



제 2012 - 8015 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소 재 지) 제425-833)경기도 안산시 성곡동630-2 반월공단 B-607-14

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

_____ 품 목 _____
호이스트

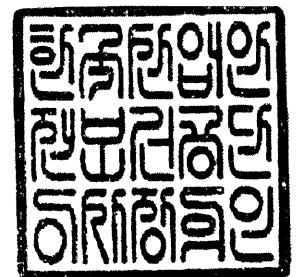
_____ 형식,모델(용량,등급)/인증번호 _____
KDW2-3T (1.5 + 1.5Ton) /12-AQ2AC-00517

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

_____ 인 증 조 건 _____

2012년 02월 17일

한국산업안전보건공단이사장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		
안전인증대상 기계·기구명				
호이스트				
형식 (규격)		KDW2-3T	용량 (등급)	1.5 + 1.5 Ton

산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☒ 서면심사

☐ 기술능력 및 생산체계 심사

☐ 개별 제품심사

☐ 개별 제품심사(제작중)

☐ 형식별 제품심사

결과가 ☒ 적 합
☐ 부적합

합을 통지합니다.

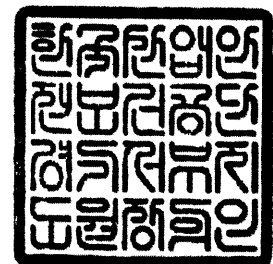
2012년 01월 09일

인증심사원

강성두 변명수

(서명 또는 인)

한국산업안전보건공단 경기서부지도원장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		

안전인증대상 기계·기구명

호이스트

형식 (규격)	KDW2-3T ()	용량 (등급)	1.5 + 1.5 Ton
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산업안전보건법 제 34조 및 같은 법 시행규칙 제58조의4에 따라 실시한

☐ 예비심사

☐ 서면심사

☐ 기술능력 및 생산체계 심사

결과가 ☒ 적 합

함을 통지합니다.

☐ 개별 제품심사

☐ 부적합

☐ 개별 제품심사(제작중)

☒ 형식별 제품심사

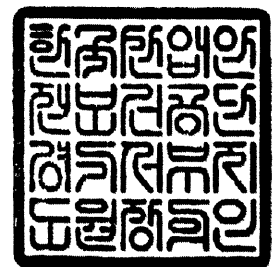
2012년 02월 17일

인증심사원

박희식

(서명 또는 인)

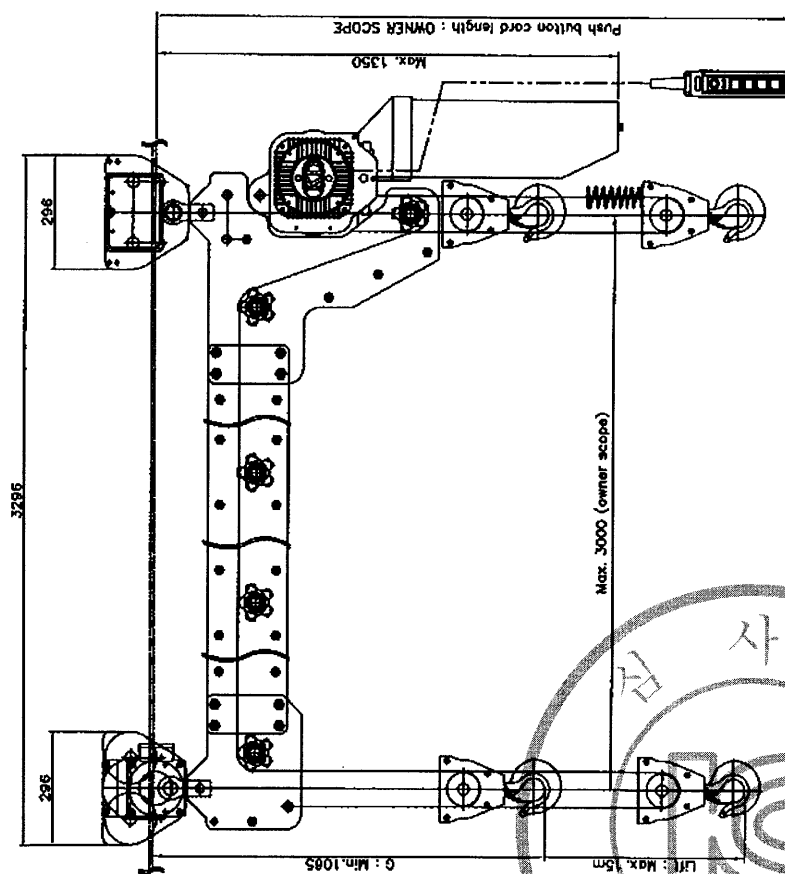
한국산업안전보건공단 경기서부지도원장



동일 형식 일람표

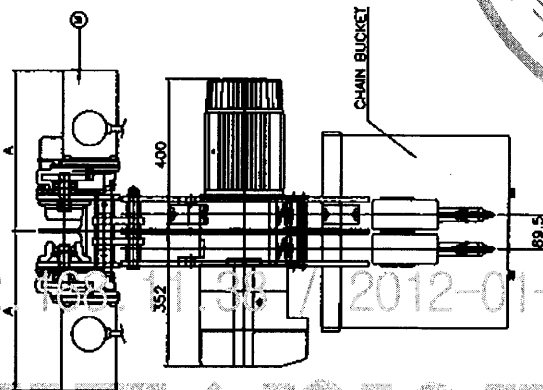
사업장명	구동호이스트(주)	개정일자 및 번호		동일 형식 인정범위 및 내역			인정번호	비고
		형식 및 모델	모델	권상속도(m/min)	회행속도(m/min)	양정(m)		
KDW2-3T	KDW-2-3.0T-L15	KDTW-2-3.0T-L15	KDTW-2-3.0T-L15	5.2 (m/min)	-	15	회행방식	
				5.2 / 1.3 (m/min)	-	15	정지식	
				5.2 / 1.6 (m/min)	-	15	정지식	
		KDW-2M-3.0T-L15	KDW-2M-3.0T-L15	5.2 (m/min)	12 (m/min)	15	정지식	INVERTER 방식
					24 (m/min)	15	Motor 구동식	
					12/6 (m/min)	15	Motor 구동식	
					24/12 (m/min)	15	Motor 구동식	
					2~12 (m/min)	15	Motor 구동식	
		KDTW-2P-3.0T-L15	KDTW-2P-3.0T-L15	5.2 / 1.3 (m/min)	12 (m/min)	15	Motor 구동식	INVERTER 방식
				5.2 / 1.6 (m/min)	24 (m/min)	15	Motor 구동식	
					12/6 (m/min)	15	Motor 구동식	
					24/12 (m/min)	15	Motor 구동식	
					2~12 (m/min)	15	Motor 구동식	
		KDTW-2P-3.0T-L15	KDTW-2P-3.0T-L15	5.2 (m/min)	-	15	Manual 구동식	
				5.2 / 1.3 (m/min)	-	15	Manual 구동식	
				5.2 / 1.6 (m/min)	-	15	Manual 구동식	

* HOOK 간 거리 최대 3000 (OWNER SCOPE) 외형도 참조

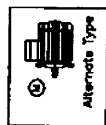


CAPACITY	1.5 + 1.5 Ton	
TEST LOAD	1.875 + 1.875 Ton	
LIFT	Max. 15 m	
HOISTING	MOTOR	3.3 kw x 4 poles
	SPEED	5.2 m/min
TRAVISING	MOTOR	(0.4 kw x 4 poles) x 2
	SPEED	12 m/min
	MOTOR	(0.4 kw x 4 poles) x 2
	SPEED	24 m/min
BRAKE SYSTEM	MOTOR	(0.4/0.2 kw x 4/8 poles) x 2
	SPEED	12/6 m/min
	MOTOR	(0.4/0.2 kw x 4/8 poles) x 2
	SPEED	24/12 m/min
POWER SOURCES	HOISTING	MECHANICAL BRAKE
	TRAVISING	DC ELECTRO MAGNETIC BRAKE
OPERATION METHOD	MAIN	AC SELF BRAKE
	CONTROL	AC 3ø 220/380/440
PAINT COLOR	CONTROL	460/480V 60Hz
	OPERATION METHOD	AC 1ø 48/110/120V 60Hz
BEAM SIZE	OPERATION METHOD	PUSH BUTTON
	PAINT COLOR	SWITCH TYPE ON FL
LOAD CHAIN		0.4 PB 4.2/5.6
NET WEIGHT	100, 125, 150	
	(99.5 x P28.6mm x 2in)) x 2	Max. 540 kg

*** ॥ ॐ नमो भगवते वासुदेवाय ॥**



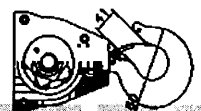
BEAM WIDTH	A
100	406
125	418
150	431

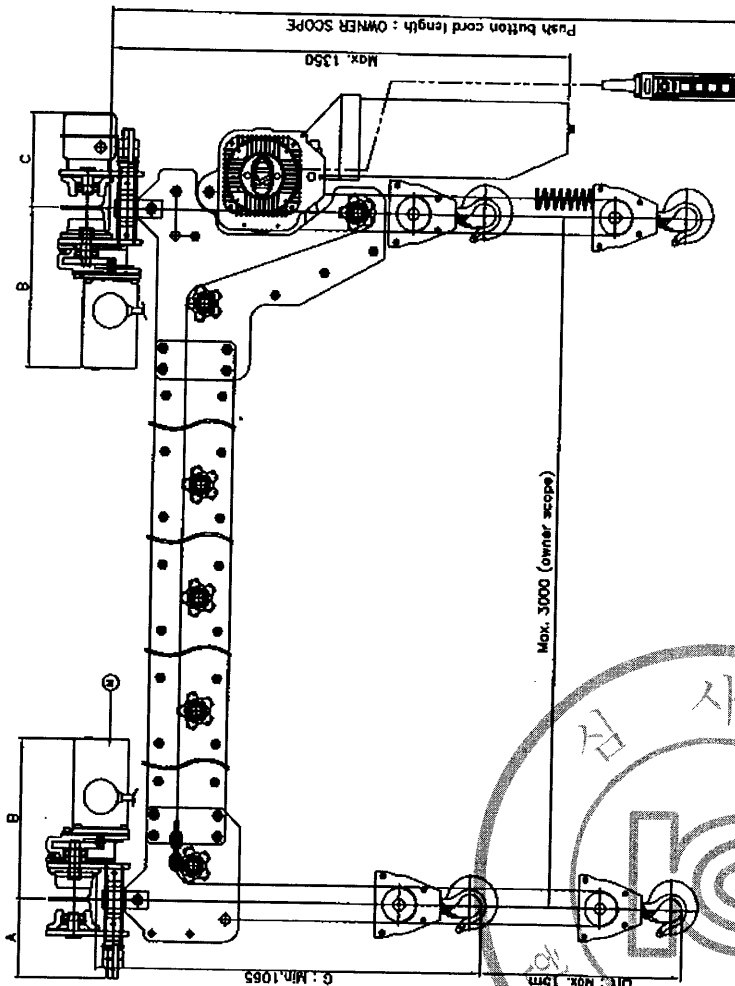


물리 특성	시험 방법	시험 결과	시험 결과	시험 결과
(mm)	(mm)	(mm)	(mm)	(mm)
15.8 ± 0.12 (AS 0405)	15.8 ± 0.12 (AS 0405)	15.8 ± 0.12 (AS 0405)	15.8 ± 0.12 (AS 0405)	15.8 ± 0.12 (AS 0405)

[illegible]

* 안전고리 제외한 11수일.





CAPACITY	1.5 + 1.5 Ton	
TEST LOAD	1.875 + 1.875 Ton	
LIFT	Max. 15 m	
HOISTING	MOTOR	3.3 kw x 4 poles
	SPEED	5.2 m/min
TRAVERSING	MOTOR	(0.4 kw x 4 poles) x 2
	SPEED	12 m/min
	MOTOR	(0.4 kw x 4 poles) x 2
	SPEED	24 m/min
	MOTOR	(0.4/0.2 kw x 4/8 poles) x 2
	SPEED	12/6 m/min
	MOTOR	(0.4/0.2 kw x 4/8 poles) x 2
	SPEED	24/12 m/min
BRAKE SYSTEM	HOISTING	MECHANICAL BRAKE
	TRAVERSING	DC ELECTRO MAGNETIC BRAKE
POWER SOURCES	MAIN	AC SELF BRAKE
	CONTROL	AC 3ø 220/380/440
OPERATION METHOD		460/480V 60Hz
		AC 1ø 48/110/120V 60Hz
PAINT COLOR		PUSH BUTTON SWITCH TYPE ON FL.
		0.4 PB 4.2/5.6
BEAM SIZE		100, 125, 150
LOAD CHAIN		(ø9.5 x 228.6mm x 2ftal) x 2
NET WEIGHT		Max. 540 kg

* 01522445

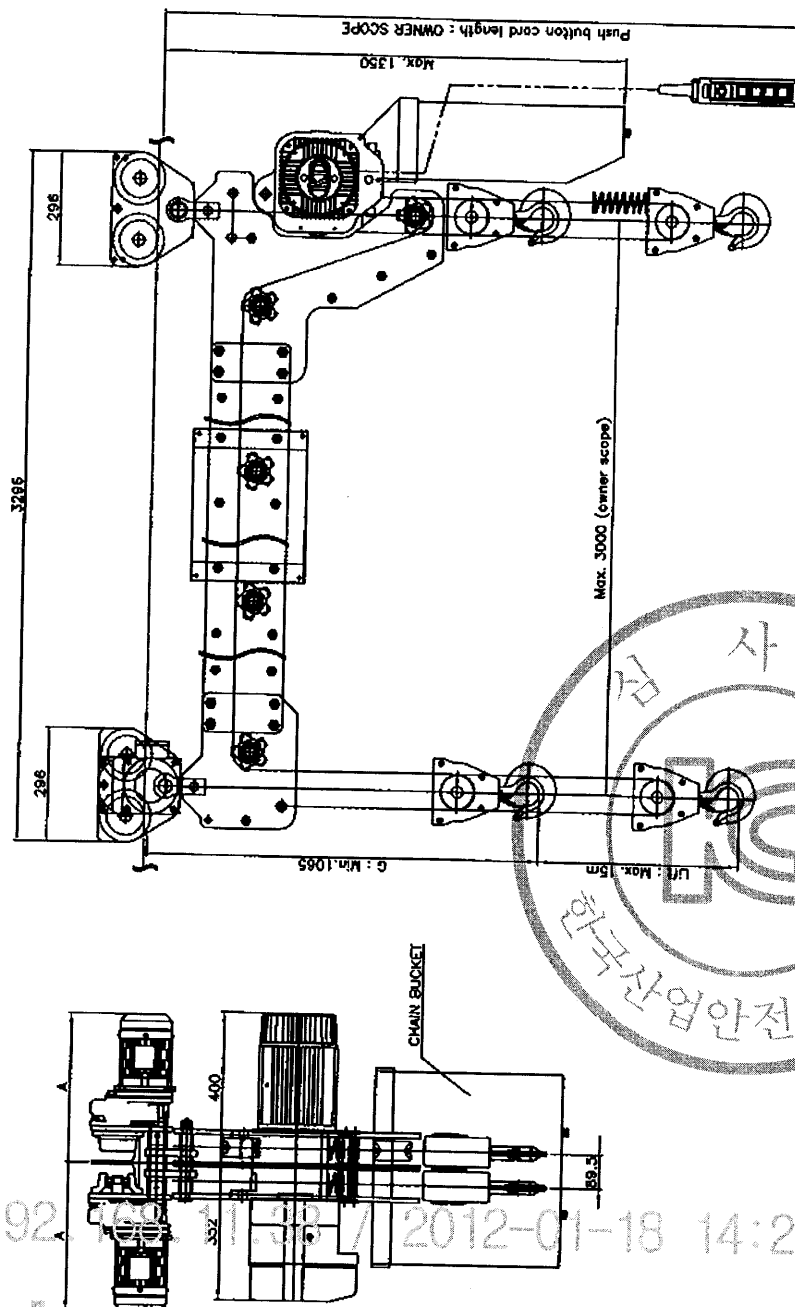
 Alternate Type

BEAM WIDTH	A	B	C
100	194	406	232
125	206	418	245
150	219	431	257

[illegible]

