



제 2014 - 10656 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소재지) (425-833)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 _____
KD10-D (10Ton) / 14-AQ2AC-00555

_____ 인 증 기 준 _____
고용노동부 고시 제2012 - 33호 (위험기계,기구 의무안전인증 고시)

_____ 인 증 조 건 _____

2014년 02월 28일

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)		KD10-D	용량 (등급)	10 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.

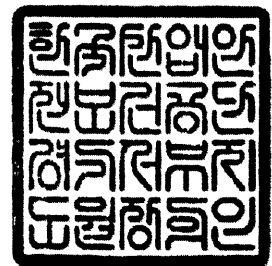
2014년 02월 18일

인증심사원

김홍태 변명수

강 (서명 또는 인)

한국산업안전보건공단 경기서부지도원장



서 면 심 사 서 류

형식 번호 : KD10-D

극 동 호 이 스트 (주)

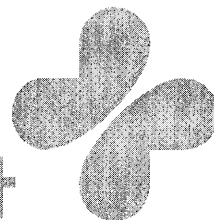
工場 : 경기도 안산시 단원구 해봉로 119 (반월공단 607-14)

電話 : 031) 491 - 5311

FAX : 031) 494 - 5315

산업재해예방
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



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- 4 방호장치 개요 및 사양
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 - 5) T/S LIMIT SWITCH
- 6 방호장치 성능 검사 합격증 사본

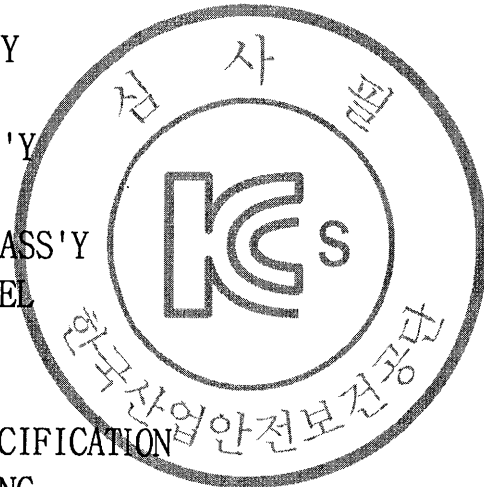
II . 도 면

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- 2) ARRANGMENT D.W.G FOR HOIST
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- 2) ELECTRICAL SPECIFICATION
- 3) 접지공사 DRAWING
- 4) HOISTING CONTROL BOX
- 5) HOISTING MAIN POWER CIRCUIT DIAGRAM
- 6) HOISTING POWER & CONTROL CIRCUIT
- 7) PENDANT PUSH BUTTON SWITCH



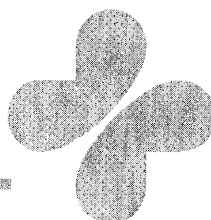
산업안전보건공단
안전보건공단

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Ⅲ. 강 도 , 용 량 계 산 서

Ⅳ. 참 고 도 서

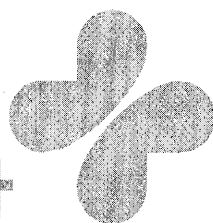
- 1, LOAD LIMITER 권고 SETTING 치
- 2, E.O.C.R 권고 SETTING치
- 3, MOTOR DATA SHEET
- 4, 사용방법 설명서 (HOIST, OLP)
- 5, PUSH BUTTON 카다록 및 IP 성적서
- 6, WIRE ROPE 성적서
- 7, SUB VENDOR LIST
- 8, INVERTER 취급설명서



I . 사양서



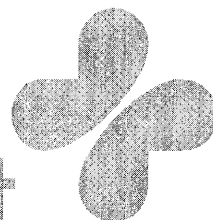
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1) 호이스트 설계 조건



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KOSHA
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호 이 스톱 설 계 조 건

