



제2017 - 49323 호

안 전 인 증 서

(사업장명) 극동호이스트(주)

(소 재 지) (154-23)경기도 안산시 단원구 해봉로 119(성곡동)

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 _____

KDC1T-M (1Ton) /17-AE2AC-00746 / 17-AE2AC-00746

_____ 인 증 기 준 _____

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

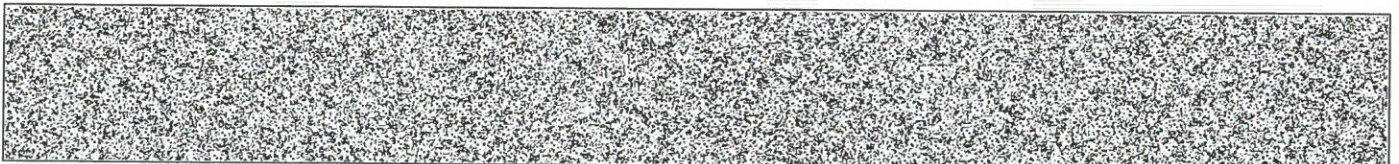
_____ 인 증 조 건 _____

인증유효기간 : 해당없음

설치장소 : 옥외

2017년 01월 10일

한국산업안전보건공단이사장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(15423) 경기도 안산시 단원구 해봉로 119(성곡동)		
안전인증대상 기계·기구명				
호이스트				
형식(규격)	KDC1T-M ()	용량(등급)	1 Ton	

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

- [] 예비심사
[] 서면심사
[] 기술능력 및 생산체계 심사
[] 개별 제품심사
[] 개별 제품심사(제작중)
[√] 형식별 제품심사

결과가 [√] 적 합
[] 부적합

함을 통지합니다.

2017년 01월 10일

인증심사원

김영태

(서명 또는 인)

한국산업안전보건공단 중부지역본부장





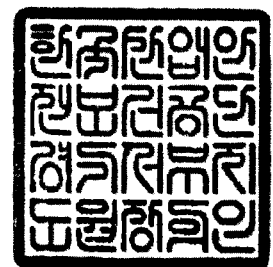
심사결과통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호 (사업자등록번호)	134-81-013350 134-81-01335
	소재지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		
	대표자성명	최성찬		
안전인증대상 기계·기구명		호이스트		
형식(규격)		KDC1T-M	용량(등급)	1 Ton
인증심사원		강성두 변명수		

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한 서면심사
결과가 적합함을 통지합니다.

2011 년 04 월 22 일

한국산업안전보건공단 경기서부지도원장



서 면 심 사 서 류

형식 번호 : KDC1T - M

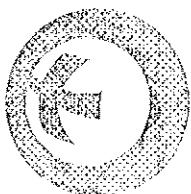
극 동 호 이 스펙트럼 (주)



工場 : 경기도 안산시 단원구 성곡동 630-2 한일공단607-14

電話 : 031) 491 - 5311

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FAX : 031) 494-5315



한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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동 일 형 식 일 람 표

사업장명	극동호이스트(株)	개정일자 및 번호	인증번호	
형식	모 델	동 일 형 식 인 정 범 위 및 내 역		비 고
		권 상 속 도 (m/min)	회 행 속 도 (m/min)	회 행 방 식
KDC1T-M	KDC1T-L6-M	고 속:12M/MIN	고 속:24M/MIN	모 터 구 동 식
	KDC1T-L9-M		저 속:16M/MIN	
	KDC1T-L12-M			
	KDC1T-L18-M			
	KDC1T-L24-M			
	KDC1T-L30-M	CREEP:1.2M/MIN		
			양 정 (m)	
			6	
			9	
			12	
			18	
			24	
			30	



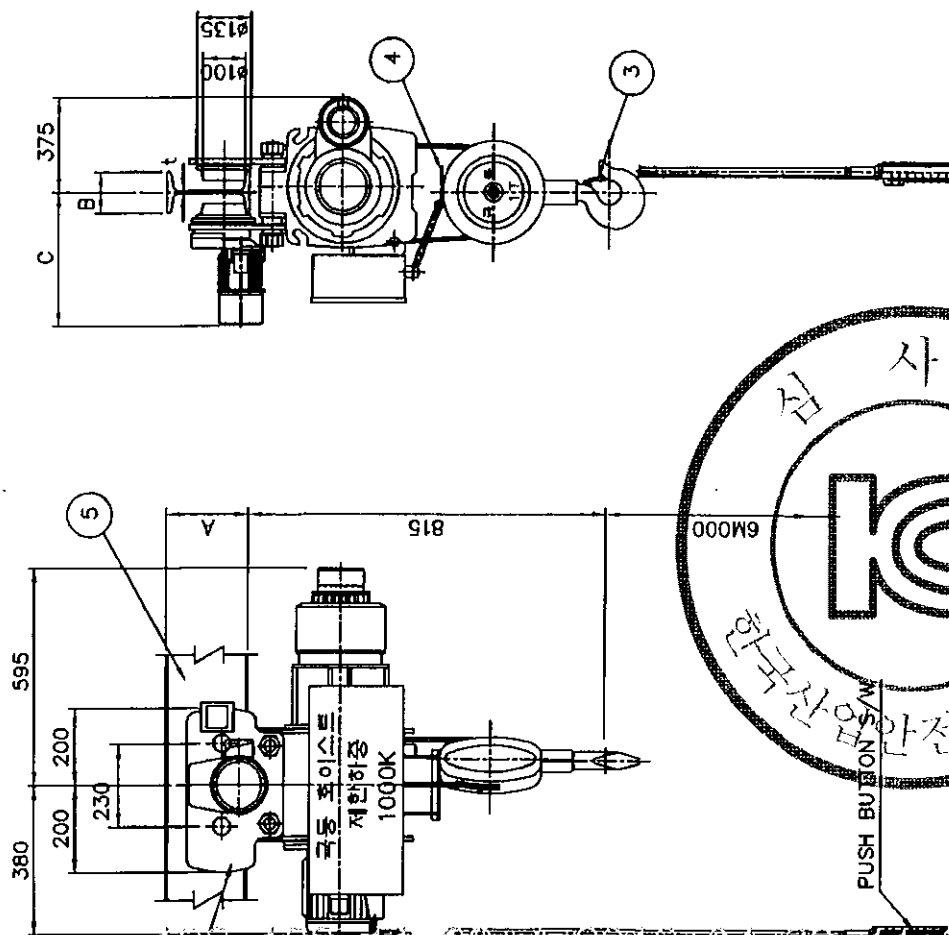
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한국산업안전보건공단 KOSHA KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

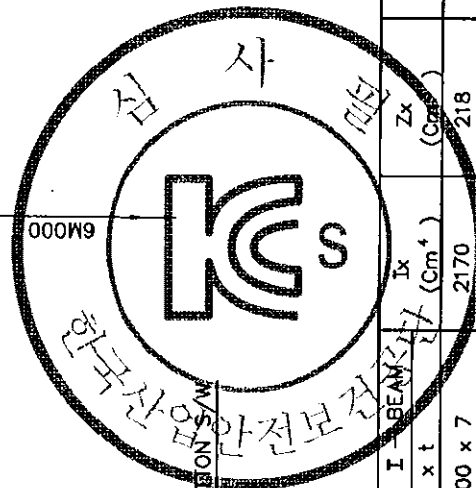
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SPECIFICATION			
RATED LOAD	1000	KG	
TESTING LOAD	1250	KG	
LIFT	6	M	
RATING	30	MIN	
HOISTING	SPEED	12 / 1.2	M/MIN
	MOTOR	2.4 / 0.4 KW x 4 P	
TRAVERSING	SPEED	HIGH 24	M/MIN
	LOW 16	M/MIN	
MOTOR	HIGH	0.4 KW x 4 P	
	LOW	0.2 KW x 6 P	
WIRE ROPE	(6x37) ϕ 8 x 2 FALLS		
POWER SOURCE	AC3 ϕ 220(380,440,460,480)V60Hz		
COLOR	10 B 3/5		
WEIGHT	225 KG		

5	I-BEAM	SS400	—	TABLE 8x3
4	UPPER LIMIT S/W	SS400	1	
3	SAFETY LATCH	SPC	1	
2	EMERGENCY S/W	—	1	
1	LOAD LIMITER	—	1	
NO.	DESCRIPTIONS	MTL	SET QTY	UNIT WEIGHT KG.
PROJECT				
TITLE				
KDC1T - L6 - M				
ARRANGEMENT DRAWING FOR HOIST				
DRAWN DESIGNED CHECKED APPROVED				
DATE				
200				
SCALE				
A3/20 /				
REF DRAWING				
KDC1M6000				
KUK DONG HOIST CO., LTD.				
KDC1M6000				

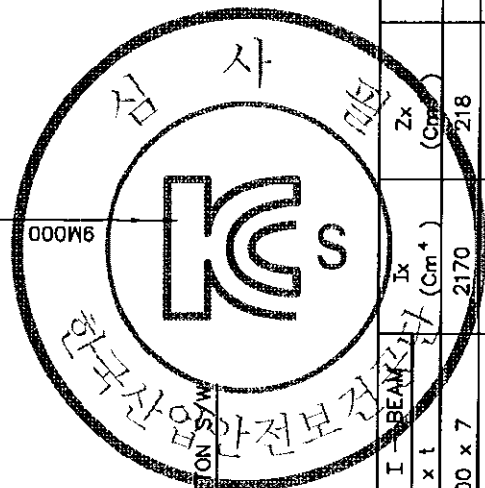


TRAVERSING I-BEAM	SUPPORT LENGTH	C
A x B x t	MAX.	
I 200 x 100 x 7	3.9 M	395
I 250 x 125 x 7.5	6.0 M	407.5
I 300 x 150 x 10	9.3 M	420
I 350 x 150 x 9	9.6 M	420
I 400 x 150 x 10	11.5 M	420



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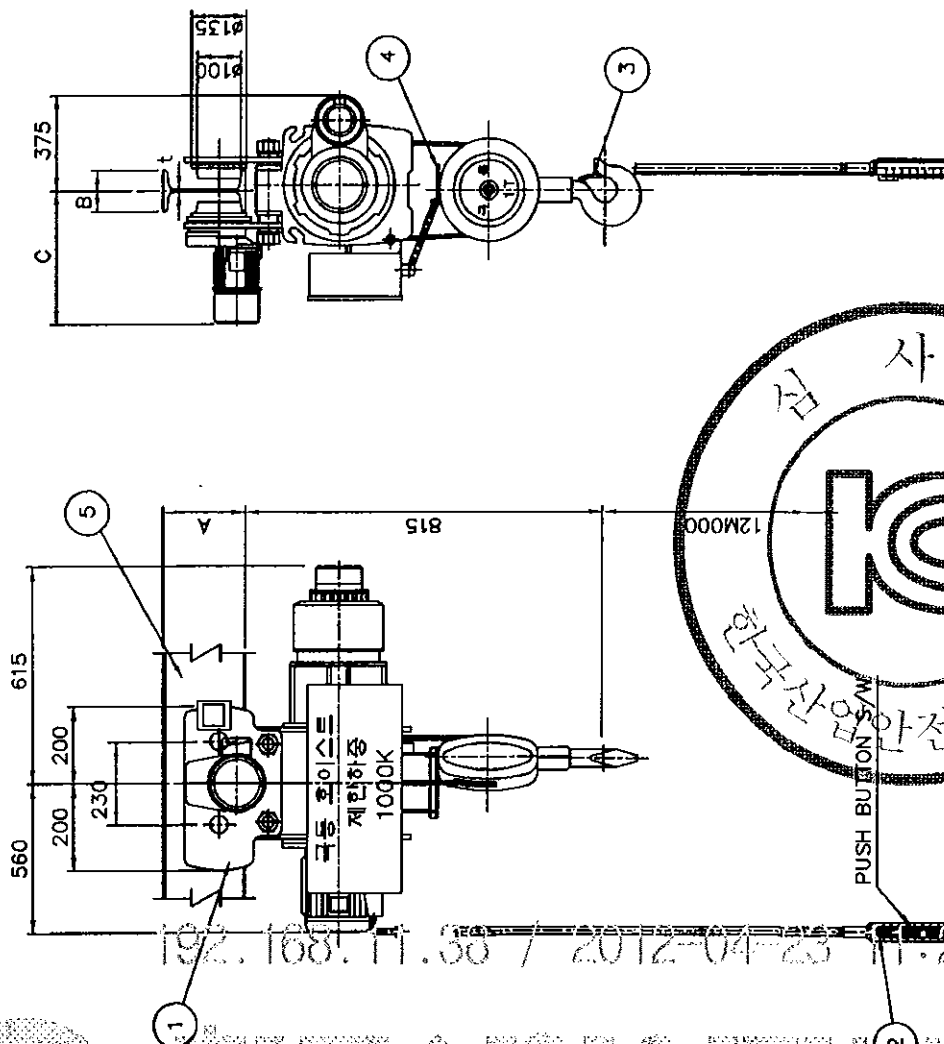
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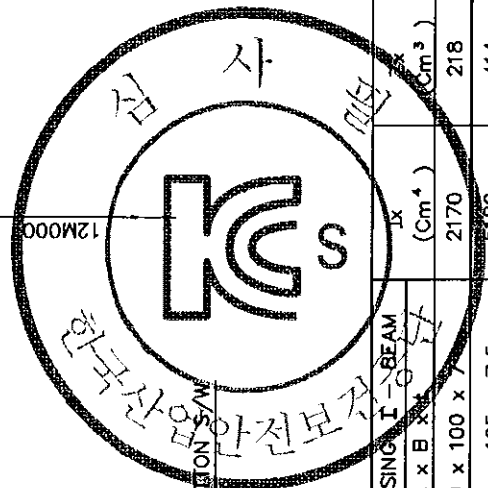
5	I-BEAM	SS400		—			TABLE 참조
4	UPPER LIMIT S/W	SS400		1			
3	SAFETY LATCH	SPC		1			
2	EMERGENCY S/W	—		1			
1	LOAD LIMITER	—		1			
NO.	DESCRIPTIONS	MTL	SET QTY	SET UNIT	WEIGHT KG.	TOTAL	REMARKS
PROJECT					DATE		
TITLE		KDCIT - L9 - M			SCALE		
DRAWN		ARRANGEMENT DRAWING FOR HOIST			A3/20 /		
		DESIGNED	CHECKED	APPROVED	REF. DRAWING		
 KDK KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.			
				KDCIM9000			

SPECIFICATION			
RATED LOAD	1000	KG	
TESTING LOAD	1250	KG	
LIFT	12	M	
RATING	30	MIN	
HOISTING	SPEED	12 / 1.2	M/MIN
	MOTOR	2.4 / 0.4 KW x 4 P	
TRAVERSING	SPEED	24	M/MIN
	MOTOR	16	M/MIN
WIRE ROPE	WIRE ROPE	0.4 KW x 4 P	
	WIRE ROPE	0.2 KW x 6 P	
POWER SOURCE	(5x37) 98 x 2 FALLS		
COLOR	AC302220(380,440,460,480)V60HZ		
WEIGHT	10 B 3/5		
	245	KG	

5	I-BEAM	SS400	—	TABLE	항목
4	UPPER LIMIT S/W	SS400	1		
3	SAFETY LATCH	SPC	1		
2	EMERGENCY S/W	—	1		
1	LOAD LIMITER	—	1		
NO.	DESCRIPTIONS	MTL	SET/SET QTY	UNIT	TOTAL WEIGHT KG.
PROJECT					
TITLE					
KDC1T - L12 - M					
ARRANGEMENT DRAWING FOR HOIST					
DRAWN	DESIGNED	CHECKED	APPROVED	REF	DRAWING
DATE					
200					
SCALE					
A3/20 /					
SHEET NO.					
DRAWING NO.					
KDC1M1200					



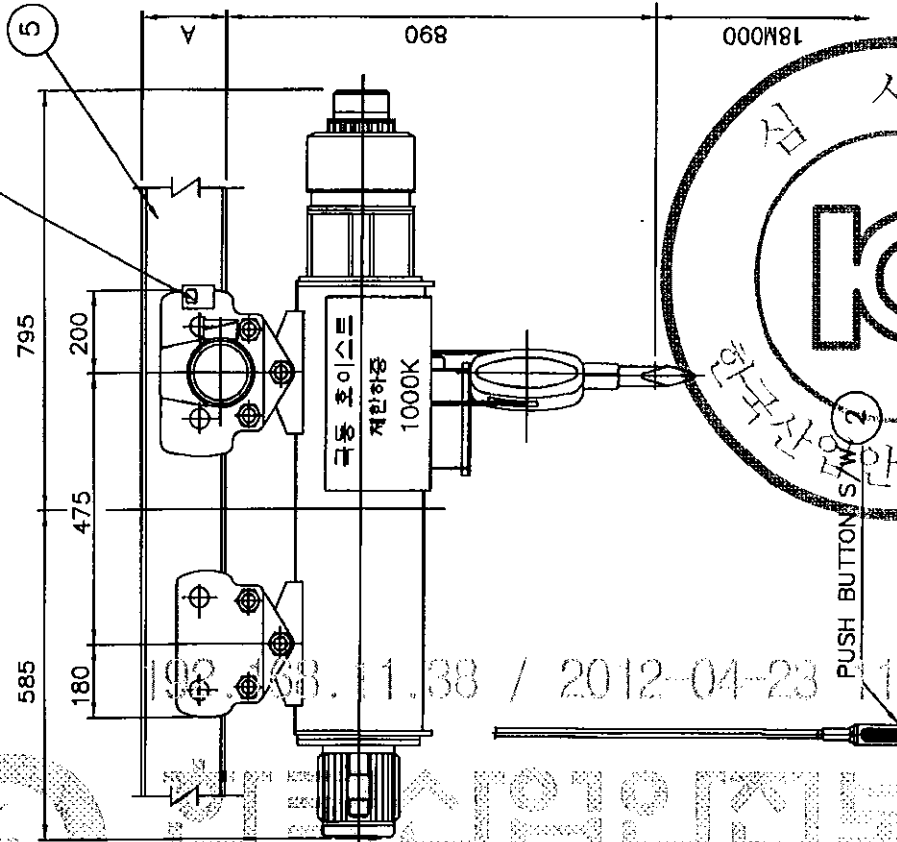
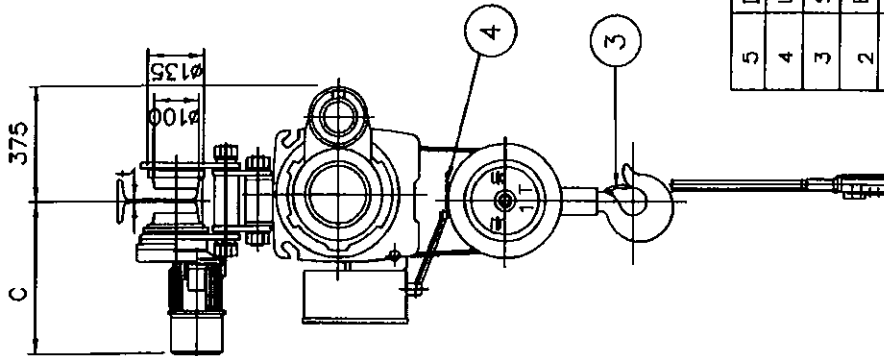
TRAVERSING I-BEAM	SUPPORT LENGTH	C
A x B x H (Cm ³)	MAX.	
I 200 x 100 x 7.5	3.9 M	395
I 250 x 125 x 7.5	6.0 M	407.5
I 300 x 150 x 10	9.3 M	420
I 350 x 150 x 9	9.6 M	420
I 400 x 150 x 10	11.5 M	420



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SPECIFICATION			
RATED LOAD	1000	KG	
TESTING LOAD	1250	KG	
LIFT	18	M	
RATING	30	MIN	
HOISTING	SPEED	12 / 1.2	M/MIN
	MOTOR	2.4 / 0.4	KW x 4 P
TRAVERSING	SPEED	HIGH	24 M/MIN
	LOW	16 M/MIN	
MOTOR	HIGH	0.4	KW x 4 P
	LOW	0.2	KW x 6 P
WIRE ROPE	(6x37) Ø8 x 2 FALLS		
POWER SOURCE	AC3Ø220(380,440,460,480)V60Hz		
COLOR	10 B 3/5		
WEIGHT	350 KG		

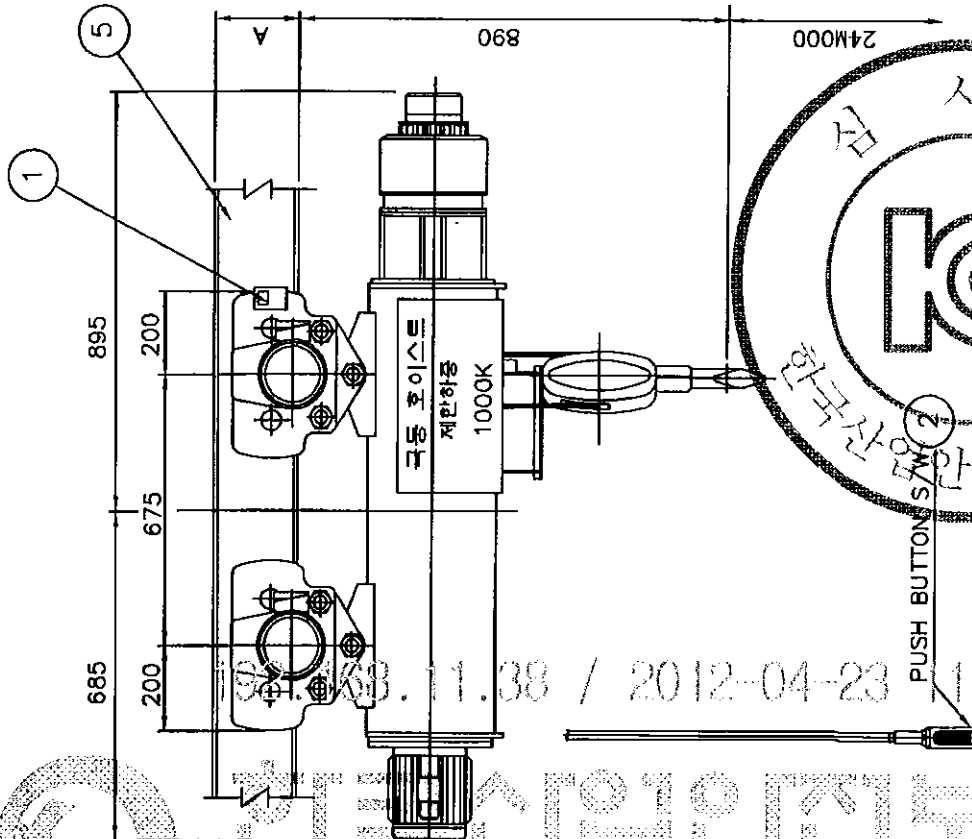
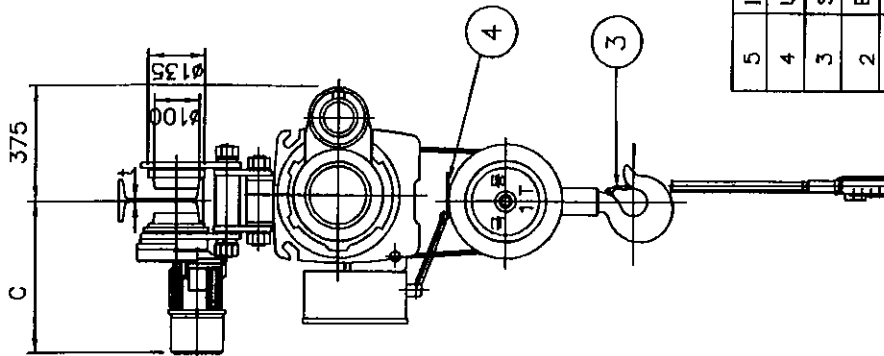


5	I-BEAM	SS400	—			TABLE 형조
4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SPC	1			
2	EMERGENCY S/W	—	1			
1	LOAD LIMITER	—	1			
NO.	DESCRIPTIONS	MTL	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS
PROJECT		DATE				
TITLE		2000 . . .				
DRAWN		SCALE				
		A3/20 /				
		REF. DRAWING				
 극동호이스트 주식회사 KUK DONG HOIST CO., LTD.		DRAWING NO.				
		SHEET NO.				
KDC1M1800						

TRAVERSING I-BEAM	SUPPORT LENGTH	C
A x B x t	MAX.	
I 200 x 100 x 7	3.9M	395
I 250 x 125 x 7.5	6.0M	407.5
I 300 x 150 x 10	9.3M	420
I 350 x 150 x 9	9.6M	420
I 400 x 150 x 10	11.5M	420



SPECIFICATION			
RATED LOAD	1000	KG	
TESTING LOAD	1250	KG	
LIFT	24	M	
RATING	30	MIN	
HOISTING	SPEED	12 / 1.2	M/MIN
	MOTOR	2.4 / 0.4	KW x 4 P
TRAVERSING	SPEED	HIGH	24 M/MIN
	LOW	16 M/MIN	
MOTOR	HIGH	0.4	KW x 4 P (2UNITS)
	LOW	0.2	KW x 6 P (2UNITS)
WIRE ROPE	(6x37) Ø8 x 2 FALLS		
POWER SOURCE	AC3Ø220(380,440,460,480)V60Hz		
COLOR	10 B 3/5		
WEIGHT	380	KG	