* 안전고라 제외한 치수원





CAPACITY	1.5 + 1.5 Ton	
TEST LOAD	1.875 + 1.875 Ton	
UFT	Max. 15 m	
HOISTING	MOTOR	3.3 kw x 4 poles
	SPEED	5.2 m/min
TRAVERSING	MOTOR	(0.4 kw x 4 poles) x 2
	SPEED	2~12 m/min (INVERTER)
BRAKE SYSTEM	HOISTING	MECHANICAL BRAKE
	TRAVERSING	DC ELECTRO MAGNETIC BRAKE
POWER SOURCES	MAIN	AC 3ø 220/380/440
	CONTROL	460/480V 60Hz
OPERATION METHOD	CONTROL	AC 1ø 48/110/120V 60Hz
PAINT COLOR	PAINT	BLACK POWDER ON FL
BEAM SIZE		0.4 PB 4.2/5.6
LOAD CHAIN		100, 125, 150
NET WEIGHT		(ø9.5 x 228.6mm x 260t) x 2
		Max. 540 kg

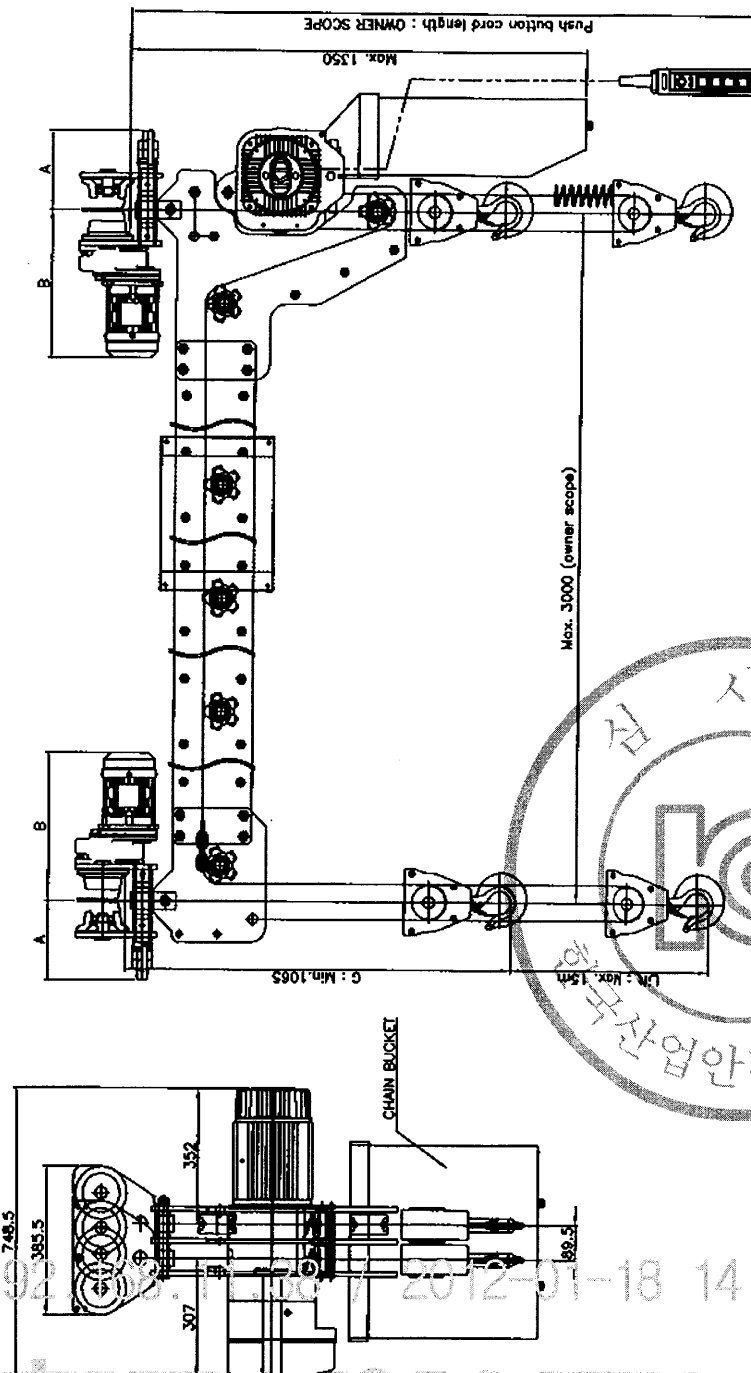
* 오노레입식
* INVERTER

BEAM WIDTH	A
100	406
125	418
150	431

형식 기호	제원 표기	단위 (mm)					
KD	B 0412 (A B 0405)	△					
기호	단위	제원					
0.1 ~ 3	1/16 (1/8 ~ 1/2)	3/16					
3 ~ 6	1/8 (1/4 ~ 1/2)	3/8					
6 ~ 20	1/4 (1/2 ~ 1)	1/2					
20 ~ 30	3/8 (1/2 ~ 1)	5/8					
30 ~ 120	1/2 (3/4 ~ 1 1/2)	1 1/4					
120 ~ 315	3/4 (1 1/4 ~ 2)	2					
315 ~ 1000	1 (2 ~ 3)	3					
1000 ~ 2000	1 1/2 (3 ~ 4)	4					

* 안전고리 제외한 81수임.





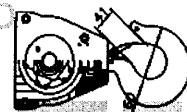
CAPACITY	1.5 + 1.5 Ton	
TEST LOAD	1.875 + 1.875 Ton	
LIFT	Max. 15 m	
HOISTING	MOTOR	3.3 kw x 4 poles
	SPEED	5.2 m/min
TRAVRSING	MOTOR	(0.4 kw x 4 poles) x 2
	SPEED	2-12 m/min (INVERTER)
BRAKE SYSTEM	HOISTING	MECHANICAL BRAKE
	TRAVRSING	DC ELECTRO MAGNETIC BRAKE
POWER SOURCES	MAIN	AC 3ø 220/380/440
	CONTROL	460/480V 60Hz
OPERATION METHOD	AC 1ø 48/110/120V 60Hz SWITCH TYPE ON FL	
PAINT COLOR	0.4 PB 4.2/5.6	
BEAM SIZE	100, 125, 150	
LOAD CHAIN	(98.5 x P28.6mm x 2600) x 2	
NET WEIGHT	Max. 540 kg	

- * 이동력일시
- * INVERTER

BEAM WIDTH	A	B
100	194	406
125	206	418
150	219	431

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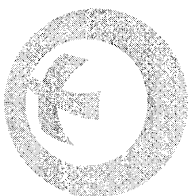
* 안전고리 제외한 지수원.



ELECTRICAL SYMBOL LIST

NAME	SYMBOL	NAME	SYMBOL
3 PHASE SQUIRREL CAGE ROTOR INDUCTION MOTOR		PUSH BUTTON SWITCH	
3 PHASE WOUND ROTOR INDUCTION MOTOR		PUSH BUTTON SWITCH (1BUTTON 2STEP TYPE)	
DC ELECTRO MAGNETIC BRAKE		EMERGENCY BUTTON SWITCH	
AC SOLENOID BRAKE		TOGGLE SWITCH	
OVER LOAD PROTECTOR (=LOAD LIMITER)		SELECTOR SWITCH	
ELECTRONIC OVER CURRENT RELAY		KEY SWITCH	
MOLDED CASE CIRCUIT BREAKER		FOOT SWITCH	
ELECTRIC LEAKAGE BREAKER		BIMETAL	
TRANSFORMER		PLUG	
FUSE		PILOT LAMP	
MAGNETIC CONTACTOR COIL		WIRING SIREN	
MAGNETIC CONTACTOR		BUZZER	
THERMAL RELAY		RECEPTACLE (콘센트)	
THERMAL RELAY CONTACTOR		3로 SWITCH	
LIMIT SWITCH		RECTIFIER	
CAM SWITCH		CURRENT TRANSFORMER	

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한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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< Electrical Specification 1 >

1. Power source : AC 3ø 220V, 380V, 440V, 460V, 480V 60Hz
2. Control source : AC 1ø 48, 110, 120V 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V		460V		480V		BRAKE	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	3.3Kw x 4P	13.0A	4.0sq	7.53A	4.0sq	6.5A	4.0sq	6.0A	4.0sq	5.96A	4.0sq	DC MAG. BRAKE	1 DRIVE
TRAVERSING	2 x 0.4Kw x 4P	2.6A	2.5sq	1.5A	2.5sq	1.3A	2.5sq	1.24A	2.5sq	1.19A	2.5sq	AC SELF BRAKE	2 DRIVE
CONTROL CURRENT		2A	2.5sq	1A	2.5sq	1A	2.5sq	1A	2.5sq	1A	2.5sq		
LIGHTING & ACC'Y CIRCUIT													
SUB TOTAL (NORMAL LOAD)		20.2A	4.0sq	11.53A	4.0sq	10.1A	4.0sq	9.48A	4.0sq	9.34A	4.0sq	I(A)=M/H+T/S+ASS'Y	
SUB TOTAL (PEAK LOAD)		25.25A	-	14.41A	-	12.62A	-	11.85A	-	11.67A	-	I(A)=(M/H+T/S+ASS'Y)x1.25	

< Electrical Specification 2 >

1. Power source : AC 3ø 220V, 380V, 440V, 460V, 480V 60Hz
2. Control source : AC 1ø 48, 110, 120V 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V		460V		480V		BRAKE	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	3.3Kw x 4P	13.0A	4.0sq	7.53A	4.0sq	6.5A	4.0sq	6.0A	4.0sq	5.96A	4.0sq	DC MAG. BRAKE	1 DRIVE
TRAVERSING	2 X 0.4/0.2Kw x 4/8P	2.78/2.73A	2.5sq	1.61/1.58A	2.5sq	1.39/1.36A	2.5sq	1.33/1.31A	2.5sq	1.28/1.25A	2.5sq	AC SELF BRAKE	2 DRIVE
CONTROL CURRENT	2A	2.5sq	1A	2.5sq	1A	2.5sq	1A	2.5sq	1A	2.5sq	1A		
LIGHTING & ACC'Y CIRCUIT													
SUB TOTAL (NORMAL LOAD)	20.56A	4.0sq	11.75A	4.0sq	10.28A	4.0sq	9.66A	9.52A	4.0sq	9.52A	4.0sq	I(A)=M/H+T/S+ASS'Y	
SUB TOTAL (PEAK LOAD)	25.7A		14.68A		12.85A		12.07A	11.9A		11.9A		I(A)=(M/H+T/S+ASS'Y) X1.25	

< Electrical Specification 3 >

1. Power source : AC 3ø 220V, 380V, 440V, 460V, 480V 60Hz
2. Control source : AC 1ø 48, 110, 120V 60Hz

OBJECT	MOTOR OUTPUT	220V		380V		440V		460V		480V		BRAKE	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	3.3Kw x 4P	13.0A	4.0sq	7.53A	4.0sq	6.5A	4.0sq	6.0A	4.0sq	5.96A	4.0sq	DC MAG. BRAKE	1 DRIVE
TRAVERSING	2 x 0.4Kw x 4P	2.6A	2.5sq	1.5A	2.5sq	1.3A	2.5sq	1.24A	2.5sq	1.19A	2.5sq	DC MAG. BRAKE	2 DRIVE
CONTROL CURRENT		2A	2.5sq	1A	2.5sq	1A	2.5sq	1A	2.5sq	1A	2.5sq		
LIGHTING & ACCY CIRCUIT													
SUB TOTAL (NORMAL LOAD)		20.2A	4.0sq	11.53A	4.0sq	10.1A	4.0sq	9.48A	4.0sq	9.34A	4.0sq	I(A)=M/H+T/S+ASS'Y	
SUB TOTAL (PEAK LOAD)		25.25A	-	14.41A	-	12.62A	-	11.85A	-	11.67A	-	I(A)=(M/H+T/S+ASS'Y)x1.25	

■ 배선용 차단기의 정격전류 용량 계산

◆ 규격 : 차단기의 차단용량이 해당 전동기 등의 정격전류에 대하여 250% 이하일 것.
(안전인증 절차 및 안전인증 기준 55항목 전기관계)

$$◆ I_B \leq 2.5 \times (I_M + I_L)$$

I_B : 배선용 차단기의 정격전류

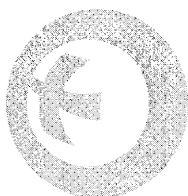
I_M : 전동기 정격전류

I_L : 전동기 이외의 부하전류

전압 부품		220V	380V	440V	460V	480V
3.0 TON	권상 전동기	13.0	7.53	6.5	6.0	5.96
	횡행 전동기	2x2.6	2x1.5	2x1.3	2x1.24	2x1.19
	CONTROL	2	1	1	1	1
합 계		20.2	11.53	10.1	9.48	9.34
배선용 차단기 적용 계산값		50.5	28.82	25.25	23.7	23.35
배선용 차단기 적용 용량		50AF/30AT	30AF/15AT	30AF/15AT	30AF/15AT	30AF/15AT

(0.4KW x 4P 횡행모터 적용)

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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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■ 배선용 차단기의 정격전류 용량 계산

◆ 규격 : 차단기의 차단용량이 해당 전동기 등의 정격전류에 대하여 250% 이하일 것.
(안전인증 절차 및 안전인증 기준 55항목 전기관계)

$$◆ I_B \leq 2.5 \times (I_M + I_L)$$

I_B : 배선용 차단기의 정격전류

I_M : 전동기 정격전류

I_L : 전동기 이외의 부하전류

전압 부품		220V	380V	440V	460V	480V
3.0 TON	권상 전동기	13.0	7.53	6.5	6.0	5.96
	횡행 전동기	2x2.78/2.73	2x1.61/1.58	2x1.39/1.36	2x1.33/1.31	2x1.28/1.25
	CONTROL	2	1	1	1	1
합 계		20.56	11.75	10.28	9.66	9.52
배선용 차단기 적용 계산값		51.4	29.37	25.7	24.15	23.8
배선용 차단기 적용 용량		50AF/30AT	30AF/15AT	30AF/15AT	30AF/15AT	30AF/15AT

(0.4KW x 4/8P 횡행모터 적용)

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▣ 과부하 방지장치 전류 조정 기준치

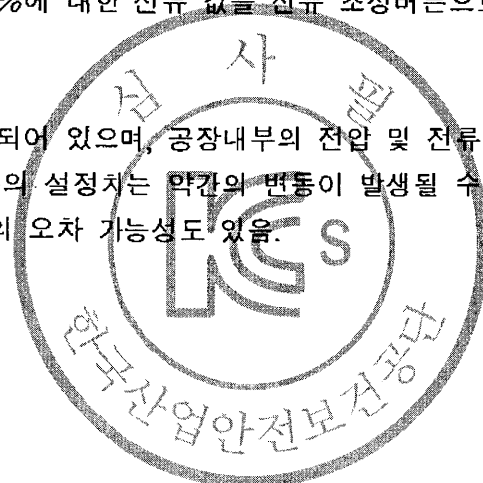
1. 내부 조작반의 전류 조정버튼으로 설정한다.

2. 전류 설정범위 도표

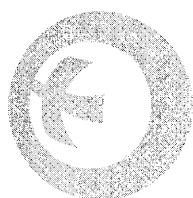
구 분	전동기 용량	범위	공급전압 별 전류 설정값	
			공급전압[V]	전류 설정값[A]
권 상	3.3[Kw] x 4P	100%	220V	13.0
			380V	7.53
			440V	6.50
			460V	6.0
			480V	5.96
		110%	220V	14.3
			380V	8.28
			440V	7.15
			460V	6.60
			480V	6.56

3. 과부하 방지장치의 전류설정은 하중110%에 대한 전류 값을 전류 조정버튼으로 조정한다.

4. 상기 정격전류는 극동제품에 맞게 설정되어 있으며, 공장내부의 전압 및 전류는 변동이 발생할 수 있기 때문에 정격전류의 설정치는 약간의 변동이 발생할 수도 있음.
또한, 전동기의 제조 특성상 $\pm 5\%$ 범위의 오차 가능성도 있음.