항 목			내 용	
모 델 명			KD10 - L9(12,18,24) - D KD10S - L12 - D	
품 명			이중 레일식 와이어 호이스트	
정격하중	주 권	정격하중	10 TON	
		시험하중	12.5 TON	
	보 권	정격하중	-	
		시험하중	-	
주권달기구	종 류	SINGLE HOOK & DOUBLE HOOK		
	자체하중	0.1		
양 정 (LIFT)			9(12, 18, 24) M	
호이스트 (HOIST)	H-HIGH	SPEED	6 M/MIN	
		MOTOR	13 KW x 6P	
	HIGH	SPEED	4.5 M/MIN	
		MOTOR	9 KW x 8P	
	LOW	SPEED	3.0 M/MIN	
		MOTOR	6 KW x 12P	
	BRAKE		D.C MAGNET DISC BRAKE	
	TRAVERSING	HIGH	SPEED	15 M/MIN
MOTOR			1.5KW x 4P	
LOW		SPEED	10 M/MIN	
		MOTOR	1.0 KW x 6P	
DUAL HIGH		SPEED	15/7.5 M/MIN	
		MOTOR	0.8/0.4KW x 4/8P	
DUAL LOW		SPEED	10/5 M/MIN	
		MOTOR	0.5/0.25 KW x 6/12P	
BRAKE		D.C MAGNET DISC BRAKE		
WIRE ROPE			(6x37)ø16 x 4 FALLS	
POWER SOURCE	MAIN	AC ø3 x 220V (380,440,460,480)V x 60Hz		
	CONTROL	AC ø1x 110V(120V) x 60Hz		
CONTROL METHOD			F.L 상 PUSH BUTTON 조작방식	
방 호 장 치			과부하방지장치, 과권방지장치, HOOK 해치장치, 횡행STOPPER, 비상정지장치	
사 용 용 도			창고용 , 정비용 , 일반화물 인양작업	
설 치 위 치			☑ 옥 내 ☑ 옥 외	
하중을 받는 회수			1.2x10 ⁵ 회 이상 2.5x10 ⁵ 회 미만	
사 용 조 건			정격하중 63%이상 80%이하의 하중용 HOIST	
주 위 온 도			-10 ~ 40℃ 이내	
방 폭 구 조 사 용 유 무			☐ 유 ☑ 무	

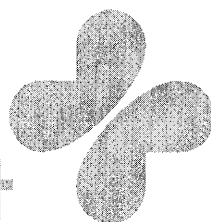
호 이 스톱 설 계 조 건

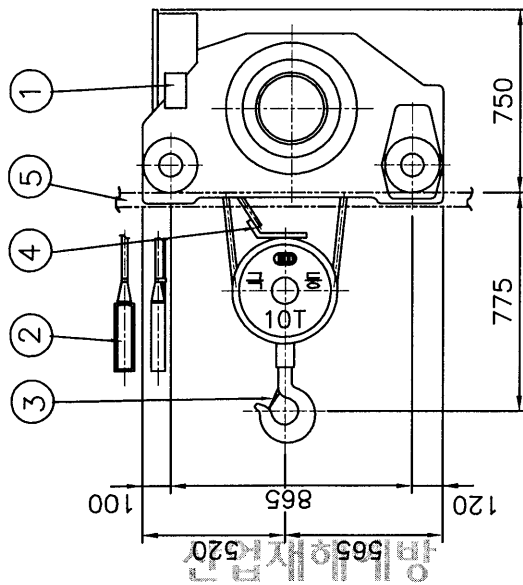
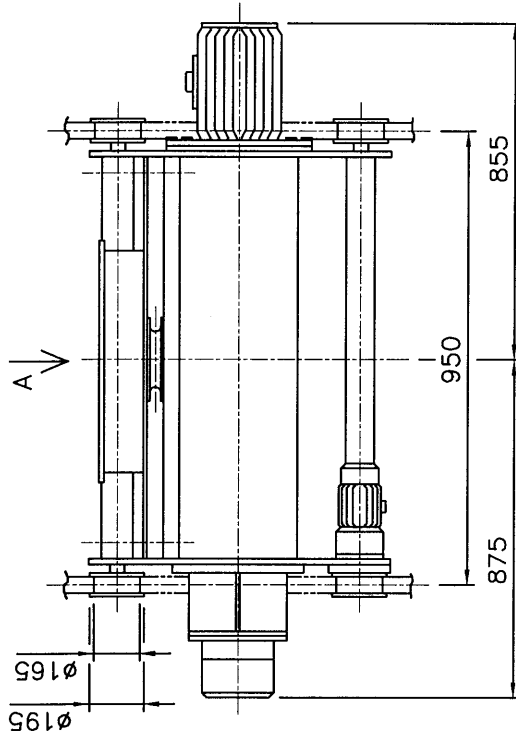
항 목			내 용	
모 델 명			KD10 - L30 - D	
품 명			이중 레일식 와이어 호이스트	
정격하중	주 권	정격하중	10 TON	
		시험하중	12.5 TON	
	보 권	정격하중	-	
		시험하중	-	
주권달기구	종 류	SINGLE HOOK & DOUBLE HOOK		
	자체하중	0.1		
양 정 (LIFT)			30 M	
호이스트 (HOIST)	H-HIGH	SPEED	6 M/MIN	
		MOTOR	13 KW x 6P	
	HIGH	SPEED	4.5 M/MIN	
		MOTOR	9 KW x 8P	
	LOW	SPEED	3.0 M/MIN	
		MOTOR	6 KW x 12P	
	BRAKE		D.C MAGNET DISC BRAKE	
	TRAVERSING	HIGH	SPEED	15 M/MIN
MOTOR			1.5KW x 4P(2UNITS)	
LOW		SPEED	10 M/MIN	
		MOTOR	1.0 KW x 6P(2UNITS)	
DUAL HIGH		SPEED	15/7.5 M/MIN	
		MOTOR	0.8/0.4KW x 4/8P(2UNITS)	
DUAL LOW		SPEED	10/5 M/MIN	
		MOTOR	0.5/0.25 KW x 6/12P(2UNITS)	
BRAKE		D.C MAGNET DISC BRAKE		
WIRE ROPE			(6x37)ø16 x 4 FALLS	
POWER SOURCE	MAIN	AC ø3 x 220V (380,440,460,480)V x 60Hz		
	CONTROL	AC ø1x 110V(120V) x 60Hz		
CONTROL METHOD			F.L 상 PUSH BUTTON 조작방식	
방 호 장 치			과부하방지장치, 과권방지장치, HOOK 해치장치, 횡행STOPPER, 비상정지장치	
사 용 용 도			창고용 , 정비용 , 일반화물 인양작업	
설 치 위 치			☑ 옥 내 ☑ 옥 외	
하중을 받는 회수			1.2x10 ⁵ 회 이상 2.5x10 ⁵ 회 미만	
사 용 조 건			정격하중 63%이상 80%이하의 하중용 HOIST	
주 위 온 도			-10 ~ 40℃ 이내	
방 폭 구 조 사 용 유 무			☐ 유 ☑ 무	

