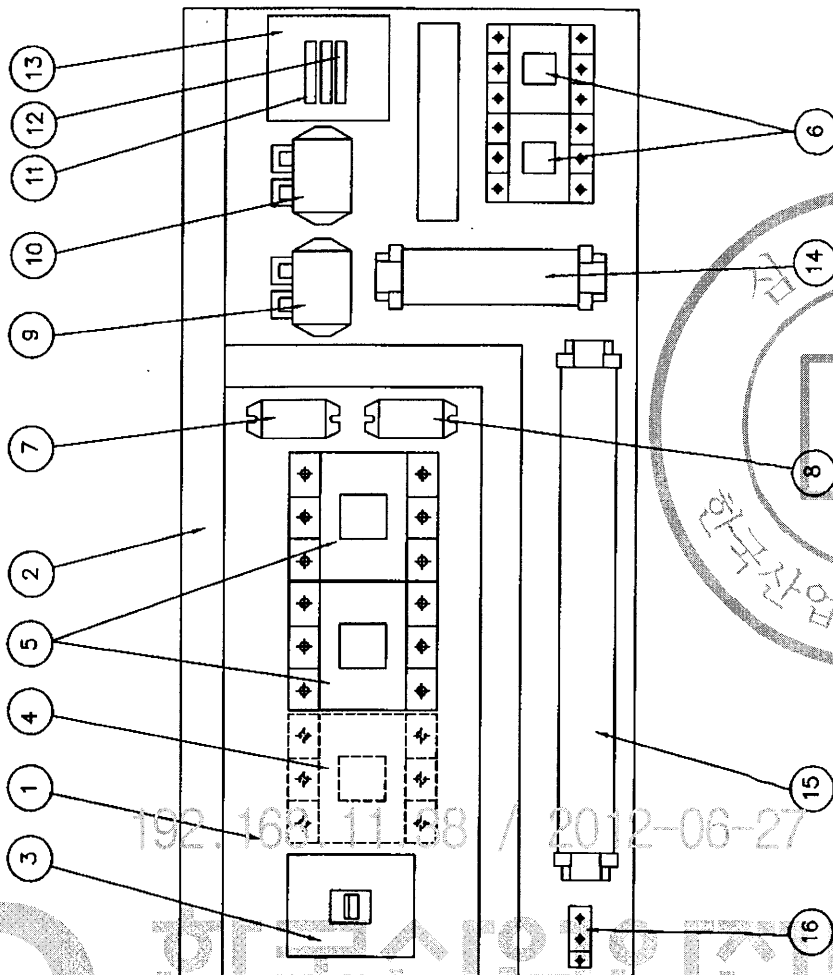
3. 제어용 전선 : 2.5mm KIV,HIV

4. 제작시 디스플레이되는 다음과 같을것.

5. 외함 기밀구조는 다음과 같을것.

1) 외함 기밀시 충전부분이 차단되도록 함.

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



NOTE

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

2. POWER SOURCE : AC 3φ 480V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
HOIST CONTROL BOX (고속)						
ARRANGEMENT DRAWING						
KUK DONG HOIST CO., LTD.						
KUK DONG HOIST CO., LTD.						
DWG. NO						
KD28BA61						

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

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	이전 도금
2	CABLE DUCT	-	1	
3	N.F.B	33AF/20AT	1	HOISTING
4	MAGNET CONTACTOR	DMC22C	1	MAIN MAG.
5	MAGNET CONTACTOR	DMC40C	2	HOISTING
6	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-30	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	FUSE	1 A	2	
12	FUSE	3 A	1	
13	TRANSFORMER	480V/110V,120V, 100VA	1	
14	UPPER LIMIT	AC 600V/75A	1	
15	TERMINAL BLOCK	60A,15A		
16	EARTH TERMINAL	3tx20x50	1	

NOTE 1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선
2) 적색 : 교류제어선
3) 주황색 : 외부에서 공급되는 전동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

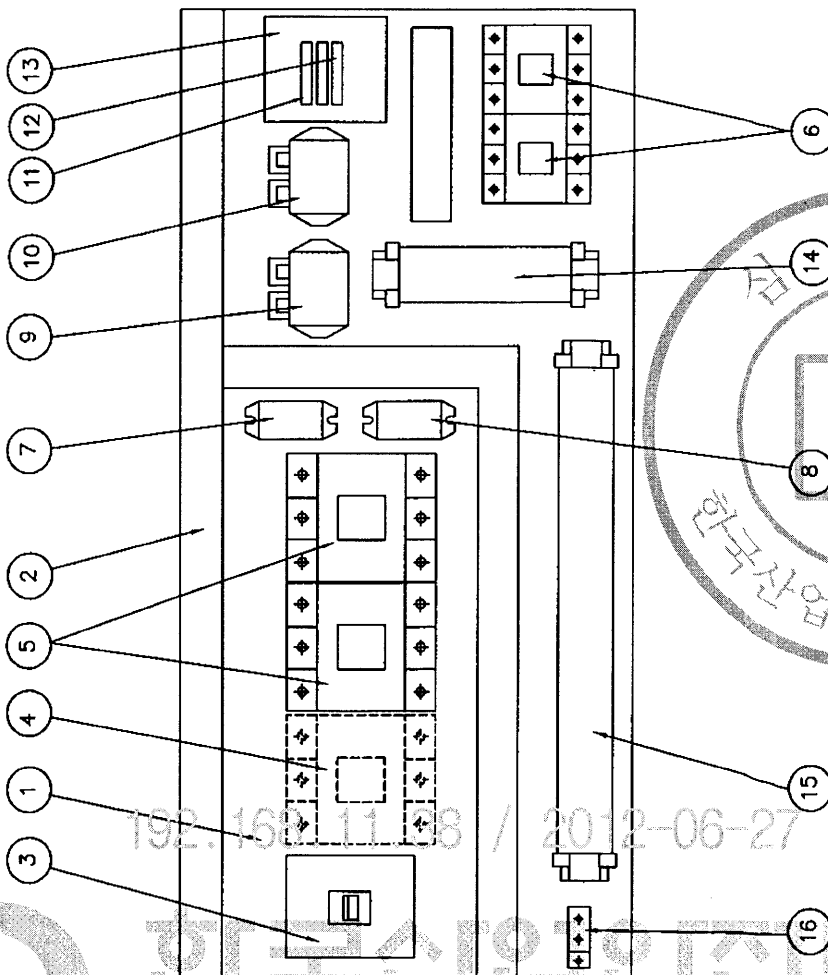
3. 제어용 전선 : 2.5mm KIV,HIV

4. 제라시 다소 변경 될수있음.

5. 외함 개방구조는 다음과 같을것.

1) 외함 개방시 용전부분이 차단되도록 할것.

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



NOTE

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

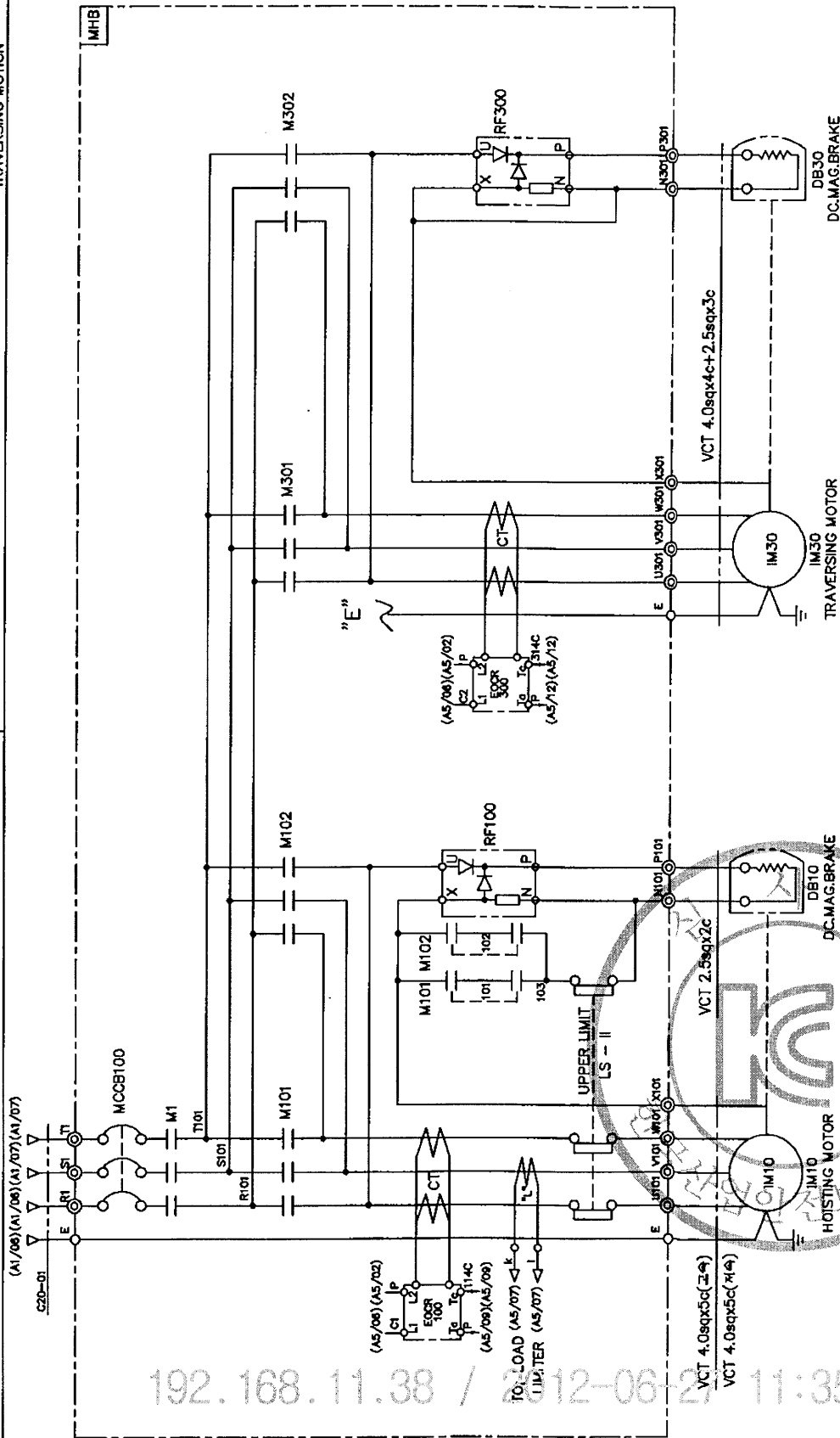
2. POWER SOURCE : AC 3φ 480V 60HZ

3. EARTH TERMINAL RESISTANCE : 0.018Ω



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						KD28BA62
KUK DONG HOIST CO., LTD.						
DWG. NO						
KUK DONG HOIST CO., LTD.						
HOIST CONTROL BOX (제어)						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
CHK.						
APP.						
DATE						
MK						

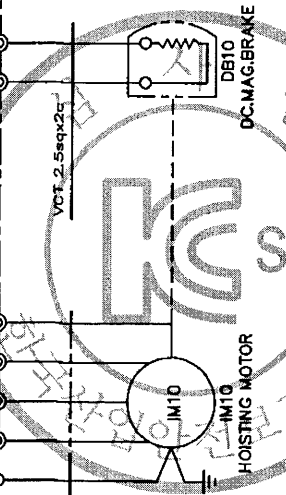
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POWER CIRCUIT										TRAVERSING MOTION								
HOISTING MOTION										TRAVERSING MOTION								
C20-01										B1								
(A1/00)(A1/07)(A1/07)										B1								

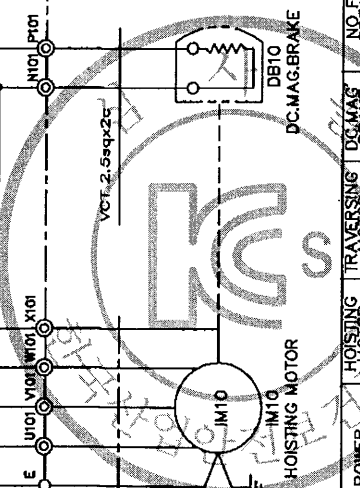


SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	2.8TON AC 3PH 480V 60Hz 5.0KW x 4P 0.75KW x 4P	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F1, F2 1A 3A	M1 DMC22C	DMC40C	LS-I, LS-II AC 600V 75A	EOCR100 EOCR300 RF100	RF300	LDL-100	C20-01
SELECTION	2.8TON AC 3PH 480V 60Hz 2.5KW x 8P	IM 10	IM 30	DB10, 30	MCCB100	TR 1	F1, F2 1A 3A	M1 DMC22C	DMC40C	LS-I, LS-II AC 600V 75A	EOCR100 EOCR300 RF100	RF300	LDL-100	C20-01
MAKER		KUKDONG	KUKDONG	LS	SHINHAN									
CUSTOMER														
DRAWING TITLE														
REVISIONS														
DATE														
CHK. APP.														
DWG. NO.														
ORDER NO.														
DONGIL														
KD28E61														