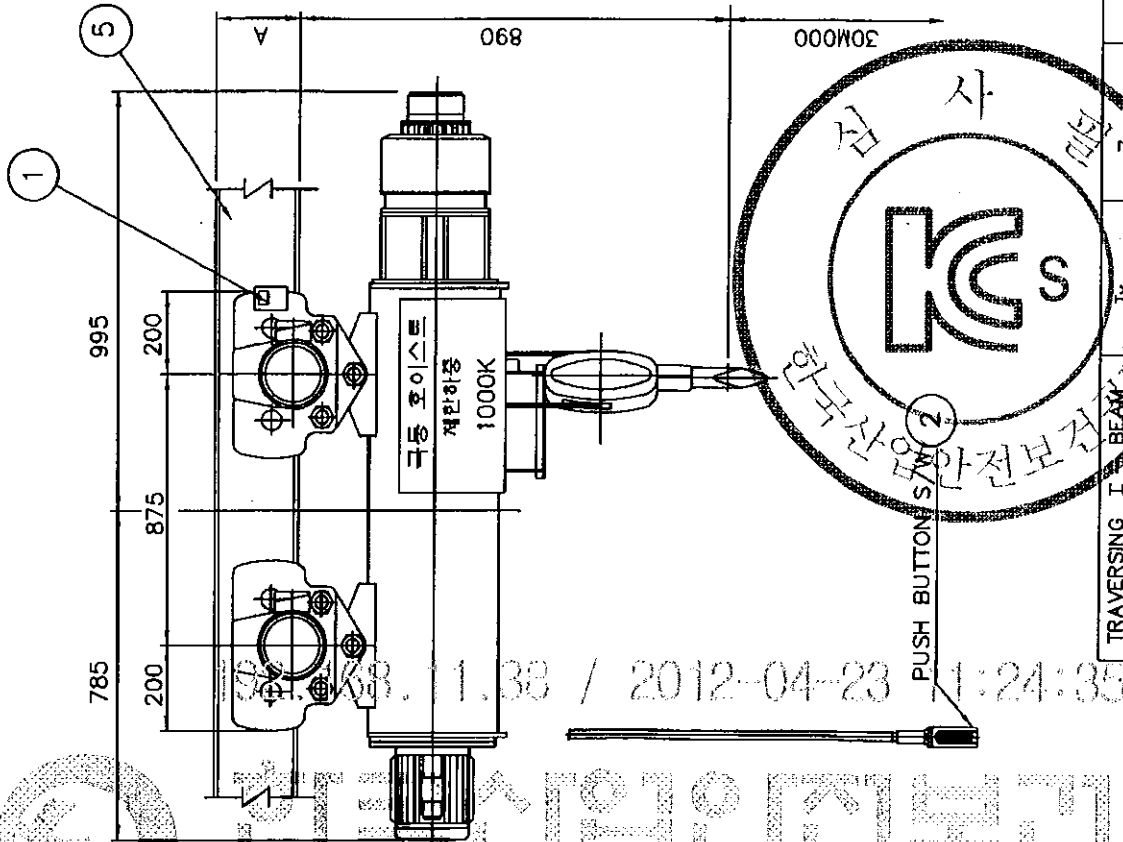
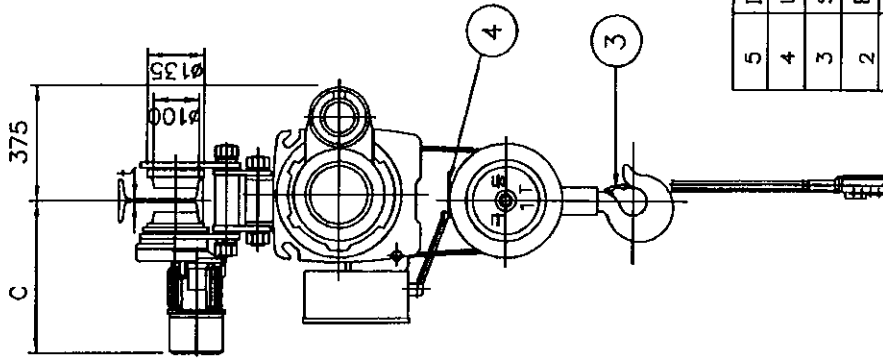


TRAVERSING I-BEAM	A x B x t	Ix (cm ⁴)	Iy (cm ⁴)	SUPPORT LENGTH	C
I 200 x 100 x 7	2170	218	395	MAX. 3.9M	395
I 250 x 125 x 7.5	5180	414	407.5	MAX. 6.0M	407.5
I 300 x 150 x 10	12700	849	420	MAX. 9.3M	420
I 350 x 150 x 9	15200	870	420	MAX. 9.6M	420
I 400 x 150 x 10	24100	1200	420	MAX. 11.5M	420

5	I-BEAM	SS400	—			TABLE 참조
4	UPPER LIMIT S/W	SS400	1			
3	SAFETY LATCH	SPC	1			
2	EMERGENCY S/W	—	1			
1	LOAD LIMITER	—	1			
NO.	DESCRIPTIONS	MTL	SET/SET QTY	UNIT	TOTAL	REMARKS
					WEIGHT KG.	
PROJECT						DATE
TITLE		KDC1T - L24 - M				SCALE
		ARRANGEMENT DRAWING FOR HOIST				A3/20 /
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING		
 극동호이스트 주식회사 KUJ DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.		
						KDC1M2400

국동호이스트 주식회사
KUK DONG HOIST CO., LTD.





SPECIFICATION				
RATED LOAD		1000 KG		
TESTING LOAD		1250 KG		
LIFT		30 M		
RATING		30 MIN		
HOISTING	SPEED	12 / 1.2 M/MIN		
	MOTOR	2.4 / 0.4 KW x 4 P		
TRAVERSING	SPEED	HIGH	24 M/MIN	
		LOW	16 M/MIN	
	MOTOR	HIGH	0.4 KW x 4 P (2UNITS)	
		LOW	0.2 KW x 6 P (2UNITS)	
WIRE ROPE		(6x37) Ø8 x 2 FALLS		
POWER SOURCE		AC3Ø220(380,440,460,480)V60Hz		
COLOR				
WEIGHT		10 B 3/5 410 KG		

5	I-BEAM	SS400	—				TABLE	형조
4	UPPER LIMIT S/W	SS400	1					
3	SAFETY LATCH	SPC	1					
2	EMERGENCY S/W	—	1					
1	LOAD LIMITER	—	1					
NO.	DESCRIPTIONS	MTL	SET QTY	UNIT	TOTAL WEIGHT KG.		REMARKS	
PROJECT						DATE		
						2000 . . .		
TITLE		KDC1T - L30 - M				SCALE		
		ARRANGEMENT DRAWING FOR HOIST				A3 / 20 /		
DRAWN	DESIGNED	CHECKED	APPROVED		REF. DRAWING			
 KDD KUK DONG HOIST CO., LTD.		SHEET NO.		DRAWING NO.				
				KDC1M3000				

TRAVERSING I BEAM	I_x (Cm^4)	Z_x (Cm^3)	SUPPORT LENGTH	C
A x B x t				
I 200 x 100 x 7	2170	218	MAX. 3.9M	395
I 250 x 125 x 7.5	5180	414	MAX. 6.0M	407.5
I 300 x 150 x 10	12700	849	MAX. 9.3M	420
I 350 x 150 x 9	15200	870	MAX. 9.6M	420
I 400 x 150 x 10	24100	1200	MAX. 11.5M	420

ELECTRICAL SYMBOL LIST

DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	SYMBOLS		DESCRIPTION	SYMBOLS		DESCRIPTION	SYMBOLS	
				MAKE	BREAK		MAKE	BREAK		MAKE	BREAK
3 PHASE SQUIRREL-CAGE ROTOR INDUCTION MOTOR		NO FUSE BREAKER 2 PHASE				MAGNETIC & RELAY CONTACTOR			PUSHBUTTON SWITCH 1-BUTTON 2-STEP TYPE		
3 PHASE WOUND ROTOR INDUCTION MOTOR		NO FUSE BREAKER 3 PHASE				ON DELAY TIME CONTACTOR			TOGGLE SWITCH OR SELECTOR SWITCH		
DC MAG. BRAKE DISK TYPE		EARTH LEAKAGE BREAKER 2 PHASE				OFF DELAY TIME CONTACTOR					
THRUSTOR 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		INVERTER UNIT				FOOT SWITCH					

[illegible]

DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS
WIRE INTERNAL TO ENCLOSURE	—	CONTROLLER OR REMOTE CONTROLLER CONTACTOR		SOLENOID COIL	
WIRE EXTERNAL TO ENCLOSURE	---	UPPER LIMIT SWITCH (LS-II)		RESISTOR	
WIRE NOT CONNECTED	+	THERMAL RELAY		VARIABLE RESISTOR	
WIRE CONNECTED		PILOT(SIGNAL) LAMP		SLIP RING	
TERMINAL		ROTARY LAMP		CABLE REEL	
GROUND (EARTH)		WARNING SIREN		SPACE HEATER	
PLUG & RECEPTACLE		BUZZER		SURGE ABSORBER	
MAGNETIC CONTACTOR COIL		AMMETER		LOAD CELL	
AUX. RELAY COIL		VOLTMETER		BALLAST WITH RECEPTACLE	
TIMER COIL		FLUORESCENCE LAMP		FAN	

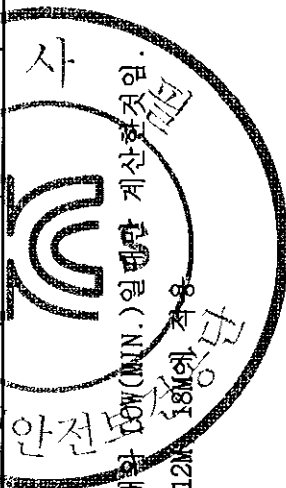
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ELECTRICAL SPECIFICATION

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

CONTROL SOURCE : AC 1 Φ 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	2.4KW x 4P 30 MIN	10.00 A	4.0 sq	5.80 A	4.0 sq	5.00 A	4.80 A	4.60 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	0.4KW x 4P 30 MIN	2.70 A	4.0 sq	1.60 A	4.0 sq	1.40 A	1.30 A	1.20 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	2.70 A	4.0 sq	1.60 A	4.0 sq	1.40 A	1.30 A	1.20 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	LOW	2.00 A	4.0 sq	1.20 A	4.0 sq	1.00 A	1.00 A	0.90 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 (PEAK LOAD)		HIGH 14.70 A	4.0 sq	9.40 A	4.0 sq	8.40 A	8.10 A	7.80 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (NORMAL LOAD)		LOW 14.00 A	4.0 sq	9.00 A	4.0 sq	8.00 A	7.80 A	7.50 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	



위 계산은 HIGH(MAX.)일때와 LOW(MIN.)일때만 계산한것임.
위 계산은 LIFT 6M, 9M, 12M에 적용

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		1st CABLE SIZE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE		
MAIN HOIST	2.4KW x 4P 30 MIN	10.00 A	4.0 sq	5.80 A	4.0 sq	5.00 A	4.0 sq	4.80 A	4.0 sq	4.60 A	4.0 sq	DC MAG. BRAKE	
CREEP HOIST	0.4KW x 4P 30 MIN	2.70 A	4.0 sq	1.60 A	4.0 sq	1.40 A	4.0 sq	1.30 A	4.0 sq	1.20 A	4.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	(2.7)*2	4.0 sq	(1.6)*2	4.0 sq	(1.4)*2	4.0 sq	(1.3)*2	4.0 sq	(1.2)*2	4.0 sq	DC MAG. BRAKE	2 DRIVE
	LOW	(2.0)*2	4.0 sq	(1.2)*2	4.0 sq	(1.0)*2	4.0 sq	(1.0)*2	4.0 sq	(0.9)*2	4.0 sq	DC MAG. BRAKE	2 DRIVE
CONTROL CIRCUIT		2 A	2.5 sq	2 A	2.5 sq	2 A	2.5 sq	2 A	2.5 sq	2 A	2.5 sq		
LIGHTING & ACCY CIRCUIT													
SUB TOTAL (PEAK LOAD)		HIGH 17.40 A	4.0 sq	11.00 A	4.0 sq	9.80 A	4.0 sq	9.40 A	4.0 sq	9.00 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (NORMAL LOAD)		LOW 16.00 A	4.0 sq	10.20 A	4.0 sq	9.00 A	4.0 sq	8.80 A	4.0 sq	8.40 A	4.0 sq	I(A)=M/H + T/S + ASS'Y	

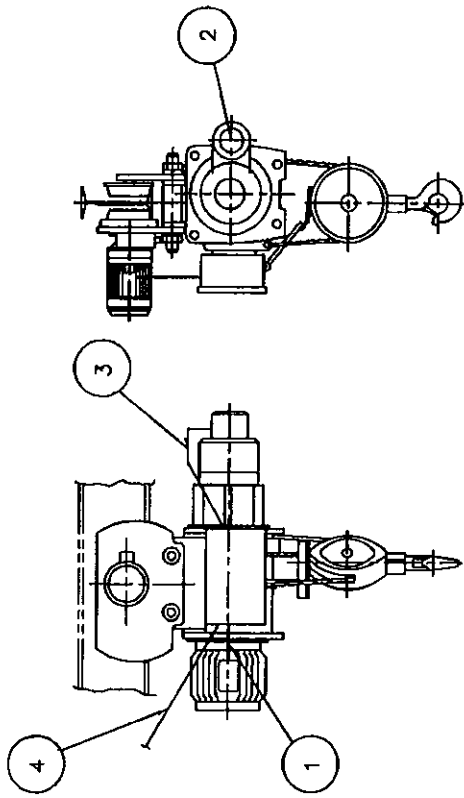


위 계산은 HIGH(MAX.)일때와 LOW(MIN.)일때를 계산한것임.

위 계산은 LIGHT 24, 30M에 적용

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ADR'S NO.																			A4

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



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

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

NO	TYPE	CABLE		REMARK
		SIZE	TYPE	
1	VCT	220V	4.0sq	HOISTING MOTOR WITH EARTH
2	VCT	4.0sq	4.0sq	HOISTING MOTOR WITH EARTH
3	VCT	4.0sq	4.0sq	HOISTING MOTOR WITH EARTH
4	VFCT	4.0sq	4.0sq	MAIN POWER WITH EARTH

동전위점지

1. 전기장비와 기계의 노출된 모든 도전부는 보호분당회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호분당회로에는 기폐기, 과전류보호장치가 부착되지 않아야 함.

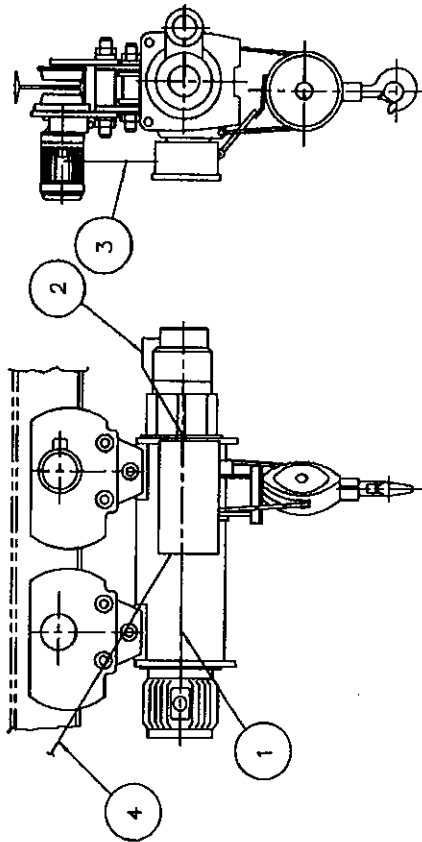
시험대상 전선의 최소 유효단면적	최고전압강하(V)
1.0	3.3
1.5	2.6
2.5	1.6
4.0	1.4
>6.0	1.0

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.			
KDC					NONE					
KDC 21TON		KDC HOISTS 주식회사		DWG. NO	KDC1M-E234					
CABLE 사양		KUK DONG HOIST CO., LTD.								
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.																			A4

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



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

*3중 전선용 AC 1000 이하 (AC 3PH 400V 미만)
*4중 전선용 AC 100 이하 (AC 3PH 400V 이상)

동전위점지

1. 전기장비와 기계의 노출된 모든 도선부는 보호관로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호관로에 연결되는 기계기, 과전류보호장치가 부착되지 않아야 함.

NO	TYPE	CABLE		REMARK
		SIZE	TYPE	
1	VCT	220V 4.0sq	4.0sq VCT	HOISTING MOTOR WITH EARTH
2	VCT	4.0sq	4.0sq VCT	DRUM MOTOR WITH EARTH
3	VCT	4.0sq	4.0sq VCT	T/S MOTOR WITH EARTH
4	VFCT	4.0sq	4.0sq VFCT	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

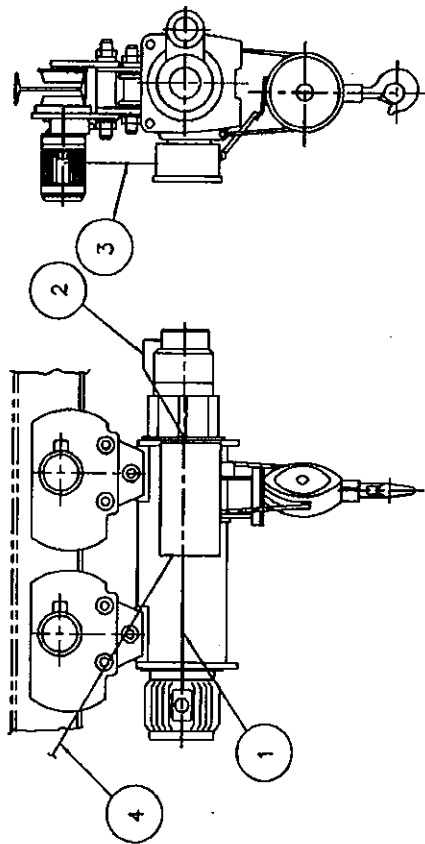
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KDC 2TON						
CABLE 사양						
KDC1M-E234						

192.168.11.38 / 2012-04-23

192.168.11.38 / 2012-04-23 11:24:35

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ADRS NO.																			A4

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



본 도면은 EARTH를 명기하지 않은 도면으로서
실제 배치와 다를 수 있으며 HOIST 본체의
EARTH용 CABLE은 REFERENCE임

*3중 접지중사 1000 이하 (AC 3PH 400V이상)
*4중 접지중사 100 이하 (AC 3PH 400V이상)

동전위장치

1. 전기장비와 기계의 노출된 모든 도전부는 보호접지선에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호접지선에는 기계기, 과전류보호장치가 부착되지 않아야 한다.

NO	CABLE		REMARK
	SIZE	TYPE	
1	220V	4.0sq VCT	HOISTING MOTOR WITH EARTH
2	4.0sq	4.0sq VCT	HOISTING MOTOR WITH EARTH
3	4.0sq	4.0sq VCT	TYE MOTOR WITH EARTH
4	4.0sq	4.0sq VCT	MAIN POWER WITH EARTH

시험대상 전선의 외소 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	HOIST POWER SOURCE WITH EARTH	VCT 4.0SQ x 1C
6	HOISTING MOTOR WITH EARTH	VCT 4.0SQ x 1C
7	CREEP MOTOR WITH EARTH	VCT 4.0SQ x 1C
8	TRAVERSING MOTOR WITH EARTH	VCT 4.0SQ x 1C

• CV CABLE 40mm 1C는 EARTH로 사용됨.

- NOTE -

1. 전동기 외동, 케이블의 연결은 모든 끝자
에 그 끝자 지점인
400V 미만 : 100mm 이상이어야 함.(3중 경
400V 이상 : 100mm 이상이어야 함.(3중 경)
2. MAIN S/W BOX는 3중 경지 요.

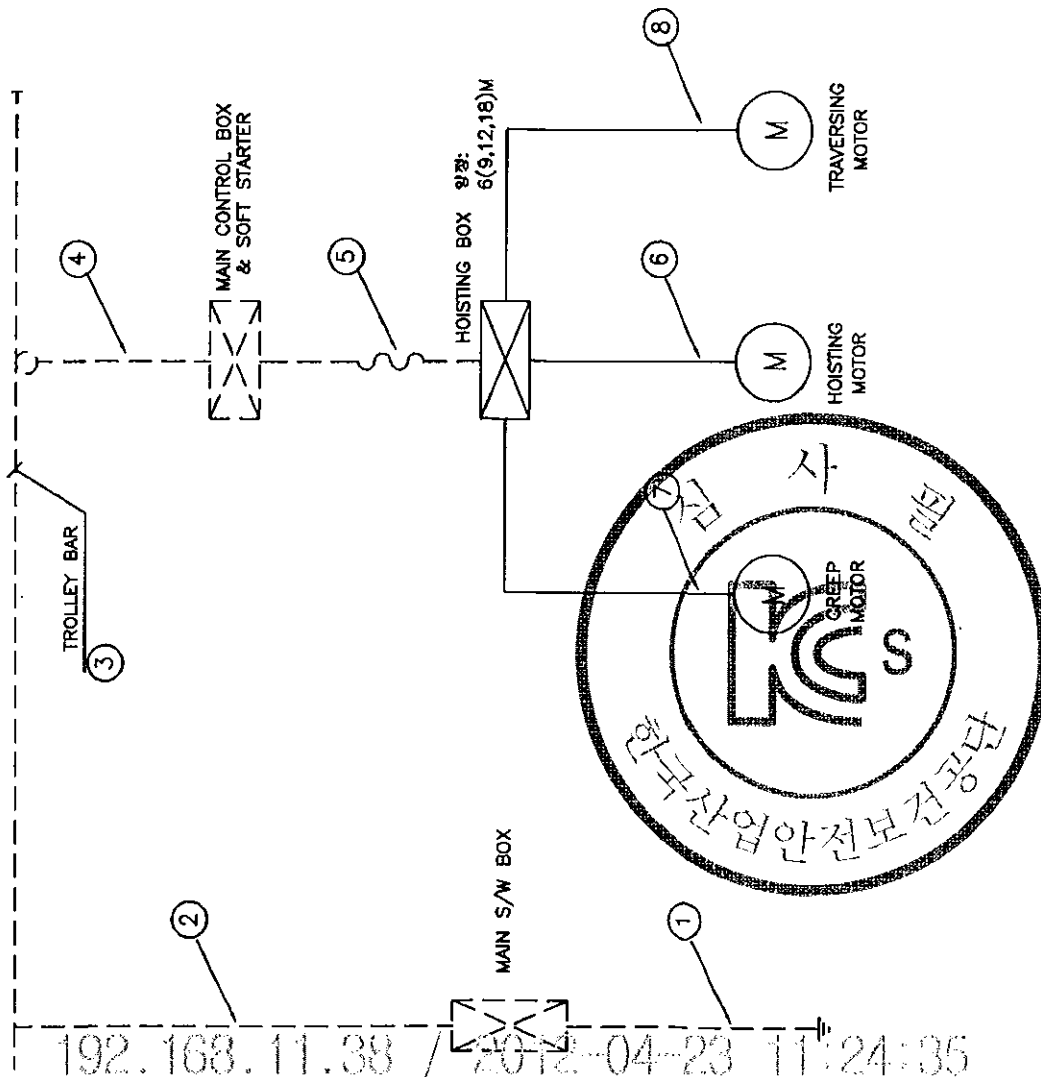
동작원리

1. 전기장비의 기계적 노출된 모든 도선부는 보호관장피복에 연결되어야 하며
적절한 접지연속성 기능이 유지되어야 함.
2. 보호관장피복에는 개폐기, 과전류보호장치가 부착되지 않아야 함.