1) 기 계

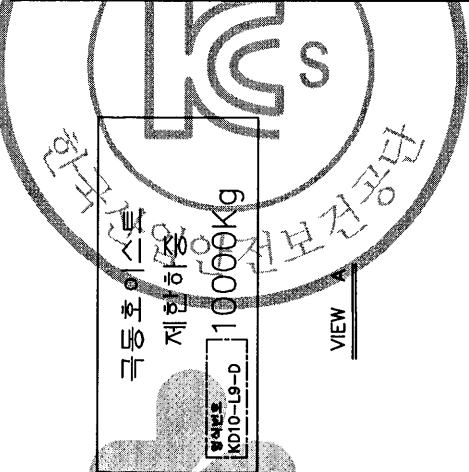


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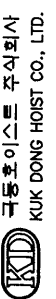


SPECIFICATION		10000 KG	
		12500 KG	9 M
HOISTING LOAD	TESTING LOAD	9 M	30 MIN
RATING	H-HIGH	SPEED	6 M/MIN
HOISTING	MOTOR	13 KW x 6 P	
	SPEED	4.5 M/MIN	
	MOTOR	9 KW x 8 P	
	SPEED	3.0 M/MIN	
LOW	MOTOR	6.0 KW x 12 P	
	SPEED	15 M/MIN	
	MOTOR	0.75KW x 4 P	
	SPEED	10 M/MIN	
TRAVER-SING	MOTOR	0.5KW x 6 P	
	SPEED	15/7.5 M/MIN	
	MOTOR	0.8/0.4KW x 4/8 P	
	SPEED	10/5 M/MIN	
DUAL	MOTOR	0.5/0.25KW x 6/12 P	
	SPEED	(6x37) #16 x 4FALLS	
WIRE ROPE		(6x37) #16 x 4FALLS	
POWER SOURCE		AC3#x220V(380,440,460,480V)x60Hz	
COLOR		10 B 3/5	
WEIGHT		1080 KG	



VIEW A

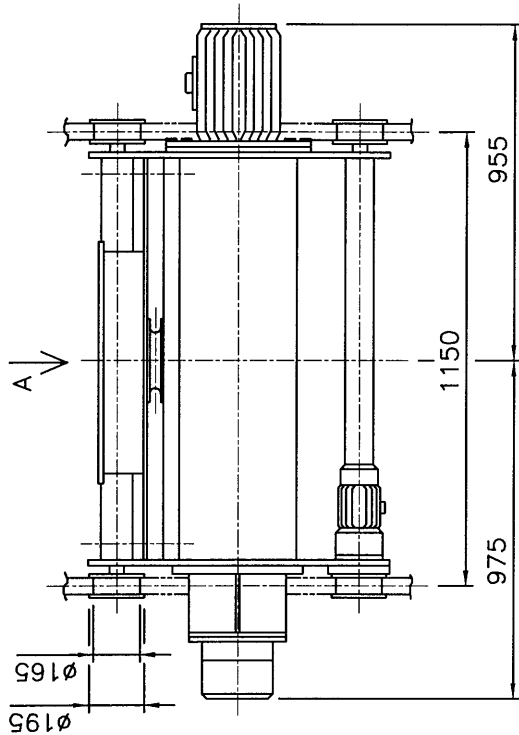
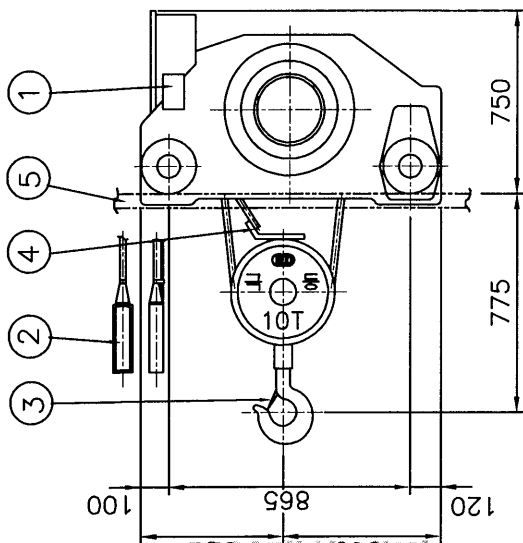
5	T/S RAIL	-	-	-	15KG/M	
4	UPPER LIMIT S/W	SS41	1			
3	SAFETY LATCH	SS41	1			
2	PUSH BUTTON S/W	-	1			
1	LOAD LIMITER	-	1			
NO.	DESCRIPTION	MTL	SUB QTY	SUB TOTAL	SUB WEIGHT(Kg)	REMARKS.
PROJECT						
TITLE	_____ KD10-L9-D _____					
	ARRANGEMENT DRAWING FOR HOIST					
	DESIGNED	CHECKED	APPROVED	REF. DRAWING		
	DRAWN					