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

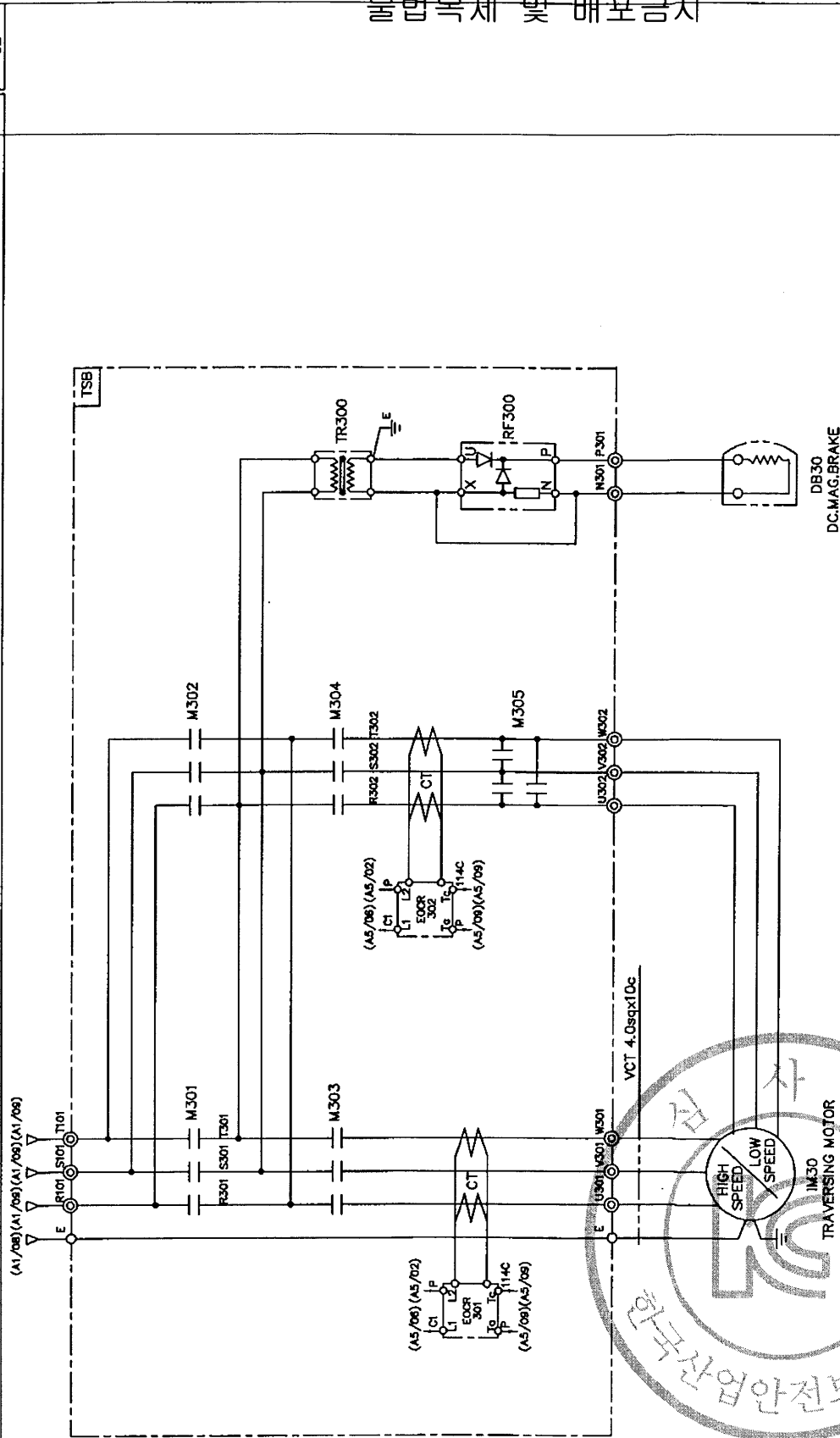
한국산업안전보건공단
 KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY
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SPECIFICATION SYMBOLS	HOISTING MOTOR	HOISTING POWER	HOISTING MOTOR	TRAVERSING BREAKER	DC MAG. BREAK	NO FUSE	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE												
															DESCRIPTION	HOIST	IM 30	DB10, 30	MCCB100	TR 1	F1,F12	F13	M101,M102	M301,M302	LS-I, LS-II	EOCR100
	2.8TON AC 3PH 480V 60Hz	HOIST	5.0KW x 4P	0.75KW x 4P	DC 100V	ABE-33AF/20AT	480/110V/120V/100VA	1A	3A	DMC40C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JD1-100	JD1-100	VFCT 6.0sqx4c	VFCT 6.0sqx4c						
	2.8TON AC 3PH 480V 60Hz		2.5KW x 8P	0.5KW x 6P	DC 100V	ABE-33AF/20AT	480/110V/120V/100VA	1A	3A	DMC40C	DMC22C	AC 600V 75A	SS-30	SS-05	SR-60	SR-30	JD1-100	JD1-100	VFCT 6.0sqx4c	VFCT 6.0sqx4c						
SELECTION MAKER																										
	KUKDONG										LS		SHINHAN		-		DONG-A		KUKDONG		ASECO		JUNGHD		DONGIL	
	CUSTOMER																									
	DRAWING TITLE										HOISTING POWER & CONTROL CIRCUIT															
	REVISIONS										DIAGRAM															
	CHK. APP.										DWG. NO															
DATE	MK										KUK DONG HOIST CO., LTD.															
	KDD										KDD															
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
C2																			

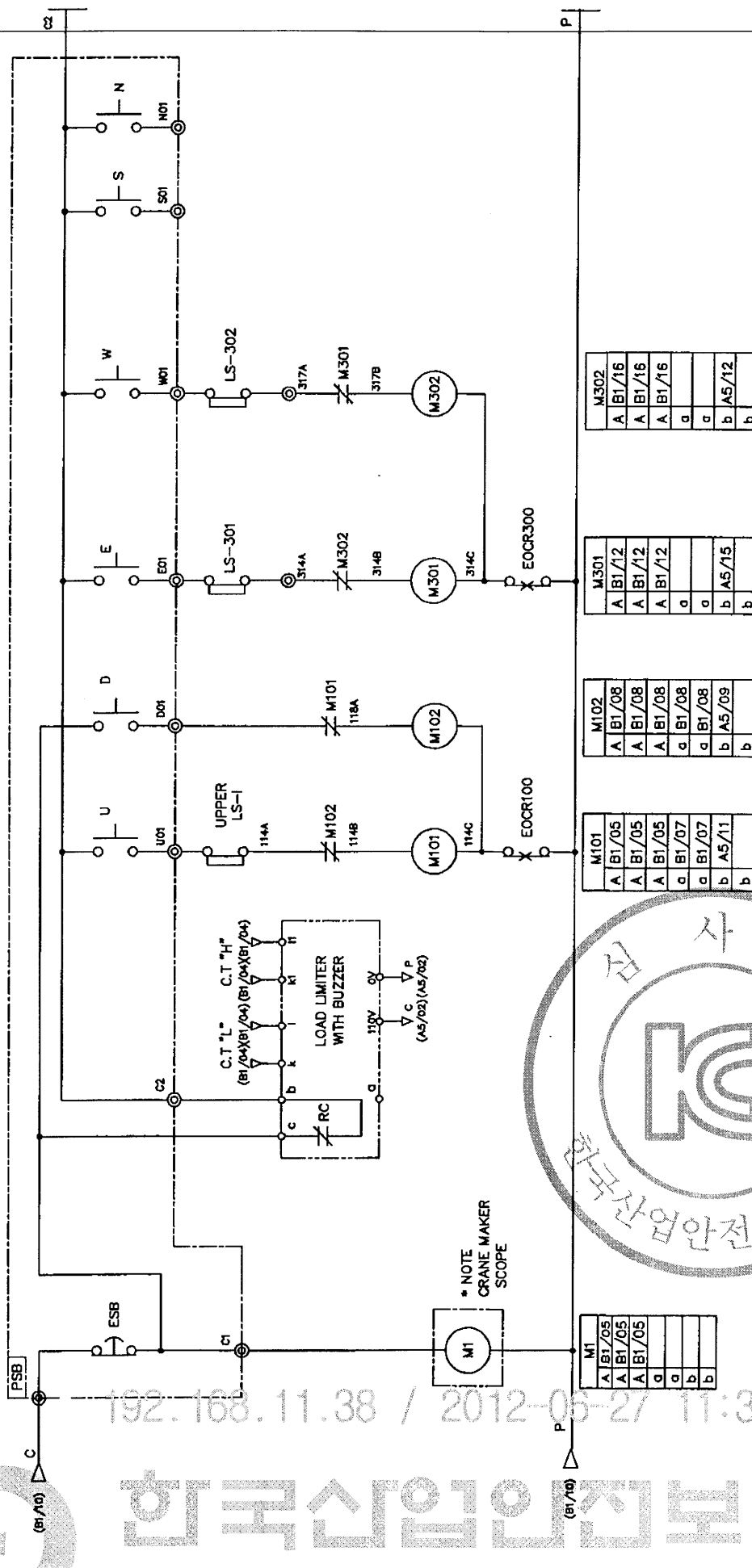


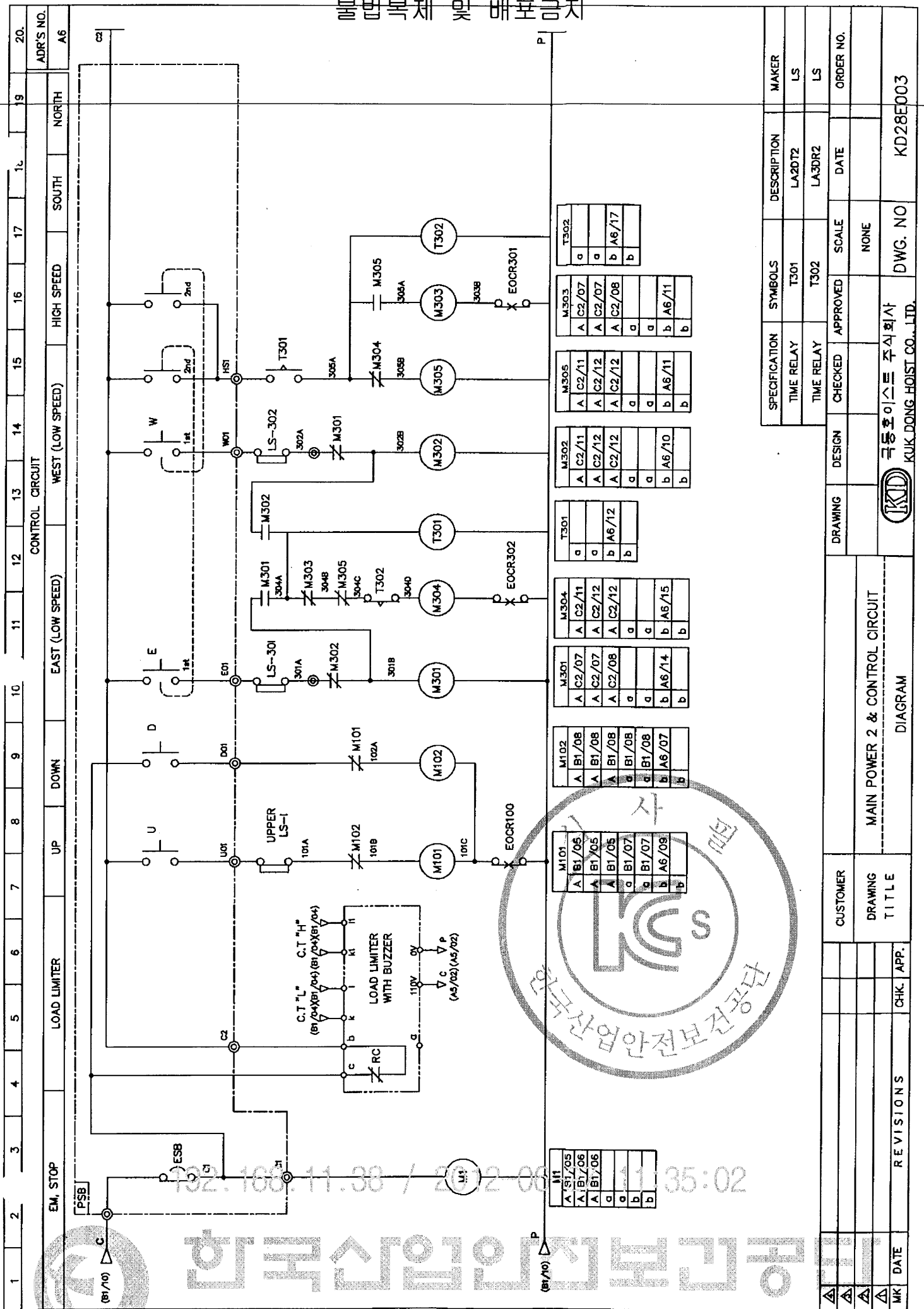
SPECIFICATION SYMBOLS		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
DESCRIPTION		IM 30		DB30		M301, M302, M303		M304, M305		EOCR 301,302		TR300	
480V		0.5/025KWx6/12P AC3PH 480V 60Hz		DC 100V		DMC22C		DMC22C		SR-30		AC480/220V, 300VA	
480V		0.8/0.4KWx4/8P AC3PH 480V 60Hz		DC 100V		DMC22C		DMC22C		SR-30		AC480/220V, 300VA	
SELECTION MAKER		KUKDONG				DONG-A		ASECO				SHINHAN	
CUSTOMER						DRAWING		DESIGN		CHECKED		APPROVED	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT								SCALE		DATE	
										NONE			
REVISIONS		CHK. APP.		DIAGRAM						DWG. NO		KD28E65	
DATE						KID		구동호이스트 주식회사 KUK DONG HOIST CO., LTD.					