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

--- USER SCOPE

--- KUKDONG SCOPE



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

- NOTE -

1. 전동기 외함, 제어반용 프래임 등은 전동기
여 그 장치 지행은

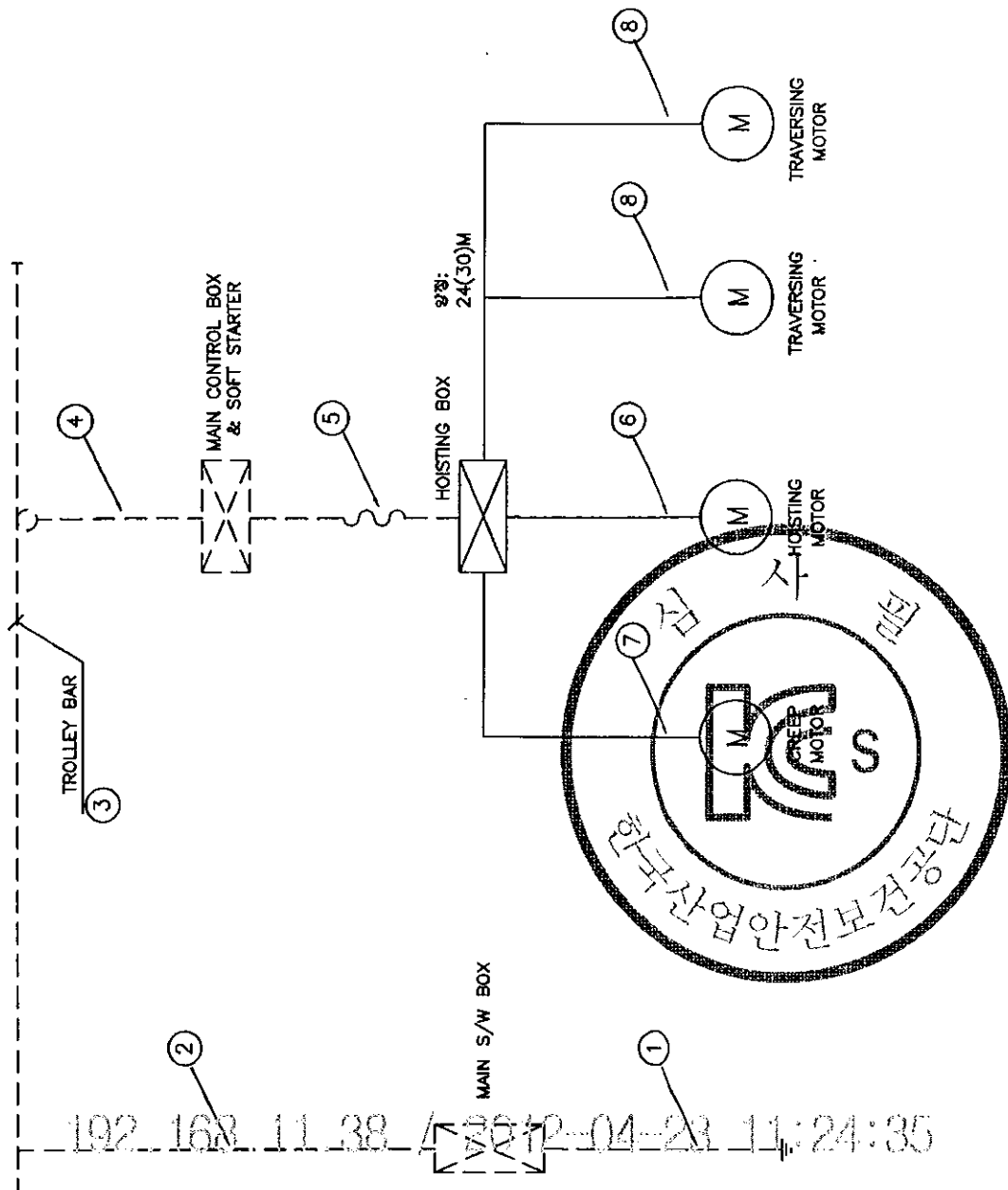
400V 미만 : 100도음 이하일것.(3층 전
400V 이상 : 10도음 이하일것.(벽 3층전지)

2.MAIN S/W BOX는 3층 설치 모.

1. 전기장내의 기체의 노출량에 따른 전극부에서 발생하는 열전압이 커져
열전압 전압배상 기법이 유효치이함.

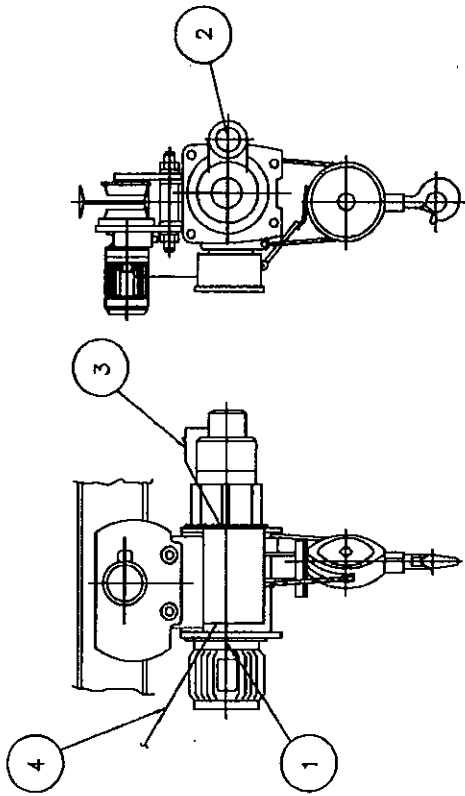
시험대상 환자의 폐소 유무(연령)	3.3
1.0	2.6
1.5	1.6
2.5	1.4
4.0	1.0
>6.0	

KUKDONG SCOPE

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
																			ADR'S NO.
																			A4

* MAIN POWER : AC 3PH 220V,380V,440V,480V,500V 60Hz (LIFT 6,9,12,18,24,30M)



ELECTRIC WIRE ROPE HOIST	
MODEL	RATING
CAPACITY	kg
HOIST SPEED	m/min
HOIST MOTOR	kw
TRAVEL SPEED	m/min
TRAVEL MOTOR	kw
WIDTH OF RAIL	mm
DATE	

KUKDONG HOIST CO., LTD

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

KUKDONG HOIST CO., LTD

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

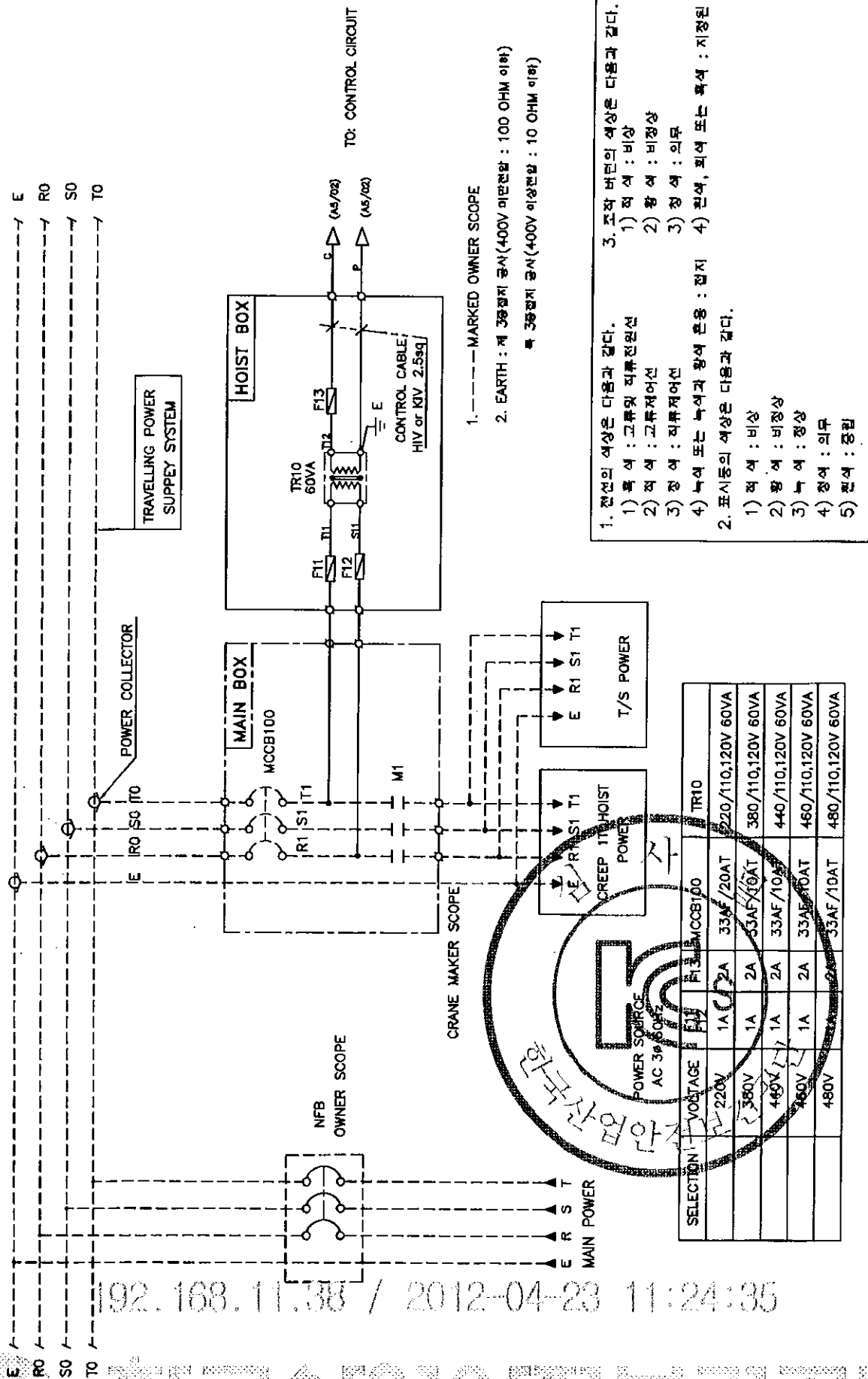
KUKDONG HOIST CO., LTD

CUSTOMER		DRAWING		TITLE	
		KDC 2TON		CABLE 48	
REVISIONS		CHK. APP.			
DATE		DATE		DATE	
SCALE		APPROVED		ORDER NO.	
NONE					
DWG. NO		KDC1M-E234			

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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																			
TRAVELLING POWER SUPPLY SYSTEM																			
ADR'S NO.																			A1



1. --- MARKED OWNER SCOPE
2. EARTH : 제 3종접지 공사(400V 미만전압 : 100 OHM 이하)
제 3종접지 공사(400V 이상전압 : 10 OHM 이하)

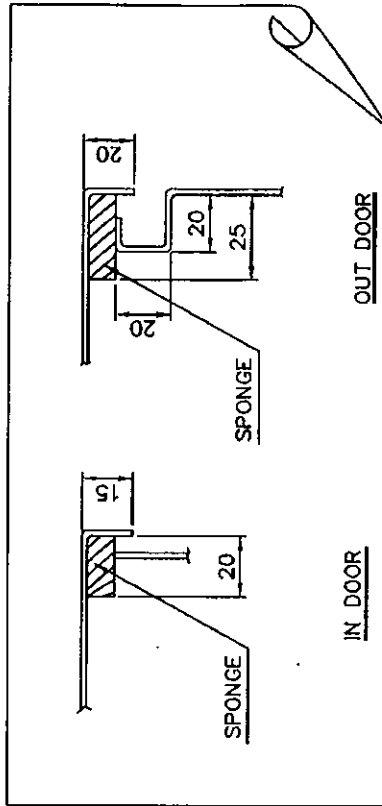
1. 전선의 색상은 다음과 같다.
- 1) 흑 색 : 교류 및 직류전원선
 - 2) 적 색 : 교류제어선
 - 3) 청 색 : 직류제어선
 - 4) 녹색 또는 녹색과 황색 혼용 : 접지
 - 5) 흰색, 회색 또는 흑색 : 지정된 의미없음
2. 표시등의 색상은 다음과 같다.
- 1) 적 색 : 비상
 - 2) 황 색 : 비정상
 - 3) 녹색 : 정상
 - 4) 청 색 : 외부
 - 5) 흰색 : 중립
3. 조작 버튼의 색상은 다음과 같다.
- 1) 적 색 : 비상
 - 2) 황 색 : 비정상
 - 3) 청 색 : 외부
 - 4) 흰색, 회색 또는 흑색 : 지정된 의미없음

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
MAIN POWER CIRCUIT 1					NONE		
DIAGRAM		KUK DONG HOIST CO., LTD.					KDC01E001
DATE	REVISIONS	CHK.	APP.				

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

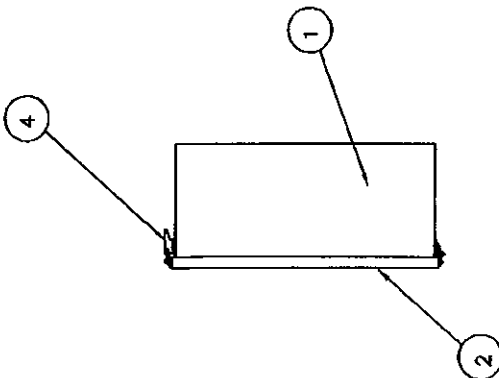
5. 제어용 전선 : 2.5sq KIV, HIV

6. 외함 개방 구조는 다음과 같다.

1) 외함 개방시 중전 부분이 차단되도록 한다.

2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의

직접 접촉 방호가 되어있을것.



SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR		OUT DOOR		REMARK
			B	A	B	L	
1 TON	NORMAL	320 150 640 320	320	150	150	660	
			320	150	150	660	

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						KDC01EB00
HOISTING CONTROL BOX LAY-OUT						
DATE	REVISIONS	CHK.	APP.			

NOTE
1. 전산회계시스템 도입을 한다.

(1) ॥ ॐ नमो भगवते वासुदेवाय ॥

2) **ଅନୁ : ଗୁପ୍ତସଂଗ୍ରହ**

3) 주창사 : 외부 환경에서 공급되는 수요에

(4) ॥ अथ भक्त्या यथा शक्यं कर्तव्यम् ॥

2. CABLE MATERIAL : — KIV OR EQUIVALENT

MIN SIZE : 2.5sq

3. 제어용 전선 : 2.5mm KIV

4. 제2차 다수 변경 될수있음.

5. 9월 21일

1) 외환 기반기능이 충분부분이 차단되도록 함.

2) 외함 기판후 충전되어있는 부본은 P2X 이상의 직접 접착 방호가 되어있을것.

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
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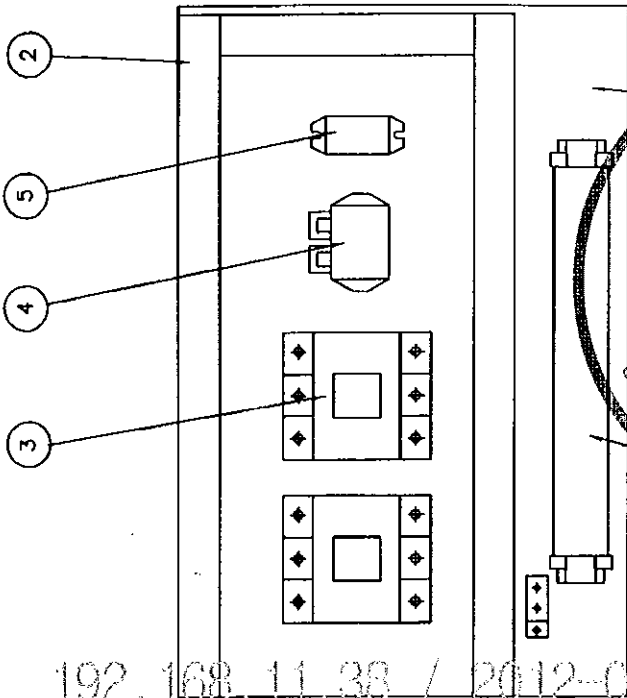
CREEP HOIST CONTROL BOX

ARRANGEMENT DRAWING

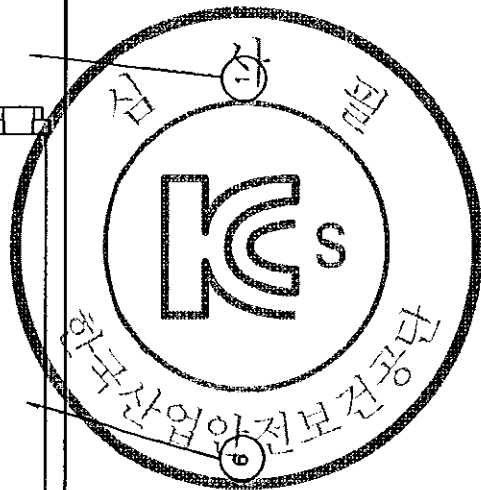
KDC1BA21

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



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



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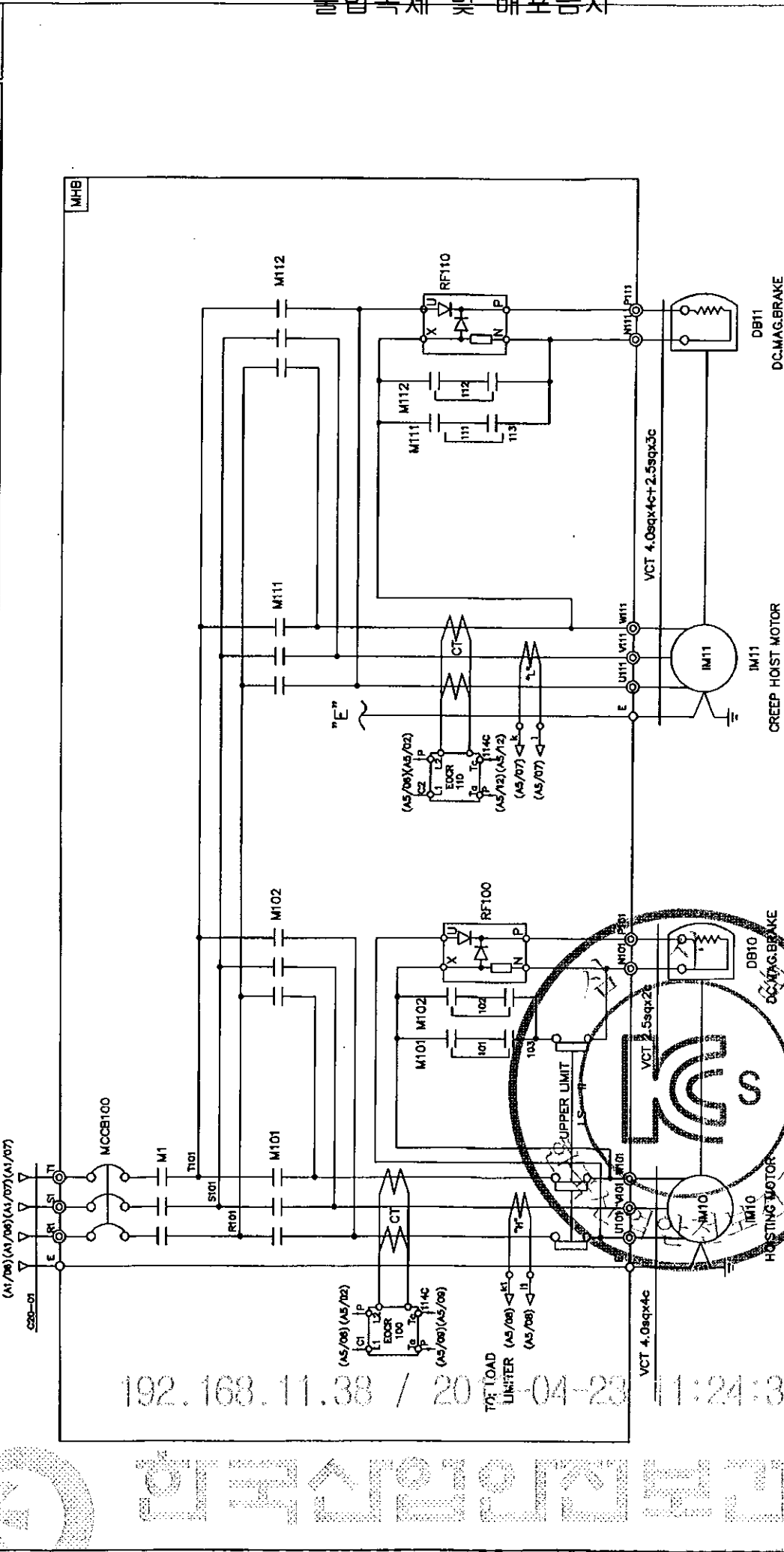
한국산업안전보건공단



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DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
TRAVERSING POWER CONTROL BOX					NONE		
ARRANGEMENT DRAWING							
KID		각동호이스트 주식회사			DWG. NO	KDC1bt22	
		KUK DONG HOIST CO., LTD.					
MK	DATE	REVISIONS	CHK.	APP.			

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

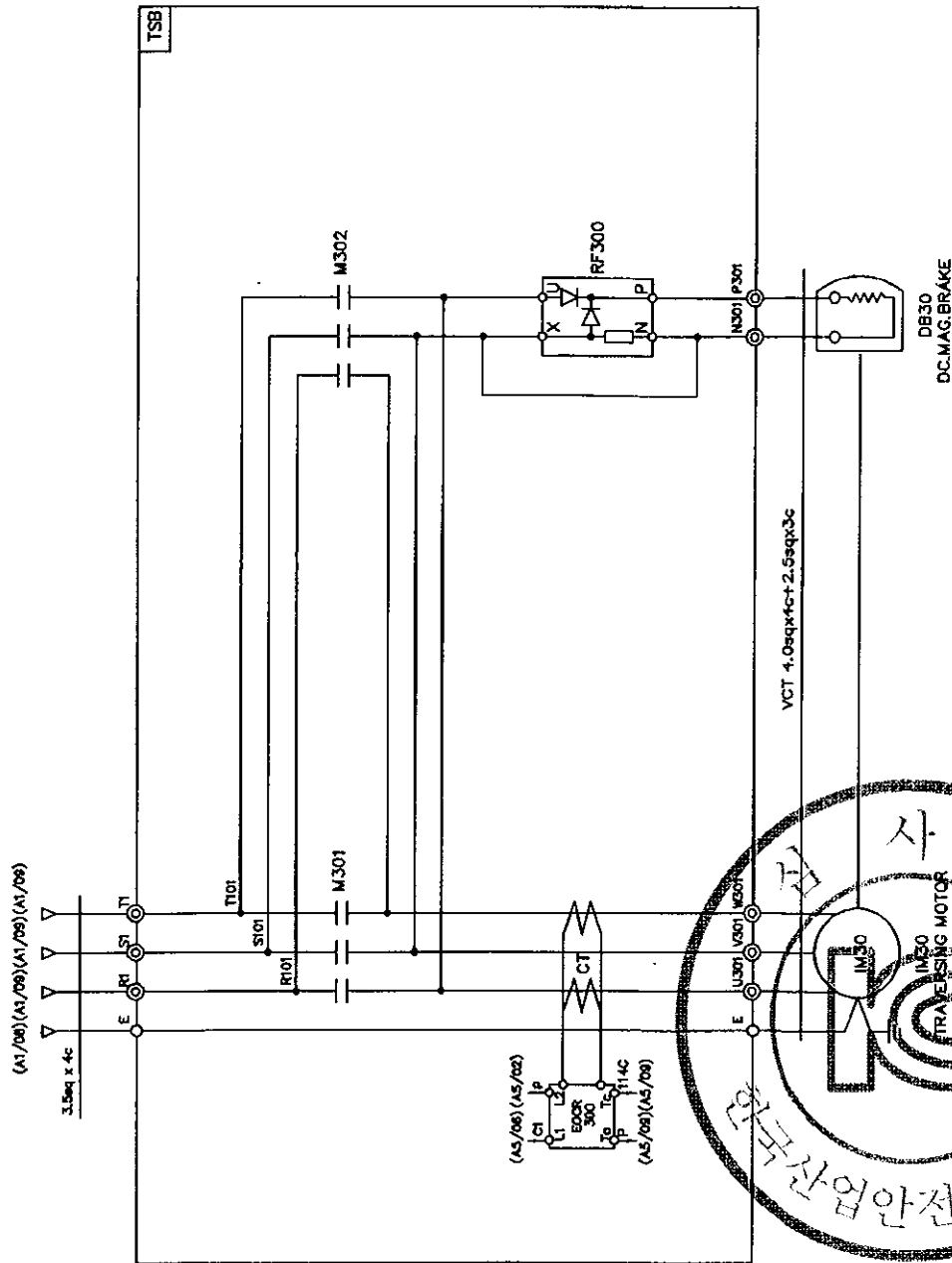


SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	DC MAG. BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
DESCRIPTION	1TON AC3PH 220V 60Hz	IM 10	DB10, 11	TR 1	F1, F2, F13	M1	M101, M102	LS-I, LS-II	EOCR100	RF100	RF110	C20-01
SELECTION	2.4KWx4P	IM 10	ABE-33AF/20A	220V/200V/200V/60VA	1A	2A	DMC22C	AC 600V 75A	SS-30	SS-05	SR-30	JD-100
MAKER	KUK DONG	KUK DONG	LS	SHINHAN	-	-	DONG-A	KUK DONG	ASAN	JUNGHQ	DONGIL	DONGIL
CUSTOMER												
DRAWING TITLE	CREEP HOISTING POWER & CONTROL											
REVISIONS												
DATE												
CHK.												
APP.												
DWG. NO.	KDC01E21											

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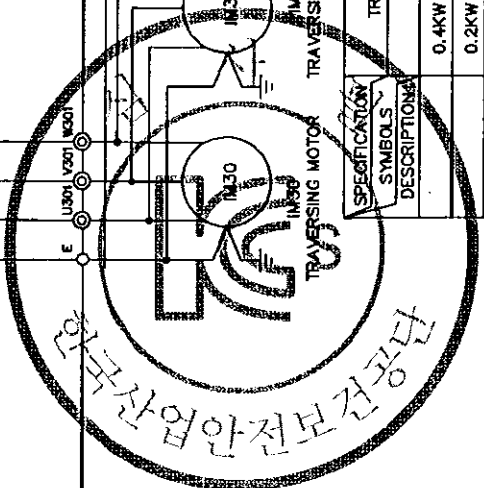
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			ADR'S NO.
TRAVERSING MOTION																			CI