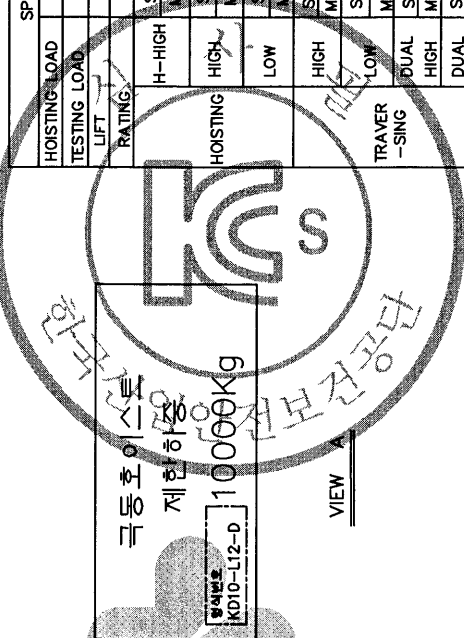
극동호이스트 주식회사
KUK DONG HOIST CO., LTD.

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



SPECIFICATION		10000 KG	
		12500 KG	12000 KG
HOISTING LOAD	TESTING LOAD	12 M	30 MIN
H-HIGH	SPEED MOTOR	6 M/MIN	13 KW x 6 P
HIGH	SPEED MOTOR	4.5 M/MIN	9 KW x 8 P
LOW	SPEED MOTOR	3.0 M/MIN	6.0 KW x 12 P
HIGH	SPEED MOTOR	15 M/MIN	0.75KW x 4 P
LOW	SPEED MOTOR	10 M/MIN	0.5KW x 6 P
DUAL	SPEED MOTOR	15/7.5 M/MIN	0.8/0.4KW x 4/8 P
DUAL	SPEED MOTOR	10/5 M/MIN	0.5/0.25KW x 6/12 P
WIRE ROPE	(6x37) #16 x 4FALLS		
POWER SOURCE	AC3#x220V(380,440,460,480V)x60Hz		
COLOR	10 B 3/5		
WEIGHT	1200 KG		



5	T/S RAIL	-	-	-	-	15KG/M		
4	UPPER LIMIT S/W	SS41	1					
3	SAFETY LATCH	SS41	1					
2	PUSH BUTTON S/W	-	1					
1	LOAD LIMITER	-	1					
NO.	DESCRIPTION	MT'L	SUB	TOTAL	SUB	TOTAL	REMARKS.	
			QTY		WEIGHT(kg)			
PROJECT							DATE	DIM
							14.01.21	mm
TITLE		KD10-L12-D					SCALE	PROJECTION
		ARRANGEMENT DRAWING FOR HOIST					A3/20	3rd
DRAWN		DESIGNED	CHECKED	APPROVED				REF. DRAWING

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



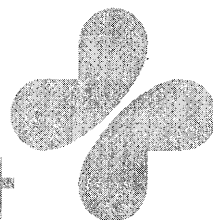
2) 전 기



산업재해예방

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

DESCRIPTION	SYMBOLS
NO FUSE BREAKER 2 PHASE	
NO FUSE BREAKER 3 PHASE	
EARTH LEAKAGE BREAKER 2 PHASE	
EARTH LEAKAGE BREAKER 3 PHASE	
TRANSFORMER	
CURRENT TRANSFORMER	
POTENTIAL TRANSFORMER	
FUSE	
FUSE WITH CONTACTOR	
THRISTOR UNIT	