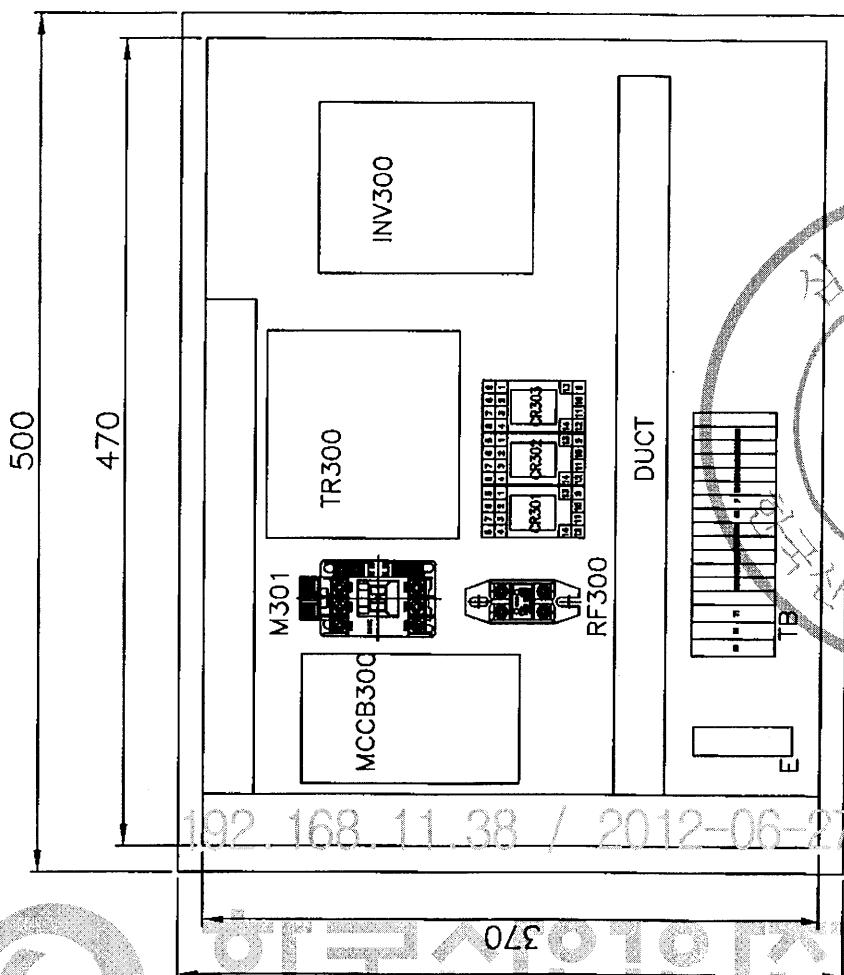
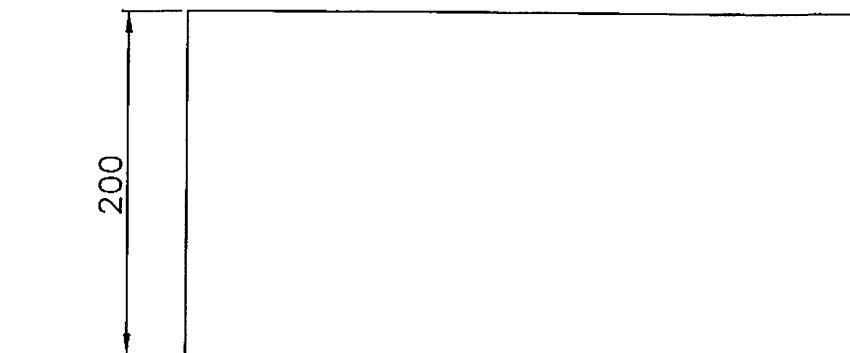


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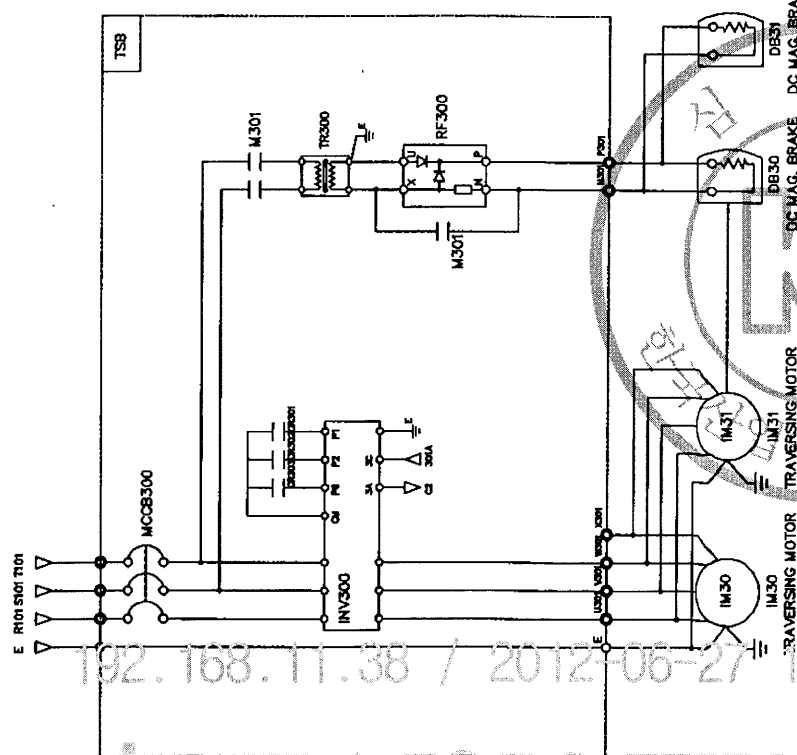
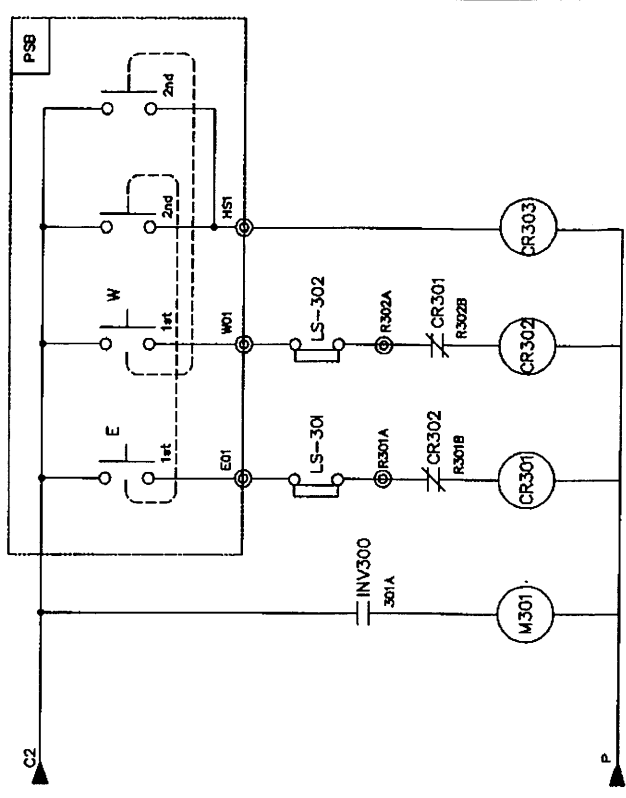




2	속판	SS400	1								
1	T/S BOX	PUR	1								
NO.	DESCRIPTION	M'T'L	SUB QTY	TOTAL	SUB WEIGHT(Kg)	TOTAL	REMARKS.				
PROJECT					DATE	DIM					
TITLE					SCALE	PROJECTION					
DRAWN		T/S CONTROL PANEL(INVERTER)			A3/3	3rd					
		DESIGNED	CHECKED	APPROVED	REF. DRAWING						
 Kukdong Hoist Co., Ltd.		SHEET No.			DWG No.		KD28EI001				

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

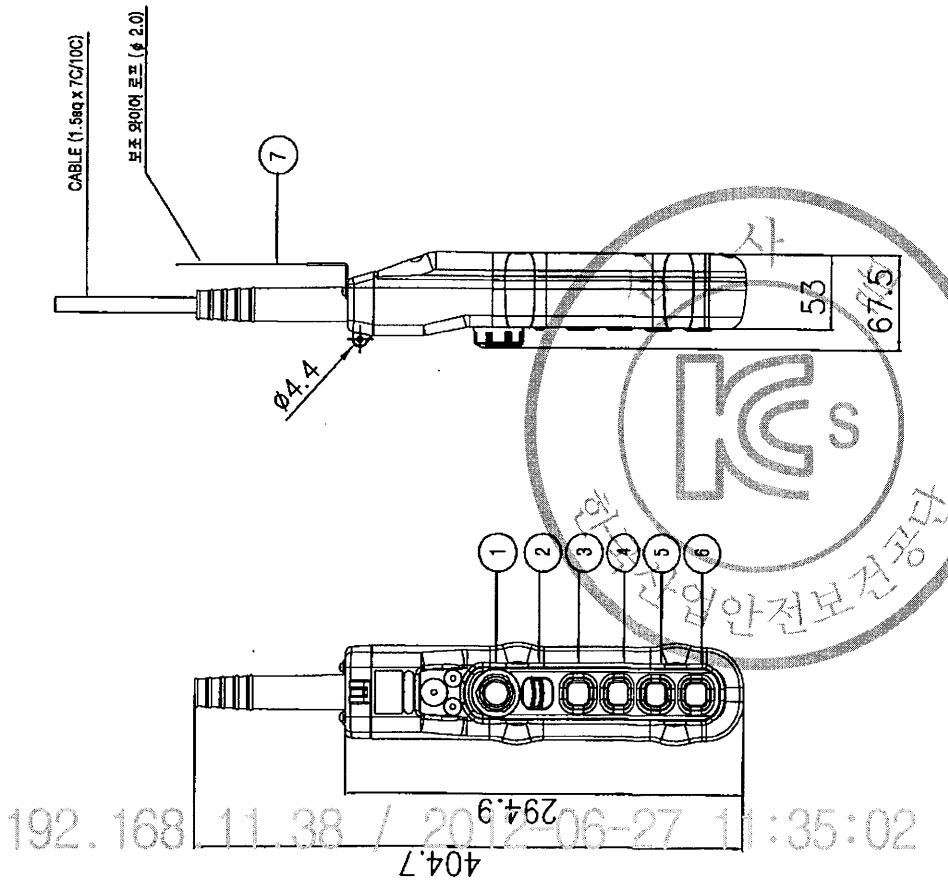
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																																														
POWER CIRCUIT DIAGRAM										CONTROL CIRCUIT DIAGRAM										ADR'S NO.																																													
TRAVERSING MOTION										BRAKE EAST WEST HIGH SPEED																																																							
																																																																	
<table><tr><th>SYMBOL</th><th>DESCRIPTION</th></tr><tr><td>IM30</td><td>TRAVERSING MOTOR</td></tr><tr><td>IM31</td><td>TRAVERSING MOTOR</td></tr><tr><td>IM32</td><td>TRAVERSING MOTOR</td></tr></table>										SYMBOL	DESCRIPTION	IM30	TRAVERSING MOTOR	IM31	TRAVERSING MOTOR	IM32	TRAVERSING MOTOR	<table><tr><th>NO FUSE BREAKER</th><th>TRANSFORMER</th><th>BRAKE MAGNET</th><th>CONTROL RELAY</th><th>INVERTER</th><th>SILICON RECTIFIER</th></tr><tr><td>MCCB300</td><td>TR 300</td><td>M301</td><td>CR301, 302, 303</td><td>INV300</td><td>RF300</td></tr><tr><td>DBE-33AF/15AT</td><td>220/220V, 300VA</td><td>DM-22C</td><td>MINI 4a4b (Coil AC110V)</td><td>SV037IG5A-2</td><td>SR-30</td></tr><tr><td>DBE-33AF/10AT</td><td>380(440, 460, 480)/220V, 300VA</td><td>DM-22C</td><td>MINI 4a4b (Coil AC110V)</td><td>SV037IG5A-4</td><td>SR-30</td></tr><tr><td>DBE-33AF/15AT</td><td>220/220V, 300VA</td><td>DM-22C</td><td>MINI 4a4b (Coil AC110V)</td><td>SV022IG5A-2</td><td>SR-30</td></tr><tr><td>DBE-33AF/10AT</td><td>380(440, 460, 480)/220V, 300VA</td><td>DM-22C</td><td>MINI 4a4b (Coil AC110V)</td><td>SV022IG5A-4</td><td>SR-30</td></tr></table>										NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER	MCCB300	TR 300	M301	CR301, 302, 303	INV300	RF300	DBE-33AF/15AT	220/220V, 300VA	DM-22C	MINI 4a4b (Coil AC110V)	SV037IG5A-2	SR-30	DBE-33AF/10AT	380(440, 460, 480)/220V, 300VA	DM-22C	MINI 4a4b (Coil AC110V)	SV037IG5A-4	SR-30	DBE-33AF/15AT	220/220V, 300VA	DM-22C	MINI 4a4b (Coil AC110V)	SV022IG5A-2	SR-30	DBE-33AF/10AT	380(440, 460, 480)/220V, 300VA	DM-22C	MINI 4a4b (Coil AC110V)	SV022IG5A-4	SR-30		
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<table><tr><th>SELECTION</th><th>MAKER</th></tr><tr><td>AC 3PH 380(440, 460, 480)V 60Hz</td><td>ASAN</td></tr></table>										SELECTION	MAKER	AC 3PH 380(440, 460, 480)V 60Hz	ASAN	<table><tr><th>DRAWING</th><th>DESIGN</th><th>CHECKED</th><th>APPROVED</th><th>SCALE</th><th>DATE</th><th>ORDER NO.</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.																																			
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<table><tr><th>REVISIONS</th><th>CHK.</th><th>APP.</th></tr><tr><td></td><td></td><td></td></tr></table>										REVISIONS	CHK.	APP.				<table><tr><th>DWG. NO</th><th>DWG. NO</th></tr><tr><td>KD28E1005</td><td></td></tr></table>										DWG. NO	DWG. NO	KD28E1005																																					
REVISIONS	CHK.	APP.																																																															
DWG. NO	DWG. NO																																																																
KD28E1005																																																																	