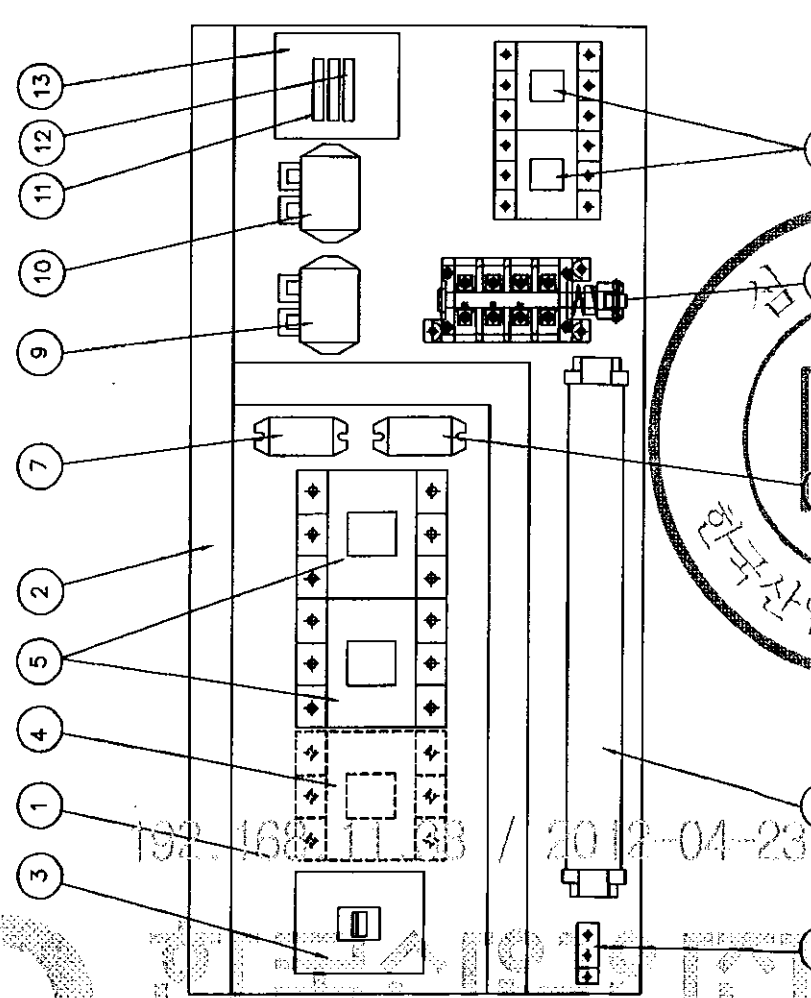


SPECIFICATION		SYMBOLS		DESCRIPTIONS		DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
TRAVERSING MOTOR		IM 30		0.4KW x 4P AC 3PH 220V 60Hz		DC MAG. BRAKE		DB 30		DC 100V		MAGNET CONTACTOR		M301, M302		EOCR 300		LIMIT SWITCH	
SELECTION		KUKOONG		0.2KW x 8P AC 3PH 220V 60Hz		DC 100V		DC 100V		DC 100V		DMC22C		SS-05		SS-05		HY - W904	
DRAWING		KUKOONG		KUKOONG		DONG-A		DONG-A		DONG-A		DONG-A		DONG-A		DONG-A		DONG-A	
CUSTOMER		KUKOONG		KUKOONG		KUKOONG		KUKOONG		KUKOONG		KUKOONG		KUKOONG		KUKOONG		KUKOONG	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT	
REVISIONS		REV. 1		REV. 1		REV. 1		REV. 1		REV. 1		REV. 1		REV. 1		REV. 1		REV. 1	
DATE		2012-04-23		2012-04-23		2012-04-23		2012-04-23		2012-04-23		2012-04-23		2012-04-23		2012-04-23		2012-04-23	
CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.		CHK. APP.	
DWG. NO.		KDC01E23		KDC01E23		KDC01E23		KDC01E23		KDC01E23		KDC01E23		KDC01E23		KDC01E23		KDC01E23	

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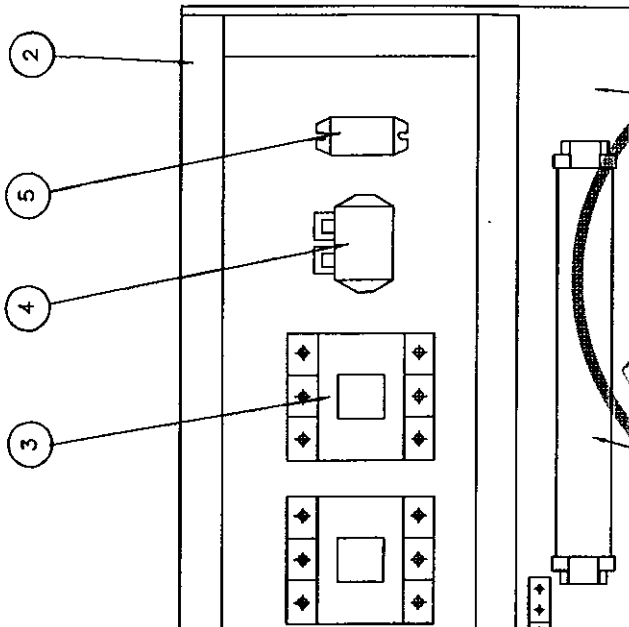
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[illegible]

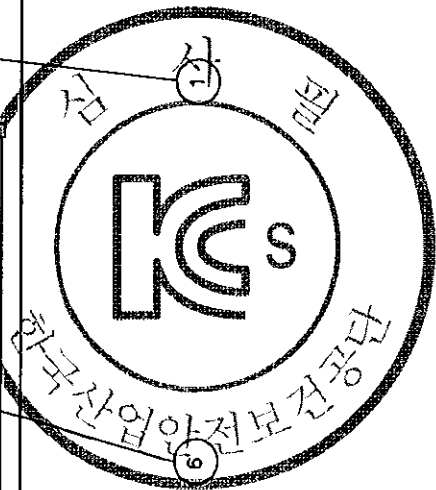
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ADR'S NO.																			
192.168.11.38 / 2012-04-23 11:24:35																			
																			
사 한국산업안전연구원 1. UPPER LIMIT LS-1, LS-2의 점원 하중을 감지하여 2. POWER SOURCE AC 3φ 380V 60Hz 3. EARTH TERMINAL RESISTANCE : 0.018Ω NOTE 1. 전선의 색상은 다음과 같다. 1) 흑색 : 교류 및 직류 전원선 2) 적색 : 교류제어선 3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로 4) 녹색 또는 녹색과 황색 혼용 : 접지선 2. CABLE MATERIAL : KIV OR EQUIVALENT MIN SIZE : 2.5sq 3. 제어용 전선 : 2.5mm KIV, HIV 4. 제지시 다소 변경 될수있음. 5. 외함 개방구조는 다음과 같음것. 1) 외함 개방시 충전부분이 차단되도록 함것. 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 차폐 철속 방호가 되어있음것.																			
																			
CREEP HOIST CONTROL BOX																			
ARRANGEMENT DRAWING																			
DWG. NO																			
KDC1BA31																			
ORDER NO.																			
DATE																			
SCALE																			
NONE																			
APPROVED																			
CHECKED																			
DESIGN																			
DRAWING																			
CUSTOMER																			
DRAWING TITLE																			
REVISIONS																			
CHK. APP.																			
DATE																			
MK																			

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
DRAWING TITLE	CUSTOMER	REVISIONS	CHK.	APP.	DWG. NO	KDC1BA31
CREEP HOIST CONTROL BOX						
ARRANGEMENT DRAWING						

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



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



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한국산업안전보건공단



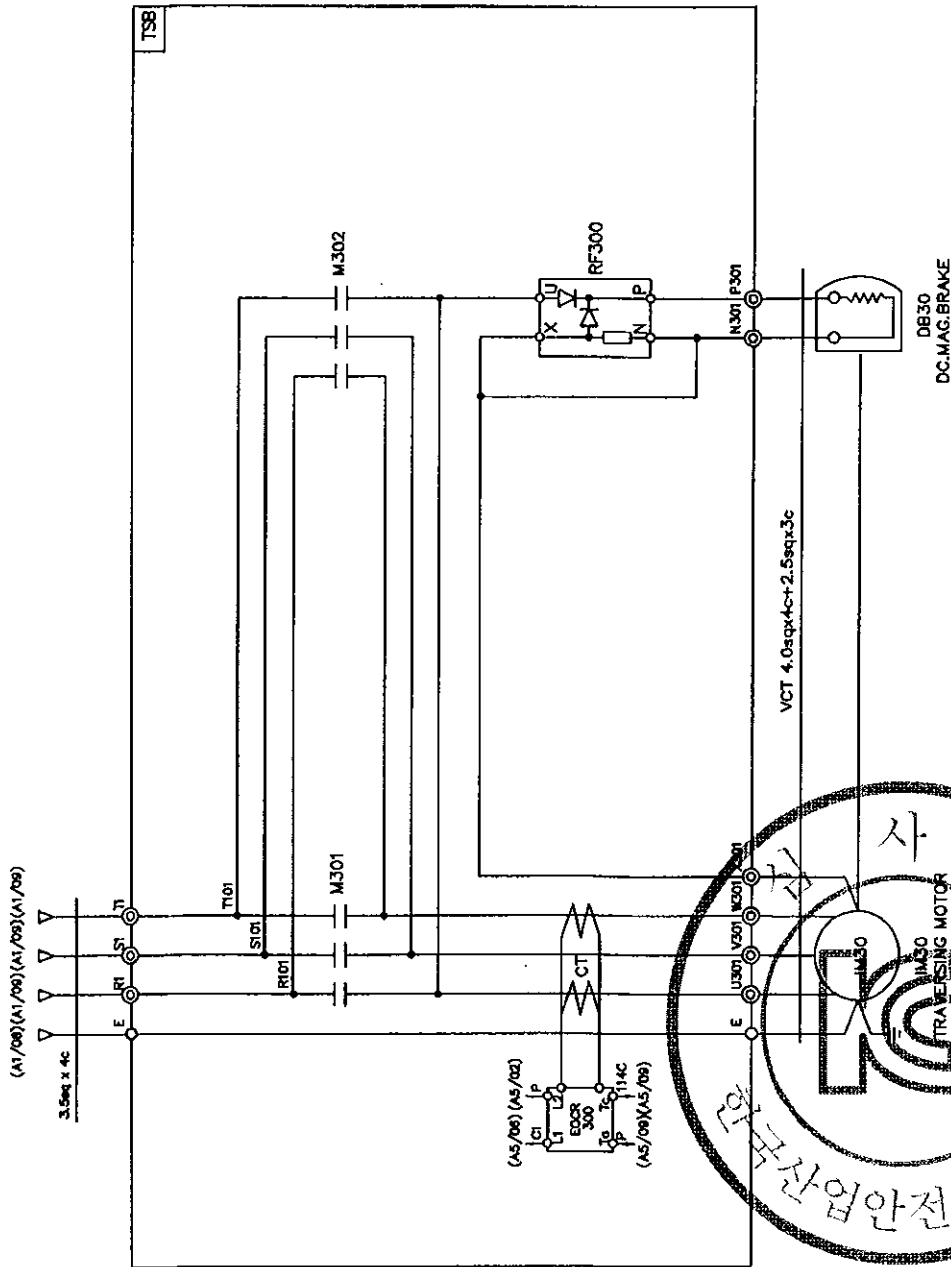
192.168.11.38 / 2012-04-23 11:24:35

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 국동호이스트 주식회사 KUK DONG HOIST CO., LTD.						KDCtbt32
TRAVERSING POWER CONTROL BOX ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS	CHK.	APP.				
DATE						

KDC01E31

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.	
HOISTING MOTION										CREEP HOIST MOTION										81	

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																			C1

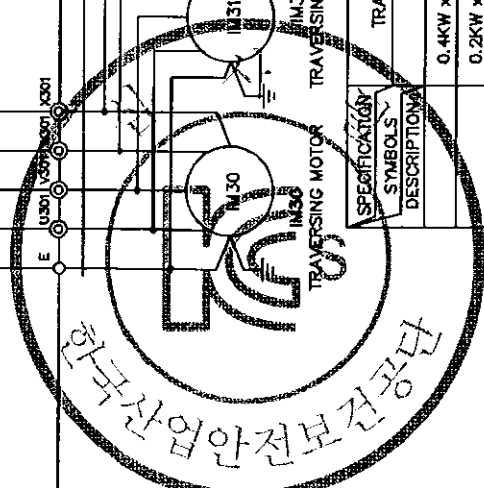


SPECIFICATION		TRAVERSING MOTOR	DC MAG. BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWITCH
SYMBOLS		IM 30	DB 30	M301, M302	RF 300	EOCR 300	LS-301, LS-302
DESCRIPTIONS		0.4KW x 4P AC 3PH 380V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - W904
SELECTION		0.2KW x 6P AC 3PH 380V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - W904
MAKER		KUKDONG		DONG-A		ASAN	
CUSTOMER							
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT					
REVISIONS		DIAGRAM					
DATE		DWG. NO					
CHK. APP.		KDC01E33					
ORDER NO.							

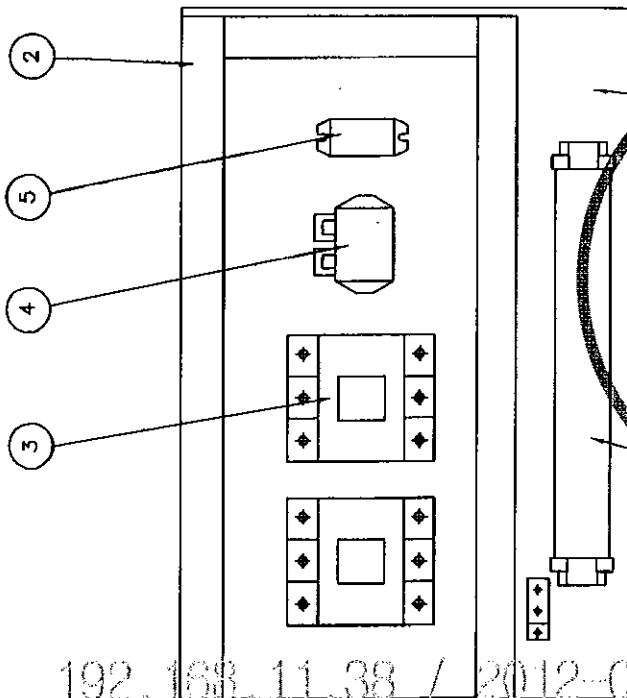
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한국산업안전보건공단

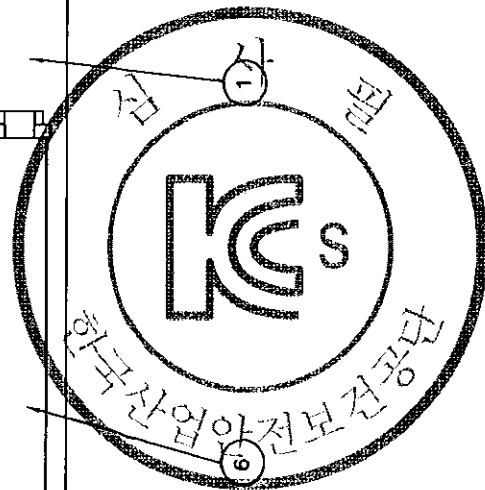
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ADR'S NO.																			

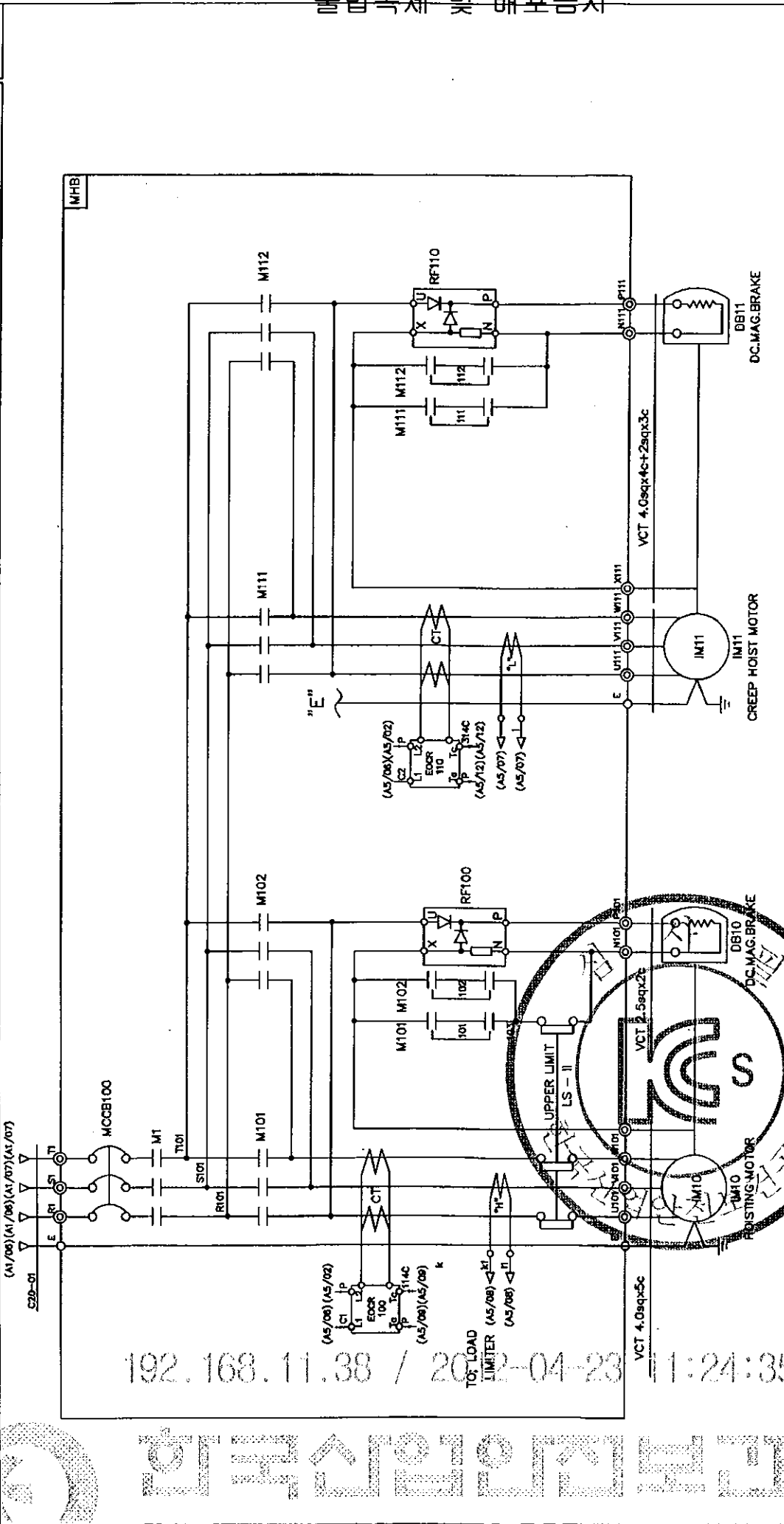


NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	CHASSIS PLATE	-	1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACTOR	DMC22C	2	TRAVERSING
4	E.O.C.R	SS-05	1	TRAVERSING
5	SILICON RECTIFIER	SR-30	1	TRAVERSING
6	TERMINAL BLOCK	25A , 15A	1	TRAVERSING



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.						
TRAVERSING POWER CONTROL BOX												
ARRANGEMENT DRAWING												
KCS												
한국호이스트 주식회사												
KUK DONG HOIST CO., LTD.												
DWG. NO												
KDC1bt42												

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT										CREEP HOIST MOTION									
HOISTING MOTION										CREEP HOIST MOTION									
C20-01										B1									

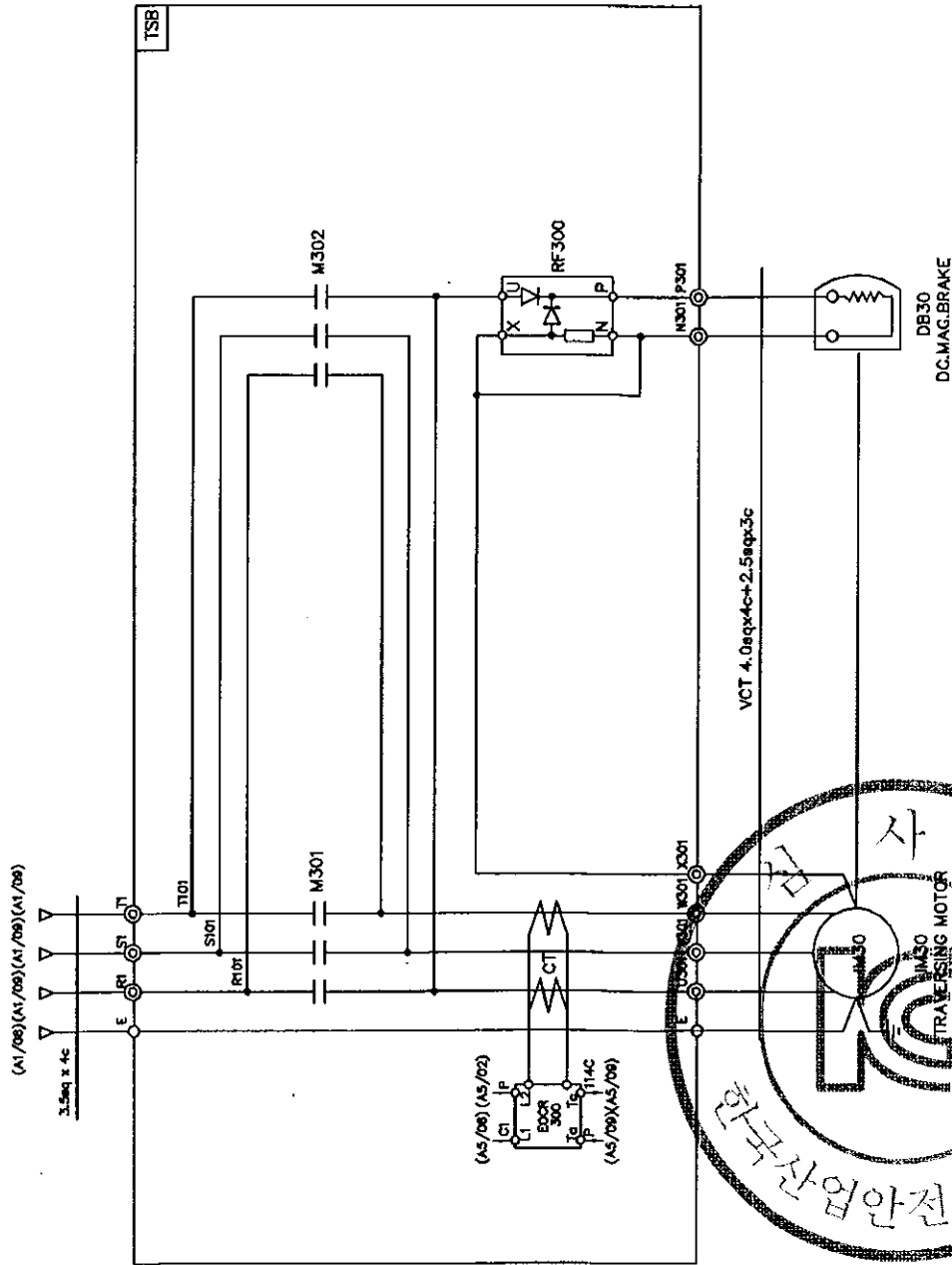


SPECIFICATION SYMBOLS	DESCRIPTION	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST	HOISTING POWER	HOIST
DESCRIPTION	1TON AC 3PH 440V 60Hz	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P	2.4KW x 4P
SELECTION	MAKER	KUKDONG	LS	SHINHAN	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C	DMC22C
UPPER LIMIT	LS-II	M111, M112	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II	LS-I, LS-II
ELECTRIC OVER CURRENT RELAY	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100	RF100
LOAD LIMITER	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01
CABLE	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01	C20-01
DATE	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23	2012-04-23
REVISIONS	CHK	APP	CHK	APP	CHK	APP	CHK	APP	CHK	APP	CHK	APP	CHK	APP	CHK	APP	CHK	APP	CHK
DWG. NO	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41	KDC01E41

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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																			C1