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ELECTRICAL SPECIFICATION

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

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

OBJECT	MOTOR OUTPUT	220V		380V		440V	460V	480V	440, 460, 480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
HIGH HOIST	H-HIGH	53.0 A	16.0 sq	30.7 A	16.0 sq	26.5 A	25.4 A	24.3 A	10.0 sq	DC MAG. BRAKE	
	HIGH	45.0 A	16.0 sq	26.0 A	16.0 sq	22.5 A	21.5 A	20.6 A	10.0 sq	DC MAG. BRAKE	
	LOW	45.4 A	16.0 sq	26.3 A	16.0 sq	22.7 A	21.9 A	21.2 A	10.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	4.0 sq	2.40 A	4.0 sq	2.00 A	2.00 A	1.90 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	LOW	3.40 A	4.0 sq	2.00 A	4.0 sq	1.70 A	1.70 A	1.60 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	HIGH/LOW	4.80 A	4.0 sq	2.78 A	4.0 sq	2.40 A	2.30 A	2.30 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
CONTROL CIRCUIT	0.8/0.4KWx4/8P 30 MIN	3.20 A	4.0 sq	1.85 A	4.0 sq	1.60 A	1.50 A	1.40 A	4.0 sq	DC MAG. BRAKE	1 DRIVE
	0.5/0.25KWx6/12P 30 MIN	2 A	2.5 sq	2 A	2.5 sq	2 A	2 A	2 A	2.5 sq		
	LIGHTING & ACC'Y CIRCUIT										
SUB TOTAL (NORMAL LOAD)	H-HIGH	57.10 A	25.0 sq	33.10 A	16.0 sq	28.50 A	27.40 A	26.20 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	HIGH	49.10 A	25.0 sq	28.40 A	16.0 sq	24.50 A	23.50 A	22.50 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	LOW	48.80 A	25.0 sq	28.30 A	16.0 sq	24.40 A	23.60 A	22.80 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (PEAK LOAD)	H-HIGH	59.10 A	25.6 sq	35.10 A	16.0 sq	30.50 A	29.40 A	28.20 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	HIGH	51.10 A	25.0 sq	30.40 A	16.0 sq	26.50 A	25.50 A	24.50 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	LOW	50.80 A	25.0 sq	30.30 A	16.0 sq	26.40 A	25.60 A	24.80 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	

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

*. 위 계산은 LIFT 9, 12, 18, 24M에 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	440, 460, 480V	BRAKE	REMARK
		STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	1st CABLE SIZE	STATOR CURRENT	STATOR CURRENT	STATOR CURRENT	1st CABLE SIZE		
HIGH HOIST	H-HIGH	53.0 A	16.0 sq	30.7 A	16.0 sq	26.5 A	25.4 A	24.3 A	10.0 sq	DC MAG. BRAKE	
	HIGH	45.0 A	16.0 sq	26.0 A	16.0 sq	22.5 A	21.5 A	20.6 A	10.0 sq	DC MAG. BRAKE	
	LOW	45.4 A	16.0 sq	26.3 A	16.0 sq	22.7 A	21.9 A	21.0 A	10.0 sq	DC MAG. BRAKE	
TRAVERSING	HIGH	4.10 A	4.0 sq	2.40 A	4.0 sq	2.00 A	2.00 A	1.90 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
	LOW	3.40 A	4.0 sq	2.00 A	4.0 sq	1.70 A	1.70 A	1.60 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
	HIGH/LOW	4.80 A	4.0 sq	2.78 A	4.0 sq	2.40 A	2.30 A	2.30 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
CONTROL CIRCUIT	HIGH/LOW	3.20 A	4.0 sq	1.85 A	4.0 sq	1.60 A	1.50 A	1.40 A	4.0 sq	DC MAG. BRAKE	2 DRIVE
	CONTROL CIRCUIT	2 A	2.5 sq	2 A	2.5 sq	2 A	2 A	2 A	2.5 sq	DC MAG. BRAKE	2 DRIVE
LIGHTING & ACCY CIRCUIT	LIGHTING & ACCY CIRCUIT										
SUB TOTAL (NORMAL LOAD)	H-HIGH	61.20 A	25.0 sq	33.10 A	16.0 sq	30.50 A	29.40 A	28.10 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	HIGH	53.20 A	25.0 sq	28.40 A	16.0 sq	26.50 A	25.50 A	24.40 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	LOW	52.20 A	25.0 sq	30.30 A	16.0 sq	24.40 A	25.30 A	24.20 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
SUB TOTAL (PEAK LOAD)	H-HIGH	63.20 A	25.0 sq	35.10 A	16.0 sq	32.50 A	31.40 A	30.10 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	HIGH	55.20 A	25.0 sq	30.40 A	16.0 sq	28.50 A	27.50 A	26.40 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	
	LOW	54.20 A	25.0 sq	32.30 A	16.0 sq	28.10 A	27.30 A	26.20 A	10.0 sq	I(A)=M/H + T/S + ASS'Y	

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

*. 위 계산은 LIFT 30M에 적용.