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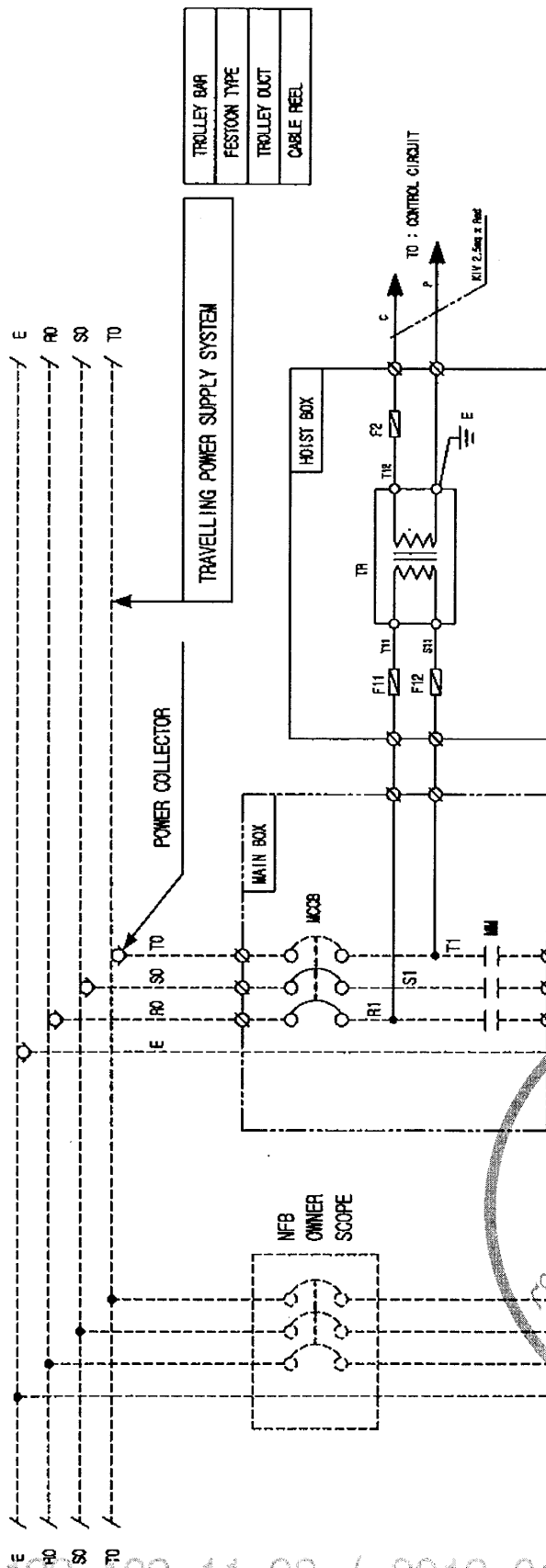
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POWER CIRCUIT

TRAVELLING POWER SUPPLY SYSTEM



POWER SOURCE : AC 3 ϕ 60Hz

VOLTAGE	F11	F12	TR
220V	2A	3A	45VA
380V	1A	3A	45VA
440V	1A	3A	45VA
460V	1A	3A	45VA
480V	1A	3A	45VA

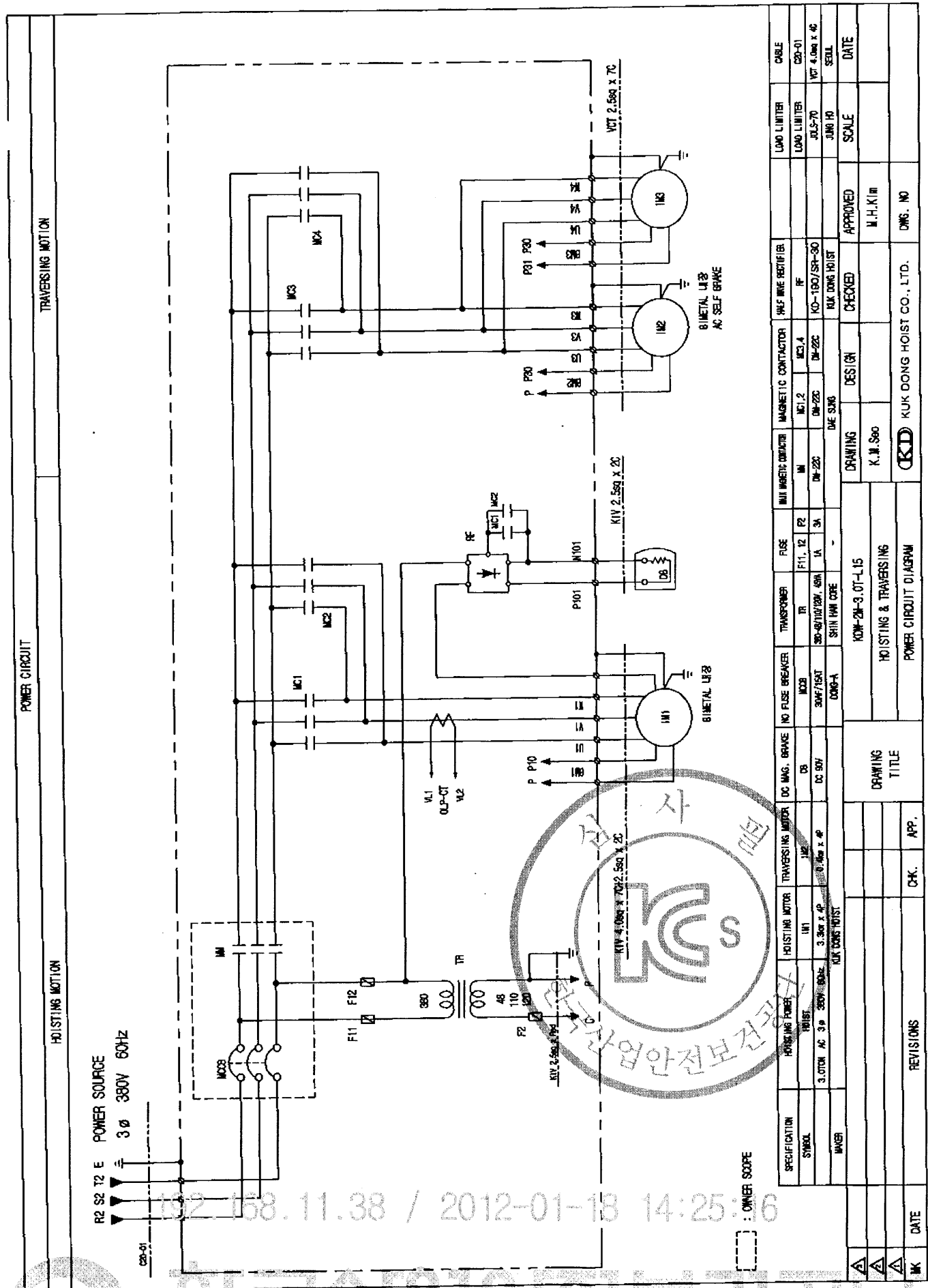
구분	조작방법	표시등	경선(차별)
전역	비상	비상	교류전선
동역	비정상	비정상	외부 전동장치
복역	정상	정상	정지(복통중)
관역	의무	의무	직류전선
전역, 동역, 복역	지정된 의미 없음	지정된 의미 없음	-
관역	-	-	전원선

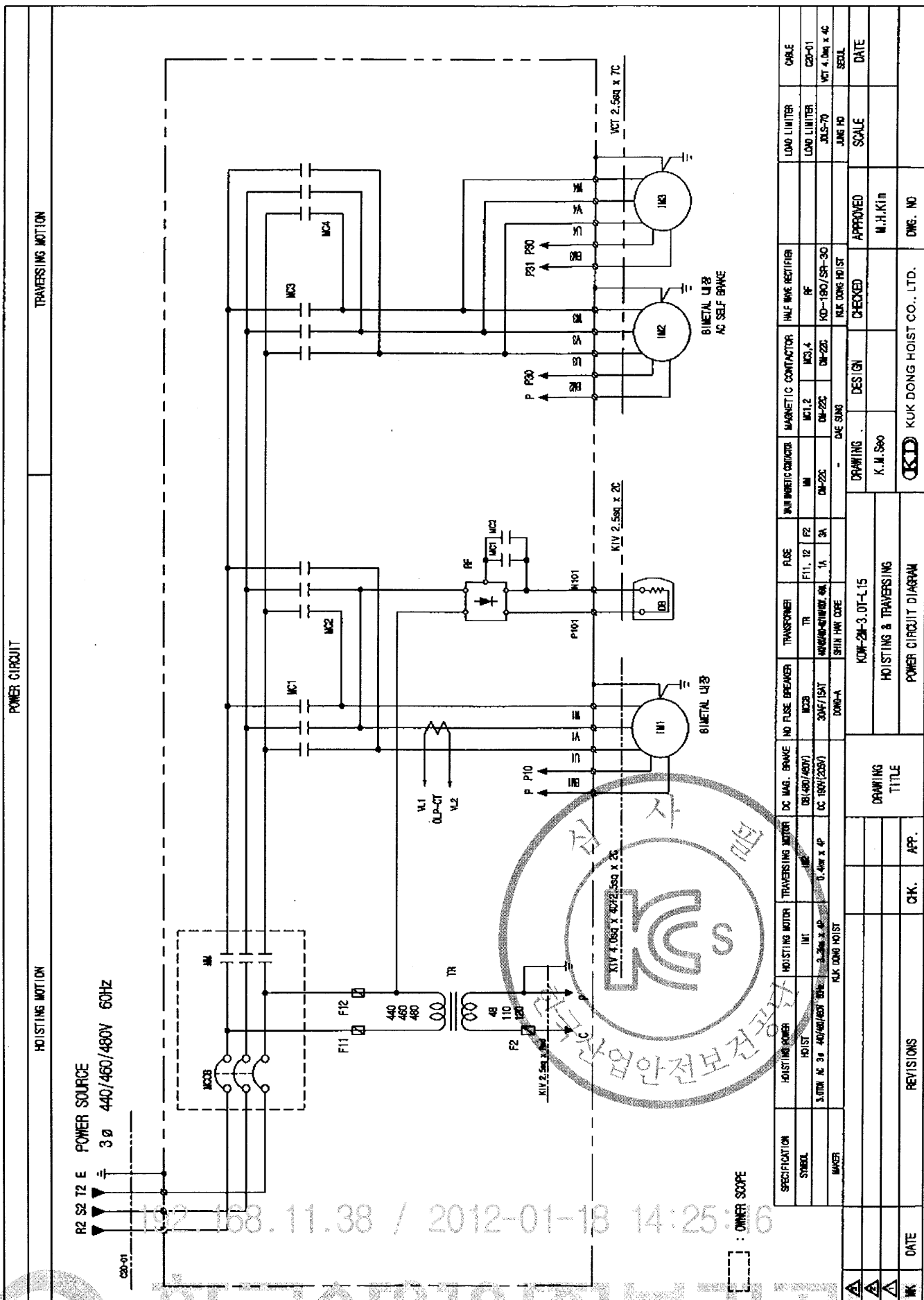
DRAWING TITLE		KON-2M-3, OT-1, 15		DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE	
MAIN POWER CIRCUIT 1				K. M. Seo						M. H. Kim					
DIAGRAM				KUK DONG HOIST CO., LTD.						DWG. NO					
DATE	REVISIONS	CHK.	APP.												

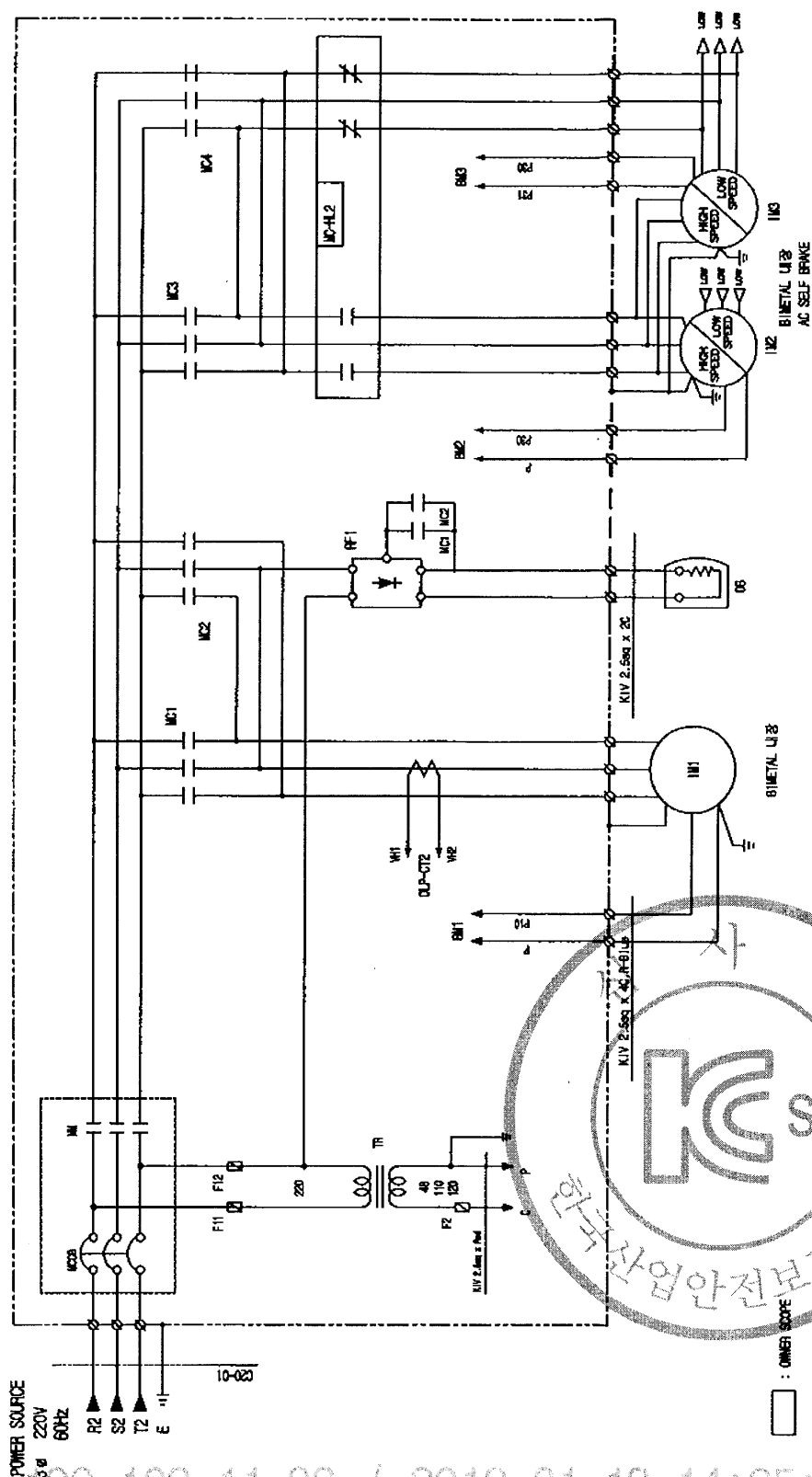
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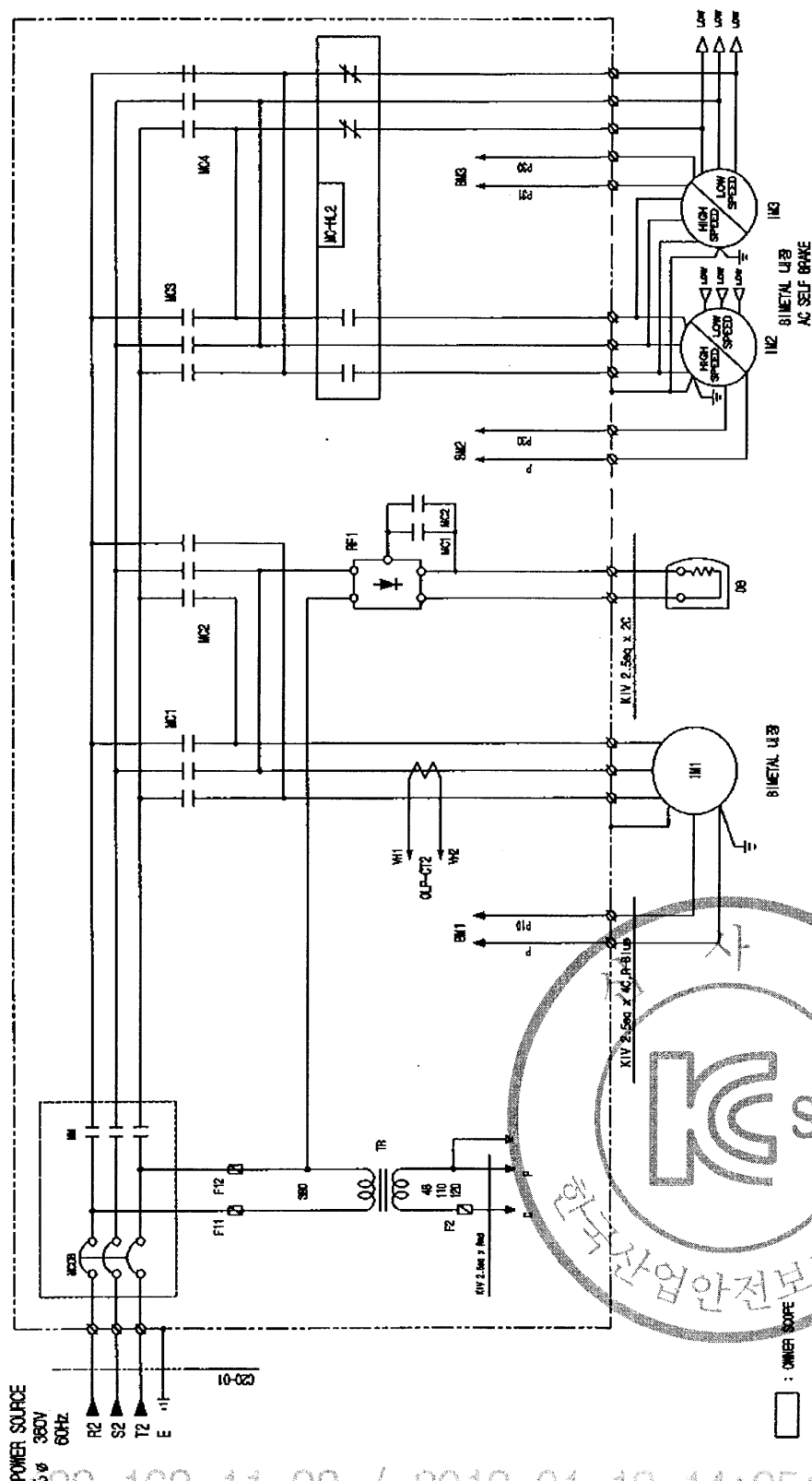