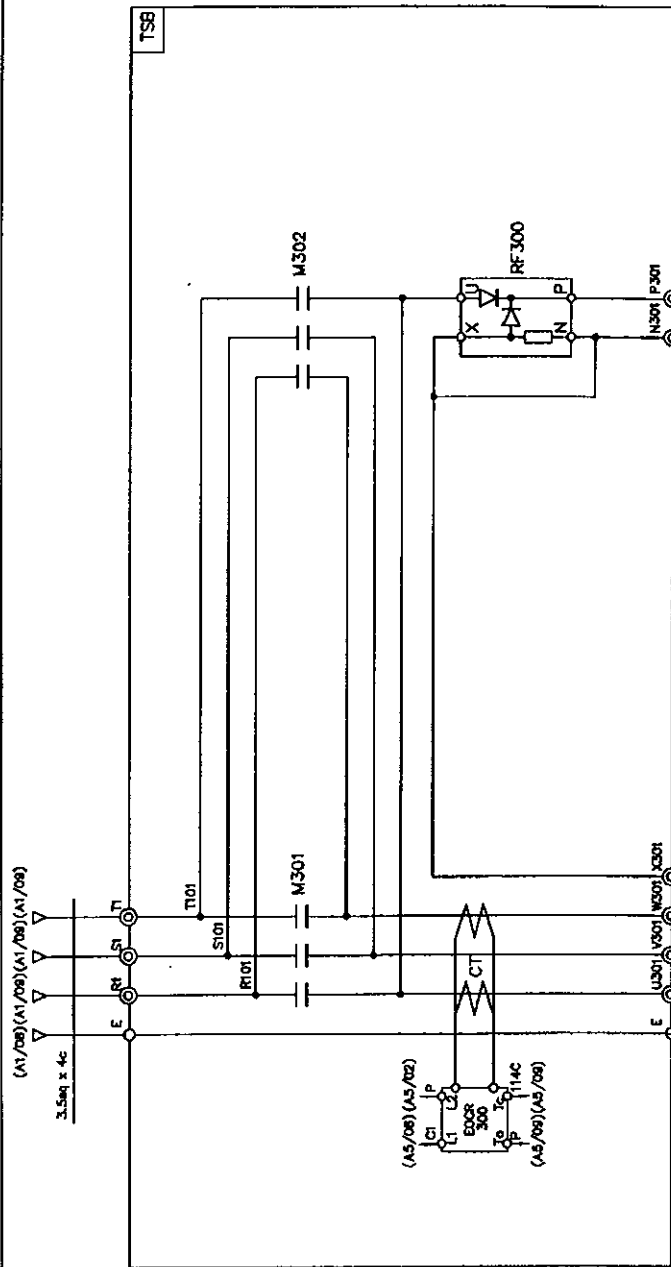


SPECIFICATION		SYMBOLS		DESCRIPTION		TRAVERSING MOTOR		DC MAG. BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		LIMIT SWITCH	
IM 30		DB 30		DC 100V		DC 100V		DC 100V		M301, M302		RF 300		EOCR 300		LS-301, LS-302	
0.4KW x 4P AC 3PH 440V 60Hz		DB 30		DC 100V		DC 100V		DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-05		HY - W904	
0.2KW x 6P AC 3PH 440V 60Hz		DB 30		DC 100V		DC 100V		DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-05		HY - W904	
440V		DB 30		DC 100V		DC 100V		DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-05		HY - W904	
KUKKOONG		KUKKOONG		KUKKOONG		KUKKOONG		KUKKOONG		KUKKOONG		KUKKOONG		KUKKOONG		KUKKOONG	
CUSTOMER		CUSTOMER		CUSTOMER		CUSTOMER		CUSTOMER		CUSTOMER		CUSTOMER		CUSTOMER		CUSTOMER	
DRAWING TITLE		DRAWING TITLE		DRAWING TITLE		DRAWING TITLE		DRAWING TITLE		DRAWING TITLE		DRAWING TITLE		DRAWING TITLE		DRAWING TITLE	
TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT		TRAVERSING POWER CONTROL CIRCUIT	
DIAGRAM		DIAGRAM		DIAGRAM		DIAGRAM		DIAGRAM		DIAGRAM		DIAGRAM		DIAGRAM		DIAGRAM	
DWG. NO		DWG. NO		DWG. NO		DWG. NO		DWG. NO		DWG. NO		DWG. NO		DWG. NO		DWG. NO	
KDC01E43		KDC01E43		KDC01E43		KDC01E43		KDC01E43		KDC01E43		KDC01E43		KDC01E43		KDC01E43	

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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

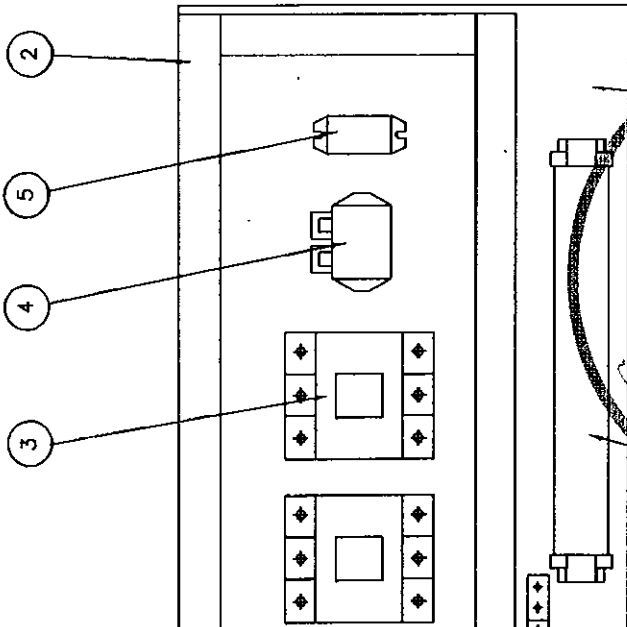


SPECIFICATION		TRAVERSING MOTOR	DC MAG. BRAKE	MAGNET CONTACTOR	SILICON RECTIFIER	ELECTRIC OVER CURRENT RELAY	LIMIT SWITCH
SYMBOLS		IM 30, 1M31	DB 30	M301, M302	RF 300	EOCR 300	LS-301, LS-302
DESCRIPTION		0.4KW x 4P AC 3PH 440V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - W904
SELECTION		0.2KW x 6P AC 3PH 440V 60Hz	DC 100V	DMC22C	SR-30 AC 220V/DC 100V	SS-05	HY - W904
MAKER		KUKDONG	DONG-A	ASAN	ASAN	ASAN	ASAN
CUSTOMER							
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT					
REVISIONS		DIAGRAM					
DATE		DWG. NO					
MK		KDC01E44					
DATE		ORDER NO.					
REVISIONS		DATE					
DATE		SCALE					
REVISIONS		NONE					
DATE		KDC01E44					

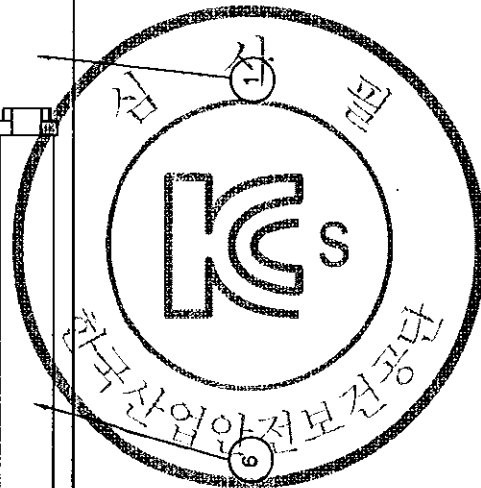
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
																			ADR'S NO.



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

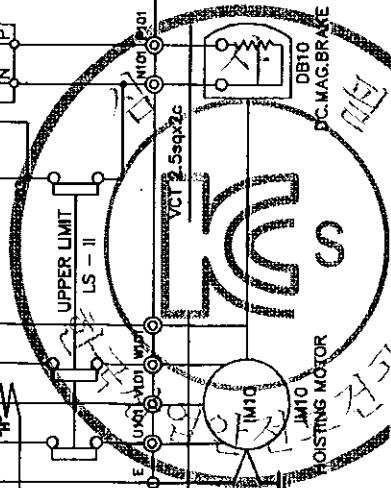


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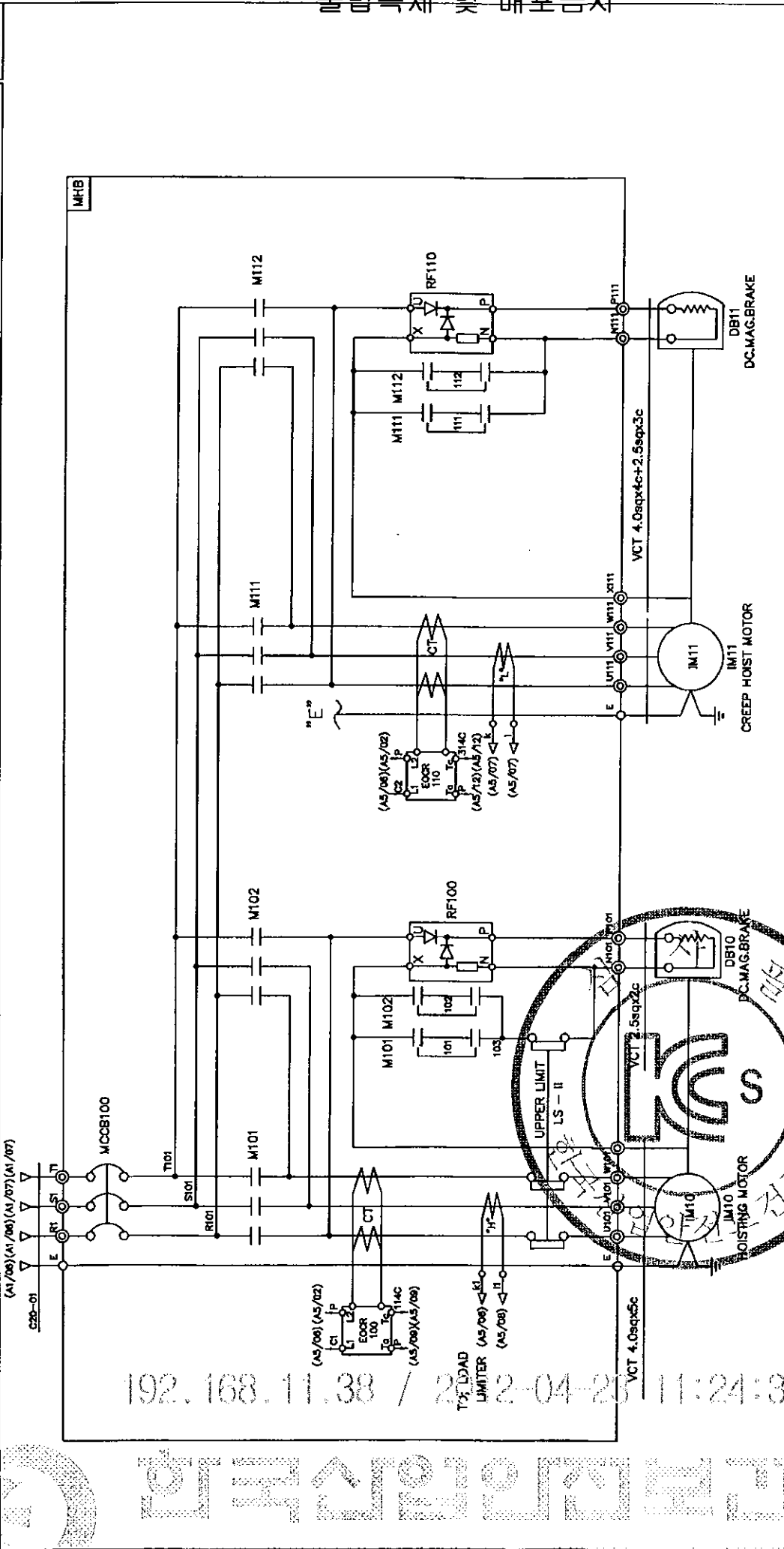
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DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
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KCS KUK DONG HOIST CO., LTD.						KDC1bt52
TRAVERSING POWER CONTROL BOX						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
DATE						
CHK. APP.						



[illegible]

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



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE	
	HOIST	IM 10	DB10-11	MCCB100	TR 1	F11,F12	M101,M102	LS-I, LS-II	EOCR100	RF100	LOAD LIMITER	C20-01	
	DESCRIPTION												
	1TON AC 3PH 460V 60Hz	2.4KW 240V 30A	DC 100V	ABE-33AF/10A	460/110V/120V/60VA	1A	2A	DMC22C	DMC22C	AC 600V 75A	SS-30	SR-30	JDL-100
SELECTION													
MAKER	KUKDONG			DONG-A	SHIN/AN	-	DONG-A	KUKDONG	ASAN		JUNGHO	DONGIL	
DATE	REVISIONS	CHK	APP.	CUSTOMER		DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
CREEP HOISTING POWER CONTROL CIRCUIT													
DRAWING TITLE													
DIAGRAM													
				DWG. NO									KDC01E52

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[illegible]

NOTE

1. 전선의 색상은 다음과 같다.
- 1) 흑색 : 교류 및 직류 전원선
- 2) 적색 : 교류제어선
- 3) 파랑색 : 외부 전원에서 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 다소 변경 될수있음.

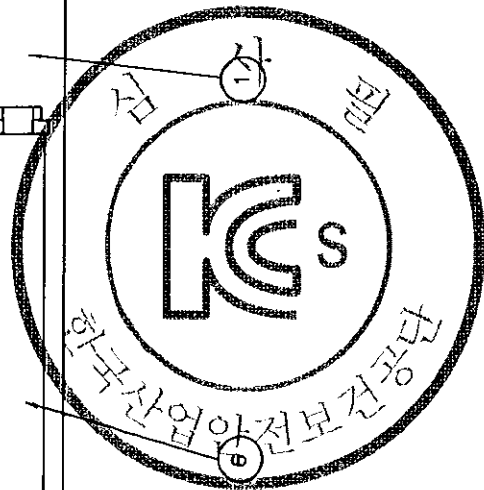
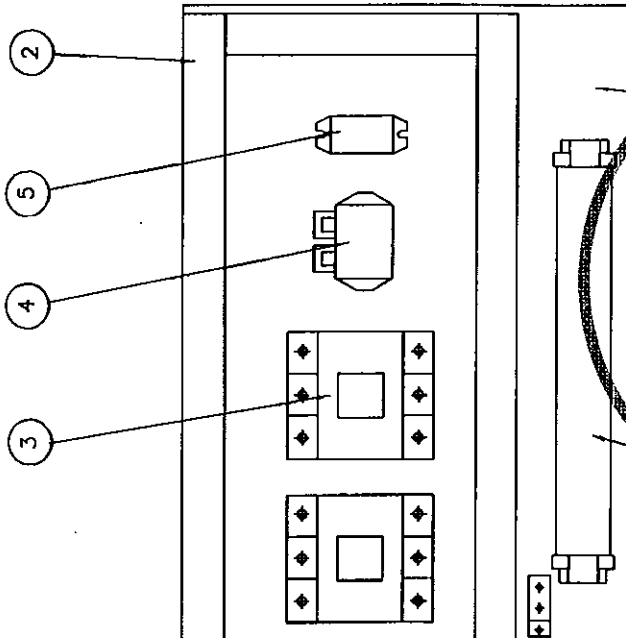
5. 외함 기방구조는 다음과 같을것.

- 1) 외함 기방시 충전부분이 차단되도록 할것.
- 2) 외함 기방후 충전되어있는 부분은 IP2X 이상의 차단 정도가 되어있을것.

[illegible]

20.
ADR'S NO.

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



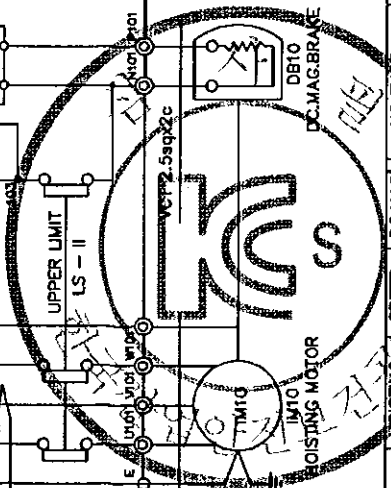
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한국산업안전보건공단

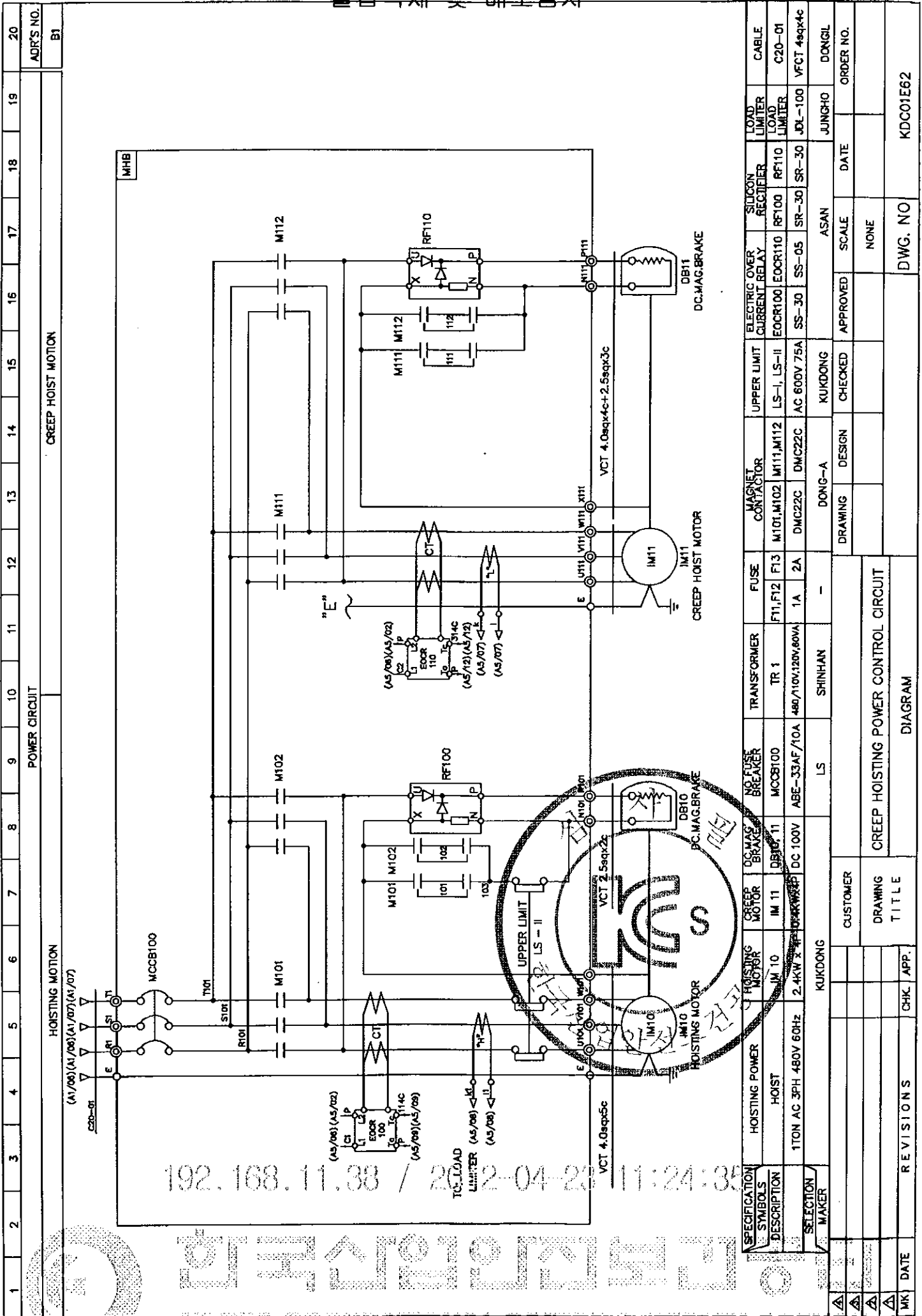


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DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
 KID KUK DONG HOIST CO., LTD.						KDC1bt62
TRAVERSING POWER CONTROL BOX						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
CHK.	APP.					
REVISIONS						
DATE						



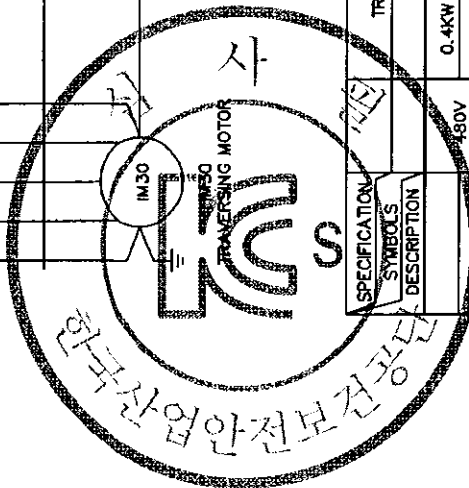
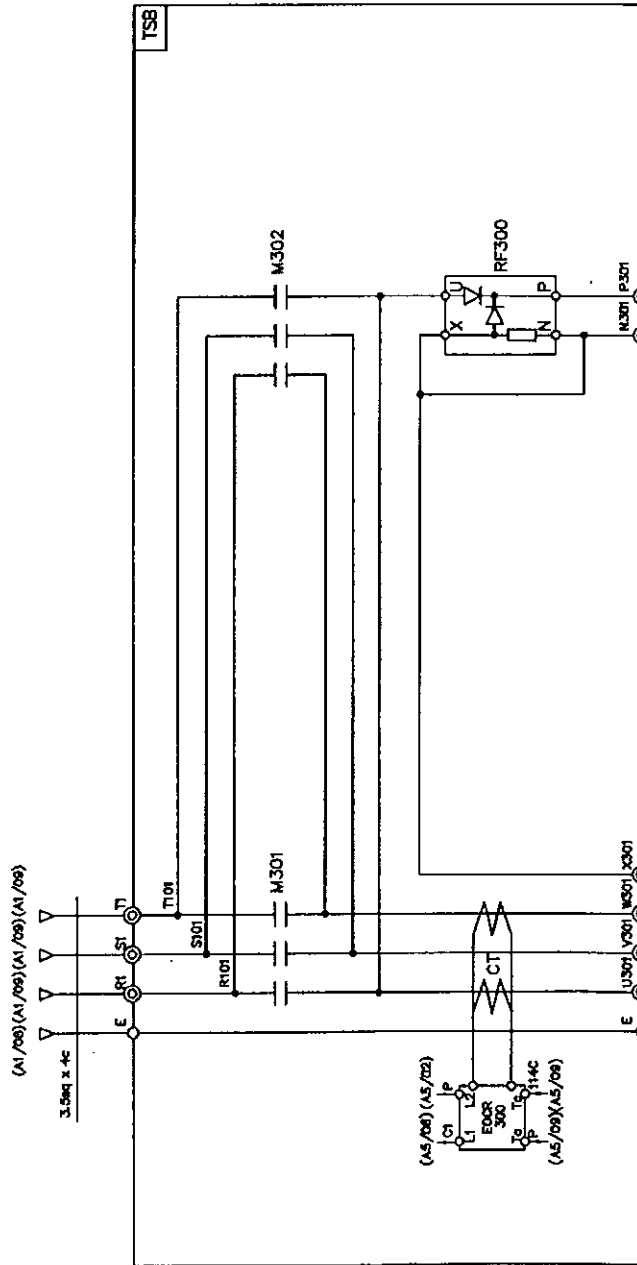
SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	CREEP MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
	HOIST	IM 100	IM 11	DB10, 11	MCB100	TR 1	F11,F12	M1	M101,M102	LS-I, LS-II	SS-30	ECOR110	RF110	C20-01
DESCRIPTION	1TON AC 3PH 480V 60Hz													
SELECTION	1TON AC 3PH 480V 60Hz		IM 100		DC 180V		ABE-33AF/10A		480/110V/20VA/80VA		1A, 2A		DMC22C	
	KUKDONG		LS		SHINHAN		-		DONG-A		KUKDONG		ASAN	
MAKER	KUKDONG		LS		SHINHAN		-		DONG-A		KUKDONG		JUNGHO	
	KUKDONG		LS		SHINHAN		-		DONG-A		KUKDONG		JUNGHO	
DATE	CUSTOMER		CREEP HOISTING POWER CONTROL CIRCUIT											
	DRAWING TITLE		CREEP HOISTING POWER CONTROL CIRCUIT											
REVISIONS	CHK. APP.		KUKDONG HOIST CO., LTD.											
	DWG. NO.		KDC01E61											