■ 보호본딩회로의 연속성 확인

시험전선의 최소유효 단면적(mm²)	최고 전압 강하(V)
1.0	3.3
1.5	2.6
2.5	1.9
4.0	1.4
>6.0	1.0

① 보호본딩회로의 연속성의 검증은 PELV전원(50/60Hz)에서 최소 10A 이상의 전류를 10초 이상의 인가에 의한 시험은 PE단자와 보호본딩회로의 여러지점 사이에서 이루어진다.

② PE단자와 시험 지점 사이에서 측정된 전압은(표 참조) 값을 초과해서는 아니된다.

■ 절연저항 시험

전원선과 보호본딩선 차이를 직류 500V로 측정된 절연저항 값은 1MΩ 이상이어야 한다.

■ 내전압 시험

① PELV 전압에서 작동되도록 설계된 전기장치의 회로를 제외한 모든 회로와 보호본딩회로의 전선 사이에 1초 이상 지속되는 다음의 시험 전압에 견딜수 있어야 한다.

- 장치의 정격전압의 두배 또는 1,000V 중 큰값의 전압

② 이 시험을 견딜수 없도록 설계된 부품은 시험이 진행되기 전에 차단하여야 한다.

* CV CABLE 4C중 1C는 EARTH로 사용함.

— NOTE —

1. 전동기 외함, 제어반의 프레임 등은 접지하여 그 접지 저항은

400V 미만 : 100옴 이하임치.(3종 접지)
400V 이상 : 10옴용 이하임치.(복 3종접지)

2.MAIN S/W BOX는 3종 접지 요.



				CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
A					EARTH DETAILS DRAWING					NONE		
A												
A												
MK	DATE	REVISIONS	CHK.	APP.								
						KUK DONG HOIST CO., LTD. 극동호이스트 주식회사 DWG. NO						

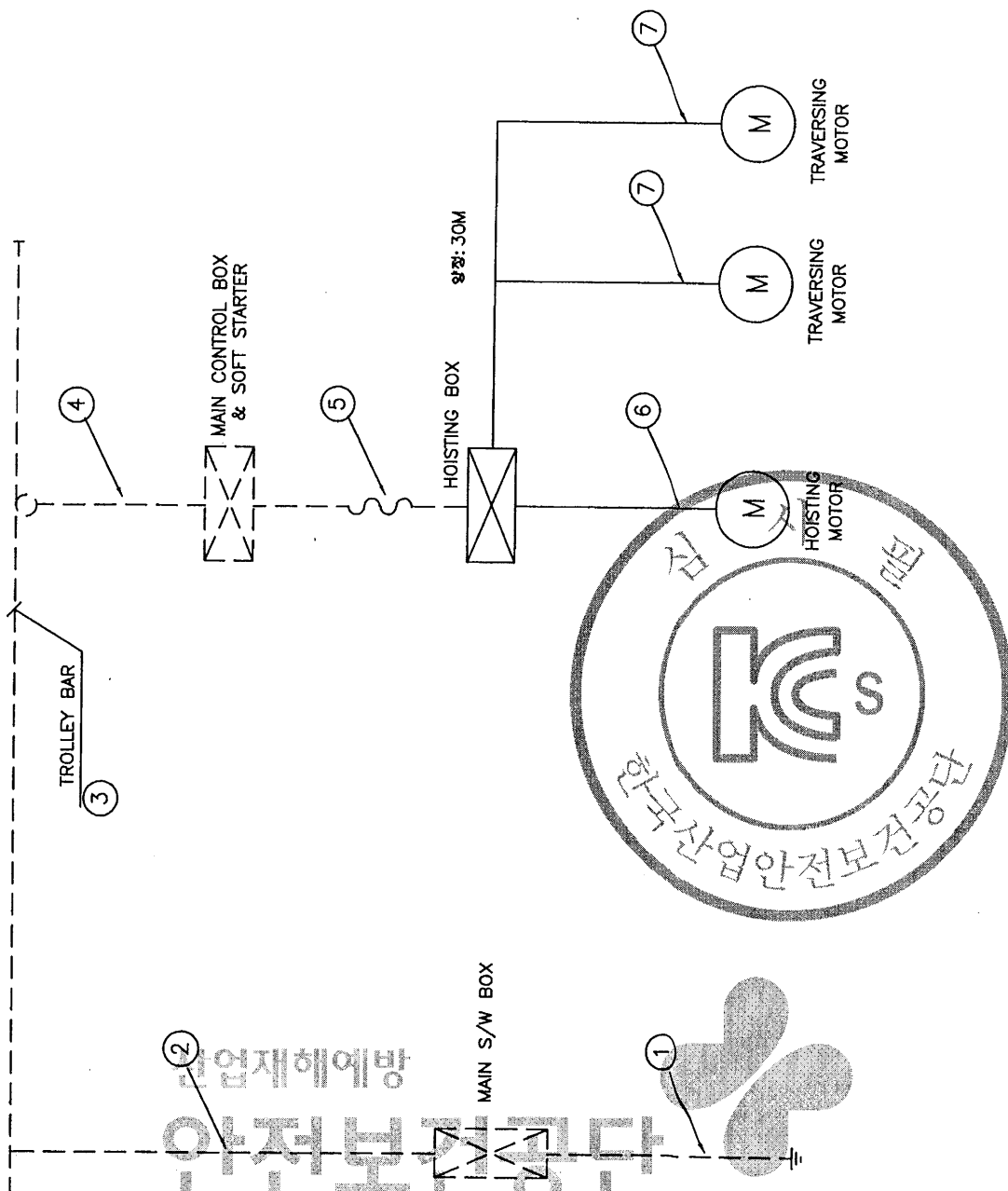
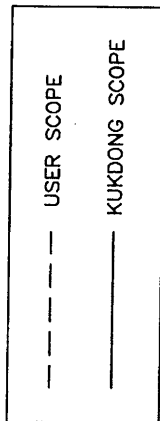
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
															NO	DESCRIPTION	CABLE SIZE		
															1	MAIN EARTH LINE	USER SCOPE		
															2	POWER SOURCE	USER SCOPE		
															3	TROLLEY BAR	USER SCOPE		
															4	POWER SOURCE WITH EARTH	USER SCOPE		
															5	HOST POWER SOURCE WITH EARTH	VCT 25(16,10)SQ x 1C		
															6	HOSTING MOTOR WITH EARTH	VCT 16(10)SQ x 1C		
															7	TRAVERSING MOTOR WITH EARTH	VCT 4.0SQ x 1C		