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

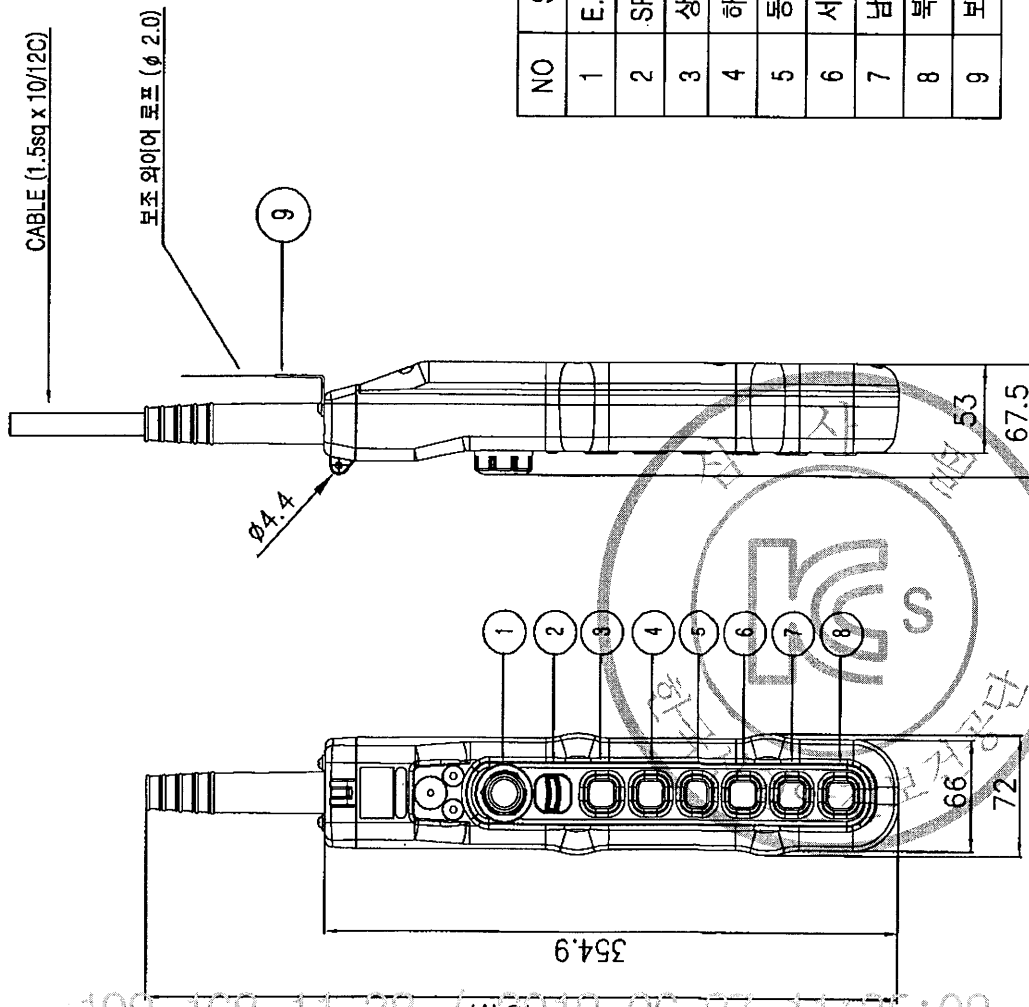
- * MATERIAL : POLYCARBONATE(PLASTIC)
- * BODY COLOR : YELLOW, BLACK
- * IP : 55 이상

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



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

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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 : POLYCARBOBATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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

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

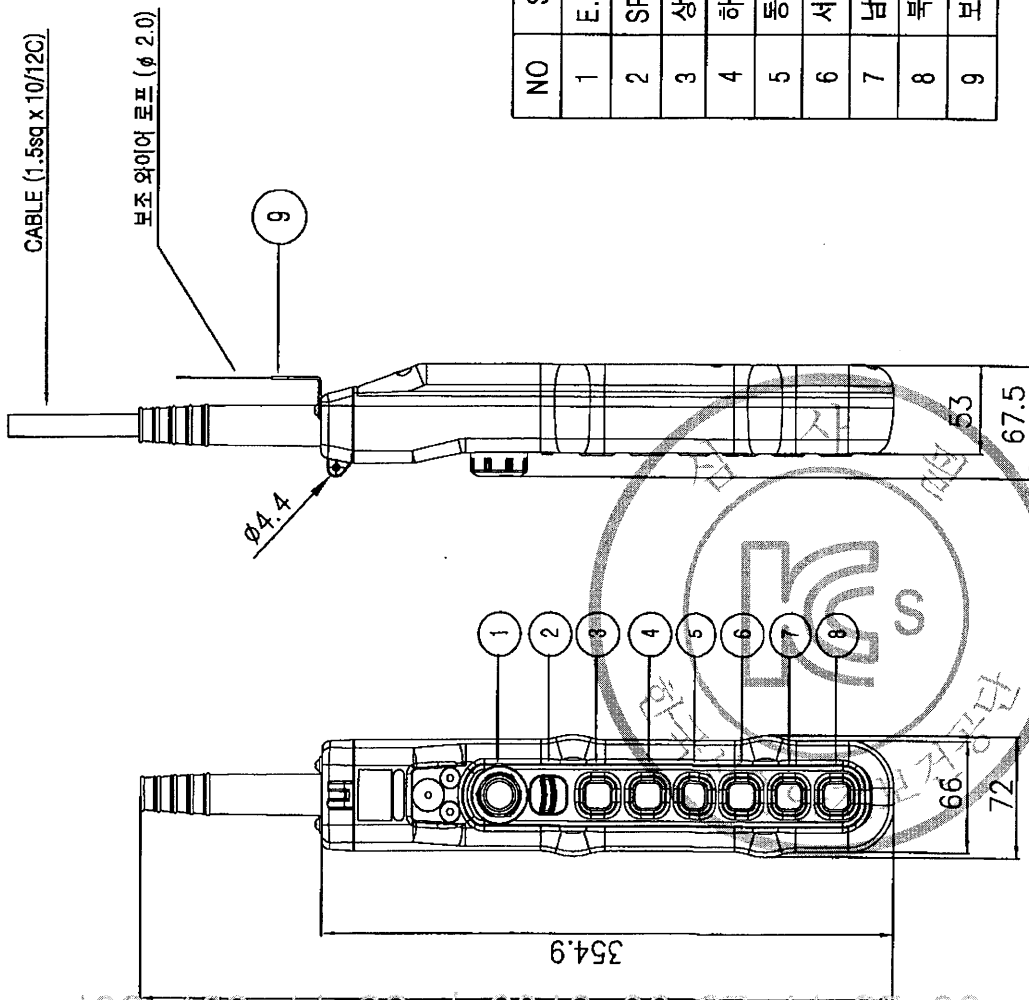
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☒							DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
☒												
☒							PENDANT PUSH BUTTON SWITCH					
							LAY OUT					
							CUSTOMER					
							DRAWING TITLE					
MK	REVISIONS	CHK.	APP.									
				KUK DONG HOIST CO., LTD.								
				DWG.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



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

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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

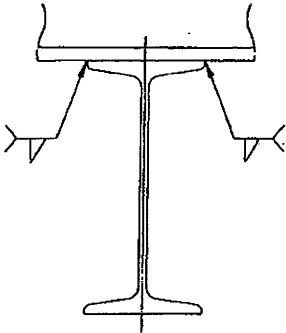
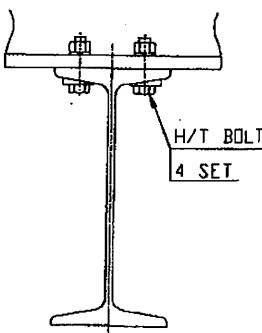
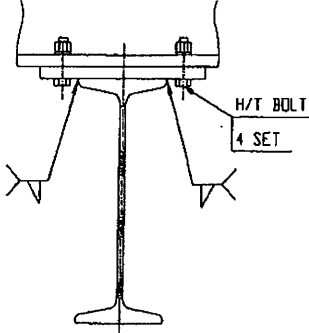
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
PENDANT PUSH BUTTON SWITCH					
LAYOUT					
CUSTOMER					
DRAWING TITLE					
CHK.	APP.				
REVISIONS					
DATE					
KUK DONG HOIST CO., LTD. DWG. NO.					

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192.168.11.38 / 2012-06-27 11:35:02

I-4. I-BEAM의 고정방법 및 사양

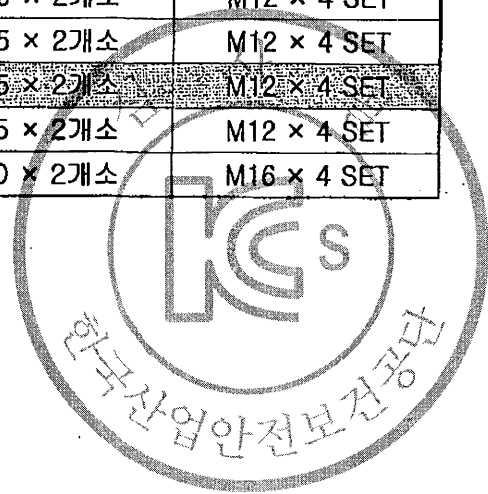
1. I-BEAM의 고정방법

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

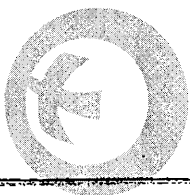
2. 기본조건 및 사양

- * 동하중에 의한 용접이음의 허용응력 (핀릿용접 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



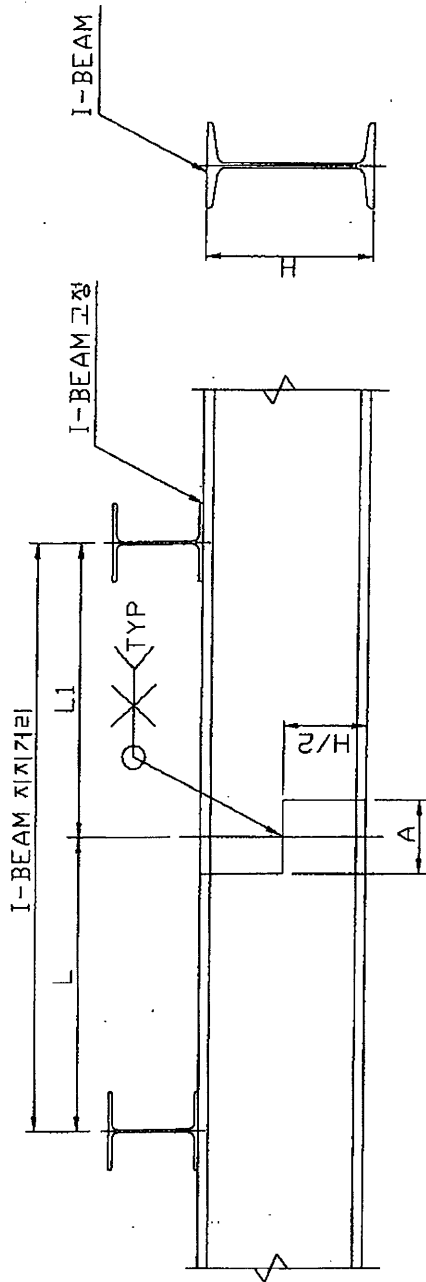
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KOSHA
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3. I-BEAM의 연결방법



구조 (단위 : mm)

* I-BEAM의 용접 연결부위는 I-BEAM 고정 지점과 동일 선상에 위치하지 않도록 한다.

* 고정 지점 사이 중앙에 용접 연결부위가 일치하지 않도록 한다.