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



SPECIFICATION		SYMBOLS		DESCRIPTION		DC MAG. BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		LIMIT SWITCH	
TRAVERSING MOTOR		IM 30		0.4KW x 4P AC 3PH 480V 60Hz		DB 30		M301, M302		RF 300		EOCR 300		LS-301, LS-302	
TRAVERSING MOTOR		IM 30		0.2KW x 6P AC 3PH 480V 60Hz		DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-05		HY - W904	
TRAVERSING MOTOR		IM 30		0.2KW x 6P AC 3PH 480V 60Hz		DC 100V		DMC22C		SR-30 AC 220V/DC 100V		SS-05		HY - W904	
SELECTION		KUKDONG						DONG-A		ASAN					
CUSTOMER															
DRAWING															
TITLE															
REVISIONS															
DATE															
CHK															
APP															
DWG. NO															
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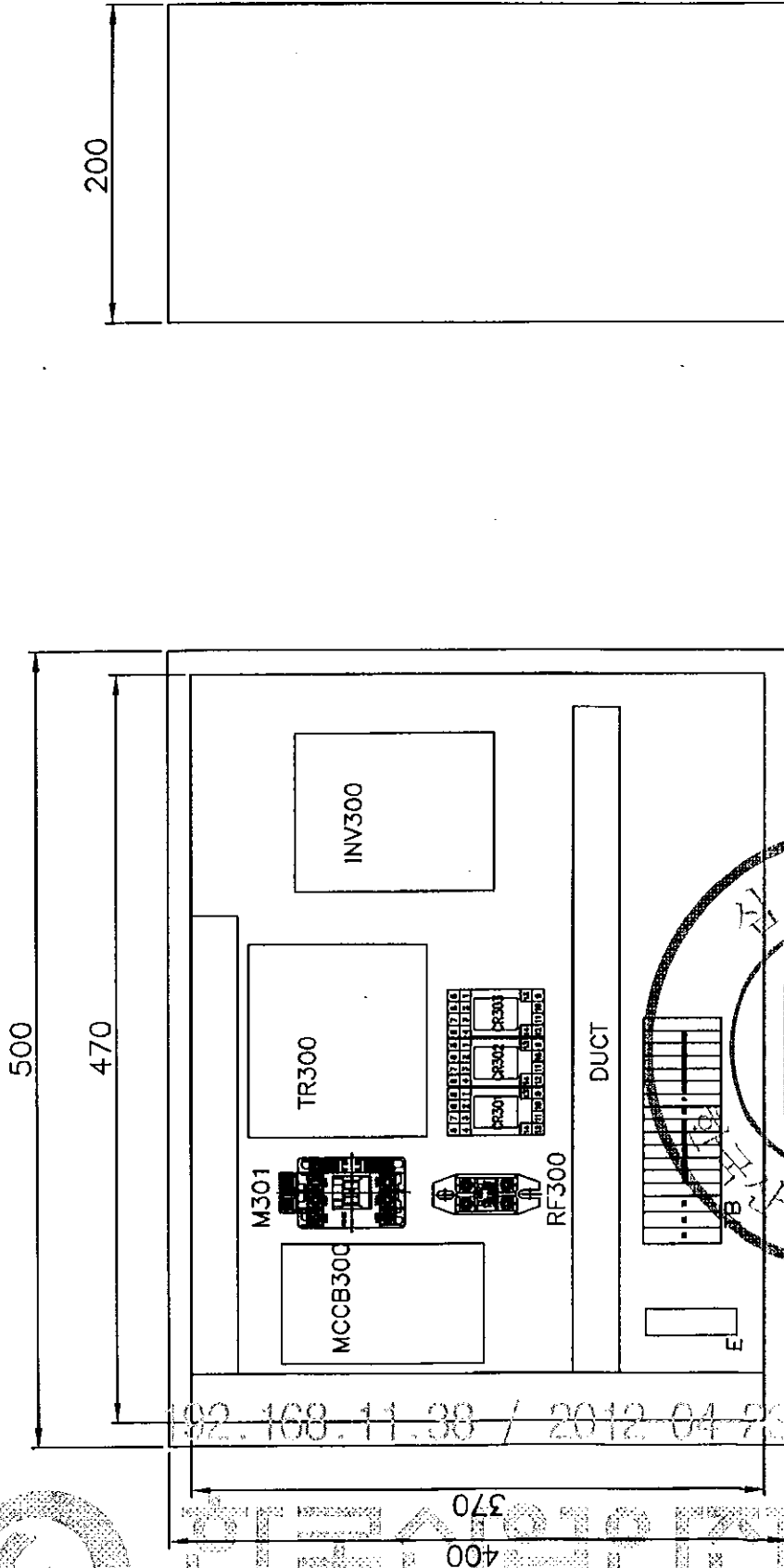
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ADR'S NO. C2																																																							
POWER CIRCUIT																																																							
TRAVERSING MOTION																																																							
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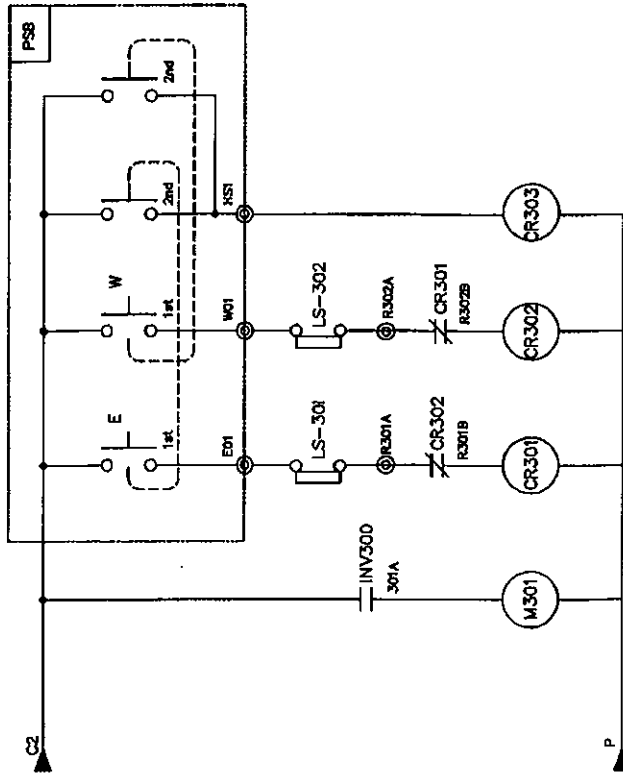
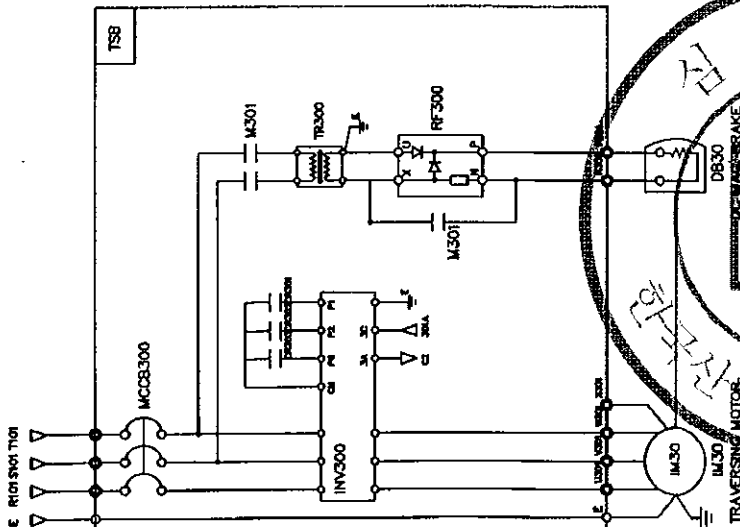
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			QTY		WEIGHT(Kg)							
PROJECT		DATE			DIM							
					mm							
TITLE		I/S CONTROL PANEL(INVERTER)			SCALE							
					A3/3		3rd					
DRAWN	DESIGNED	CHECKED	APPROVED	REF. DRAWING								
 KUK DONG HOIST CO., LTD.		KUK DONG HOIST CO., LTD.		SHEET No.		DWG No.		KD1E1001				

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

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TRAVERSING MOTION										CONTROL CIRCUIT DIAGRAM									
POWER CIRCUIT DIAGRAM										BRAKE EAST WEST HIGH SPEED									
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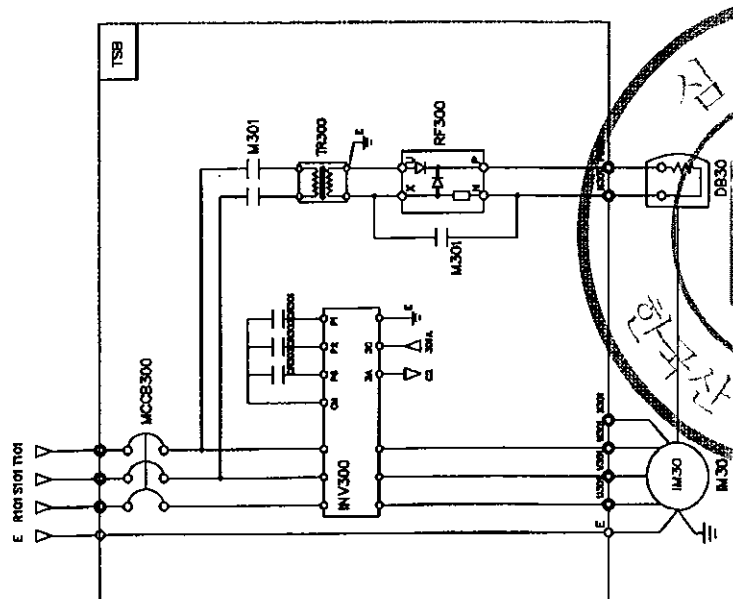
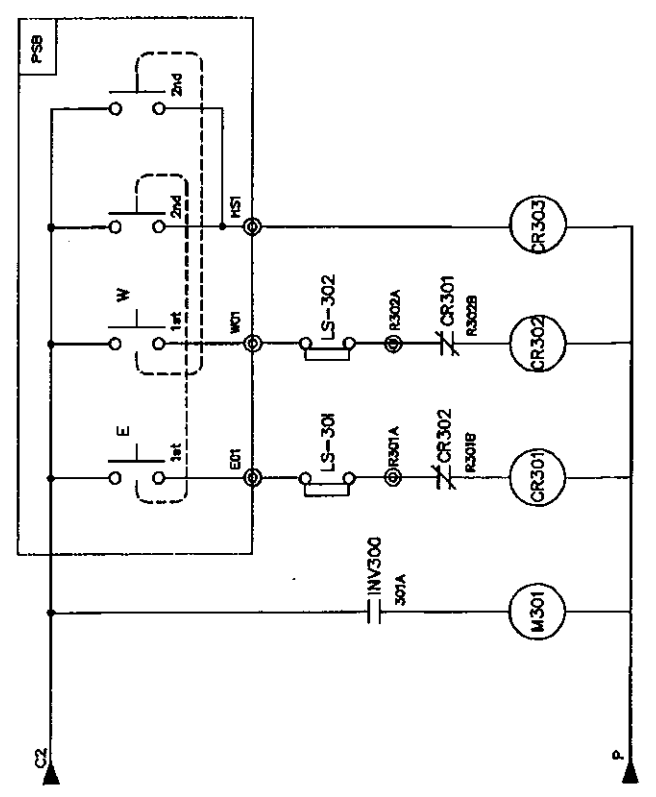


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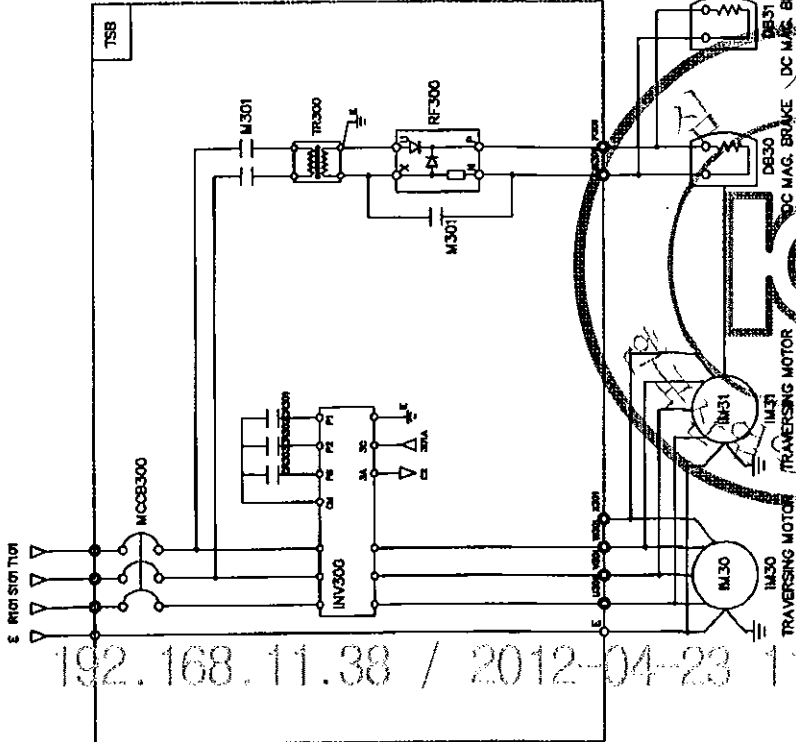
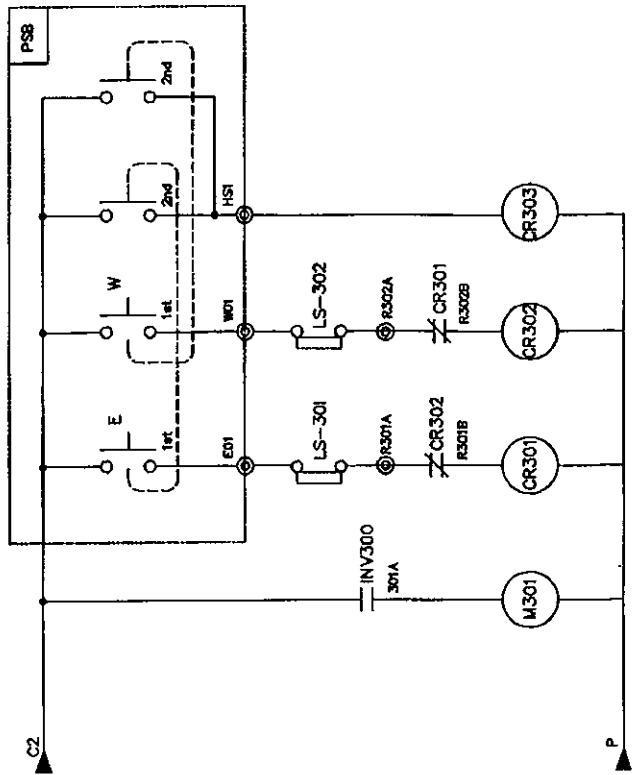
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POWER CIRCUIT DIAGRAM										CONTROL CIRCUIT DIAGRAM										ADP'S NO.																																																							
TRAVERSING MOTION										BRAKE										EAST		WEST		HIGH SPEED																																																			
																																																																											
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SPECIFICATION SYMBOLS	DESCRIPTION	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	BRAKE MAGNET	CONTROL RELAY	INVERTER	SILICON RECTIFIER																																																																			
TRAVERSING MOTOR	IM300	DB30	MCCB300	TR 300	M301	CR301, 302, 303	INV300	RF300																																																																			
AC 3PH 220V 60Hz	AC 3PH 220V 60Hz	ABE-33AF/5AT	ABE-33AF/5AT	220/220V, 200VA	DM-22C	MINI 4a4b (Coil AC110V)	SVO8G5A-2	SR-30																																																																			
AC 3PH 380(440, 480) 50/60Hz	AC 3PH 380(440, 480) 50/60Hz	ABE-33AF/5AT	ABE-33AF/5AT	380(440, 480) 220V, 200VA	DM-22C	MINI 4a4b (Coil AC110V)	SVO8G5A-4	SR-30																																																																			
SELECTION/MAKER	CUSTOMER	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.																																																																			
KUK DONG HOIST																																																																											
DRAWING TITLE										DRAWING NO										DWG. NO																																																							
REVISIONS										KUK DONG HOIST CO., LTD.										KD1E1004																																																							
DATE										KUK DONG HOIST CO., LTD.										KD1E1004																																																							

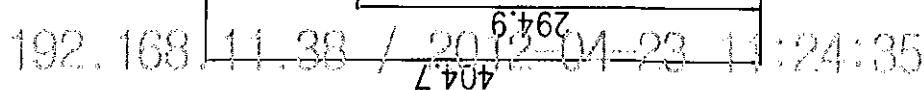
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20										
POWER CIRCUIT DIAGRAM										CONTROL CIRCUIT DIAGRAM										ADP'S NO.									
TRAVERSING MOTION										BRAKE										EAST		WEST		HIGH SPEED					
																													
SPECIFICATION SYMBOLS										TRAVERSING POWER										TRAVERSING MOTOR		DC MAG. BRAKE		INVERTER		SILICON RECTIFIER			
DESCRIPTION										AC 3PH 380(440,460,480)V 50/60Hz										IM 300		DB30,31		INV300		RF300			
SELECTION / MAKER										KUK DONG HOIST										0.4KW x 4P		0.4KW x 4P		DM-22C		SV015GSA-4			
DRAWING										DESIGN										CHECKED		APPROVED		SCALE		DATE		ORDER NO.	
CUSTOMER										INVERTER CONTROL																			
DRAWING TITLE										TRAVERSING POWER & CONTROL CIRCUIT																			
REVISIONS										CHK.										APP.									
DATE										192.168.11.38 / 2012-04-23 11:24:35																			
MK										192.168.11.38 / 2012-04-23 11:24:35																			
DWG. NO.										KDD										KUK DONG HOIST CO., LTD.		DWG. NO.		KD1E1005					

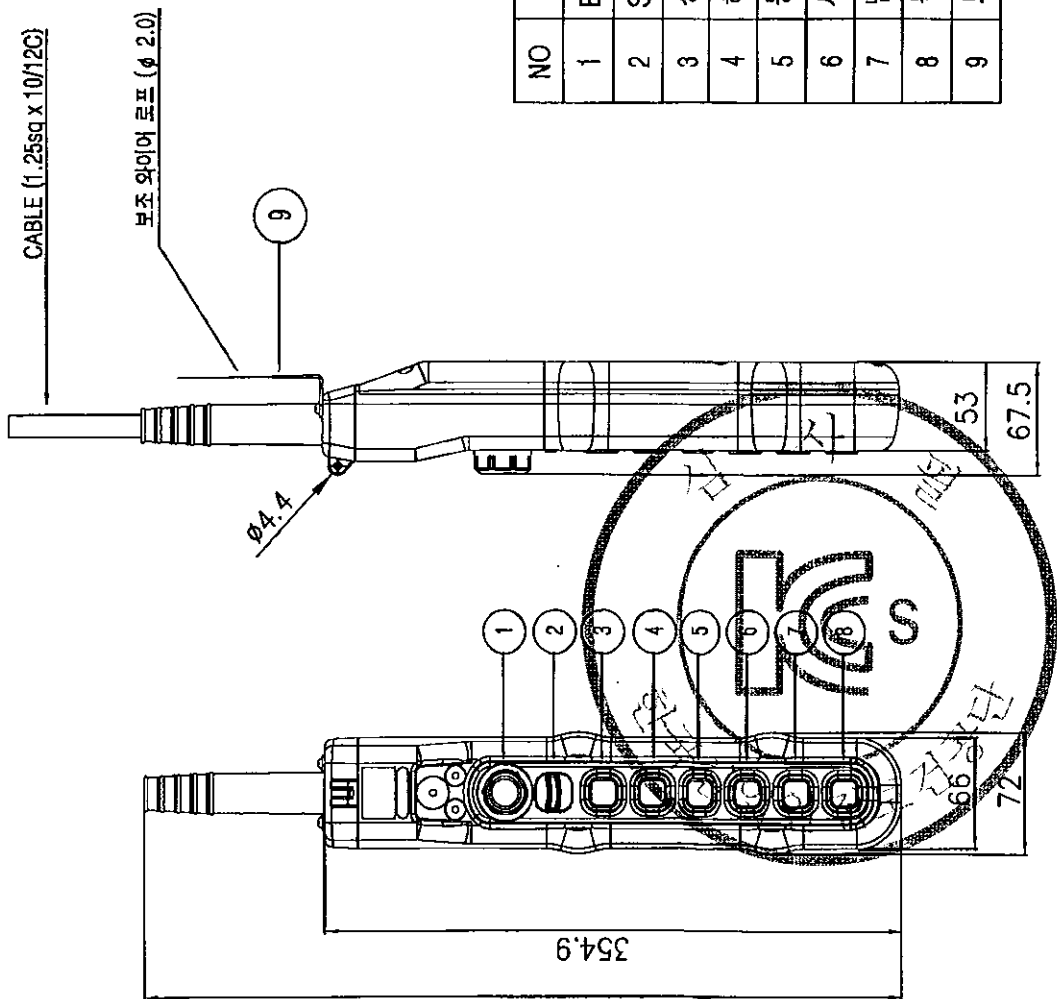
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20.										
CONTROL CIRCUIT																													
EM STOP					LOAD LIMIT					CREEP UP					CREEP DOWN					DOWN									

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

[illegible]



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

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

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

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

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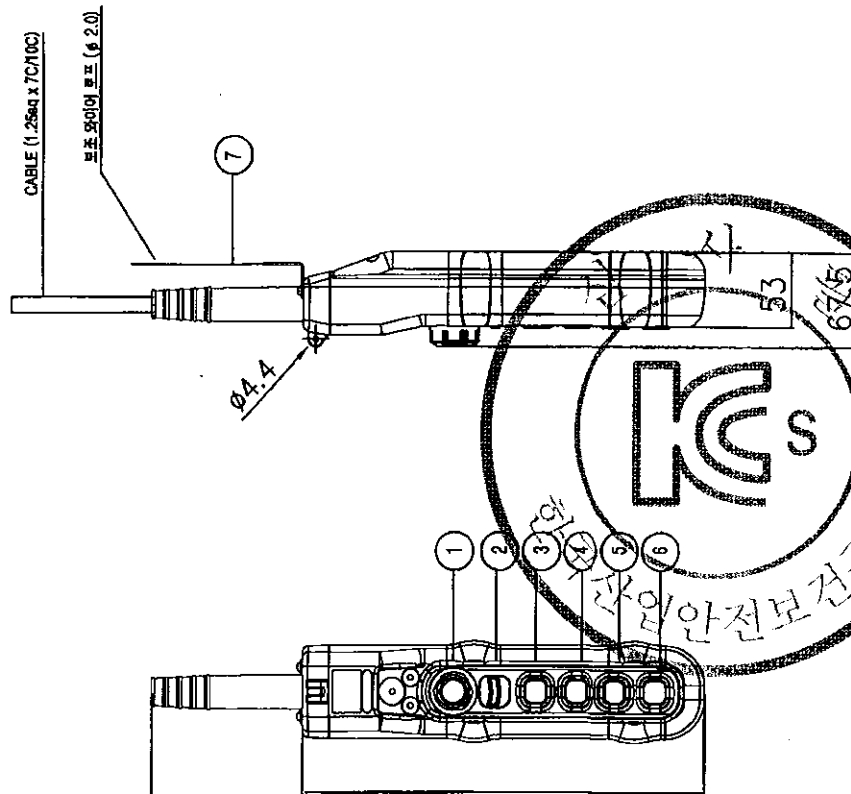
구분	색상	조작버튼	표시등
적색	비상	비상	비상
황색	비정상	비정상	비정상
녹색	정상	정상	정상
청색	의무	의무	의무
흰색, 회색-흑색	지정된의미없음		기타

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

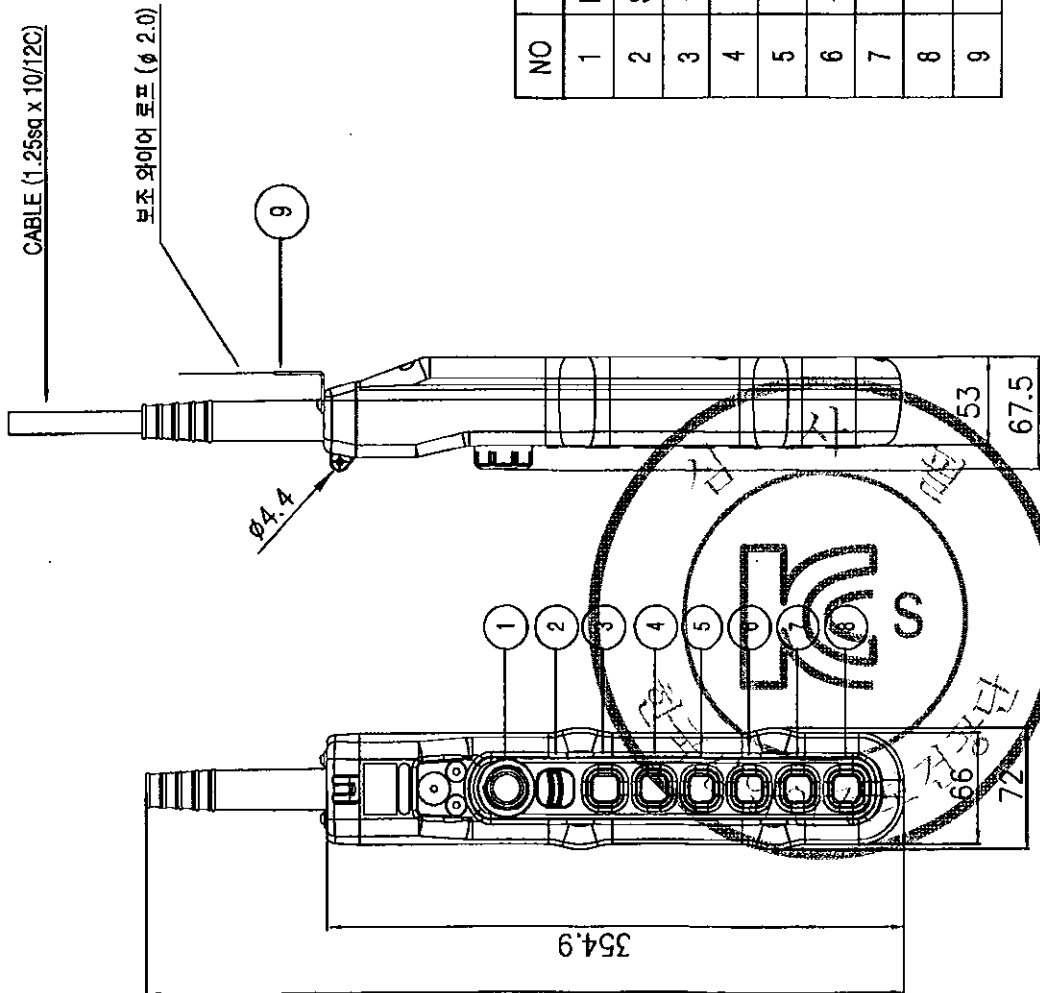
* IP : 55 이상

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



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

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색상	구분	조작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색 - 흑색		지정원의미없음	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	PUSH BUTTON(2STEP)		
4	하	PUSH BUTTON(2STEP)		
5	동 (좌)	PUSH BUTTON(2STEP)		
6	서 (우)	PUSH BUTTON(2STEP)		
7	남 (전)	PUSH BUTTON		
8	북 (후)	PUSH BUTTON		
9	보조 WIRE	φ 2.0		

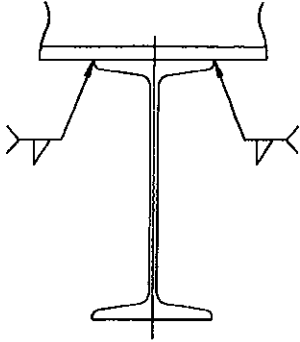
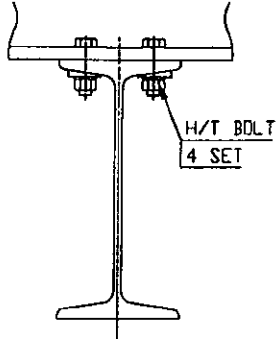
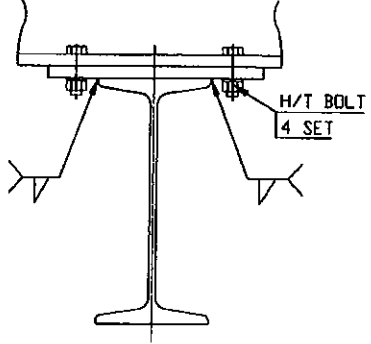
DATE	REVISIONS	CHK.	APP.	CUSTOMER	PENDANT PUSH BUTTON SWITCH				DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
					LAY OUT									
DATE										KUK DONG HOIST CO., LTD.				DWG. NO