* CV CABLE 4C중 1C는 EARTH로 사용함.

- NOTE -
1. 전동기 외관, 제어반의 표정형 등은 설치하
여 그 설치 지형은

400V 미만 : 100오옴 이하임지.(3중 접지)
400V 이상 : 10오옴 이하임지.(특 3중접지)

2.MAIN S/W BOX는 3중 접지 요.



동전위접지

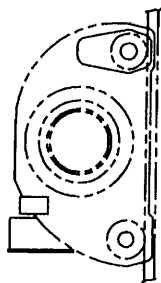
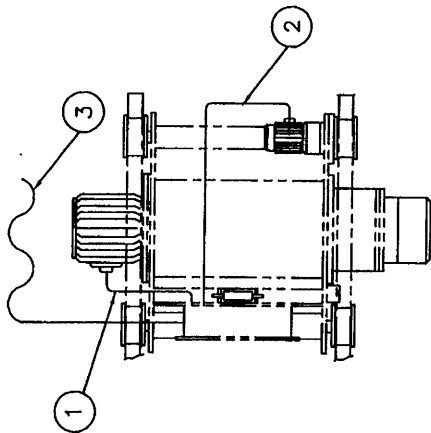
1. 전기장비의 기계의 노출된 모든 도전부는 보호분당회로에 연결되어야 하며
적절한 접지전속성 기능이 유지되어야함.

2. 보호분당회로에는 개폐기, 과전류보호장치가 부착되지 않아야 한다.

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

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
EARTH DETAILS DRAWING						
KUKDONG HOIST CO., LTD.						
DWG. NO.						

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



산업재해예방
안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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

*3중 접지공사 100Ω 이하 (AC 3PH 400V 미만)
*특3중 접지공사 10Ω 이하 (AC 3PH 400V 이상)

동전위접지

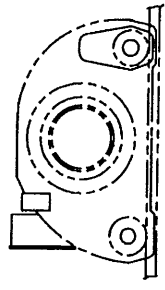
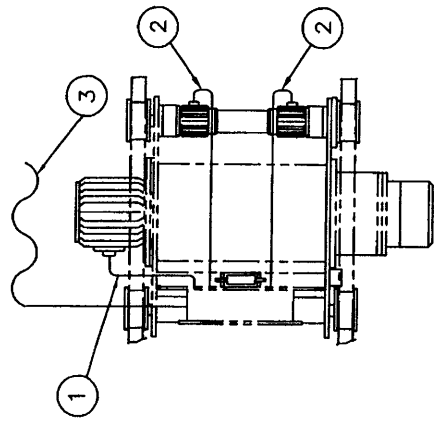
1. 전기장벽과 기계의 노출된 모든 도전부는 보호면역회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
2. 보호면역회로에는 기폐기, 과전류보호장치가 부착되지 않아야 한다.