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

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* 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 (kg/cm ²)	HOIST 자중 (KG)	용접강도 (kg/cm ²)	HOIST 자중 (KG)	용접강도 (kg/cm ²)	HOIST 자중 (KG)	용접강도 (kg/cm ²)	HOIST 자중 (KG)	용접강도 (kg/cm ²)
200×100×17/10	26.0	0.6	10×2	320	225.2								
250×125×17.5/12.5	38.3	0.6	12.5×2	320	181.5	520	342.7	620	463.7	620	490.5		
300×150×19/13.5	65.6	0.6	15.0×2	320	153.7	520	288.1	620	388.8	620	411.2	642	478.2
350×150×19/15	58.5	0.6	15.0×2	320	153.0	520	287.4	620	388.2	620	410.6	642	477.8
400×150×19/18	72.0	0.8	15.0×2	320	115.7	520	288.6	620	389.4	620	411.8	642	478.7
450×175×21/20	91.7	0.8	17.5×2			520	290.4	620	391.2	620	354.5	642	480.0

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

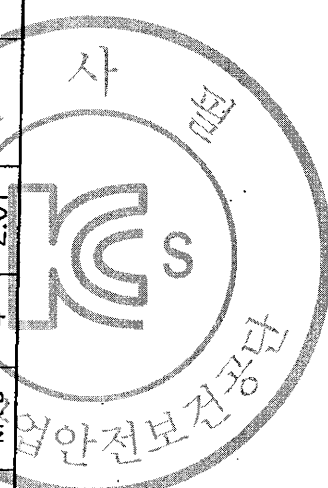


* I-BEAM 고정 방법 중 BOLT 고정 강도

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



I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규격	BOLT 수	BOLT 단면적 (cm ²)	1 T		2 T		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)
200×100×17/10	26.0	M12	4	1.13	320	422.7						
250×125×17.5/12.5	38.3	M12	4	1.13	320	425.8	520	804.1	620	1087.9		
300×150×19/13.5	65.6	M12	4	1.13	320	432.7	520	811.0	620	1094.8		
350×150×19/15	58.5	M12	4	1.13	320	430.9	520	809.2	620	1093.0		
400×150×19/18	72.0	M16	4	2.01	320	244.2	520	456.9	620	616.4		
450×175×19/20	91.7	M16	4	2.01			520	459.6	620	619.2		
											642	1013.0



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I-5. I-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 38.3 \times 370^2}{8} = 6882 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 620) \times 370}{4} = 396703 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 620 \text{ KG} \quad \text{용량} : 2800 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 6882 + 318416 = 403585 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{32.93 \times 370}{2} = 6092.9 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 1.16 = 32.93 \text{ (kg)} \end{aligned}$$

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

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 0.79 + 0.37 = 1.16 \text{ (m}^2\text{)} \end{aligned}$$

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

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)
250×125×t7.5/12.5	38.3	370	6882	396703	403585	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	621859	650823	59.91	17373.1	2.11
350×150×t9/15	58.5	600	30474	675467	705942	70.13	21038.5	2.47
400×150×t10/18	72.0	770	60480	857736	918216	90.00	34651.0	3.17
450×175×t11/20	91.7	990	143740	1072170	1215910	126.91	50764.9	4.47

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

5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{403585}{415} = 972.5 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{6092.9}{56.2} = 108.4 \quad (\text{kg/cm}^2) \end{aligned}$$

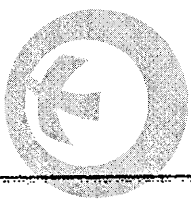
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣM_v (kg-cm)	Mw (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
⇒ 250×125×t7.5/12.5	415	56.2	403585	6092.9	972.5	108.4	1080.9
300×150×t10/18.5	849	118	650823	17373.1	766.6	147.2	913.8
350×150×t9/15	871	95.4	705942	21038.5	810.5	220.5	1031.0
400×150×t10/18	1220	118	918216	34651.0	752.6	293.7	1046.3
450×175×t11/20	1740	177	1215910	50764.9	698.8	286.8	985.6

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 38.3 \times 370^3}{384 \times 2100000 \times 5180} = 0.02322 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(2800 + 620) \times 370^3}{48 \times 2100000 \times 5180} = 0.332 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

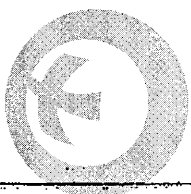
$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.332}{370} = \frac{1}{1115} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.02322 + 0.308}{370} = \frac{1}{1042} < \frac{1}{800} \end{aligned}$$

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
250×125×t7.5/12.5	5180	38.3	0.023	0.332	1 / 1115	1 / 1042
300×150×t10/18.5	12700	65.6	0.06249	0.521	1 / 1113	1 / 994
350×150×t9/15	15200	58.5	0.05154	0.482	1 / 1244	1 / 1124
400×150×t10/18	24100	72	0.08457	0.643	1 / 1198	1 / 1059
450×175×t11/20	39200	91.7	0.14074	0.840	1 / 1179	1 / 1010

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



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I-6. I-BEAM의 최대 지지거리

6-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 65.6 \times 580^2}{8} = 28964 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 620) \times 580}{4} = 621859 \quad \text{kg-cm}$$

$$* \text{ 호이스트 자중 } = 620 \text{ KG} \quad \text{용 량 : } 2800 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 28964 + 577128 = 650823 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{59.91 \times 580}{2} = 17373.1 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 2.11 = 59.91 \text{ (kg)} \end{aligned}$$

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

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 1.74 + 0.37 = 2.11 \text{ (m}^2\text{)} \end{aligned}$$

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

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)
250×125×t7.5/12.5	38.3	370	6882	396703	403585	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	621859	650823	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	675467	705942	70.13	22090.4	2.47
400×150×t10/15	72.0	800	60480	857736	918216	90.00	36000.0	3.17
450×175×t11/20	91.7	1000	143740	1072170	1215910	126.91	50764.9	4.47

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

6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{650823}{849} = 766.6 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{17373.1}{118} = 147.2 \quad (\text{kg/cm}^2) \end{aligned}$$

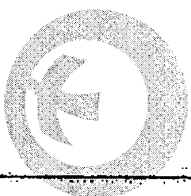
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣM_v (kg-cm)	Mw (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
250×125×t7.5/12.5	415	56.2	403585	6092.9	972.5	108.4	1080.9
⇒ 300×150×t10/18.5	849	118	650823	17373.1	766.6	147.2	913.8
350×150×t9/15	871	95.4	705942	22090.4	810.5	231.6	1042.1
400×150×t10/18	1220	118	918216	36000.0	752.6	305.1	1057.7
450×175×t11/20	1740	177	1215910	50764.9	698.8	286.8	985.6

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 65.6 \times 580^3}{384 \times 2100000 \times 5180} = 0.0625 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(2800 + 620) \times 580^3}{48 \times 2100000 \times 5180} = 0.521 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.521}{580} = \frac{1}{1113} < \frac{1}{1000} \end{aligned}$$

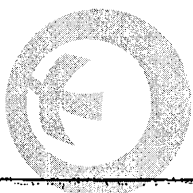
2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.0625 + 0.484}{580} = \frac{1}{994} < \frac{1}{800} \end{aligned}$$

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
250×125×t7.5/12.5	5180	38.3	0.023	0.332	1 / 1115	1 / 1042
300×150×t10/18.5	12700	65.6	0.06249	0.521	1 / 1113	1 / 994
350×150×t9/15	15200	58.5	0.05967	0.558	1 / 1129	1 / 1020
400×150×t10/18	24100	72	0.09484	0.721	1 / 1110	1 / 981
450×175×t11/20	39200	91.7	0.14504	0.866	1 / 1155	1 / 990

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다

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I-7. I-BEAM의 최대 지지거리

7-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 58.5 \times 630^2}{8} = 30474 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 620) \times 630}{4} = 675467 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 620 \text{ KG} \quad \text{용량} : 2800 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 30474 + 626881 = 705942 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{70.13 \times 630}{2} = 22090.4 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 2.47 = 70.13 \text{ (kg)} \end{aligned}$$

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

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

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

$$= 2.1 + 0.37 = 2.47 \text{ (m}^2\text{)}$$

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

I-BEAM 규격	BEAM 자중 (kg/m)	최대 지지거리 (cm)	Ms (kg-cm)	Md (kg-cm)	ΣMv (kg-cm)	W (kg)	Mw (kg-cm)	A (m²)
250×125×t7.5/12.5	38.3	370	6882	396703	403585	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	621859	650823	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	675467	705942	70.13	22090.4	2.47
400×150×t10/18.5	72.0	800	60480	157736	163784	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1072170	1215910	126.91	50764.9	4.47

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

7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{705942}{871} = 810.5 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{22090.4}{95.4} = 231.6 \quad (\text{kg/cm}^2) \end{aligned}$$

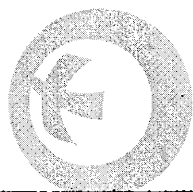
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	$\sum M_v$ (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\sum \sigma$ (kg/cm ²)
250×125×t7.5/12.5	415	56.2	403585	6092.9	972.5	108.4	1080.9
300×150×t10/18.5	849	118	650823	17373.1	766.6	147.2	913.8
⇒ 350×150×t9/15	871	95.4	705942	22090.4	810.5	231.6	1042.1
400×150×t10/18	1220	118	918216	36001.1	752.6	305.1	1057.7
450×175×t11/20	1740	177	1215910	50764.9	698.8	286.8	985.6

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 58.5 \times 630^3}{384 \times 2100000 \times 15200} = 0.05967 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(2800 + 620) \times 630^3}{48 \times 2100000 \times 15200} = 0.558 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

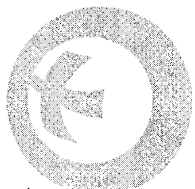
$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.558}{630} = \frac{1}{1129} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.05967 + 0.518}{630} = \frac{1}{1020} < \frac{1}{800} \end{aligned}$$

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
250×125×17.5/12.5	5180	38.3	0.023	0.332	1 / 1115	1 / 1042
300×150×110/18.5	12700	65.6	0.06249	0.521	1 / 1113	1 / 994
→ 350×150×19/15	15200	58.5	0.05967	0.558	1 / 1129	1 / 1020
400×150×110/18	24100	72	0.09484	0.721	1 / 1110	1 / 981
450×175×111/20	39200	91.7	0.14504	0.863	1 / 1155	1 / 990

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



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I-8. I-BEAM의 최대 지지거리

8-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 72 \times 800^2}{8} = 60480 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 620) \times 800}{4} = 857736 \quad \text{kg-cm}$$

$$* \text{ 호이스트 자중 } = 620 \text{ KG} \quad \text{용 량 : } 2800 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \sum M_v = M_s + M_d = 60480 + 796039 = 918216 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{90 \times 800}{2} = 36001.1 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 3.17 = 90.00 \text{ (kg)} \end{aligned}$$

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

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 2.8 + 0.37 = 3.17 \text{ (m}^2\text{)} \end{aligned}$$

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

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)
250×125×t7.5/12.5	38.3	370	6882	396703	403585	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	621859	650823	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	675467	705942	70.13	22090.4	2.47
400×150×t10/18	72.0	800	60480	857736	918216	90.00	36001.1	3.17
450×175×t11/20	91.7	1000	143740	1072170	1215910	126.91	50764.9	4.47

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

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{918216}{1220} = 752.6 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{36001.1}{118} = 305.1 \quad (\text{kg/cm}^2) \end{aligned}$$

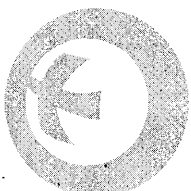
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단면 계수 Zx	단면 계수 Zy	$\sum M_v$ (kg-cm)	Mw (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\sum \sigma$ (kg/cm ²)
250×125×t7.5/12.5	415	56.2	403585	6092.9	972.5	108.4	1080.9
300×150×t10/18.5	849	118	650823	17373.1	766.6	147.2	913.8
350×150×t9/15	871	95.4	705942	22090.4	810.5	231.6	1042.1
⇒ 400×150×t10/18	1220	118	918216	36001.1	752.6	305.1	1057.7
450×175×t11/20	1740	177	1215910	50764.9	698.8	286.8	985.6

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 72 \times 800^3}{384 \times 2100000 \times 24100} = 0.09484 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(2800 + 620) \times 800^3}{48 \times 2100000 \times 24100} = 0.721 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

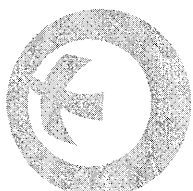
$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.721}{800} = \frac{1}{1110} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.09484 + 0.669}{800} = \frac{1}{981} < \frac{1}{800} \end{aligned}$$

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
250×125×t7.5/12.5	5180	38.3	0.023	0.332	1 / 1115	1 / 1042
300×150×t10/18.5	12700	65.6	0.06249	0.521	1 / 1113	1 / 994
350×150×t9/15	15200	58.5	0.05967	0.558	1 / 1129	1 / 1020
→ 400×150×t10/18	24100	72	0.09484	0.721	1 / 1110	1 / 981
450×175×t11/20	39200	91.7	0.14504	0.866	1 / 1155	1 / 990

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



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I-9. I-BEAM의 최대 지지거리

9-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 91.7 \times 1000^2}{8} = 143740 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(2800 + 620) \times 1000}{4} = 1072170 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 620 \text{ KG} \quad \text{용량} : 2800 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 143740 + 995049 = 1215910 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{126.91 \times 800}{2} = 50764.9 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 4.47 = 126.91 \text{ (kg)} \end{aligned}$$

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

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 4.1 + 0.37 = 4.47 \text{ (m}^2\text{)} \end{aligned}$$

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

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)
250×125×t7.5/12.5	38.3	370	6882	396703	403585	32.93	6092.9	1.16
300×150×t10/18.5	65.6	580	28964	621859	650823	59.91	17373.1	2.11
350×150×t9/15	58.5	630	30474	675467	705942	70.13	22090.4	2.47
400×150×t10/16	72.0	800	60480	857738	918216	90.00	36000.1	3.17
450×175×t11/20	91.7	1000	143740	1072170	1215910	126.91	50764.9	4.47

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

9-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{1215910}{1740} = 698.8 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{50764.9}{177} = 286.8 \quad (\text{kg/cm}^2) \end{aligned}$$

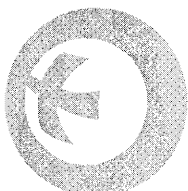
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단면 계수 Zx	단면 계수 Zy	ΣM_v (kg-cm)	Mw (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
250×125×t7.5/12.5	415	56.2	403585	6092.9	972.5	108.4	1080.9
300×150×t10/18.5	849	118	650823	17373.1	766.6	147.2	913.8
350×150×t9/15	871	95.4	705942	22090.4	810.5	231.6	1042.1
400×150×t10/18	1220	118	918216	36001.1	752.6	305.1	1057.7
⇒ 450×175×t11/20	1740	177	1215910	50764.9	698.8	286.8	985.6

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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9-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 91.7 \times 1000^3}{384 \times 2100000 \times 39200} = 0.14504 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(2800 + 620) \times 1000^3}{48 \times 2100000 \times 39200} = 0.866 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

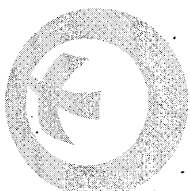
$$\begin{aligned} &\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000} \\ &= \frac{0.866}{1000} = \frac{1}{1155} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} &\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800} \\ &= \frac{0.14504 + 0.803}{1000} = \frac{1}{990} < \frac{1}{800} \end{aligned}$$

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
250×125×t7.5/12.5	5180	38.3	0.023	0.332	1 / 1115	1 / 1042
300×150×t10/18.5	12700	65.6	0.06249	0.521	1 / 1113	1 / 994
350×150×t9/15	15200	58.5	0.05967	0.558	1 / 1129	1 / 1020
400×150×t10/18	24100	72	0.09484	0.721	1 / 1110	1 / 981
⇒ 450×175×t11/20	33200	91.7	0.14504	0.866	1 / 1155	1 / 990

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.