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I-4. I-BEAM의 고정방법 및 사양

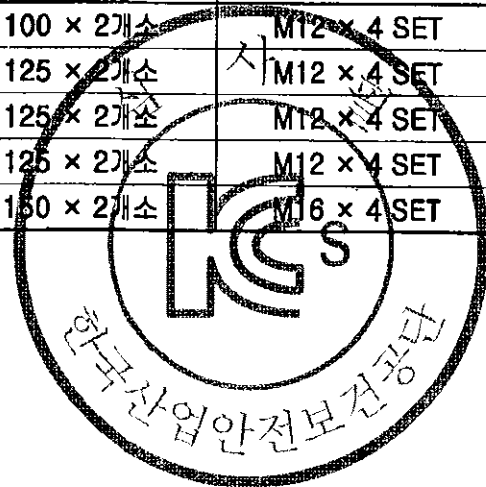
1. I-BEAM의 고정방법

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

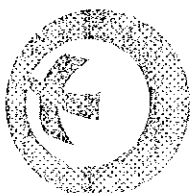
2. 기본조건 및 사양

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

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



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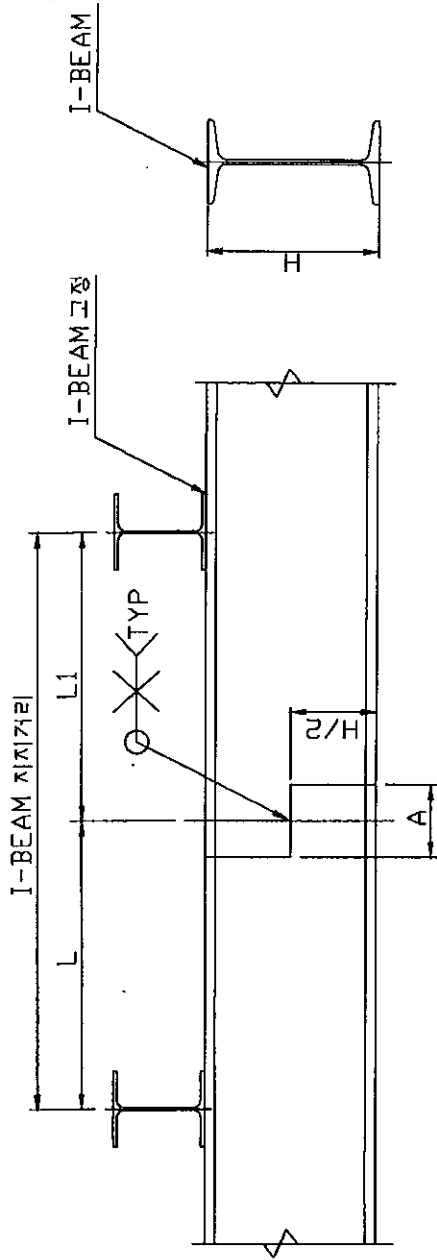


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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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3. I-BEAM의 연결방법



I-BEAM의 용접 연결부위는 I-BEAM 고정 지점과 동일 선상에 위치하지 않도록 한다(단위 : mm)

* 고정 지점 사이 중앙에 용접 연결부위를 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	6200	4200	3800	3200	
300×150×t10/18.5	300	300	150	9300	6500	5800	5800	4600
350×150×t9/15	300	350	175	10200	7300	6500	6000	5000
400×150×t10/18	300	400	200	11000	8900	8000	7700	6300
450×175×t11/20	300	450	225		10500	9900	9900	8000

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



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* I-BEAM 고정 방법 중 용접 구조의 용접 강도

I-BEAM자중+1.25×(정격하중+Hoist자중)

≤ 560 kg/cm²

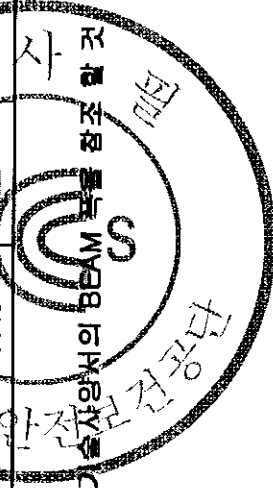
용접부 강도: $\sigma = 1.14 \times$

0.707×용접두께 × 용접길이



I-BEAM 규격	BEAM 자중 (kg/m)	용접 두께 (cm)	최소 용접길이 (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)
200×100×7/10	26.0	0.6	10×2	225	209.2								
250×125×7.5/12.5	38.3	0.6	12.5×2	225	168.7	755	374.3	785	485.8	785	512.7		
300×150×10/18.5	65.6	0.6	15.0×2	225	143.0	755	314.4	785	407.3	785	429.7	895	499.5
350×150×19/15	58.5	0.6	15.0×2	225	142.4	755	313.7	785	406.7	785	429.1	895	499.0
400×150×10/18	72.0	0.8	15.0×2	225	143.6	755	314.9	785	407.9	785	430.3	895	499.9
450×175×11/20	91.7	0.8	17.5×2			755	316.7	785	409.6	785	370.3	895	501.2

단, 사용 I-BEAM의 MODEL 별 기술서양서의 BEAM 목록 참조 함 것



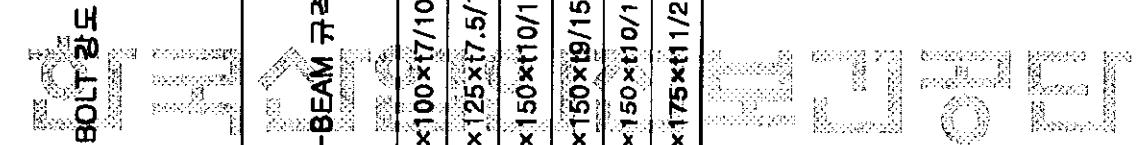
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• I-BEAM 고정 방법 중 BOLT 고정 강도

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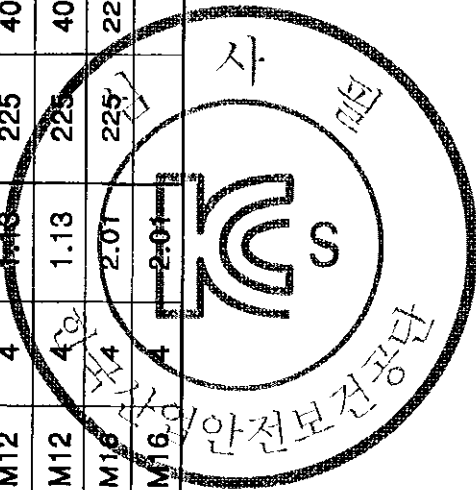


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$$\frac{\text{I-BEAM 자중} + 1.25 \times (\text{경격하중} + \text{Hoist 자중})}{\text{BOLT 단면적} \times \text{BOLT 수}} \leq 2500 \text{ kg/cm}^2$$



I-BEAM 규격	BEAM 자중 (kg/m)	BOLT 규격	BOLT 수	BOLT 단면적 (cm ²)	1 T		2 T		2.8 T		3 T		5 T	
					HOIST 자중 (KG)	BOLT 강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT 강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT 강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT 강도 (kg/cm ²)	HOIST 자중 (KG)	BOLT 강도 (kg/cm ²)
200×100×17/10	26.0	M12	4	1.13	225	392.8								
250×125×17.5/12.5	38.3	M12	4	1.13	225	395.9	755	878.2	785	1139.9	785	1202.9		
300×150×110/18.5	65.6	M12	4	1.13	225	402.7	755	885.1	785	1146.8	785	1209.8	700	1019.6
350×150×19/15	58.5	M12	4	1.13	225	401.0	755	883.3	785	1145.0	785	1208.0	700	1018.6
400×150×110/18	72.0	M16	4	2.01	225	227.3	755	498.5	785	645.6	785	681.1	700	1020.5
450×175×111/20	91.7	M16	4	2.01	225		755	501.3	785	648.4	785	683.9	700	1023.3



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I-5. I-BEAM의 최대 지지거리

5-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 26 \times 400^2}{8} = 5460 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(1000 + 225) \times 400}{4} = 153615 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 225 \text{ KG} \quad \text{용량 : 1000 KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 5460 + 153615 = 159075 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{31.52 \times 400}{2} = 6303 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 1.11 = 31.52 \text{ (kg)} \end{aligned}$$

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

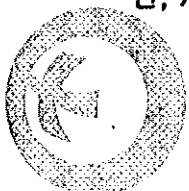
$$\text{속도계수 : } C = 1.2 \text{ (크레인 제작기준 참조)}$$

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 0.8 + 0.310 = 1.110 \text{ (m}^2\text{)} \end{aligned}$$

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

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)
200×100×t7/10	26	400	5460	153615	159075	31.52	6303	1.11
250×125×t7.5/12.5	38.3	620	19323	238103	257427	51.39	15930.8	1.81
300×150×t10/18.5	65.6	930	74468	357155	431623	88.30	41059.1	3.11
350×150×t9/15	59.5	1020	73893	391718	471601	125.33	53720.5	3.71
400×150×t10/18	72.0	1100	114345	422441	536786	139.40	76672.6	4.91

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



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5-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{159075}{218} = 729.7 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{6303.0}{27.7} = 227.5 \quad (\text{kg/cm}^2) \end{aligned}$$

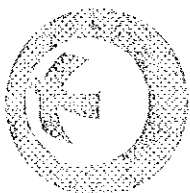
2. 풍하중에 의한 굽힘 응력

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

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)
200×100×t7/10	218	27.7	159075	6303.0	729.7	227.5	957.2
250×125×t7.5/12.5	415	56.2	257427	15930.8	620.5	283.5	903.8
300×150×t10/18.5	849	118	431623	11059.1	508.4	348.0	856.3
350×150×t9/15	871	95.4	471601	53720.5	541.4	563.1	1104.6
400×150×t10/18	1220	118	536786	76672.6	440.0	649.8	1089.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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5-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 26 \times 400^3}{384 \times 2100000 \times 2170} = 0.048 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(1000 + 225) \times 400^3}{48 \times 2100000 \times 2170} = 0.358 \quad (\text{cm}) \end{aligned}$$

3. 판정

1) 이동하중에 의한 처짐판정(하단표기)

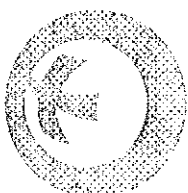
$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.358}{400} = \frac{1}{1116} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.048 + 0.358}{400} = \frac{1}{985} < \frac{1}{800} \end{aligned}$$

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
200×100×t7/10	2170	26	0.048	0.358	1 / 1116	1 / 985
250×125×t7.5/12.5	5180	38.3	0.109	0.559	1 / 1109	1 / 928
300×150×t10/18.5	12700	65.6	0.2576	0.770	1 / 1208	1 / 905
350×150×t9/15	15200	58.5	0.2532	0.848	1 / 1202	1 / 926
400×150×t10/18	24100	72	0.2466	0.871	1 / 1172	1 / 1199

단, I-BEAM의 사용은 MODEL 별 기술사항서에 따른다.



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I-6. I-BEAM의 최대 지지거리

6-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 38.3 \times 620^2}{8} = 19323 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(1000 + 225) \times 620}{4} = 238103 \quad \text{kg-cm}$$

* 호이스트 자중 = 225 KG 용 량 : 1000 KG

* DYNAMIC COEFFICIENT : F = 1.254

* STATIC COEFFICIENT : M = 1.05

굽힘 MOMENT 합계 : $\Sigma M_v = M_s + M_d = 19323 + 238103 = 257427 \quad \text{kg-cm}$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{51.39 \times 620}{2} = 15930.8 \quad \text{kg-cm}$$

풍하중 : $W = \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \quad (\text{kg})$

$$= 23.66 \times 1.2 \times 1.81 = 51.39 \quad (\text{kg})$$

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

속도계수 : $C = 1.2$ (크레인 제작기준 참조)

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

$$= 1.5 + 0.310 = 1.81 \quad (\text{m}^2)$$

* 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)
200×100×t7/10	26	400	5460	153615	159075	31.52	6303.0	1.110
250×125×t7.5/12.5	38.3	620	19323	238103	257427	51.39	15930.8	1.81
300×150×t10/18.5	65.8	930	74468	357155	431623	88.30	41059.1	3.11
350×150×t9/15	56.5	1020	79833	391718	471601	105.33	53720.5	3.71
400×150×t10/18	72.0	1100	10395.0	422441	432836	151.07	83091	5.321

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

6-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{257427}{415} = 620.3 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{15930.8}{56.2} = 283.5 \quad (\text{kg/cm}^2) \end{aligned}$$

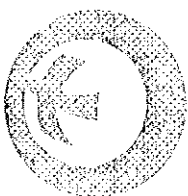
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단면 계수 Zx	단면 계수 Zy	ΣM_v (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
200×100×t7/10	218	27.7	159075	6303.0	729.7	227.5	957.2
⇒ 250×125×t7.5/12.5	415	56.2	257427	15930.8	620.3	283.5	903.8
300×150×t10/18.5	849	118	431623	41059.1	508.4	348.0	856.3
350×150×t9/15	871	95.4	471601	53720.5	541.4	563.1	1104.6
400×150×t10/18	1220	118	432836	83090.8	654.8	704.2	1058.9

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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6-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 38.3 \times 620^3}{384 \times 2100000 \times 5180} = 0.1093 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(1000 + 225) \times 620^3}{48 \times 2100000 \times 5180} = 0.559 \quad (\text{cm}) \end{aligned}$$

3. 판 정

1) 이동하중에 의한 처짐판정(하단표기)

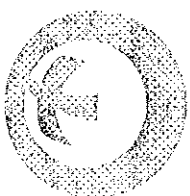
$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.559}{620} = \frac{1}{1109} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.1093 + 0.559}{620} = \frac{1}{928} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐 판정
200×100×t7/10	2170	28	0.048	0.358	1 / 1116	1 / 985
250×125×t7.5/12.5	5180	38.3	0.109	0.559	1 / 1109	1 / 928
300×150×t10/18.5	12700	65.8	0.2576	0.770	1 / 1208	1 / 905
350×150×t9/15	15200	58.5	0.2532	0.848	1 / 1202	1 / 926
400×150×t10/18	24100	72	0.2466	0.671	1 / 1639	1 / 1199

단, I-BEAM의 사용은 MODEL 별 기술사항서에 따른다.



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I-7. I-BEAM의 최대 지지거리

7-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 65.6 \times 930^2}{8} = 74468 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(1000 + 225) \times 930}{4} = 357155 \quad \text{kg-cm}$$

$$\text{* 호이스트 자중} = 225 \text{ KG} \quad \text{용 량 : } 1000 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_b = M_s + M_d = 74468 + 357155 = 431623 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{88.3 \times 930}{2} = 41059.1 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 3.11 = 88.30 \text{ (kg)} \end{aligned}$$

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

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (r)} \\ &= 2.8 + 0.310 = 3.11 \text{ (m}^2\text{)} \end{aligned}$$

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

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _b (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
200×100×t7/10	26	400	5480	153615	159075	31.52	6303.0	1.359
250×125×t7.5/12.5	38.3	620	19323	238103	257427	63.34	19636.2	2.231
300×150×t10/18.5	65.6	930	74468	357155	431623	88.30	41059.1	3.11
350×150×t13/15	58.5	1020	79893	397118	476011	105.33	53720.5	3.71
400×150×t10/18	72.0	1100	114345	422441	536786	151.07	83091	5.321

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

7-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \sum M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{431623}{849} = 508.4 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{41059.1}{118} = 348.0 \quad (\text{kg/cm}^2) \end{aligned}$$

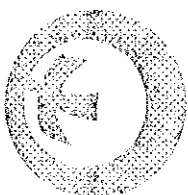
2. 풍하중에 의한 굽힘 응력

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

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)
200×100×t7/10	218	27.7	159075	6303.0	729.7	227.5	957.2
250×125×t7.5/12.5	415	56.2	257427	19636.2	620.3	349.4	969.7
⇒ 300×150×t10/18.5	849	118	431623	41059.1	508.4	348.0	856.3
350×150×t9/15	871	95.4	471601	53720.5	541.4	563.1	1104.6
400×150×t10/18	1220	118	536786	83090.6	440.0	704.2	1144.1

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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7-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 65.6 \times 930^3}{384 \times 2100000 \times 12700} = 0.258 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(1000 + 225) \times 930^3}{48 \times 2100000 \times 12700} = 0.770 \quad (\text{cm}) \end{aligned}$$

3. 판정

1) 이동하중에 의한 처짐판정(하단표기)

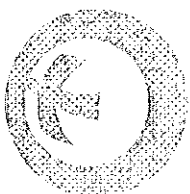
$$\begin{aligned} &\frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{1000} \\ &= \frac{0.770}{930} = \frac{1}{1208} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} &\frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} < \frac{1}{800} \\ &= \frac{0.258 + 0.77}{930} = \frac{1}{905} < \frac{1}{800} \end{aligned}$$

I-BEAM 규격	단면2차 MOMENT I _x	BEAM 자중 (kg/m)	δ _s (cm)	δ _d (cm)	이동하중에 의한 처짐 판정	처짐량 합계에 의한 처짐 판정
200×100×t7/10	2170	26	0.048	0.358	1 / 1116	1 / 985
250×125×t7.5/12.5	5180	38.3	0.1093	0.559	1 / 1109	1 / 928
→ 300×150×t10/18.5	12700	65.6	0.2576	0.770	1 / 1208	1 / 905
350×150×t9/15	15200	58.5	0.2532	0.848	1 / 1202	1 / 926
400×150×t10/18	24100	72	0.2466	0.971	1 / 1639	1 / 1199

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

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

$$M_s = \frac{1.05 \times 58.5 \times 1020^2}{8} = 79883 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(1000 + 225) \times 1020}{4} = 391718 \quad \text{kg-cm}$$

$$\ast \text{ 호이스트 자중} = 225 \text{ KG} \quad \text{용 량 : } 1000 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 79883 + 391718 = 471601 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{105.33 \times 1020}{2} = 53720.5 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 3.71 = 105.33 \text{ (kg)} \end{aligned}$$

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

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (m}^2\text{)} \\ &= 3.4 + 0.371 = 3.71 \text{ (m}^2\text{)} \end{aligned}$$

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

I-BEAM 규격	BEAM 자중 (kg/m)	최 대 지지거리 (cm)	M _s (kg-cm)	M _d (kg-cm)	ΣM _v (kg-cm)	W (kg)	M _w (kg-cm)	A (m ²)
200×100×t7/10	26	400	5460	153615	159075	31.52	6303.0	1.110
250×125×t7.5/12.5	38.3	620	19323.3	238103	257427	63.34	19636.2	2.231
300×150×t10/18.5	65.6	930	74468	357155	431623	88.30	41059.1	3.11
→ 350×150×t9/15	58.5	1020	79883	391718	471601	105.33	53720.5	3.71
400×150×t10/18	72.0	1100	10395.0	422441	536786	151.07	83091	5.321

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

8-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{471601}{871} = 541.4 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{53720.5}{95.4} = 563.1 \quad (\text{kg/cm}^2) \end{aligned}$$

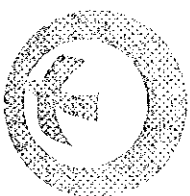
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단 면 계 수 Zx	단 면 계 수 Zy	ΣM_v (kg-cm)	M_w (kg-cm)	σ_v (kg/cm ²)	σ_w (kg/cm ²)	$\Sigma \sigma$ (kg/cm ²)
200×100×t7/10	218	27.7	159075	6303.0	729.7	227.5	957.2
250×125×t7.5/12.5	415	56.2	257427	19636.2	620.3	349.4	969.7
300×150×t10/18.5	849	118	431623	41059.1	508.4	348.0	856.3
→ 350×150×t9/15	871	95.4	471601	53720.5	541.4	563.1	1104.6
400×150×t10/18	1220	118	536786	83090.6	440.0	704.2	1144.1

단, I-BEAM의 사용은 MODEL 별 기술사항서에 따른다.

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8-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 58.5 \times 1020^3}{384 \times 2100000 \times 15200} = 0.253 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(1000 + 225) \times 1020^3}{48 \times 2100000 \times 15200} = 0.848 \quad (\text{cm}) \end{aligned}$$

3. 판정

1) 이동하중에 의한 처짐판정(하단표기)

$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.848}{1020} = \frac{1}{1202} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.253 + 0.848}{1020} = \frac{1}{926} < \frac{1}{800} \end{aligned}$$

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
200×100×t7/10	2170	28	0.048	0.358	1 / 1116	1 / 985
250×125×t7.5/12.5	5180	38.3	0.1093	0.559	1 / 1109	1 / 928
300×150×t10/18.5	12700	65.6	0.2576	0.770	1 / 1208	1 / 905
⇒ 350×150×t9/15	15200	58.5	0.2532	0.848	1 / 1202	1 / 926
400×150×t10/19	24100	72	0.2466	0.871	1 / 1163	1 / 1199

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

I-9. I-BEAM의 최대 지지거리

9-1. 굽힘 MOMENT 계산

1. 수직하중에 의한 굽힘 MOMENT

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

$$M_s = \frac{1.05 \times 72 \times 1100^2}{8} = 114345 \quad \text{kg-cm}$$

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

$$M_d = 1.254 \times \frac{(1000 + 225) \times 1100}{4} = 422441 \quad \text{kg-cm}$$

$$\star \text{ 호이스트 자중} = 225 \text{ KG} \quad \text{용량} : 1000 \text{ KG}$$

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

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

$$\text{굽힘 MOMENT 합계 : } \Sigma M_v = M_s + M_d = 114345 + 422441 = 536786 \quad \text{kg-cm}$$

2. 풍하중에 의한 굽힘 MOMENT

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

$$M_w = \frac{139.4 \times 1020}{2} = 76672.6 \quad \text{kg-cm}$$

$$\begin{aligned} \text{풍하중 : } W &= \text{속도압}(q) \times \text{속도계수}(C) \times \text{압력을 받는 면적}(A) \text{ (kg)} \\ &= 23.66 \times 1.2 \times 4.91 = 139.40 \text{ (kg)} \end{aligned}$$

$$\text{속도압 : } q = 8.5 \times \sqrt[4]{h} \text{ (kg/㎡)} = 8.5 \times \sqrt[4]{60} = 23.66 \text{ (kg/㎡)}$$

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

$$\begin{aligned} \text{풍압을 받는 면적 } A &= \text{I-BEAM의 면적} + \text{HOIST의 면적 (㎡)} \\ &= 4.6 + 0.310 = 4.91 \text{ (㎡)} \end{aligned}$$

$$\star \text{ 호이스트의 풍압을 받는 면적 } \approx 0.8 \text{ ㎡}$$

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 (㎡)
200×100×t7/10	26	400	5460	153615	159075	31.52	6303.0	1.110
250×125×t7.5/12.5	38.3	620	19323.3	238103	257427	51.39	15930.8	1.81
300×150×t10/18.5	65.6	930	74468	357155	431623	88.30	41059.1	3.11
350×150×t9/15	58.5	1020	79833	691718	471601	105.33	53720.5	3.71
400×150×t10/18	72.0	1100	114345	422441	536786	139.40	76672.6	4.91

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

9-2. 굽힘 응력 계산

1. 수직하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_v &= \frac{\text{수직 굽힘 MOMENT 합계 : } \Sigma M_v}{\text{단면 계수 : } Z_x} \quad (\text{kg/cm}^2) \\ &= \frac{536786}{1220} = 440.0 \quad (\text{kg/cm}^2) \end{aligned}$$

2. 풍하중에 의한 굽힘 응력

$$\begin{aligned} * \sigma_w &= \frac{\text{풍하중에 의한 굽힘 MOMENT : } M_w}{\text{단면 계수 : } Z_y} \quad (\text{kg/cm}^2) \\ &= \frac{76672.6}{118} = 649.8 \quad (\text{kg/cm}^2) \end{aligned}$$

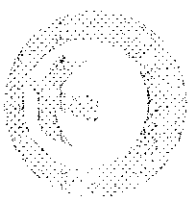
2. 풍하중에 의한 굽힘 응력

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

I-BEAM 규격	단 면 계 수 Z _x	단 면 계 수 Z _y	ΣM _v (kg-cm)	M _w (kg-cm)	σ _v (kg/cm ²)	σ _w (kg/cm ²)	Σσ (kg/cm ²)
200×100×t7/10	218	27.7	159075	6303.0	729.7	227.5	957.2
250×125×t7.5/12.5	415	56.2	257427	15930.8	620.3	283.5	903.8
300×150×t10/18.5	849	118	431623	41059.1	508.4	348.0	856.8
350×150×t9/15	871	95.4	471601	53720.5	541.4	563.1	1104.6
→ 400×150×t10/18	1220	118	536786	76672.6	440.0	649.8	1089.8

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

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9-3. I-BEAM 처짐(DEFLECTION)

1. I-BEAM 자중에 의한 처짐

$$\begin{aligned} * \delta_s &= \frac{5 \times \text{I-BEAM 자중} \times \text{지지거리}^3}{384 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{5 \times 72 \times 1100^3}{384 \times 2100000 \times 24100} = 0.247 \quad (\text{cm}) \end{aligned}$$

2. 이동하중에 의한 처짐 (DEFLECTION)

$$\begin{aligned} * \delta_d &= \frac{(\text{정격하중} + \text{호이스트자중}) \times \text{지지거리}^3}{48 \times 2100000 \times I_x} \quad (\text{cm}) \\ &= \frac{(1000 + 225) \times 1100^3}{48 \times 2100000 \times 24100} = 0.671 \quad (\text{cm}) \end{aligned}$$

3. 판정

1) 이동하중에 의한 처짐판정(하단표기)

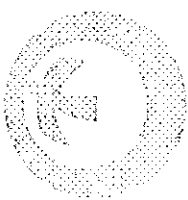
$$\begin{aligned} \frac{\text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{1000} \\ &= \frac{0.671}{1100} = \frac{1}{1639} < \frac{1}{1000} \end{aligned}$$

2) 처짐량 합계에 의한 처짐판정 (하단표기)

$$\begin{aligned} \frac{\text{I-BEAM 자중에 의한 처짐} : \delta_s + \text{이동하중에 의한 처짐} : \delta_d}{\text{지지거리}} &< \frac{1}{800} \\ &= \frac{0.247 + 0.671}{1100} = \frac{1}{1199} < \frac{1}{800} \end{aligned}$$

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
200×100×t7/10	2170	26	0.048	0.358	1 / 1118	1 / 985
250×125×t7.5/12.5	5180	38.3	0.1093	0.559	1 / 1109	1 / 928
300×150×t10/18.5	12700	65.6	0.2576	0.770	1 / 1208	1 / 905
350×150×t9/15	15200	58.5	0.2532	0.848	1 / 1202	1 / 926
⇒ 400×150×t10/18	24100	72	0.2466	0.671	1 / 1639	1 / 1199

단, I-BEAM의 사용은 MODEL 별 기술사양서에 따른다.