SPECIFICATION	HOISTING POWER	HOISTING MOTOR	REVERSING MOTOR	DC MAG. BRKGE	AIR FUSE BREAKER	TRANSFORMER	FUSE	MAGNETIC CONTACTOR	ELECTRONIC OVER CURRENT RELAY	VOLTS NAME RECTIFIER	LOAD LIMITER	CABLE	
SYMBOL	HOIST	UN	U2, U3	D6	MC3	TR	F11, 12 PZ	MC-1.2 MC-3.4 MC-HL1 MC-HL2	ECOP2 ECOP1	RF1	LOAD LIMITER	CSD-VI	
	3.0TWH AC 3 Ø 220V 50Hz	3.3kw & 4P	0.4/0.2m x 4/Ø6	DC BOW	50AF/30AT	Z9D-48/10V/120V, 50W	2A 3A	DM-Z2C DM-Z2C DM-Z2C	SSCO SSCO SSCO	XO100/S600	JULS-70	NKT 4.0sq x 4c	
INVER		KUK DONG HOIST			DONG-A	SHIN HAN CORE	-	ONE SENS LS GCE-IL	SAW HNA	KLK DONG	JUNG NO	SCCL	
						KOM-2M-3.0T-1-15		DRAWING	DESIGN	CHECKED	SCALE	DATE	
						HOISTING & TRAVERSING		K.M.Soo		M.H.Kim			
						POWER CIRCUIT DIAGRAM		KUK DONG HOIST CO., LTD.					DWG. NO
DATE	REVISIONS	CHK.	APP.										

POWER CIRCUIT

HOISTING MOTION

TRAVERSING MOTION

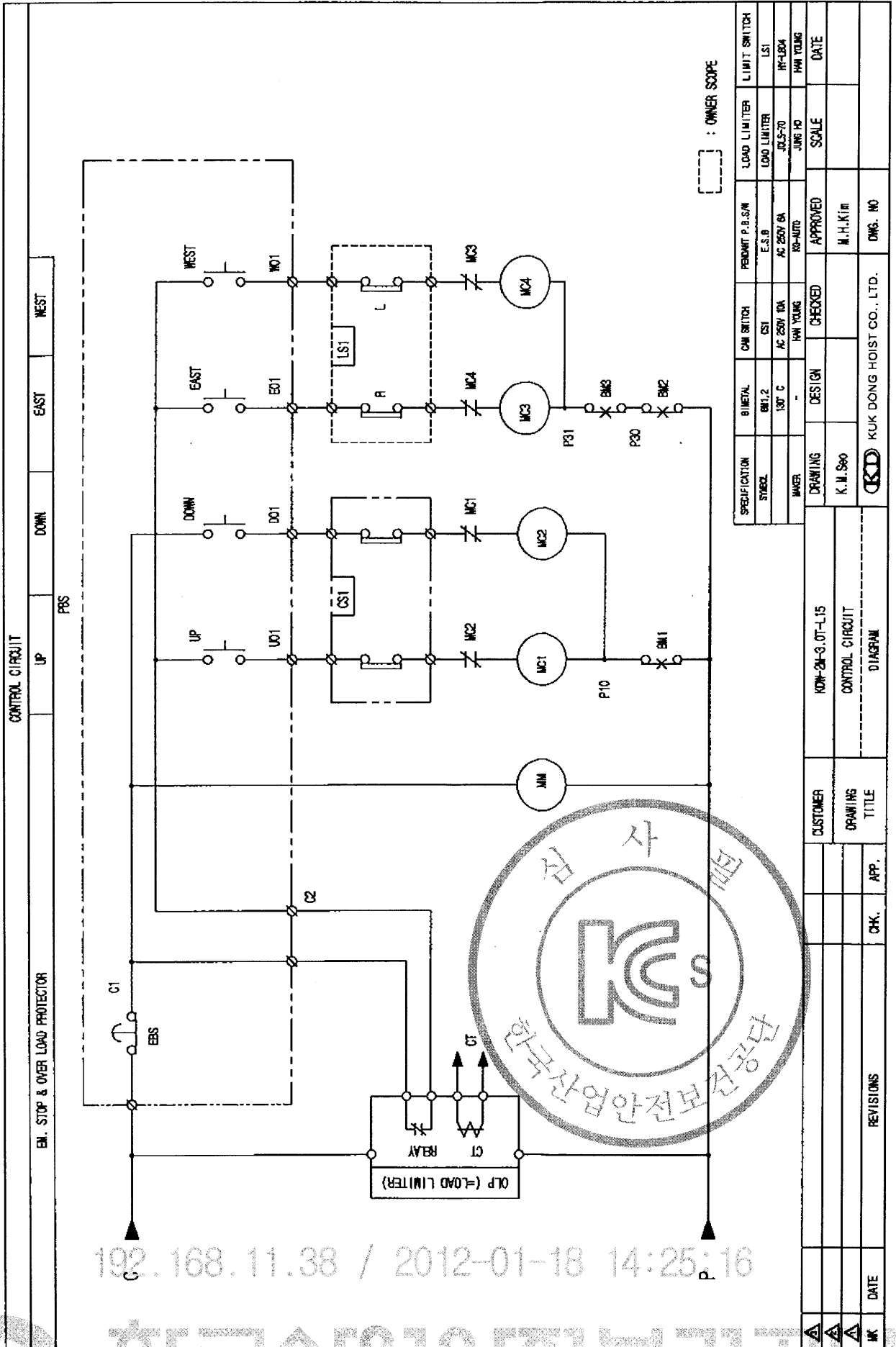


SPECIFICATION	HOISTING POWER	HOISTING MOTOR	TRAVERSING MOTOR	DC MAG. 90V	MF FUSE BREAKER	TRANSFORMER	FUSE	MINI MAGNETIC CONTACTOR	MAGNETIC CONTACTOR	ELECTRONIC OVER CURRENT RELAY	HALF WAVE RECTIFIER	LOAD LIMITER	CABLE
SYMBOL	HOIST	M1	M2	DB	MC23	TR	F11, 12	MM	MC1.2	MC3.4	MC-HL2	MC-HL1	MC-HL2
3.0TON AC 3φ 380V 60Hz	3.0TON AC 3φ 380V 60Hz	0.4/0.25 x 4/PP	0.4/0.25 x 4/PP	DC 30V	30PF/15AT	30-40/100/150, 80A	2A	3A	CM-222	CM-222	CM-222	CM-222	CM-222
MAKER	KUK DONG HOIST	KUK DONG HOIST	KUK DONG HOIST		DONG-A	SHIN HAN COE			DAE SUNG	DAE SUNG	DAE SUNG	DAE SUNG	DAE SUNG
DATE	REVISIONS	CHK.	APP.	DRAWING TITLE				KOH-2A-3, 0T-1.5				HOISTING & TRAVERSING	
DATE	REVISIONS	CHK.	APP.	POWER CIRCUIT DIAGRAM				K.M. SGO				DESIGN	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				CHECKED	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				APPROVED	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				SCALE	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				JUNG HO	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				JUNG HO	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				JUNG HO	
DATE	REVISIONS	CHK.	APP.	KUK DONG HOIST CO., LTD.				K.M. SGO				JUNG HO	

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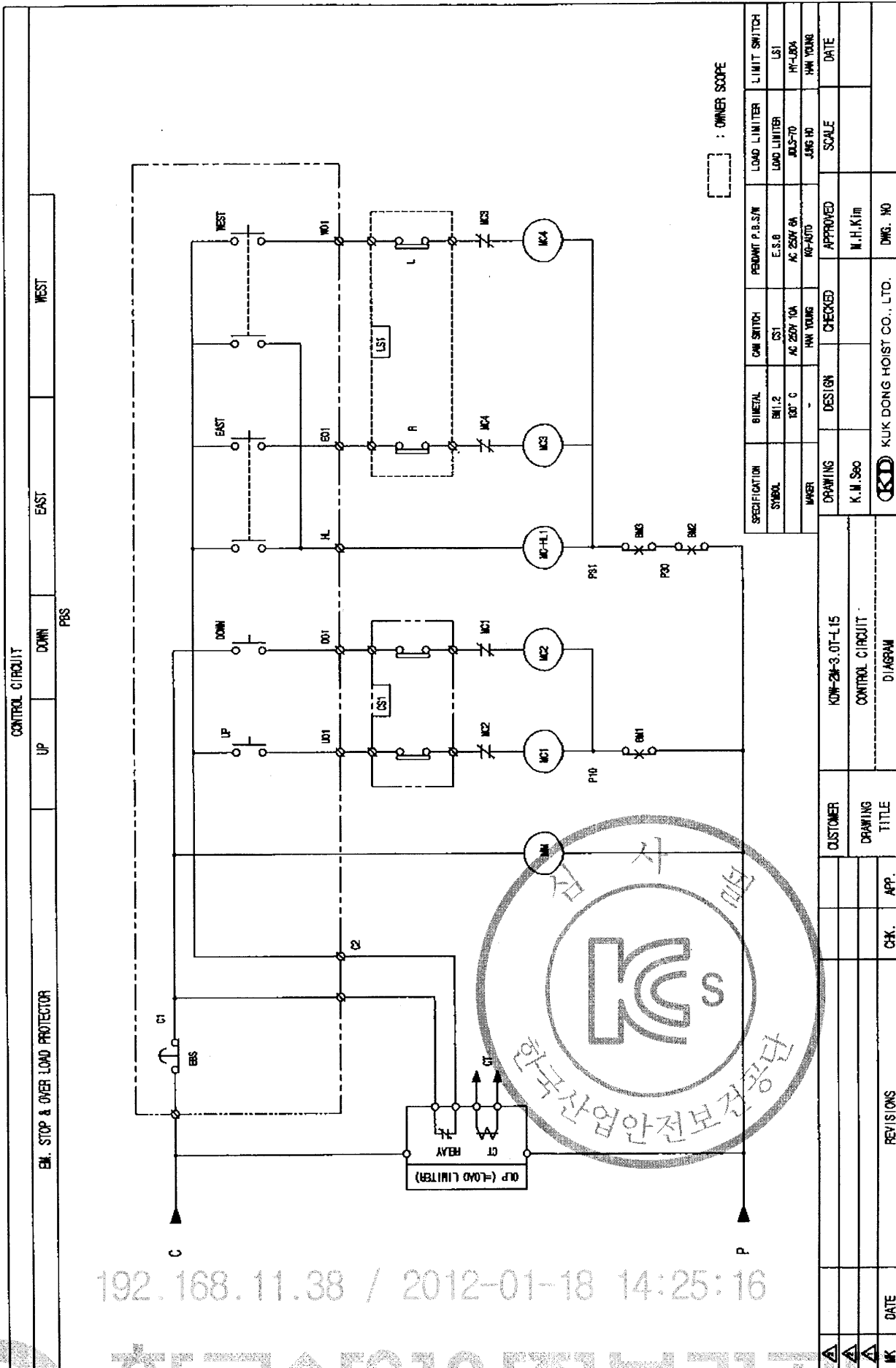
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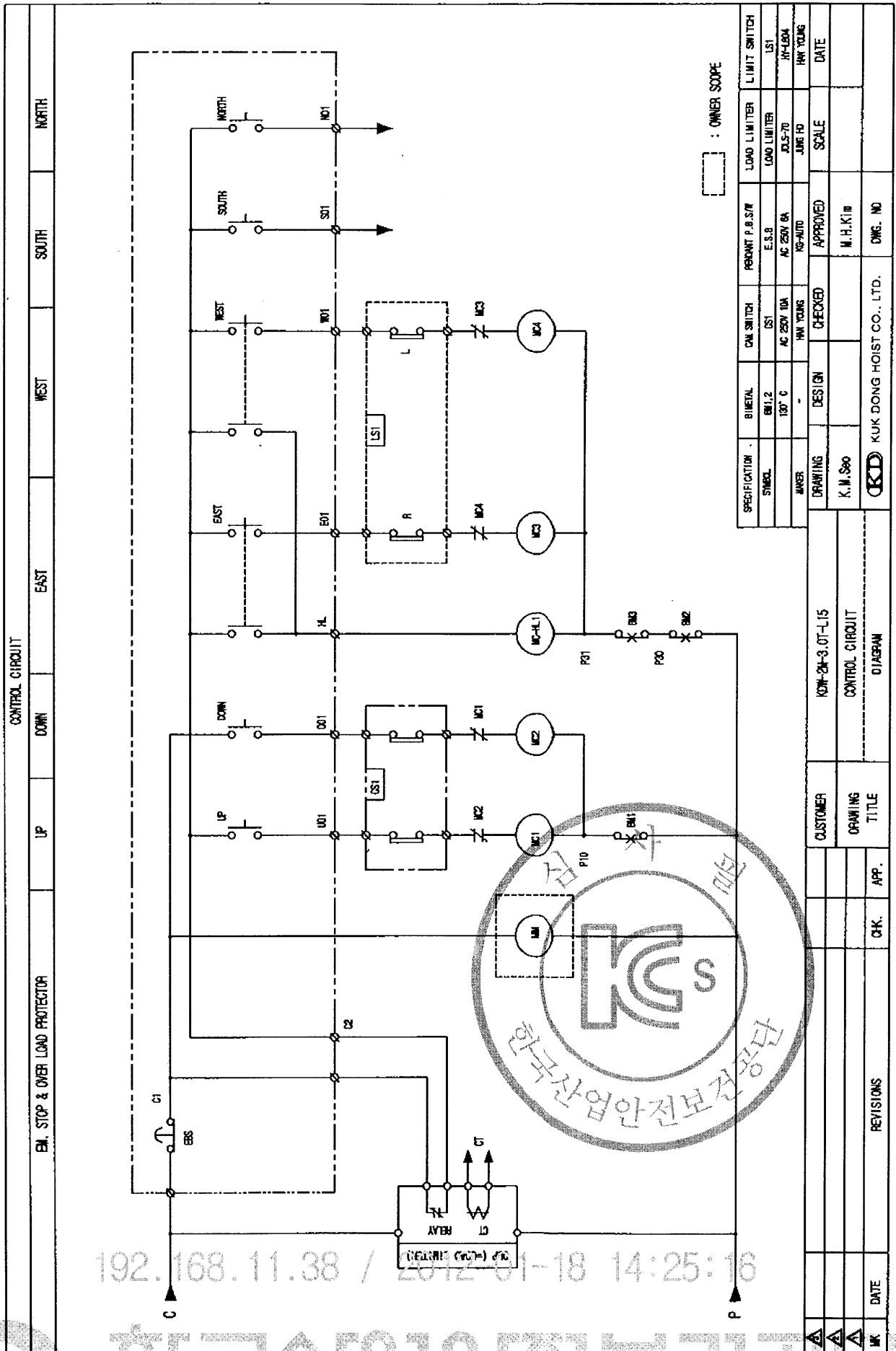
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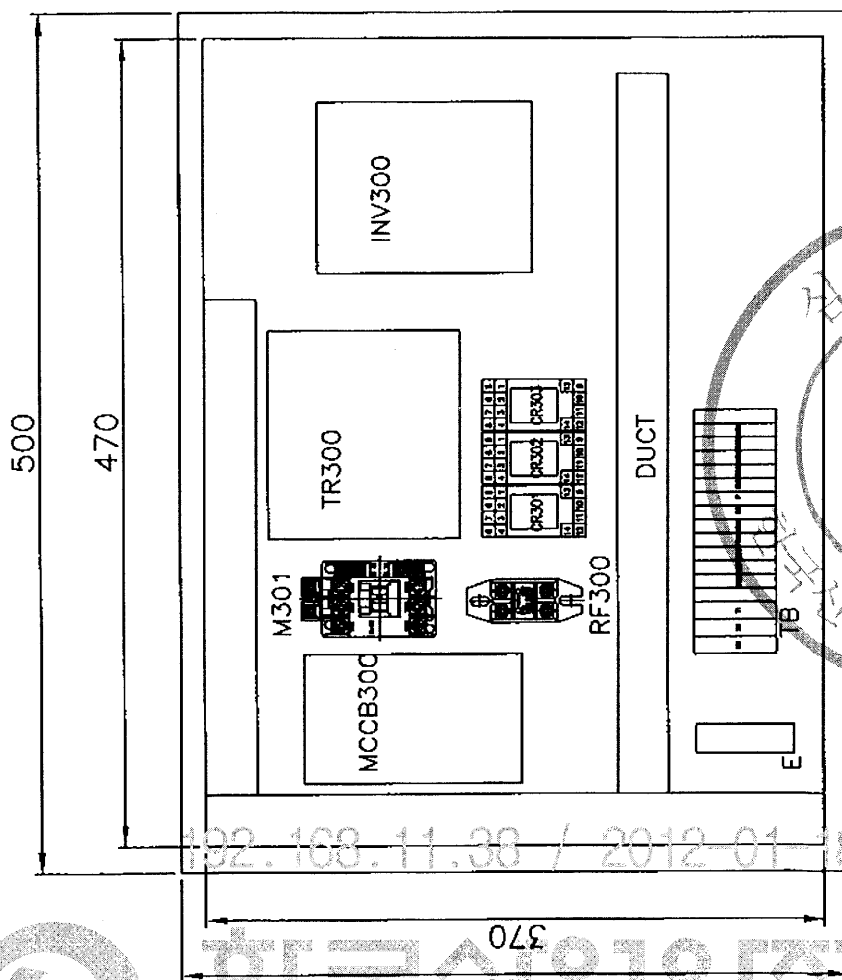
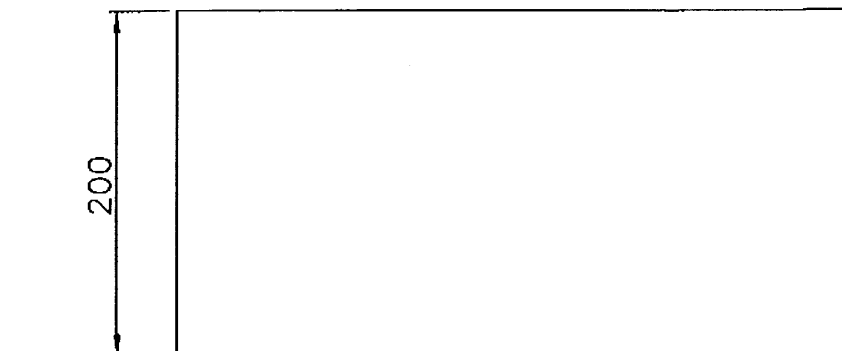
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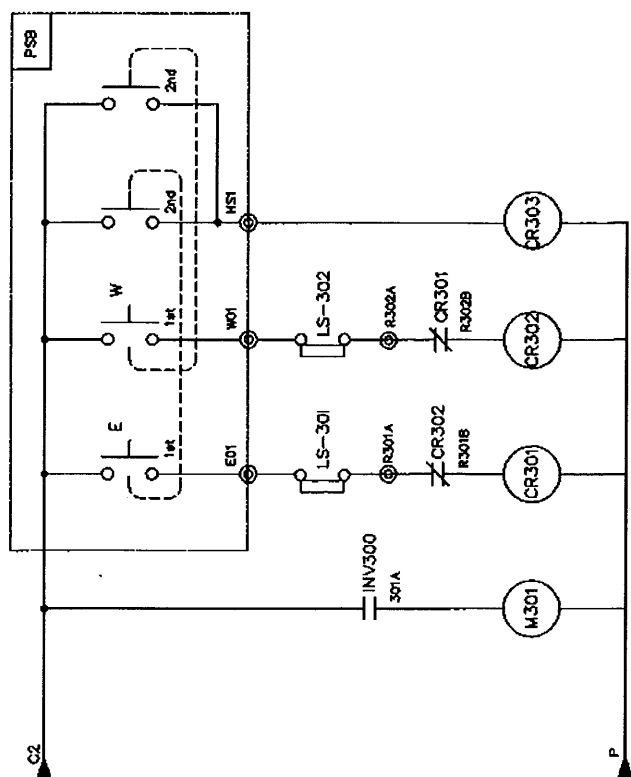
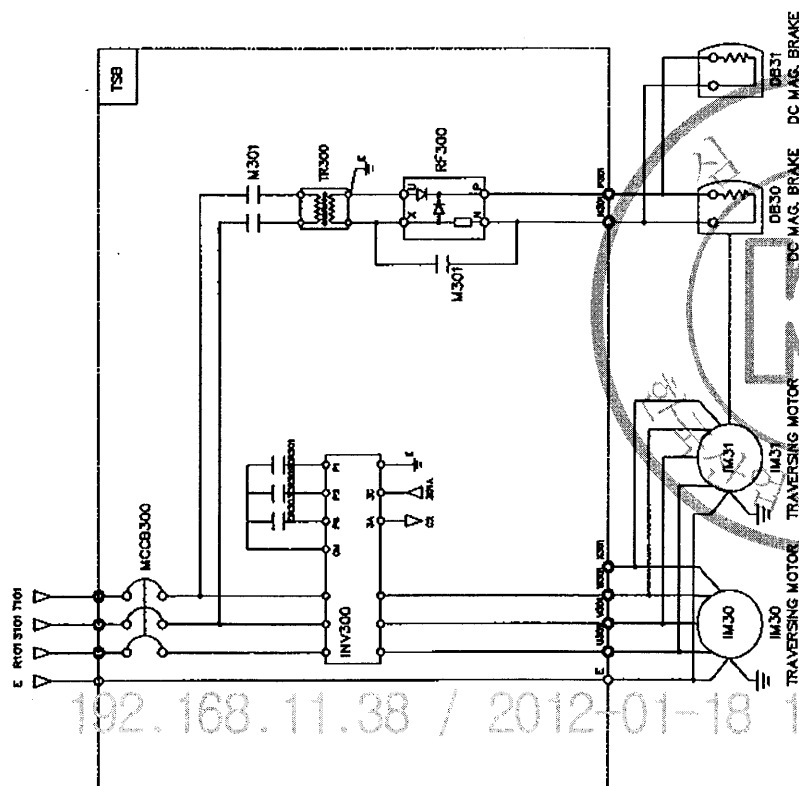