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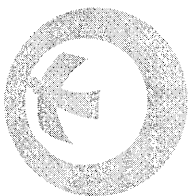
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IV. 참 고 도 서

- 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



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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.0 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	7.6 A	8.4 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	12.0 A	13.2 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.6 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	17.7 A	19.5 A	CT-1	K, L	5 V.A	
3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	25.0 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	23.0 A	25.3 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	31.0 A	CT-1	K, L	5 V.A	
7.5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	34.4 A	38.4 A	CT-1	K, L	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.6 A	5.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	5.4 A	4.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.6 A	6.4 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	6.4 A	7.1 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	7.0 A	7.7 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	10.3 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	10.3 A	11.4 A	CT-1	K, L	5 V.A	
3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.5 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	13.3 A	14.6 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	19.9 A	23.1 A	CT-1	K, L	5 V.A	
7.5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	16.3 A	18.0 A	CT-1	K, L	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

국동호이스트용

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.6 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.5 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.9 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	4.0 A	4.6 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.8 A	4.5 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	5.9 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.8 A	6.4 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	8.9 A	9.8 A	CT-1	K, L	5 V.A	
3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	11.6 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	11.5 A	12.7 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-1	K, L	5 V.A	
5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	11.5 A	12.7 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	15.5 A	CT-1	K, L	5 V.A	
7.5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결 단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.8 A	4.4 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.6 A	4.1 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.3 A	5.9 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.5 A	6.1 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
2.8T	2.5KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-1	K, L	5 V.A	
3TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	
7.5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	16.5 A	20.5 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	11.0 A	12.2 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-1	K, L	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
0.5 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
1 TON	1.2KW x 8P	110%	1 SEC	1 SEC	3.6 A	4.2 A	CT-1	K, L	5 V.A	
	1.5KW x 6P	110%	1 SEC	1 SEC	3.5 A	3.9 A	CT-1	K, L	5 V.A	
	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.1 A	CT-1	K, L	5 V.A	
2 TON	1.8KW x 8P	110%	1 SEC	1 SEC	5.1 A	5.8 A	CT-1	K, L	5 V.A	
	2.5KW x 6P	110%	1 SEC	1 SEC	5.3 A	6.0 A	CT-1	K, L	5 V.A	
	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
2.8 TON	2.5KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
	2.8KW x 8P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-1	K, L	5 V.A	
3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	
7.5 TON	8.5KW x 4P	110%	1 SEC	1 SEC	15.8 A	19.9 A	CT-1	K, L	5 V.A	
	4.2KW x 8P	110%	1 SEC	1 SEC	10.5 A	12.0 A	CT-1	K, L	5 V.A	
	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-1	K, L	5 V.A	

NOTE

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

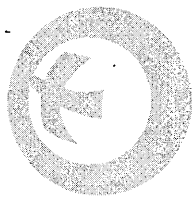
E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.0 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.6 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
1 TON	1.2KW x 8P	8.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.0 A	
	1.5KW x 6P	7.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.6 A	
	2.4KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
2 TON	1.8KW x 8P	11.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	11.0 A	
	2.5KW x 6P	12.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.0 A	
	3.7KW x 4P	16.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.0 A	
2.8 TON	2.5KW x 8P	17.7 A	1 DRIVE	SS-30	3 SEC	1 SEC	17.7 A	
	5.0KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
	2.8KW x 8P	17.7 A	1 DRIVE	SS-30	3 SEC	1 SEC	17.7 A	
3 TON	5.5KW x 4P	22.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.8 A	
	4.2KW x 8P	23.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
5 TON	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	34.4 A	
	4.2KW x 8P	23.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	
7.5 TON	8.5KW x 4P	34.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	34.4 A	
	4.2KW x 8P	23.0 A	1 DRIVE	SS-30	3 SEC	1 SEC	23.0 A	
	5.5KW x 6P	28.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.2 A	

NOTE

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



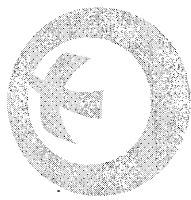
E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Ø 380V 60Hz

HOIST	MOTOR 용량	정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.4 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
1 TON	1.2KW x 8P	4.6 A	1 DRIVE	SS-30	3 SEC	1 SEC	4.6 A	
	1.5KW x 6P	5.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.4 A	
	2.4KW x 4P	5.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.6 A	
2 TON	1.8KW x 8P	6.4 A	1 DRIVE	SS-30	3 SEC	1 SEC	6.4 A	
	2.5KW x 6P	7.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.0 A	
	3.7KW x 4P	9.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.3 A	
2.8 TON	2.5KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
	5.0KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	2.8KW x 8P	10.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.3 A	
3 TON	5.5KW x 4P	12.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.2 A	
	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
5 TON	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	
	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	
7.5 TON	8.5KW x 4P	19.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	19.9 A	
	4.2KW x 8P	13.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.3 A	
	5.5KW x 6P	16.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.3 A	

NOTE

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



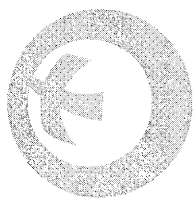
E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3 Ø 440V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
1 TON	1.2KW x 8P	4.0 A	1 DRIVE	SS-06	3 SEC	1 SEC	4.0 A	
	1.5KW x 6P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	2.4KW x 4P	5.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.0 A	
2 TON	1.8KW x 8P	5.5 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.5 A	
	2.5KW x 6P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	8.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.0 A	
2.8 TON	2.5KW x 8P	8.9 A	1 DRIVE	SS-30	3 SEC	1 SEC	8.9 A	
	5.0KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	2.8KW x 8P	8.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	8.9 A	
3 TON	5.5KW x 4P	10.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.5 A	
	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
5 TON	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	
	4.2KW x 8P	11.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.5 A	
	5.5KW x 6P	14.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	14.1 A	
7.5 TON	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	

NOTE

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



한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

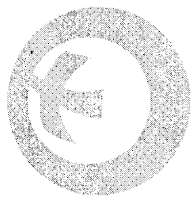
E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	3.8 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.8 A	
	1.5KW x 6P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	2.4KW x 4P	4.8 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.8 A	
1 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
2 TON	1.8KW x 8P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	2.5KW x 6P	5.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
2.8 TON	2.5KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	2.8KW x 8P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
3 TON	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
5 TON	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	
	4.2KW x 8P	11.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	11.0 A	
	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
7.5 TON	8.5KW x 4P	16.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	16.5 A	

NOTE

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한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

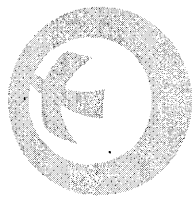
E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
0.5 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.5 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.6 A	
1 TON	1.2KW x 8P	3.6 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.6 A	
	1.5KW x 6P	3.5 A	1 DRIVE	SS-06	3 SEC	1 SEC	3.5 A	
	2.4KW x 4P	4.6 A	1 DRAVE	SS-06	3 SEC	1 SEC	4.6 A	
2 TON	1.8KW x 8P	5.1 A	1 DRIVE	SS-30	3 SEC	1 SEC	5.1 A	
	2.5KW x 6P	5.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.3 A	
	3.7KW x 4P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
2.8 TON	2.5KW x 8P	7.3 A	1 DRIVE	SS-30	3 SEC	1 SEC	7.3 A	
	5.0KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
	2.8KW x 8P	7.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.3 A	
3 TON	5.5KW x 4P	9.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	9.6 A	
	4.2KW x 8P	10.5 A	1 DRIVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
5 TON	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.8 A	
	4.2KW x 8P	10.5 A	1 DRIVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	
7.5 TON	8.5KW x 4P	15.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	15.8 A	
	4.2KW x 8P	10.5 A	1 DRIVE	SS-30	3 SEC	1 SEC	10.5 A	
	5.5KW x 6P	12.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	12.9 A	

NOTE

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한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	10 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.1 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	16.0 A	17.4 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	2.7 A	3.1 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	22.8 A	24.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	22.8 A	24.3 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	30.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	8.1 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	28.2 A	30.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	6.7 A	8.1 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	45.0 A	49.1 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	8.0 A	9.6 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	5.8 A	6.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	2.1 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	9.3 A	11.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.6 A	2.1 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	12.2 A	13.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	4.2 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	5.3 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	16.3 A	17.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.9 A	5.3 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	26.0 A	28.6 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.6 A	6.1 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD: CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	5.0 A	7.3 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	8.0 A	10.8 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.4 A	1.8 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	10.5 A	13.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.5 A	13.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.7 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	18.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	14.1 A	18.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.3 A	4.7 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	22.5 A	24.8 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.0 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60HZ

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.8 A	5.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.3 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.7 A	8.5 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.3 A	1.5 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	10.0 A	11.5 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.5 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	13.5 A	14.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.2 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	21.5 A	23.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.0 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3 ϕ 480V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	4.6 A	5.0 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.2 A	1.35 A	CT-1	K-K1, L-L1	5 V.A	
C2 TON	3.7KW x 4P	110%	1 SEC	1 SEC	7.3 A	8.2 A	CT-2	K-K1, L-L1	5 V.A	
	0.4KW x 4P	110%	1 SEC	1 SEC	1.2 A	1.35 A	CT-1	K-K1, L-L1	5 V.A	
C2.8 TON	5.0KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C3 TON	5.5KW x 4P	110%	1 SEC	1 SEC	9.6 A	11.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.5KW x 4P	110%	1 SEC	1 SEC	3.4 A	4.3 A	CT-1	K-K1, L-L1	5 V.A	
C5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.1 A	3.5 A	CT-1	K-K1, L-L1	5 V.A	
C7.5 TON	5.5KW x 6P	110%	1 SEC	1 SEC	12.9 A	14.2 A	CT-2	K-K1, L-L1	5 V.A	
	1.0KW x 6P	110%	1 SEC	1 SEC	3.1 A	3.5 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	20.6 A	22.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.0 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3 ̸ 220V 60Hz

극동호이스트(주)

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

NOTE

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E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동하이스트(주)

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

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

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

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	4.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.8 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2 TON	3.7KW x 4P	7.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	7.7 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
C2.8 TON	5.0KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C3 TON	5.5KW x 4P	10.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	10.0 A	
	1.5KW x 4P	3.5 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.5 A	
C5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.2 A	
C7.5 TON	5.5KW x 6P	13.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	13.5 A	
	1.0KW x 6P	3.2 A	1 DRAVE	SS-05	3 SEC	1 SEC	3.2 A	
C10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 A	
	1.1KW x 8P	4.0 A	1 DRAVE	SS-05	3 SEC	1 SEC	4.0 A	

NOTE

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

E.O.C.R 권고 SETTING

* POWER SOURCE : AC 3Φ 480V 60Hz

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

NOTE

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

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIREL 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 RPM
11. FULL LOAD CURRENT	28.8 A
12. LOCKED ROTOR CURRENT	136.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	831 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	12.2 A
12. LOCKER ROTOR CURRENT	72.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.5 A
12. LOCKER ROTOR CURRENT	63.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	10.0 A
12. LOCKER ROTOR CURRENT	60.0 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	5.0 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1750 RPM
11. FULL LOAD CURRENT	9.6 A
12. LOCKER ROTOR CURRENT	57.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	81.5 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	17.7 A
12. LOCKED ROTOR CURRENT	92.9 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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 ℃
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	10.3 A
12. LOCKED ROTOR CURRENT	53.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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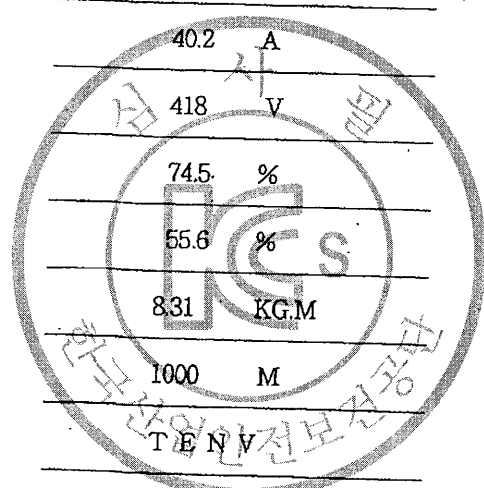
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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 °C
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	8.9 A
12. LOCKED ROTOR CURRENT	46.6 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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 °C
10. FULL LOAD SPEED	860 RPM
11. FULL LOAD CURRENT	7.7 A
12. LOCKED ROTOR CURRENT	40.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	PL : 6206zz OPL : 6206zz
19. TYPE OF BEARING	HORIZONTAL
20. MOUNTING	40 °C
21. MAXIMUM AMBIENT TEMPURE	GREASE
22. BEARING LUBRICATION	FULL VOLTAGE
23. STARTING METHOD	