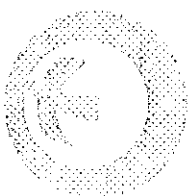


IV. 참 고 도 서

- 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

국동호이스트(주)

* POWER SOURCE : AC 3Φ 220V 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	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

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
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

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%				
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

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
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%	4 SEC	1 SEC	3.2 A	3.6 A	CT-1	K-K1, L-L1	5 V.A	
C10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	21.5 A	23.7 A	CT-2	K-K1, L-L1	5 V.A	
	1.1KW x 8P	110%	1 SEC	1 SEC	4.0 A	5.4 A	CT-1	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

국동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
C1 TON	2.4KW x 4P	110%	1 SEC	1 SEC	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

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

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

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	1 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	5.8 A	1 DRAVE	SS-30	3 SEC	1 SEC	5.8 A	
	0.4KW x 4P	1.6 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.6 A%	
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

극동하이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	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 3 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 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

국동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	OPERATION TIME	CURRENT	
C1 TON	2.4KW x 4P	4.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	4.6 A	
	0.4KW x 4P	1.4 A	1 DRAVE	SS-05	3 SEC	1 SEC	1.4 A	
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	

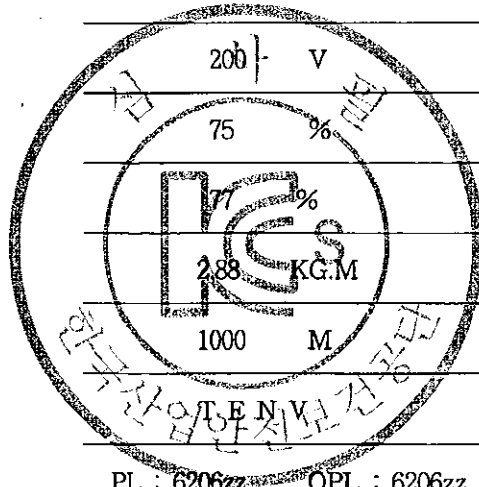
NOTE

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	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	10 A
12. LOCKED ROTOR CURRENT	59 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	2.88 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6206zz OPL : 6206zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMRIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

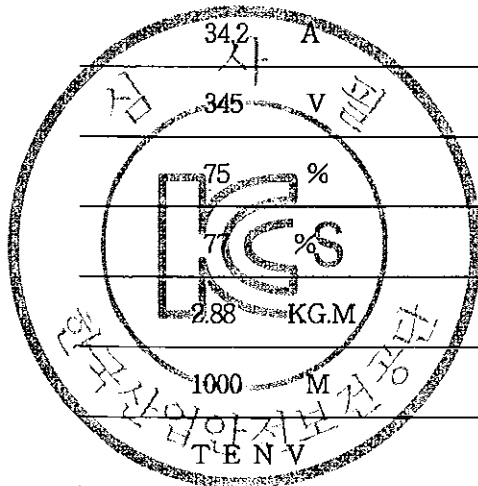


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	국동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	5.6 A
12. LOCKED ROTOR CURRENT	34.2 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	77 %S
16. FULL LOAD TORQUE	2.88 KG.M
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 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

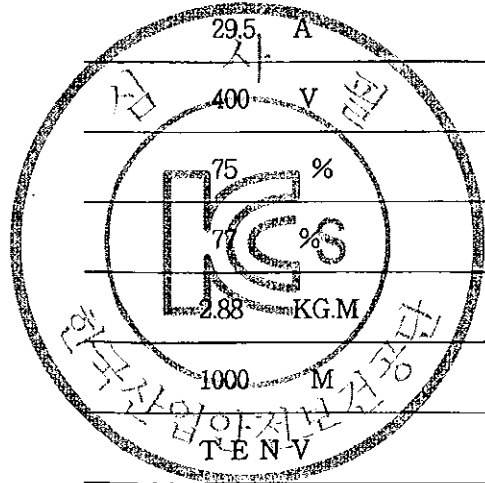


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

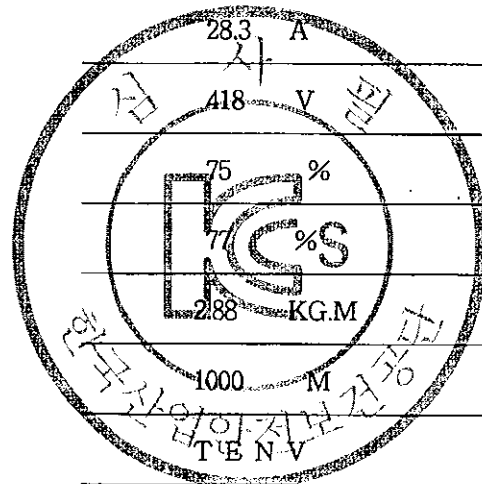
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	5.0 A
12. LOCKED ROTOR CURRENT	29.5 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	77 %
16. FULL LOAD TORQUE	2.88 KG.M
17. SITE ALTTITUDE(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



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

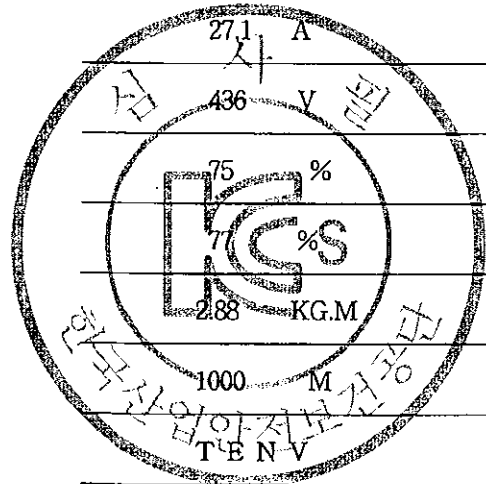
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	4.8 A
12. LOCKED ROTOR CURRENT	28.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	77 %S
16. FULL LOAD TORQUE	288 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TE N V
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

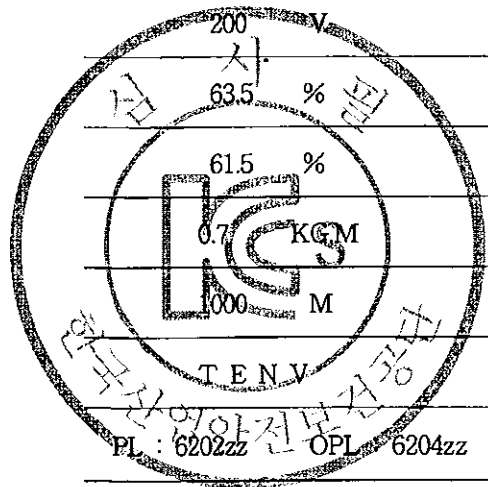
1. SERVICE	HOISTING
2. MANUFACTURE	국동호이스트(주)
3. FRAME NUMBER	112 S
4. RATED POWER	2.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	4.6 A
12. LOCKED ROTOR CURRENT	27.1 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	75 %
15. POWER FACTOR AT 100% RATED LOAD	77 %S
16. FULL LOAD TORQUE	2.88 KG.M
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 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

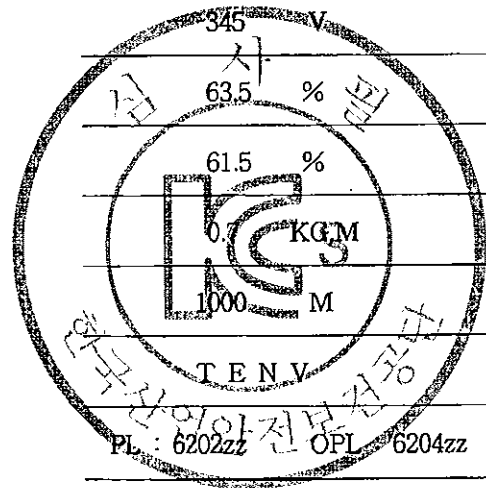
1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	2.7 A
12. LOCKED ROTOR CURRENT	14.2 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

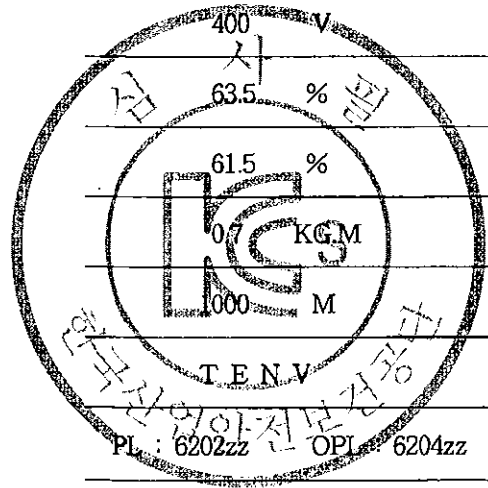
1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.6 A
12. LOCKED ROTOR CURRENT	8.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

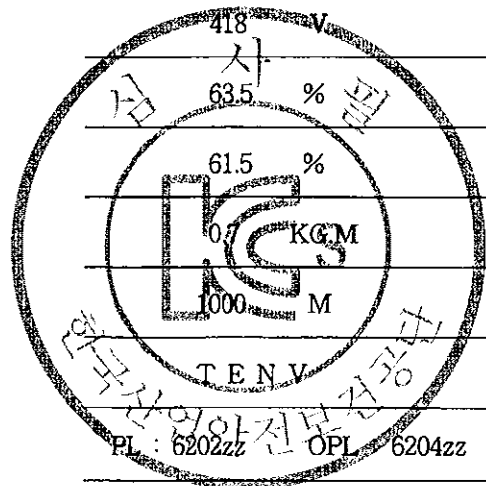
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2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.4 A
12. LOCKED ROTOR CURRENT	7.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL: 6202zz OPL: 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

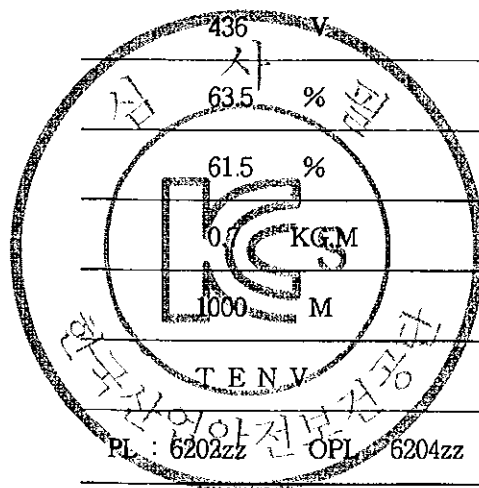
1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.3 A
12. LOCKED ROTOR CURRENT	6.8 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL: 6202zz OPL: 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEAFING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

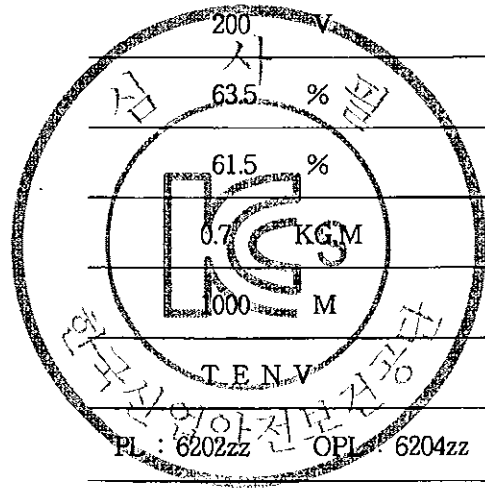
1. SERVICE	CREEP HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.2 A
12. LOCKED ROTOR CURRENT	6.6 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL 6204zz
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

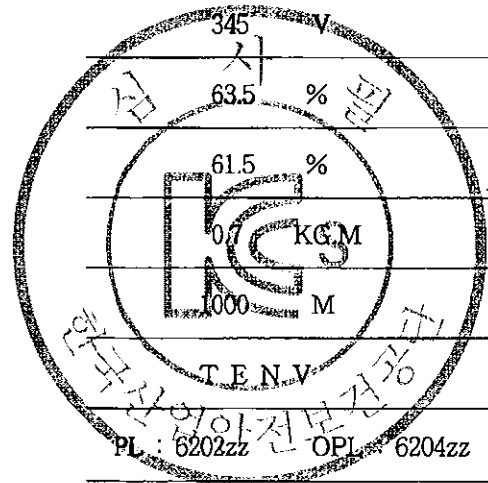
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2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	2.7 A
12. LOCKED ROTOR CURRENT	14.2 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUEFICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

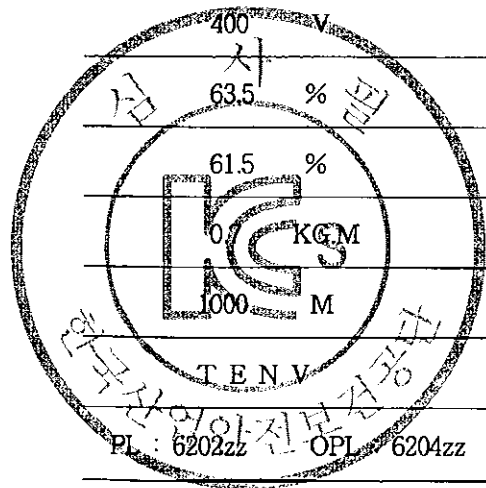
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.6 A
12. LOCKED ROTOR CURRENT	8.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

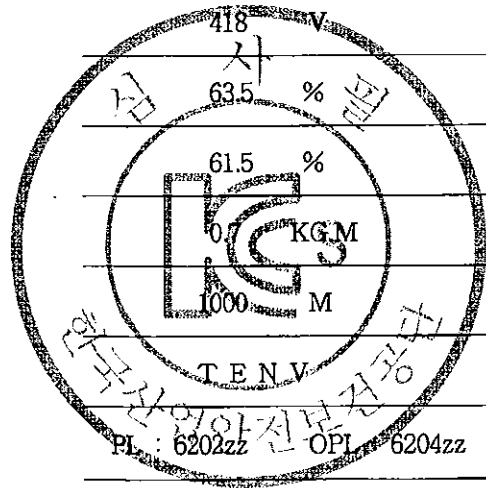
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.4 A
12. LOCKED ROTOR CURRENT	7.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

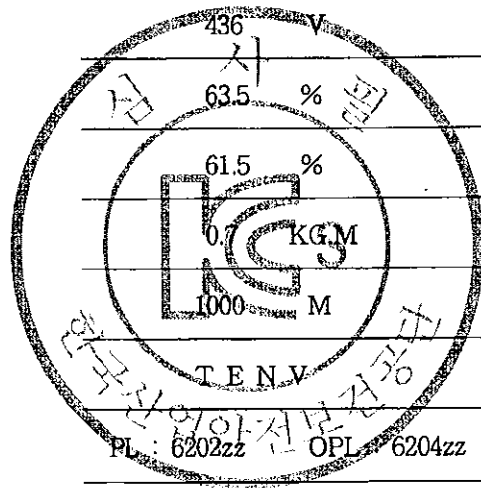
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.3 A
12. LOCKED ROTOR CURRENT	6.8 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL: 6202zz OPI 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEAFING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

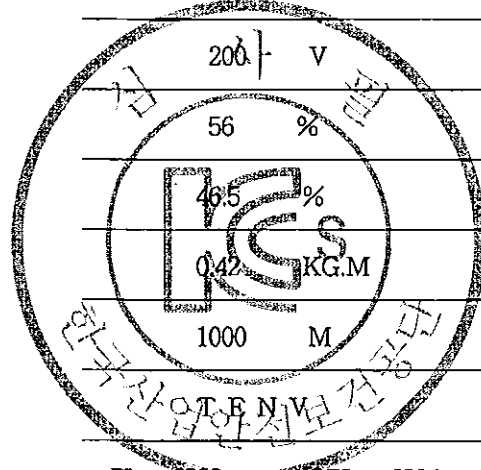
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.4 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1692 RPM
11. FULL LOAD CURRENT	1.2 A
12. LOCKED ROTOR CURRENT	6.6 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	63.5 %
15. POWER FACTOR AT 100% RATED LOAD	61.5 %
16. FULL LOAD TORQUE	0.7 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL: 6202zz OPL: 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1128 RPM
11. FULL LOAD CURRENT	2.0 A
12. LOCKED ROTOR CURRENT	8.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	56 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. FULL LOAD TORQUE	0.42 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

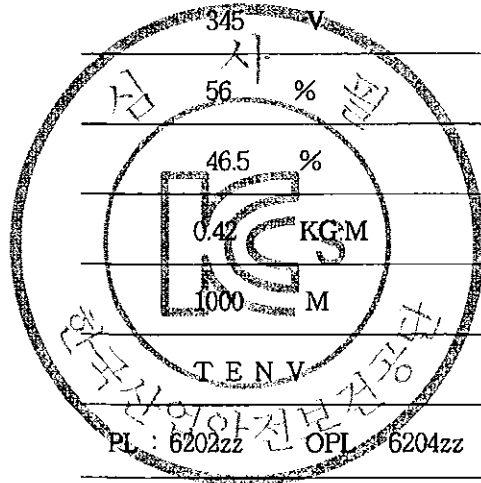


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

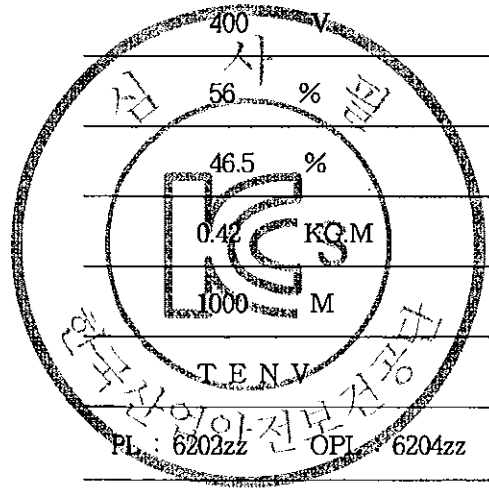
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1128 RPM
11. FULL LOAD CURRENT	1.2 A
12. LOCKED ROTOR CURRENT	5.0 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	56 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. FULL LOAD TORQUE	0.42 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

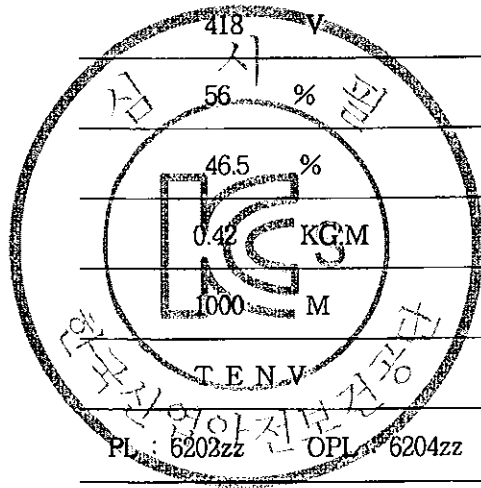
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1128 RPM
11. FULL LOAD CURRENT	1.0 A
12. LOCKED ROTOR CURRENT	4.3 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	56 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. FULL LOAD TORQUE	0.42 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL: 6202zz OPI 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

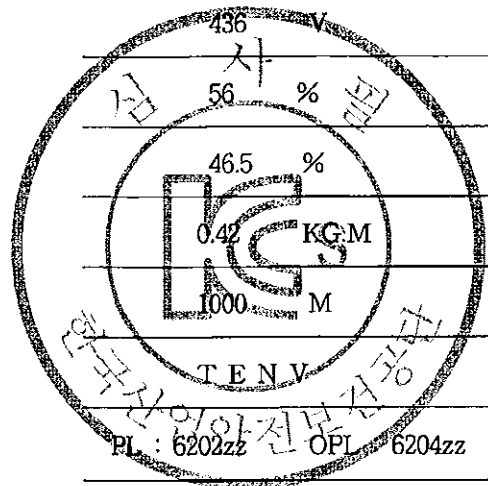
1. SERVICE	TRAVERSING
2. MANUFACTURE	국동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1128 RPM
11. FULL LOAD CURRENT	1.0 A
12. LOCKED ROTOR CURRENT	4.1 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	56 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. FULL LOAD TORQUE	0.42 KG·M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T.E.N.V
19. TYPE OF BEARING	PL : 6202zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	80
4. RATED POWER	0.2 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1128 RPM
11. FULL LOAD CURRENT	0.9 A
12. LOCKED ROTOR CURRENT	3.9 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	56 %
15. POWER FACTOR AT 100% RATED LOAD	46.5 %
16. FULL LOAD TORQUE	0.42 KG-M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6202zz OPI 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE





ORIGINAL

CERT NO. 200612WRU58300

DATE Feb. 15, 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 - 2002 (B Grade)

TO MESSRS

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06 X 37 + FC

1000 M X 5 REEL

EX NO. 1W4161

ORDER NO. 1W4161

REEL NO.

1 ~ 5

SAMPLING NO.

1

DIAMETER OF ROPE

8.000

mm

TYPE OF CORE

Fiber Core

SPECIFIED BREAKING LOAD 36.20 kN

SAMPLE BROKE AT

43.80

kN

WT. OF ZINC COATING OF OUTER WIRE MIN.

0.000

g/m²

ROPE LAY

RHRL

LAY LENGTH

51

mm

LUBRICATION

A-2

CHEMICAL ANALYSIS OF WIRE ROD

CHARGE NO.	C X 100	SI X 100	Mn X 100	P X 1000	S X 1000
SW01779	72	19	66	12	33

DATE OF SAMPLE TEST Feb. 10, 2010

Approved by Q.C Manager H.S. SONG
KISWIRE LTD., KOREA



KS



JIS



API



ABS



KR



NK



GL



DNV



LR



BV



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Report No. 13801062 002

EN 60947-1			
Clause	Requirement - Test	Result - Remark	Verdict

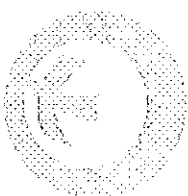
Annex C of IEC 60947-1			P
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Annex C	Degree of protection of enclosed control circuit-devices		P
C.1	Scope		
	This annex applies to degrees of protection of enclosed switchgear and control gear at rated voltages not exceeding 1000 V a.c. or 1500 V d.c. hereafter referred as "equipment"		
C.2	Object		
	Clause 2 of IEC 60529 applies with additional requirements of this annex		
C.3	Definitions		
	Clause 3 of IEC 60529 applies except that "Enclosure" is replaced by the following:		
	"A part providing a specified degree of protection of equipment against certain external influences and a specified degree of protection against approach to or contact with live parts and moving parts"		
C.4	Designation		
	Clause 4 of IEC 60529 applies except for letters H, M and S		N/A
C.5	Degrees of protection against access to hazardous parts and against ingress of solid foreign objects indicated by the first characteristic numeral		
	Clause 5 of IEC 60529 applies	6	P
C.6	Degrees of protection against ingress of water indicated by the second characteristic numeral		
	Clause 6 of IEC 60529 applies	6	P
C.7	Degrees of protection against access to hazardous parts indicated by the additional letter		
	Clause 7 of IEC 60529 applies		N/A
C.8	Supplementary letters		
	Clause 8 of IEC 60529 applies		N/A
C.9	Examples of designations with IP Code		
	Clause 9 of IEC 60529 applies		P
C.10	Marking		P

TRF-No.: IEC60947_5_1A

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C.5, C.6항이 IP65 PASS를 뜻함.



한국산업안전연구원

192.168.11.38 / 2012-04-23 11:24:35

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 북	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)케이지오토	02-247-3131	전 품
			반도기계 (주)	081-495-8353-4	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	