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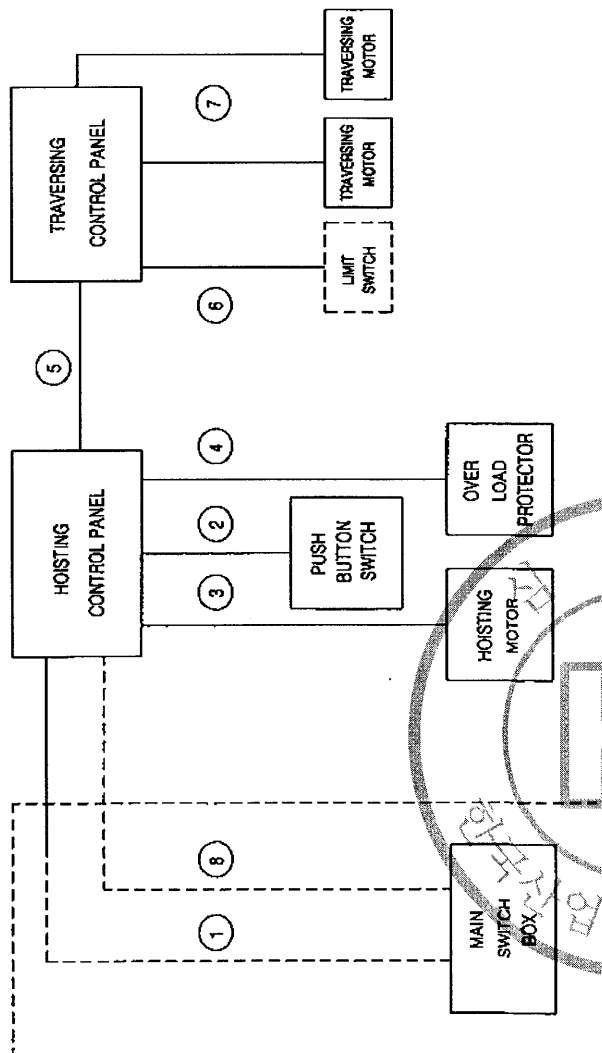
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P	201	INVERTER	MOT	INVERTER	(MS)
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[illegible]

KD



NO.	CABLE SPEC.
1	220(380)V VCT 4.0sq x 4C
	440/480/480V VCT 4.0sq x 4C
2	220(380)V VCT 1.5sq x 7C or 10C
	440/480/480V KIV 4.0sq x 7C KIV 4.0sq x 4C
3	VCT 0.75sq x 8C
4	VCT 2.5sq x 7C or 10C
5	VCT 1.5sq x 2C x 2EA
6	VCT 2.5sq x 7C x 2EA
7	VCT 2.5sq x 7C or 10C
8	VCT 2.5sq x 7C or 10C

- * 제어용 전선은 KIV 2.5SQ 이상을 사용한다.
- * 1번 CABLE은 저작시 1M를 인출하고,
나머지 길이에 대해서는 OWNER SCOPE임.
- * 3번선은 HOIST BODY를 관통하여 HOIST CONTROL
PANEL로 가는 선으로 외부로 인출되어 있지 않기
때문에 CABLE이 아니라 KIV 전선을 사용함

NO	PARTS NAME		MATERIAL		QTY	SIZE	WEIGHT	REMARK
SCALE	NS	DESIGNED	CHECKED	APPROVED	TITLE	CABLE CONNECTION DIAGRAM		
		K.M.Seo		M.H.Kim		KDW-2M-3.0T-L15		
PRO-SECTION						3ø	220/380/440/460/480V	60-Hz
 KUK DONG HOIST CO., LTD.					DWG NO.			

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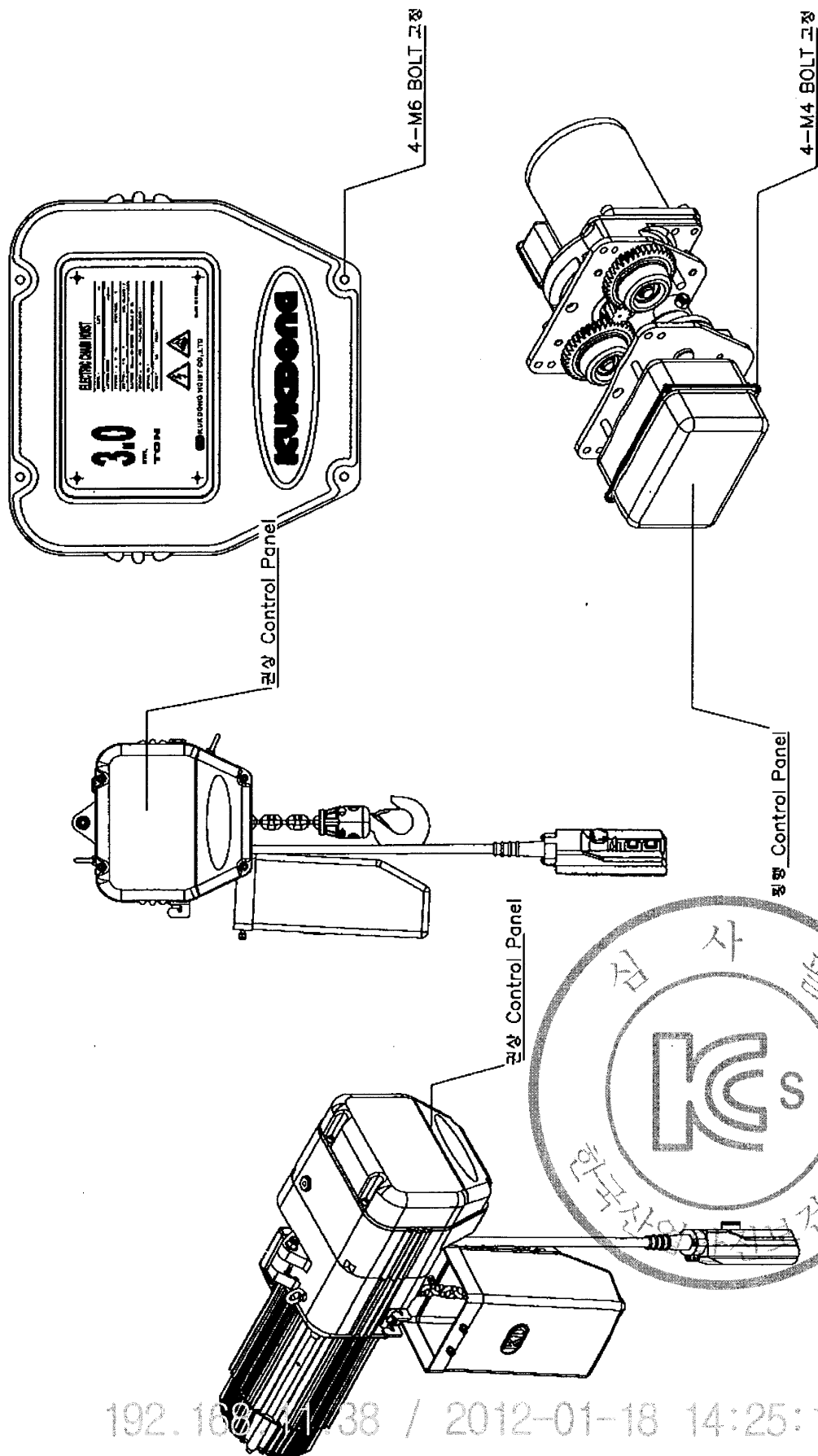
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OWNER SCOPE

KUK DONG SCOPE

NO.	PARTS NAME			MATERIAL		QTY	SIZE	WEIGHT	REMARK
	SCALE	NS	DESIGNED	CHECKED	APPROVED				
	PRO-SECTION		K.M.Seo			TITLE	GROUND WIRE SYSTEM		
							KDW-2M-3, 0T-L15		
 KUK DONG HOIST CO., LTD.						DWG NO.			

[illegible]

체인호이스트 외함은 특수공구로만 개방할수 있는 구조임.