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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	132 S
4. RATED POWER	2.5 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	7.3 A
12. LOCKED ROTOR CURRENT	38.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	74.5 %
15. POWER FACTOR AT 100% RATED LOAD	55.6 %
16. FULL LOAD TORQUE	8.31 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPIURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

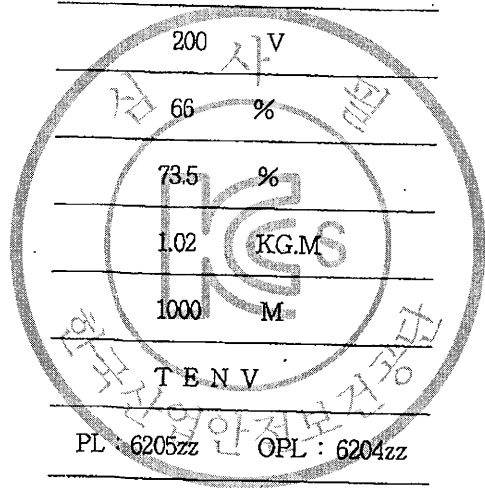
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THREE PHASE INDUCTION MOTOR DATE SHEET

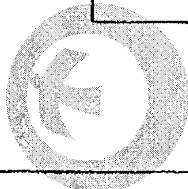
SCHEDULE OF TECHNICAL DATA

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 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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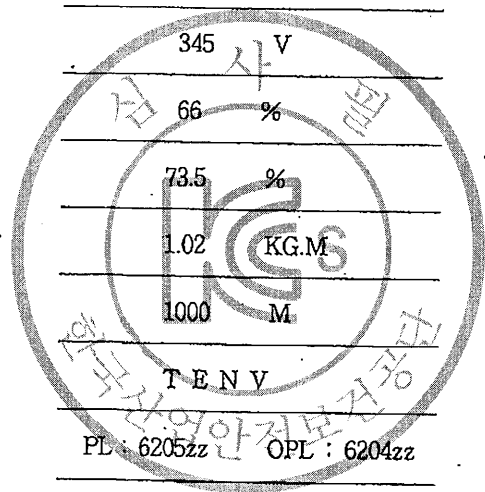


한국산업안전보건공단
KOSHA
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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 ℃
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	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUEPRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



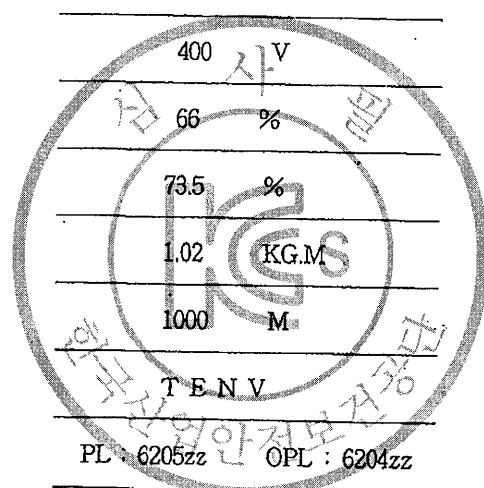
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THREE PHASE INDUCTION MOTOR DATE SHEET

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 ℃
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 K.G.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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

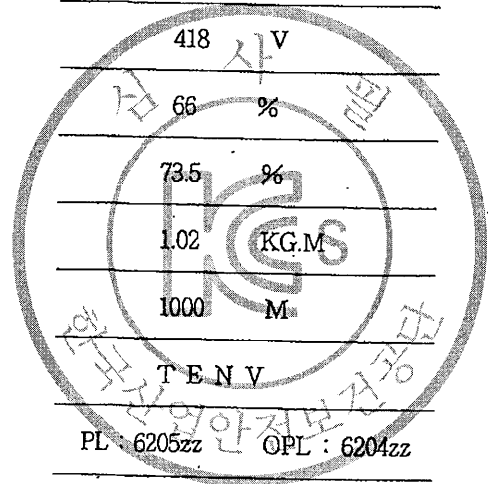


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	국동호이스트 (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 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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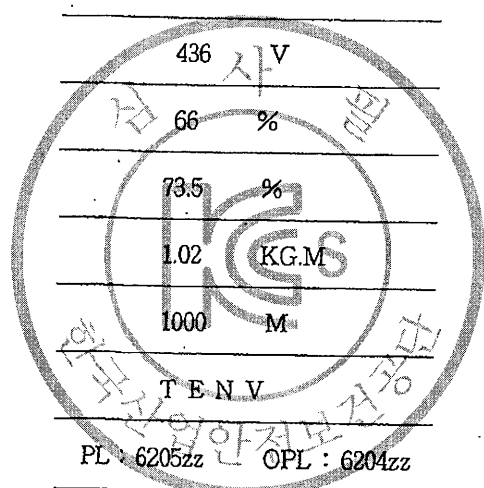
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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 ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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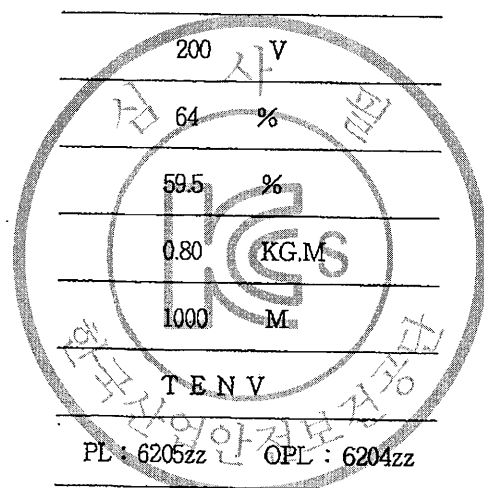
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THREE PHASE INDUCTION MOTOR DATE SHEET

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 ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

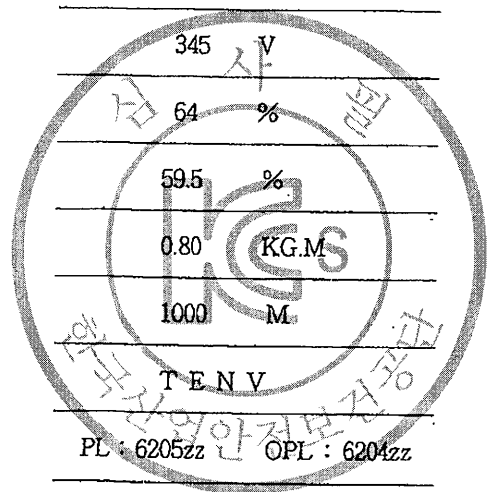


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SCHEDULE OF TECHNICAL DATA

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	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



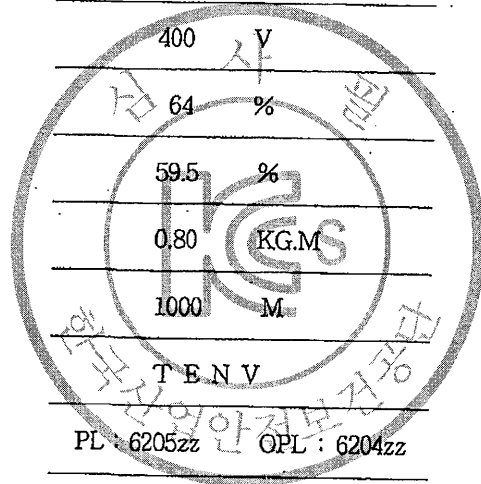
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SCHEDULE OF TECHNICAL DATA

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	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



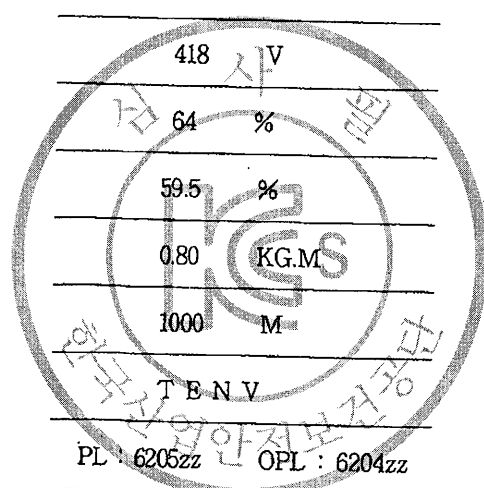
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SCHEDULE OF TECHNICAL DATA

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.MS
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

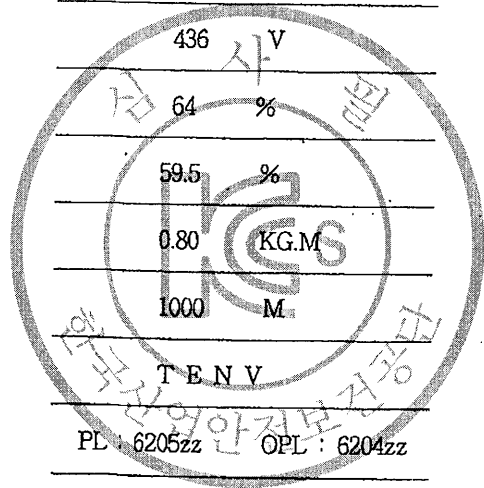


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THREE PHASE INDUCTION MOTOR DATE SHEET

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 K.G.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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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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 K.G.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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

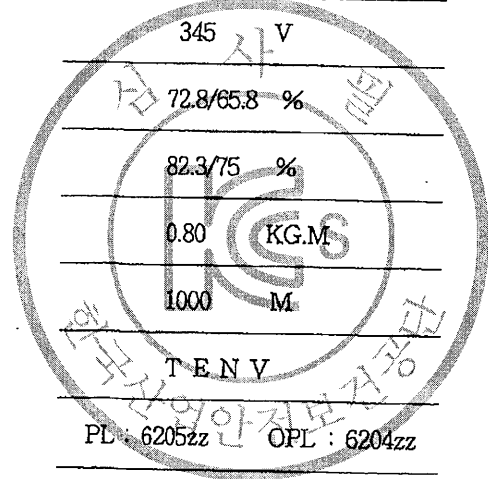
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THREE PHASE INDUCTION MOTOR DATE SHEET

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 ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUERICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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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 ℃
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 ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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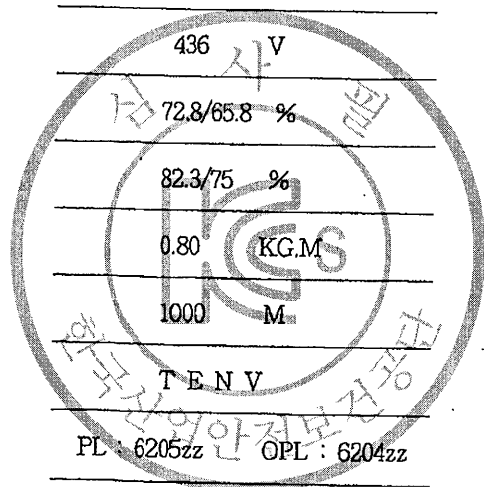
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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 ℃
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 K.G.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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



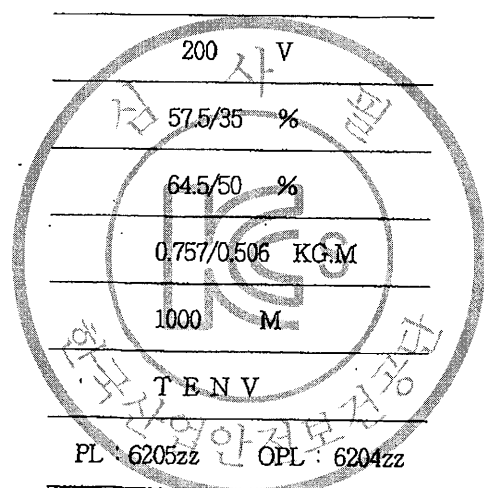
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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	TENV
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN 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 KGM
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	GREASE
23. STARTING METHOD	F U L L V O L T A G E

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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	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 KGM
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	GREASE
23. STARTING METHOD	FULL VOLTAGE

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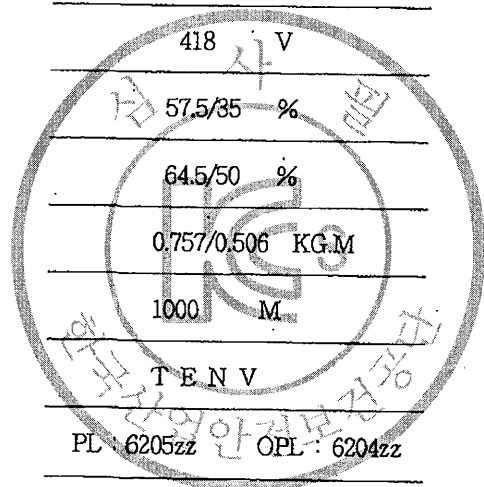
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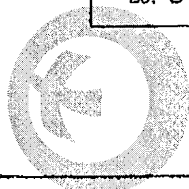
THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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	TENV
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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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	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	132S
4. RATED POWER	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 deg °C
10. FULL LOAD CURRENT	22.8 A
11. LOCKED MOTOR CURRENT	136.6 A
12. MINIMUM STARTING VOLTAGE	200 V
13. EFFICIENCY AT 100% RATED LOAD	81.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.6 %
16. FULL LOAD TORQUE	8.31 Kg.m
17. SITE ALTTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6206zz OPL 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	70 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	132S
4. RATED POWER	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 deg °C
10. FULL LOAD CURRENT	12.2 A
11. LOCKED MOTOR CURRENT	72.9 A
12. MINIMUM STARTING VOLTAGE	345 V
13. EFFICIENCY AT 100% RATED LOAD	81.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.6 %
16. FULL LOAD TORQUE	8.31 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6206zz OPL 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOU)	70 Kg
24. SERIAL NO	