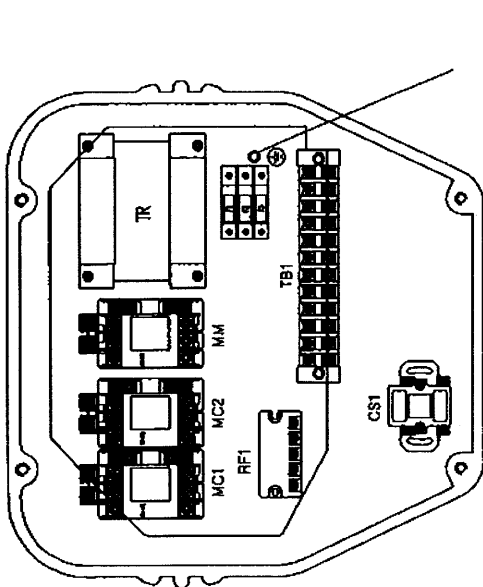
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한국산업진흥공단

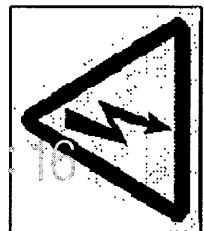
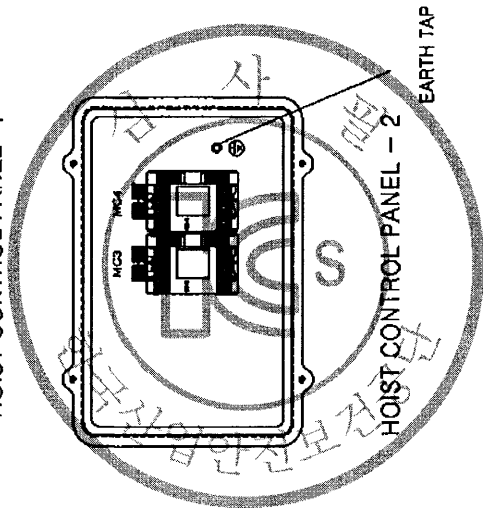
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SYMBOL	NAME	SPEC	MAKER	Q'ty
MM	MAIN MAGNETIC CONTACTOR	DM-22C	DAE SUNG	1
MC1,2	HOISTING MAGNETIC CONTACTOR	DM-22C	DAE SUNG	2
MC3,4	TRAVERSING MAGNETIC CONTACTOR	DM-22C	DAE SUNG	2
CS1	CAM SWITCH	HY-S05-SH-GP1	HAN YOUNG	1
RF1	RECTIFIER	KD-190/SR-30	KUK DONG	1
TB1	TERMINAL BLOCK	20A x 12P	HAN YOUNG	1
TR	TRANSFORMER	45VA	SHIN HAN CORE	1
F1,12	FUSE	220V 2A	—	2
		380/440/480/480V 1A	—	2
F2	FUSE	3A	—	1



HOIST CONTROL PANEL - 1



Scale	N	S	DWG.	CHK.	APP.	Title	HOIST CONTROL PANEL
Pre- jection	JANGLES		K.M.Seo		M.H.Kim		
Mass	Kg						
KDK KUK DONG HOIST CO., LTD.							DWG No.
							KDW-2M-3.0T-L15

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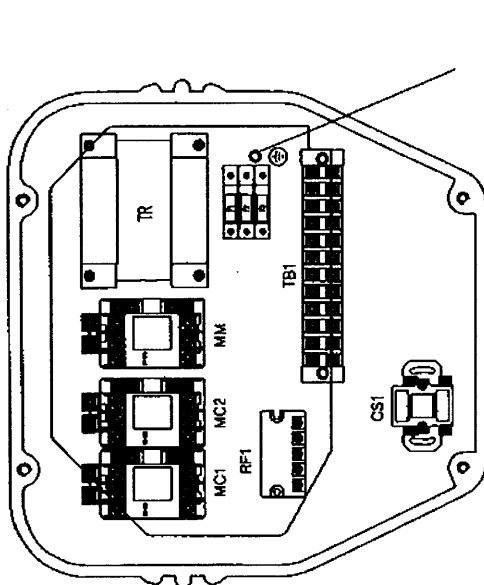
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한국산업안전보건공단

Korea Occupational Safety & Health Agency

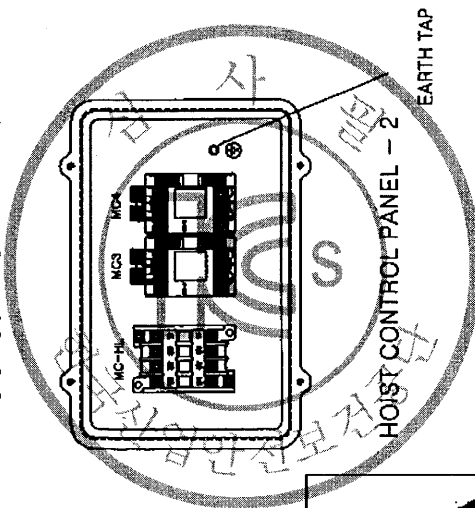
KD

SYMBOL	NAME	SPEC	MAKER	Q'ty
MM	MAIN MAGNETIC CONTACTOR	DM-22C	DAE SUNG	1
MC1,2	HOISTING MAGNETIC CONTACTOR	DM-22C	DAE SUNG	2
MC3,4	TRAVERSING MAGNETIC CONTACTOR	DM-22C	DAE SUNG	2
CS1	CAM SWITCH	HY-S05-SH-GP10	HAN YOUNG	1
RF1	RECTIFIER	KD-190/SR-30	KUK DONG	1
TB1	TERMINAL BLOCK	20A x 12P	HAN YOUNG	1
TR	TRANSFORMER	45VA	SHIN HAN CORE	1
F1,12	FUSE	220V 300/400/480/480V	—	2
F2	FUSE	1A	—	2
MC-HL	HIGH SPEED MAGNETIC CONTACTOR	3A	—	1
		CMC10	CHE-IL	1

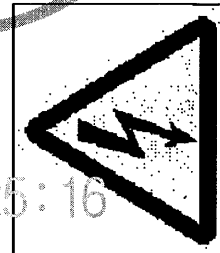


EARTH TAP

HOIST CONTROL PANEL - 1



HOIST CONTROL PANEL - 2



Scale	N	S	DWG.	CHK.	APP.	HOIST CONTROL PANEL
Pro- jection	SANGLES	K.M.Seo	M.H.Kim			Title
Mass	Kg					
KUK DONG HOIST CO., LTD.						DWG No.
KD						KDW-2M-3.0T-L15

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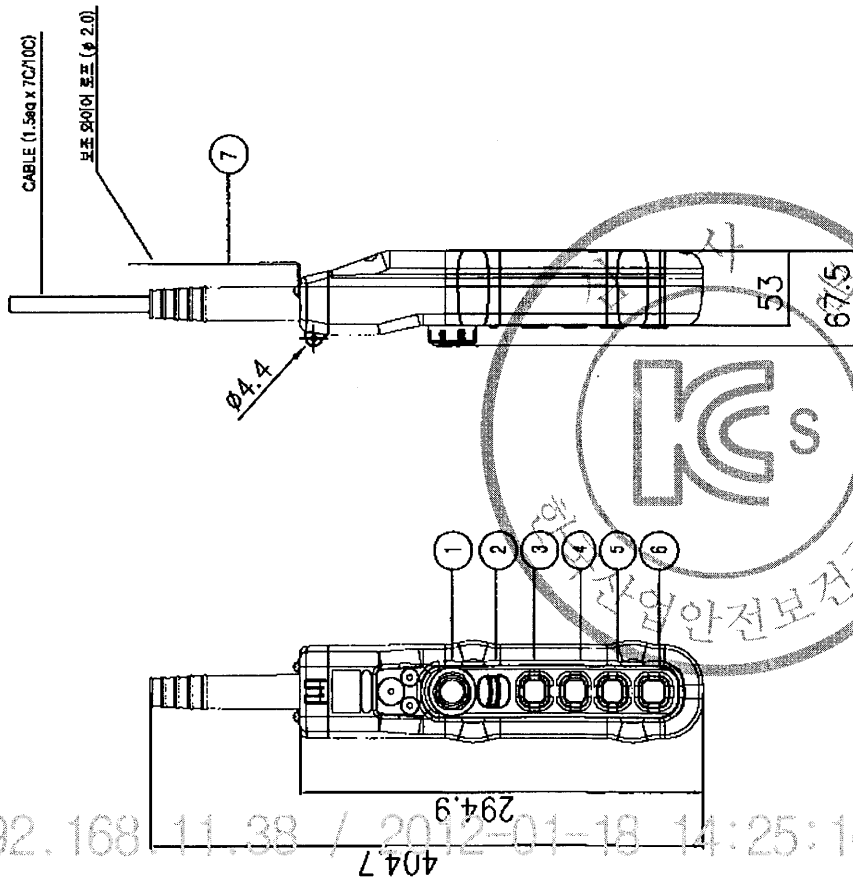
색상	구분	조작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색 - 흑색		지정된의미없음	기타

* MATERIAL : POLYCARBONATE (PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

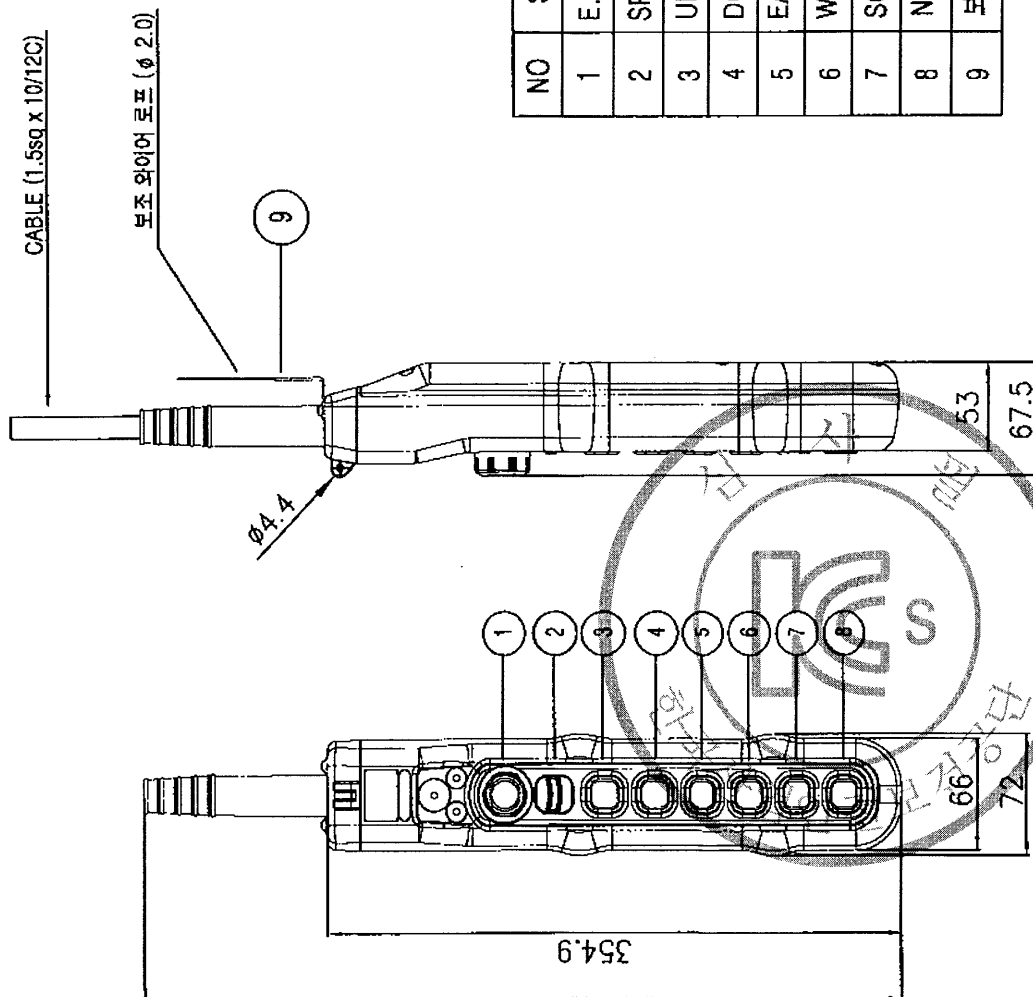
NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			
3	UP	PUSH BUTTON 1STEP		BLACK
4	DOWN	PUSH BUTTON 1STEP		
5	EAST	PUSH BUTTON 1STEP		
6	WEST	PUSH BUTTON 1STEP		
7	보조 와이어	ø 2.0		



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

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

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

NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			BLACK
3	UP	PUSH BUTTON 1STEP		
4	DOWN	PUSH BUTTON 1STEP		
5	EAST	PUSH BUTTON 1STEP		
6	WEST	PUSH BUTTON 1STEP		
7	SOUTH	PUSH BUTTON 1STEP		
8	NORTH	PUSH BUTTON 1STEP		
9	보조 WIRE	φ 2.0		

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

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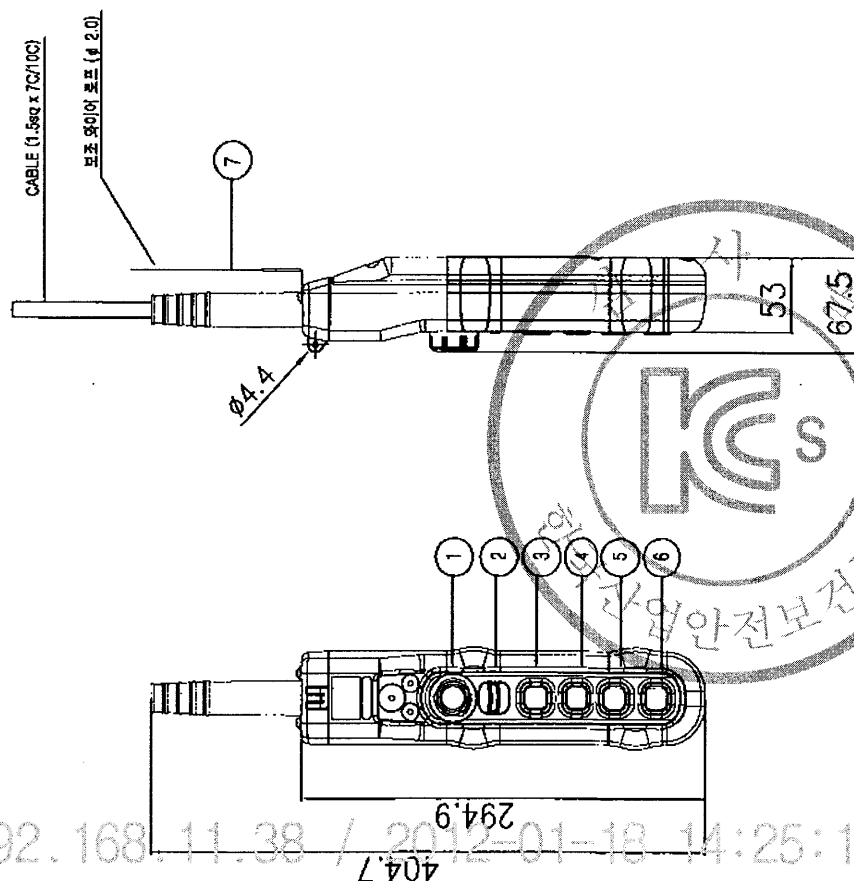
색상	구분	조작버튼	표시등
적색		비상	비상
황색		비정상	비정상
녹색		정상	정상
청색		의무	의무
흰색, 회색 - 흑색		지정된의미없음	기타

* MATERIAL : POLYCARBONATE(PLASTIC)

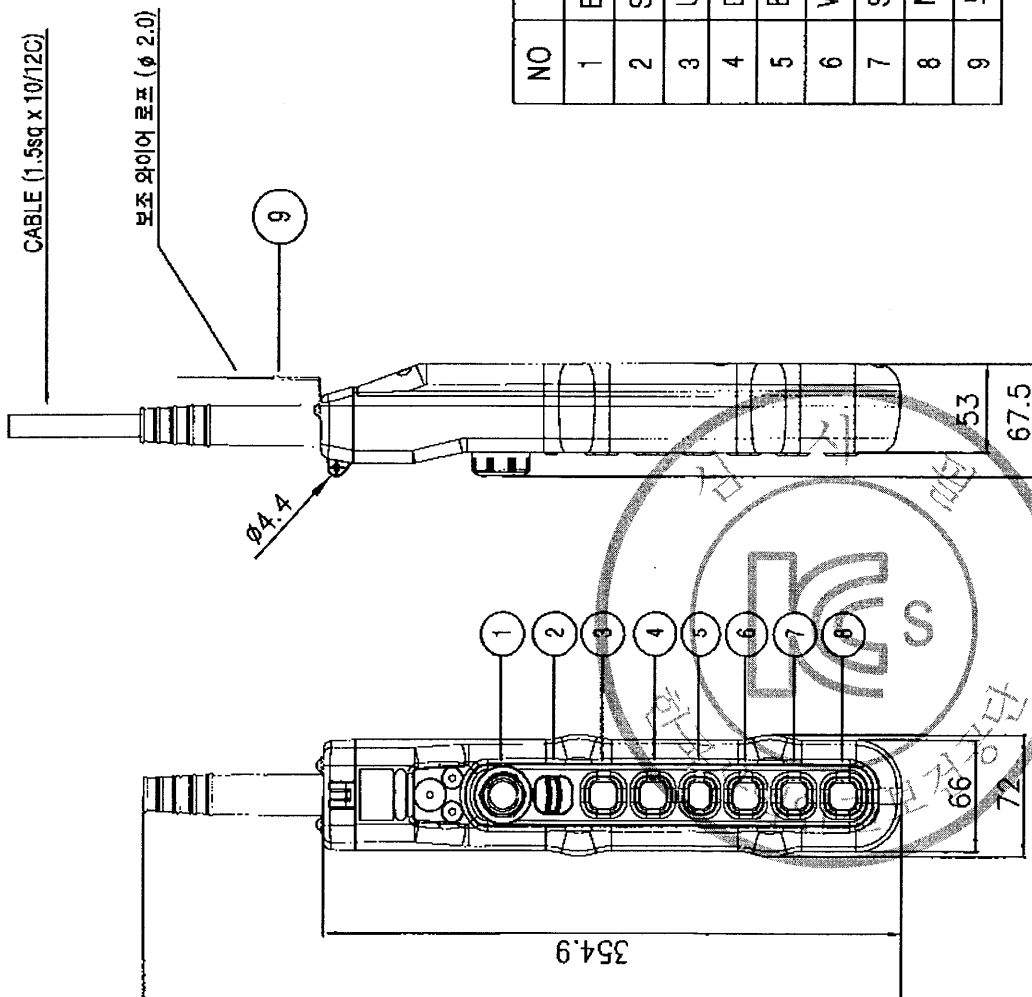
* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			
3	UP	PUSH BUTTON 1STEP		BLACK
4	DOWN	PUSH BUTTON 1STEP		
5	EAST	PUSH BUTTON 2STEP		
6	WEST	PUSH BUTTON 2STEP		
7	보조 와이어	φ 2.0		



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

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

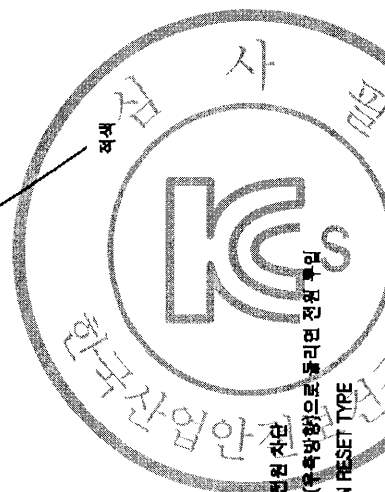
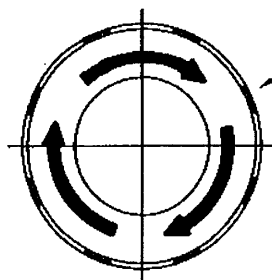
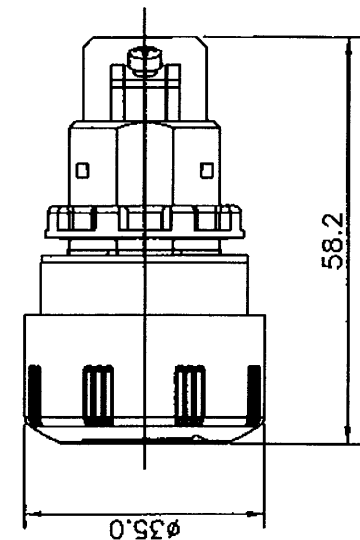
NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			BLACK
3	UP	PUSH BUTTON 1STEP		
4	DOWN	PUSH BUTTON 1STEP		
5	EAST	PUSH BUTTON 2STEP		
6	WEST	PUSH BUTTON 2STEP		
7	SOUTH	PUSH BUTTON 1STEP		
8	NORTH	PUSH BUTTON 1STEP		
9	보조 WIRE	φ 2.0		

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

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192.168.11.38 / 2012-01-18 14:25:16

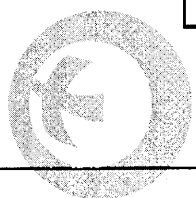
KD



* 작동원리 : 비상시 누르면 전원 차단
자동락시 우측(우측방향)으로 돌리면 전원 복귀
* TYPE : PUSH LOCK TURN RESET TYPE

REMARK	UNIT	TOTAL WEIGHT(Kg)	SIZE	Q'TY	MATERIAL	C'TY	NO	DESCRIPTION	DWG-BY	CHK-BY	Title	DWG No.	
													Scale
EMERGENCY BUTTON SWITCH KG-E100									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
EMERGENCY BUTTON SWITCH KG-E100									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
EMERGENCY BUTTON SWITCH KG-E100									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
EMERGENCY BUTTON SWITCH KG-E100									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	
									1/8"	3/16"	K.M.S60	M.H.Kim	

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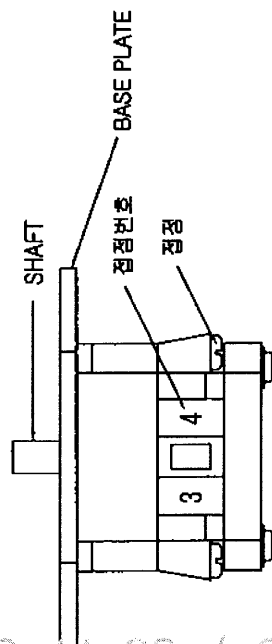
한국산업안전보건공단

KOSHA OCCUPATIONAL SAFETY & HEALTH AGENCY

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KD

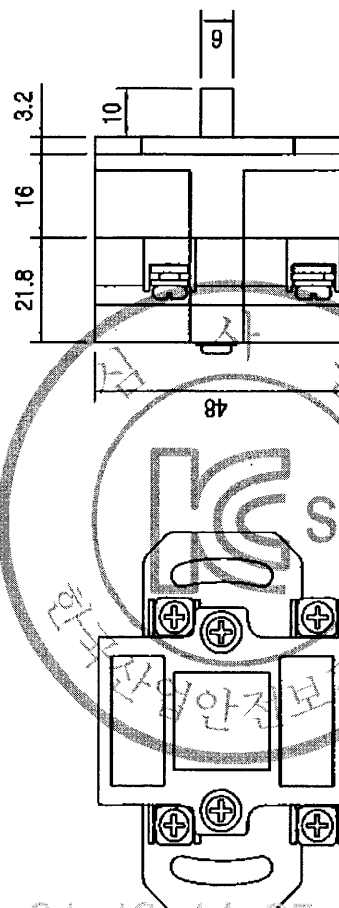
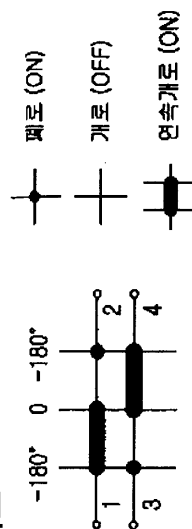
▶ 외형도



▶ 사양

용량	250V 10A
접환단수	2단
구성회로선수	1선
SHAFT	360° 회전 가능할것.

▶ 접속도



NO	PARTS NAME			MATERIAL	QTY	SIZE	WEIGHT	REMARK
SCALE	NS	DESIGNED	CHECKED	APPROVED	CAM SWITCH (권과방지장치)			
PRO-SECTION	ANGLES	K.M.Soo		M.H.Kim	HY-SQ5-SH-GP1권			
KDK KUK DONG HOIST CO., LTD. NO.					DWG			

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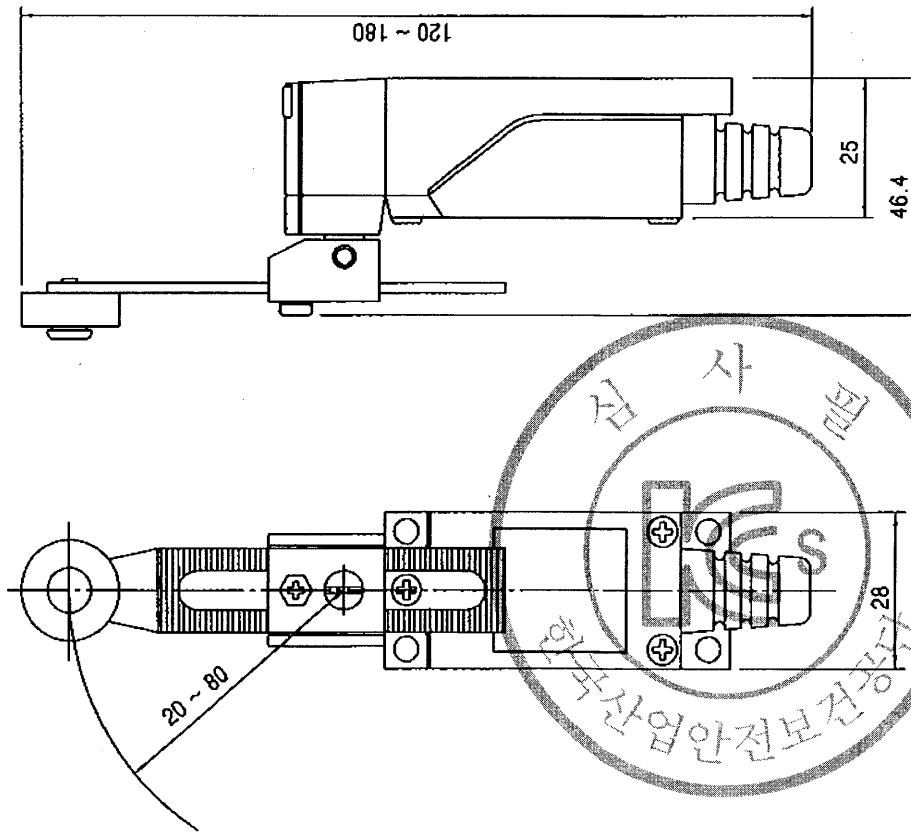
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KD

* 사양

수명	기계적	100만회 이상
	전기적	10만회 이상
사용주위온도		-10°C ~ +70°C
	사용주위습도	95% 이하
용량		250V 5A
구성점		1a 1b
사용점		1b

* 내장스위치 회로도

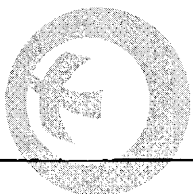


NO	DESCRIPTION	MATERIAL	QTY	SIZE	UNIT	TOTAL WEIGHT(KG)	REMARK
Scale	DWG.	CHK.	APP.				
Pro-Section	K.M. Sec						
Mass	Kg						
							LIMIT SWITCH
							HY - L804

KDK KUK DONG HOIST CO., LTD.

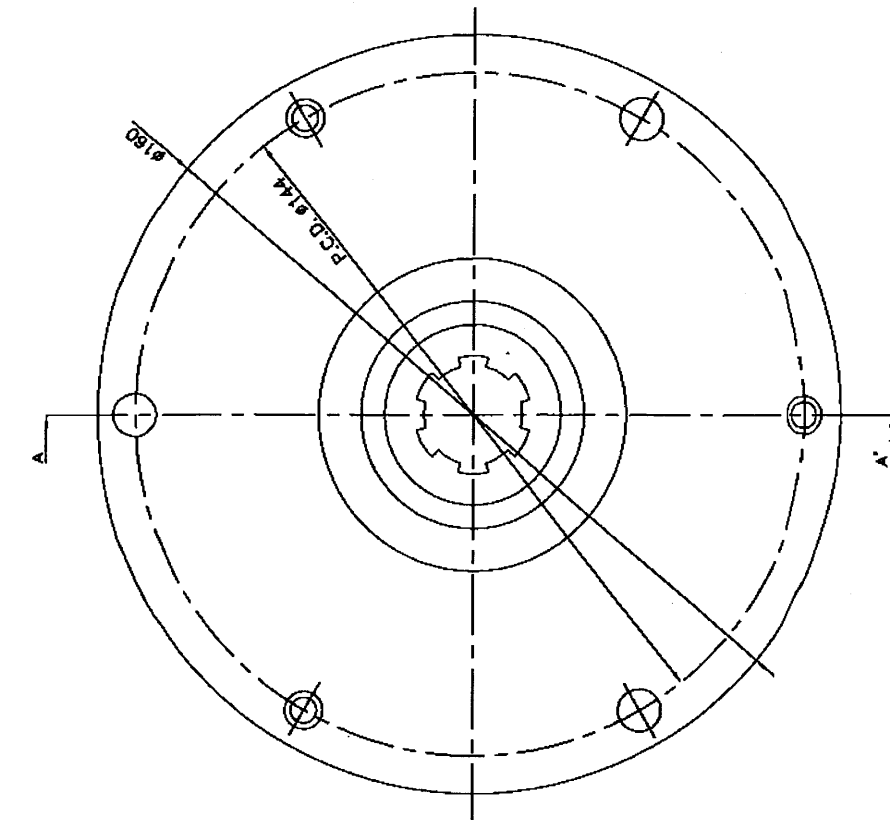
DWG No.

192.168.11.38 / 2012-01-18 14:25:16



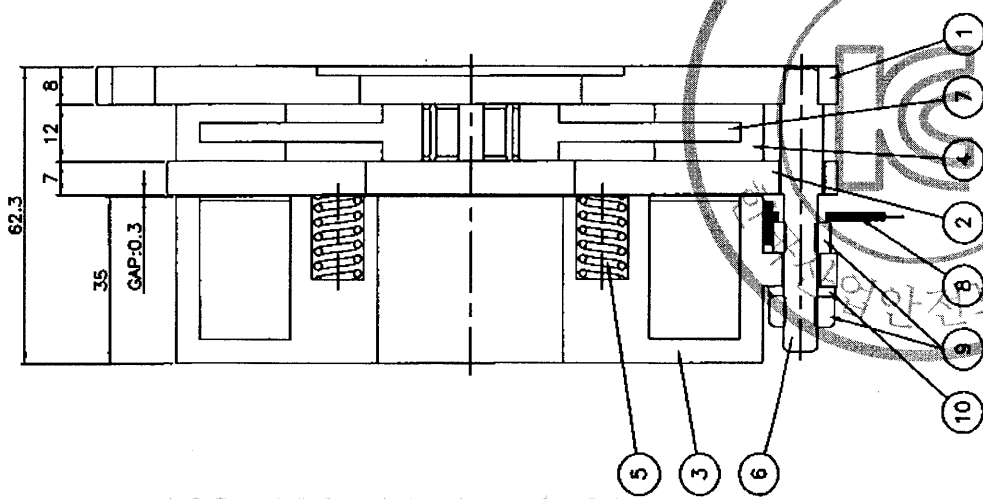
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SPECIFICATION	
TORQUE	2.0 kgf-m 이상
VOLTAGE	DC 90/190V
INSULATION CLASS	F

* STAY BOLT 핀버드여 유의할 것.
 * 최대 GAP(COIL) AMATEUR를 출안하심을 꼭 원할하게
 적용할 수 있는 GAP)이 1mm 이상일 것.