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	132S
4. RATED POWER	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 deg °C
10. FULL LOAD CURRENT	10.5 A
11. LOCKED MOTOR CURRENT	63.0 A
12. MINIMUM STARTING VOLTAGE	400 V
13. EFFICIENCY AT 100% RATED LOAD	81.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.6 %
16. FULL LOAD TORQUE	8.31 Kg.m
17. SITE ALTTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6206zz OPL 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTCK NET WEIGHT (ABOUT)	70 kg
24. SERIAL NO	

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	132S
4. RATED POWER	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 deg °C.
10. FULL LOAD CURRENT	10.0 A
11. LOCKED MOTOR CURRENT	60.0 A
12. MINIMUM STARTING VOLTAGE	418 V
13. EFFICIENCY AT 100% RATED LOAD	81.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.6 %
16. FULL LOAD TORQUE	8.31 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6206zz OPL 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	70 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	132S
4. RATED POWER	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 deg °C
10. FULL LOAD CURRENT	9.6 A
11. LOCKED MOTOR CURRENT	57.5 A
12. MINIMUM STARTING VOLTAGE	436 V
13. EFFICIENCY AT 100% RATED LOAD	81.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.6 %
16. FULL LOAD TORQUE	8.31 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6206zz OPL 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	70 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR , OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	7.3 A
11. LOCKED MOTOR CURRENT	41.8 A
12. MINIMUM STARTING VOLTAGE	200 V
13. EFFICIENCY AT 100% RATED LOAD	73 %
14. POWER FACTOR AT 100% RATED LOAD	75 %
15. SLIP (FULL LOAD)	6.1 %
16. FULL LOAD TORQUE	1.95 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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEICHT (ABOUT	29 Kg
24. SERIAL NO	

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR , OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	4.2 A
11. LOCKED MOTOR CURRENT	24.2 A
12. MINIMUM STARTING VOLTAGE	345 V
13. EFFICIENCY AT 100% RATED LOAD	73 %
14. POWER FACTOR AT 100% RATED LOAD	75 %
15. SLIP (FULL LOAD)	6.1 %
16. FULL LOAD TORQUE	1.95 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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	22 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 deg C
10. FULL LOAD CURRENT	3.7 A
11. LOCKED MOTOR CURRENT	20.9 A
12. MINIMUM STARTING VOLTAGE	400 V
13. EFFICIENCY AT 100% RATED LOAD	73 %
14. POWER FACTOR AT 100% RATED LOAD	75 %
15. SLIP (FULL LOAD)	6.1 %
16. FULL LOAD TORQUE	1.95 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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	22 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	3.5 A
11. LOCKED MOTOR CURRENT	20.0 A
12. MINIMUM STARTING VOLTAGE	418 V
13. EFFICIENCY AT 100% RATED LOAD	73 %
14. POWER FACTOR AT 100% RATED LOAD	75 %
15. SLIP (FULL LOAD)	6.1 %
16. FULL LOAD TORQUE	1.95 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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	29 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90L
4. RATED POWER	1.5 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR , OUTDOOR, B CLASS
9. DESIGN TEMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	3.4 A
11. LOCKED MOTOR CURRENT	19.2 A
12. MINIMUM STARTING VOLTAGE	436 V
13. EFFICIENCY AT 100% RATED LOAD	73 %
14. POWER FACTOR AT 100% RATED LOAD	75 %
15. SLIP (FULL LOAD)	6.1 %
16. FULL LOAD TORQUE	1.95 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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPERATURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	29 Kg
24. SERIAL NO	

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	4.1 A
11. LOCKED MOTOR CURRENT	22.1 A
12. MINIMUM STARTING VOLTAGE	200 V
13. EFFICIENCY AT 100% RATED LOAD	66 %
14. POWER FACTOR AT 100% RATED LOAD	73.5 %
15. SLIP (FULL LOAD)	8.3 %
16. FULL LOAD TORQUE	1.02 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21.35 Kg
24. SERIAL NO	

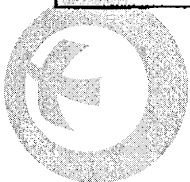
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	2.4 A
11. LOCKED MOTOR CURRENT	12.8 A
12. MINIMUM STARTING VOLTAGE	345 V
13. EFFICIENCY AT 100% RATED LOAD	66 %
14. POWER FACTOR AT 100% RATED LOAD	73.5 %
15. SLIP (FULL LOAD)	8.3 %
16. FULL LOAD TORQUE	1.02 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	12 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	2.0 A
11. LOCKED MOTOR CURRENT	11.1 A
12. MINIMUM STARTING VOLTAGE	400 V
13. EFFICIENCY AT 100% RATED LOAD	66 %
14. POWER FACTOR AT 100% RATED LOAD	73.5 %
15. SLIP (FULL LOAD)	8.3 %
16. FULL LOAD TORQUE	1.02 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21 Kg
24. SERIAL NO	

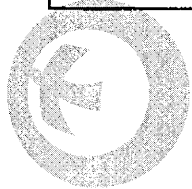
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	2.0 A
11. LOCKED MOTOR CURRENT	10.6 A
12. MINIMUM STARTING VOLTAGE	418 V
13. EFFICIENCY AT 100% RATED LOAD	66 %
14. POWER FACTOR AT 100% RATED LOAD	73.5 %
15. SLIP (FULL LOAD)	8.3 %
16. FULL LOAD TORQUE	1.02 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21 Kg
24. SERIAL NO	

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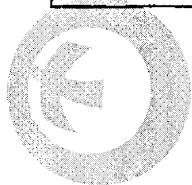
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	1.9 A
11. LOCKED MOTOR CURRENT	10.2 A
12. MINIMUM STARTING VOLTAGE	436 V
13. EFFICIENCY AT 100% RATED LOAD	66 %
14. POWER FACTOR AT 100% RATED LOAD	73.5 %
15. SLIP (FULL LOAD)	8.3 %
16. FULL LOAD TORQUE	1.02 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6205zz OPL 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21.35 Kg
24. SERIAL NO	

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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

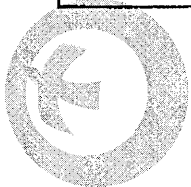
1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg ℃
10. FULL LOAD CURRENT	3.4 A
11. LOCKED MOTOR CURRENT	16.4 A
12. MINIMUM STARTING VOLTAGE	200 V
13. EFFICIENCY AT 100% RATED LOAD	64 %
14. POWER FACTOR AT 100% RATED LOAD	59.5 %
15. SLIP (FULL LOAD)	8.3 %
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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21.35 Kg
24. SERIAL NO	

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	2.0 A
11. LOCKED MOTOR CURRENT	9.5 A
12. MINIMUM STARTING VOLTAGE	345 V
13. EFFICIENCY AT 100% RATED LOAD	64 %
14. POWER FACTOR AT 100% RATED LOAD	59.5 %
15. SLIP (FULL LOAD)	8.3 %
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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21.35 Kg
24. SERIAL NO	

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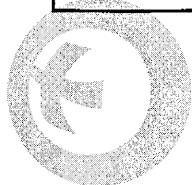
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	1.7 A
11. LOCKED MOTOR CURRENT	8.2 A
12. MINIMUM STARTING VOLTAGE	400 V
13. EFFICIENCY AT 100% RATED LOAD	64 %
14. POWER FACTOR AT 100% RATED LOAD	59.5 %
15. SLIP (FULL LOAD)	8.3 %
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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21.35 Kg
24. SERIAL NO	

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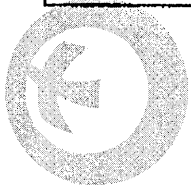
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	1.7 A
11. LOCKED MOTOR CURRENT	7.9 A
12. MINIMUM STARTING VOLTAGE	418 V
13. EFFICIENCY AT 100% RATED LOAD	64 %
14. POWER FACTOR AT 100% RATED LOAD	59.5 %
15. SLIP (FULL LOAD)	8.3 %
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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21.35 Kg
24. SERIAL NO	

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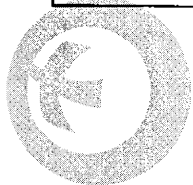
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90S
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 deg °C
10. FULL LOAD CURRENT	1.6 A
11. LOCKED MOTOR CURRENT	7.5 A
12. MINIMUM STARTING VOLTAGE	436 V
13. EFFICIENCY AT 100% RATED LOAD	64 %
14. POWER FACTOR AT 100% RATED LOAD	59.5 %
15. SLIP (FULL LOAD)	8.3 %
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	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	21 Kg
24. SERIAL NO	

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 °C
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	4.8/4.25 A
12. LOCKED ROTOR CURRENT	14.2/13.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	72.8/65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3/75 %
16. FULL LOAD TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPIRE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN Y
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 ℃
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 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 ℃
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 ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBRIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN 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 ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V 전보전공단
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 K.G.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V 전보전공단
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

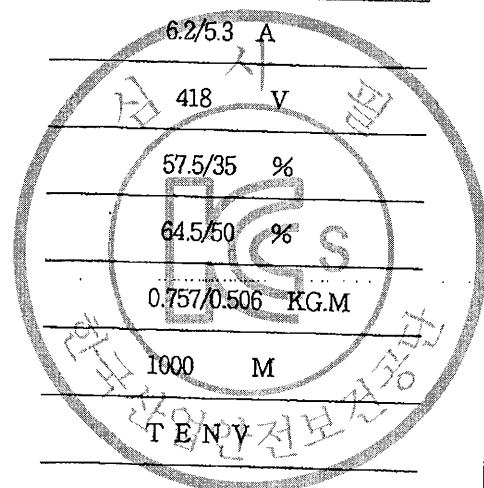
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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (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 ℃
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 ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN Y
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/0.25 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
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 ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

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No.600 Chuangye Road, Qingdao Development Zone, Shangdong, P.R.China
Tel : 86-532-86821916, Fax : 86-532-86821949 www.kiswire.com

ISSUE NO. PW9034

DATE Jan. 29, 2010

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** (B Grade)

TO MESSRS

MATERIAL DESCRIPTION **UNGALVANIZED STEEL WIRE ROPE**

06 X 37 + FC 1000M X 5 REEL

EX NO. **PW9034**

T/T NO.

ORDER NO.

REEL NO.

1~5

SAMPLING NO.

1

DIAMETER OF ROPE

12.5 mm

TYPE OF CORE

Fiber Core

SPECIFIED BREAKING LOAD

88.5 kN

SAMPLE BROKE AT

91.7 kN

WT. OF ZINC COATING OF OUTER WIRE

MIN.

g/m²

MAX.

g/m²

ROPE LAY

RHRL

LAY LENGTH

81.9 mm

LUBRICATION

A-2

CHEMICAL ANALYSIS OF WIRE ROD

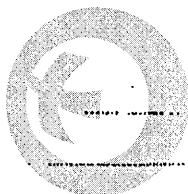
CHARGE NO.	C×100	Si×100	Mn×100	P×1000	S×1000
050697E	70	23	72	15	5

DATE OF SAMPLE TEST

Jan. 15, 2010

CHIEF INSPECTOR D.S.NA
KISWIRE QINGDAO LTD.

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한국산업안전보건공단
KOSHA

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SUB VENDOR LIST

구분	NO	DESCRIPTION	SUB VENDOR	TEL NO.	REMARK
기 계	1	WIRE ROPE	만호 로우프(주)	051-332-3131	
			고려제강 (주)	02-776-4131	
	2	MAGNET CORE	극동호이스트(주)	031-491-5311	
	3	DRUM	극동호이스트(주)	031-491-5311	
	4	GEAR	극동호이스트(주)	031-491-5311	
	5	HOOK ASS'Y	제 일 단 첼	032-527-2817	
			대 흥 단 조	032-561-0541	
	6	MIDDLE SHAFT	극동호이스트(주)	031-491-5311	
	7	RAIL CHANNEL ANGLE	인천제철(주)	032-763-5000	
			강원산업(주)	032-756-8881	
전 기	8	MAG CONTACTOR	L.G 전선 (주)	02-273-4140	전 품
			(주) 대 룡	02-242-4141	한국공업협회
			(주) 대성디에스	055-338-3125	
	9	E.O.C.R	삼화기연 (주)	032-62-1331	K.S
			아산 전기	02-2636-8035	
	10	PUSH BUTTON	한영전기 (주)	02-742-0430	전 품
			(주)케이치오토	02-247-3131	전 품
			반도기계 (주)	031-495-8353-4	전 품
	11	LOAD LIMITER	보 창 기 전	032-431-0150	산 안 검
			반도기계 (주)	031-495-8353-4	산 안 검
			정호 엔지니어링	02-681-0553	산 안 검
	12	SILICON	반도기계 (주)	031-495-8353-4	
			아산 전기	02-2636-8035	
			보 창 기 전	032-431-0150	