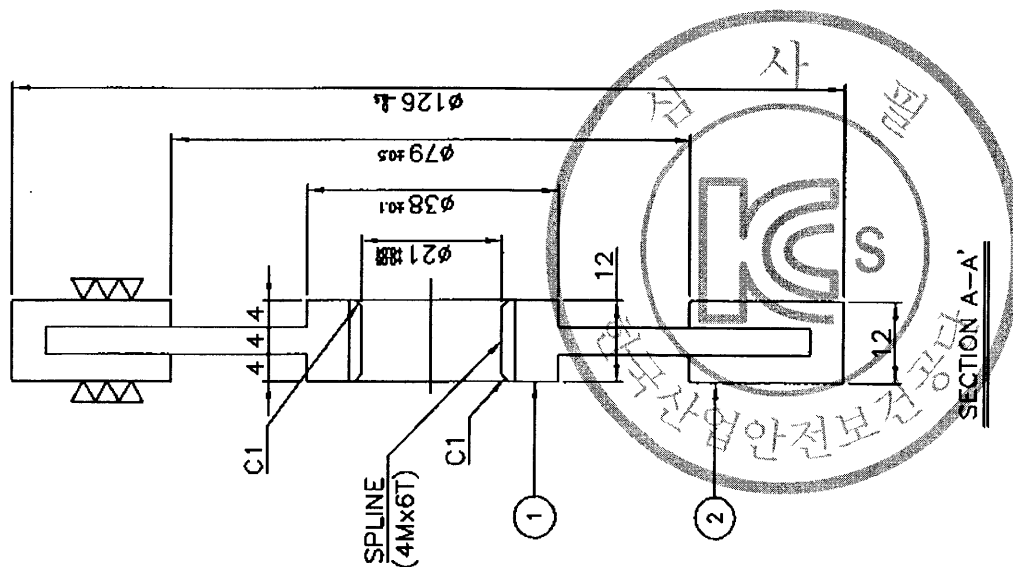
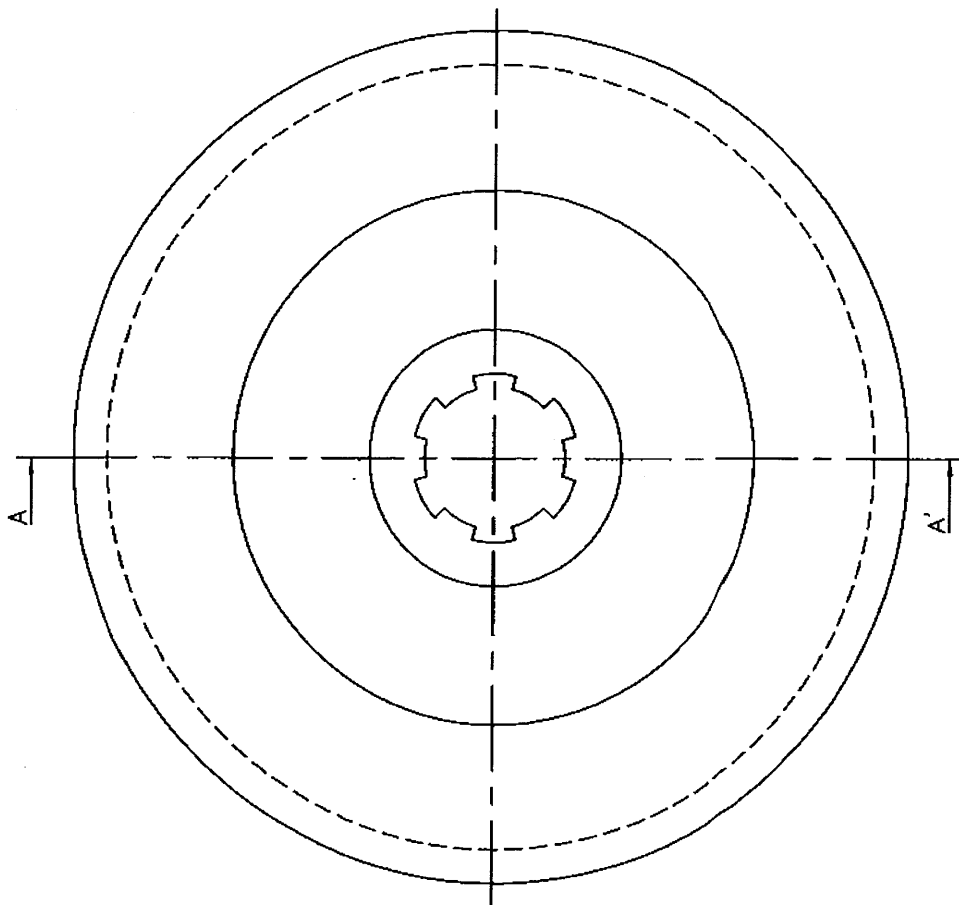
NO.	DESCRIPTION	MATERIAL	QTY	SIZE	REMARK	NO.	DESCRIPTION	MATERIAL	QTY	SIZE	REMARK
1	FLANGE	SS41	1	110x8	KD-2	6	STAY BOLT	S45C	3	110x58.5	KD-2
2	ARMATURE	SS41	1	110x7	KD-2	7	LINING PLATE	SS41	1	116x12	KD-2
3	COIL	SS41 #	1	110x35	KD-2	8	LEAD WIRE	TAPRON	1		KD-2
4	LINING	Non-ASBESTOS	1	112x12	KD-2	9	Hex. NUT	PUR.	6	M8	KD-2
5	SPRING	SUP3	5		KD-2	10	SPRING WASHER	PUR.	3	M8	KD-2

1	07.02.05	Rev-Drawing	1.E.Lee		
2	06.03.08	FIRST ISSUE	H.S.Kim		
REVISION RECORD			CHK.	APP.	
Scale	N/S	DATE	kg	mm	
Pro-portion	1/1	1/1	1/1	1/1	1/1
ELECTRIC CHAIN HOIST			DC BRAKE ASS'Y		
KD-2 DC Brake					
KUK DONG HOIST CO., LTD.					

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NO	DESCRIPTION	MATERIAL	QTY	SIZE	REMARK
1	LINING PLATE	SS41	1	ø16x12	KD-2
2	LINING	Non-ASBESTOS	1	ø126x12	KD-2



1	07.02.06	Re-Drawing	J.E.Lee	J.E.Lee
2	08.03.09	FIRST ISSUE	H.S.Ohm	H.S.Ohm
3	08.03.09	REVISION RECORD	DMC	CHK APP.
4	08.03.09	Scale	1:1	1:1
5	08.03.09	Unit	mm	mm
6	08.03.09	Weight	kg	kg
7	08.03.09	Material	SS41	SS41
8	08.03.09	Finish	0.05	0.05
9	08.03.09	Surface	0.05	0.05
10	08.03.09	Hardness	120	120
11	08.03.09	Strength	120	120
12	08.03.09	Stress	120	120
13	08.03.09	Temperature	120	120
14	08.03.09	Corrosion	120	120
15	08.03.09	Welding	120	120
16	08.03.09	Painting	120	120
17	08.03.09	Assembly	120	120
18	08.03.09	Disassembly	120	120
19	08.03.09	Inspection	120	120
20	08.03.09	Storage	120	120
21	08.03.09	Transportation	120	120
22	08.03.09	Installation	120	120
23	08.03.09	Operation	120	120
24	08.03.09	Maintenance	120	120
25	08.03.09	Repair	120	120
26	08.03.09	Replacement	120	120
27	08.03.09	Removal	120	120
28	08.03.09	Disposal	120	120
29	08.03.09	Recycling	120	120
30	08.03.09	Other	120	120

SECTION A-A'

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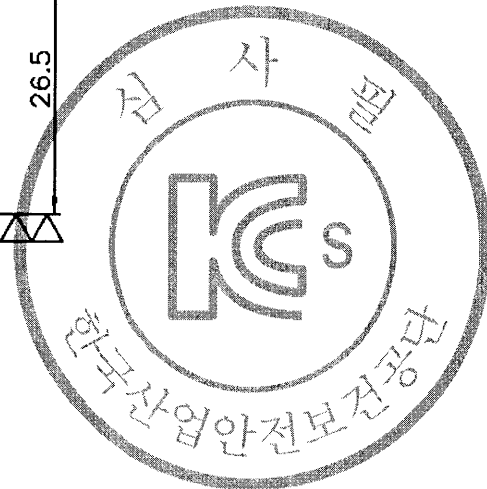
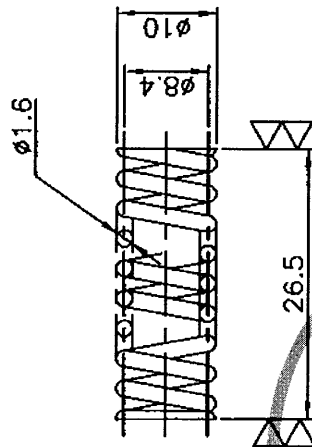
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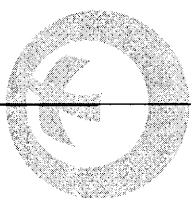
NO	DESCRIPTION	MATERIAL	QTY	S...	REMARK
1	SPRING	SUP3	5		KD-2

선경	ø1.6
PCD	ø8.4
총권수	9
유효권수	7
자유장	26.5
변위량 (압축거리)	6.75
수량	5



1	07.02.06	Re-Drawing	J.E.Lee	J.E.Lee
2	06.03.09	FIRST ISSUE	H.S.Kim	H.S.Kim
REVISION RECORD			DWG.	CHK.
No.	DATE	DESCRIPTION	NAME	KG
1	07.02.06	Re-Drawing	J.E.Lee	J.E.Lee
ELECTRIC CHAIN HOIST				
SPRING				
KD-2 DC Brake				
KUK DONG HOIST CO., LTD.				

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◆ DATA SHEET OF MOTOR ◆

1	APPLICATION : HOISTING MOTOR			2	MOTOR TYPE : SQUIRREL CAGE INDUCTION MOTOR		
3	OUTPUT : 3.3 [kw]			4	POLES : 4		
5	SPEED : 1740 [rpm]			6	INSULATION CLASS : F		
7	STARTING METHOD : ACROSS THE LINE STARTER (FULL VOLTAGE)			8	RATING : 30 [min]		
9	POWER SUPPLY	220V 380V AC 3Φ 440V 60Hz 460V 480V		10	NO LOAD CURRENT [A]	220V 380V 440V 460V 480V	7.1 4.11 3.55 3.4 3.25
11	FULL LOAD CURRENT [A]	220V 380V 440V 460V 480V	13.0 7.53 6.50 6.00 5.96	12	STARTING CURRENT [A]	220V 380V 440V 460V 480V	55.3 32.02 27.65 26.45 25.35
13	WINDING CONNECTION	220V 380V 440V 460V 480V	DELTA STAR STAR STAR STAR	14	MINIMUM STARTING VOLTAGE [V]	220V 380V 440V 460V 480V	198 342 396 414 432
15	EFFICIENCY : 82.8 [%]			16	POWER FACTOR : 77.7 [%]		
17	FULL LOAD TORQUE : 1.84 [kg · m]			18	STARTING TORQUE : 279 [%]		
19	BEARING : OPL – 6009Z , PL – 6206Z			20	NOISE LEVEL : 65 [dB]		
21	PAINTING COLOR : 0.4PB 4.2/5.6			22	ROTATION : CCW & CW		
23	ENCLOSURE : TENV			24	NET WEIGHT : 30.7 [kg]		
25	BEARING LUBRICATION : GREASE			26	LOCATION : OUT DOOR		
27	TEMPERATURE RISE AT FULL LOAD : BY RESISTOR METHOD : 90 [°C]						

◆ DATA SHEET OF MOTOR ◆

1	APPLICATION : TRAVERSING MOTOR			2	MOTOR TYPE : SQUIRREL CAGE INDUCTION MOTOR		
3	OUTPUT : 0.4 [kw]			4	POLES : 4		
5	SPEED : 1650 [rpm]			6	INSULATION CLASS : F		
7	STARTING METHOD : ACROSS THE LINE STARTER (FULL VOLTAGE)			8	RATING : 30 [min]		
9	POWER SUPPLY	220V 380V AC 3Φ 440V 60Hz 460V 480V		10	NO LOAD CURRENT [A]	220V 380V 440V 460V 480V	1.8 1.0 0.9 0.86 0.83
11	FULL LOAD CURRENT [A]	220V 380V 440V 460V 480V	2.6 1.5 1.3 1.24 1.19	12	STARTING CURRENT [A]	220V 380V 440V 460V 480V	13.2 7.6 6.6 6.3 6.1
13	WINDING CONNECTION	220V 380V 440V 460V 480V	DELTA STAR STAR STAR STAR	14	MINIMUM STARTING VOLTAGE [V]	220V 380V 440V 460V 480V	198 342 396 414 432
15	EFFICIENCY : 73.0 [%]			16	POWER FACTOR : 72.0 [%]		
17	FULL LOAD TORQUE : 0.23 [kg · m]			18	STARTING TORQUE : 224 [%]		
19	BEARING : OPL – 6204Z , PL – 6202Z			20	NOISE LEVEL : 65 [dB]		
21	PAINTING COLOR : 0.4PB 4.2/5.6			22	ROTATION : CCW & CW		
23	ENCLOSURE : TENV			24	NET WEIGHT : 11.0 [kg]		
25	BEARING LUBRICATION : GREASE			26	LOCATION : OUT DOOR		
27	TEMPERATURE RISE AT FULL LOAD : BY RESISTOR METHOD : 90 [°C]						

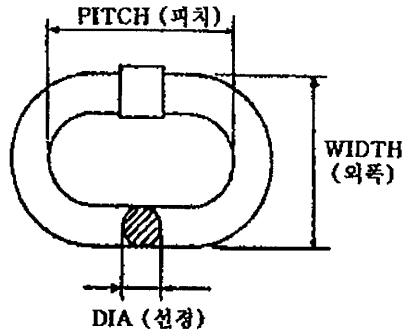
◆ DATA SHEET OF MOTOR ◆

1	APPLICATION : TRAVERSING MOTOR			2	MOTOR TYPE : SQUIRREL CAGE INDUCTION MOTOR		
3	OUTPUT : 0.4/0.2 [kw]			4	POLES : 4/8		
5	SPEED : 1650/860 [rpm]			6	INSULATION CLASS : F		
7	STARTING METHOD : ACROSS THE LINE STARTER (FULL VOLTAGE)			8	RATING : 5/15 [min]		
9	POWER SUPPLY	220V 380V AC 3Φ 440V 60Hz 460V 480V		10	NO LOAD CURRENT [A]	220V 380V 440V 460V 480V	2.33/2.8 1.35/1.62 1.17/1.4 1.12/1.34 1.07/1.28
11	FULL LOAD CURRENT [A]	220V 380V 440V 460V 480V	2.78/2.73 1.61/1.58 1.39/1.36 1.33/1.31 1.28/1.25	12	STARTING CURRENT [A]	220V 380V 440V 460V 480V	9.7/6.05 5.6/3.5 4.84/3.02 4.63/2.9 4.5/2.8
13	WINDING CONNECTION	220V 380V 440V 460V 480V	STAR STAR STAR STAR STAR	14	MINIMUM STARTING VOLTAGE [V]	220V 380V 440V 460V 480V	187 322 373 390 425
15	EFFICIENCY : 58.8/36.4 [%]			16	POWER FACTOR : 64.3/52.8 [%]		
17	FULL LOAD TORQUE : 0.222/0.226 [kg · m]			18	STARTING TORQUE : 162/154 [%]		
19	BEARING : OPL – 6204Z , PL – 6203Z			20	NOISE LEVEL : 65/60 [dB]		
21	PAINTING COLOR : 0.4PB 4.2/5.6			22	ROTATION : CCW & CW		
23	ENCLOSURE : TENV			24	NET WEIGHT : 11.1 [kg]		
25	BEARING LUBRICATION : GREASE			26	LOCATION : OUT DOOR		
27	TEMPERATURE RISE AT FULL LOAD : BY RESISTOR METHOD : 80 [°C]						

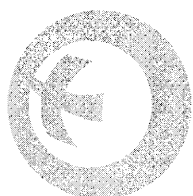
CERTIFICATE OF INSPECTION AND TEST FOR LOAD CHAIN

KUK DONG Co., Ltd.
극동호이스트(주)

주 소 : 경기도 안산시 성곡동 630-2
T E L : 031-491-5311~4
F A X : 031-492-0473

MESSERS 납 품 처		ORDER NO.		Test Certificate According to KS B 6278		
I T E M 품 명		LOAD CHAIN 9.5 Ø				
CERT No. 검사번호		KDQ-A-096				
Characteristics of the Chain 체 안 치 수	Diameter 선 경(mm)	Pitch 피치(10Link)	Width 외경너비(mm)	Weight 중량(kg/M)		
S P E C. 규 격	9.5	286	31.0	1.98		
Tolerance + 허용오차 -	0 0.1	1.2 0	Max			
Measurment 측 정 치	9.5	286.2	31.0	1.98		
Material Alloy Steel 재 질 : SAE15B24		Welding Process(용접방법) Butt Resistance Welding				
Quantity 납품수량		Weight 중량(kg)	Safe Working 안전사용하중(kgf)	Proof Load 시험하중(kgf)	Breaking Load 파단하중(kgf)	Elongation 연신율(%)
LOT No.	M					
	200		3,000 kg	6,000 kg	12,000 kg	6 %
RESULT OF TEST POSITIVE				TEST DATE : 2009. 07. 13 검 사 일 자 KUK DONG CO., LTD SIGNATURE OF TESTER 검사자 서명 : SEO, SANGYEON		
THIS TEST CERTIFICATE MUST BE KEPT FOR THREE YEARS RESP. DURING THE ENTIRE SERVICE LIFE OF THE CHAIN. 본 시험 성적서는 체인의 작업수명인 3년간 보관되어야 합니다.						
※ 로드 체인 사용 시 주의사항 1. 안전사용 하중을 초과하지 말것. 2. 충격을 가하지 말것. 3. 부식으로 부터 보호할것. 4. 체인이 꼬이지 않도록 할것.						

KUK DONG Co., Ltd.



한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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