NO	CABLE				REMARK
	SIZE			TYPE	
	220V	380V	TYPE		
1	VCT	16sq	16sq	VCT	440V, 460V, 480V 10sq
2	VCT	4.0sq	4.0sq	VCT	HOISTING MOTOR WITH EARTH T/S MOTOR WITH EARTH
3	VCT	25sq	16sq	VCT	10sq 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

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



산업재해예방
안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

본 도면은 EARTH를 명기함과 위한 도면으로서
실제 배치와 다를 수 있으며 HOIST 본체와의
EARTH용 CABLE은 REFERENCE임
*3중 접지공사 100Ω 이하 (AC 3PH 400V 미만)
*특 3중 접지공사 10Ω 이하 (AC 3PH 400V 이상)

동전위접지

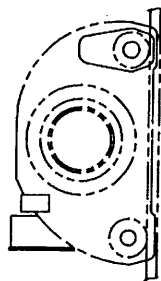
- 1. 전기장비와 기계의 노출된 모든 도전부는 보호본딩회로에 연결되어야 하며 적절한 접지연속성 기능이 유지되어야 함.
- 2. 보호본딩회로에는 기계기, 과전류보호장치가 부착되지 않아야 한다.

NO	CABLE		REMARK
	TYPE	SIZE	
1	VCT	220V 16sq 380V 16sq	HOISTING MOTOR WITH EARTH
2	VCT	4.0sq	T/S MOTOR WITH EARTH
3	VCT	25sq 16sq	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

DATE	DATE	SCALE	DATE	ORDER NO.
APPROVED	CHECKED	DESIGN	APPROVED	DATE
KUK DONG HOIST CO., LTD.				
극동호이스트 주식회사				
DWG. NO				
KD10D-E3001				

~~불법복제 및 배포금지~~



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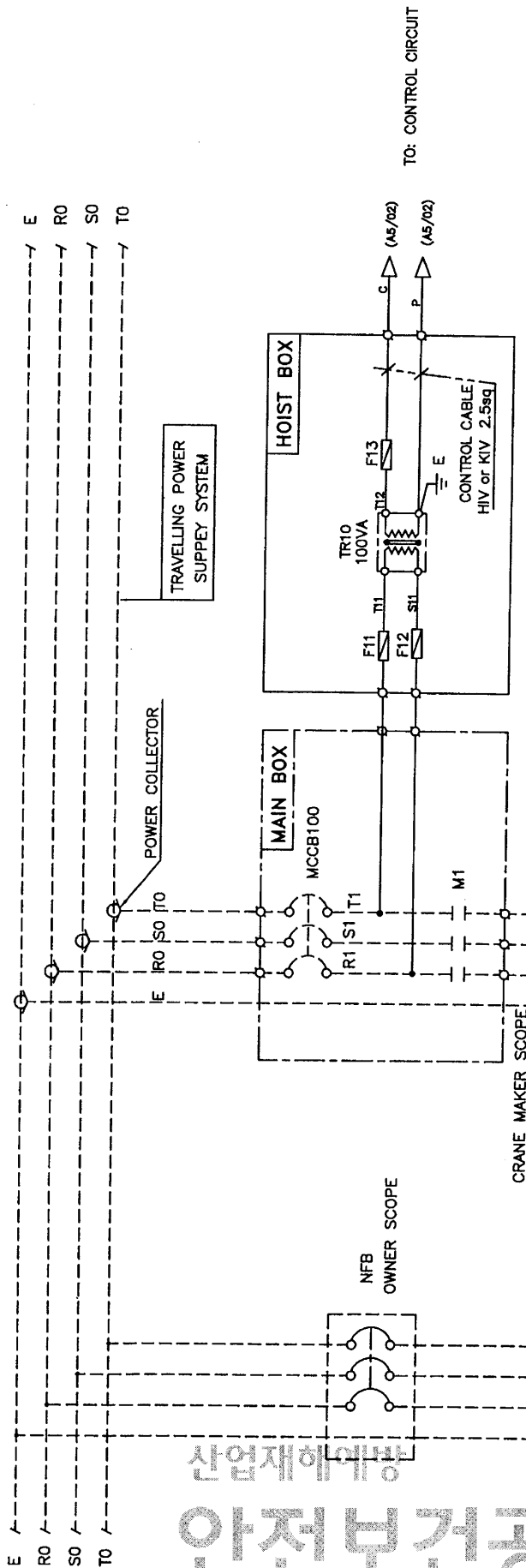
2	사	1111
CRATING	min	
LIFT		
POWER	SOURCE	V Hz
AMP. S R & T	HOIST	
AMP. S R & T	TRAV	
WIRE	ROPE	Ø
WEIGHT		kg
SERIAL		
OIST CO., LTD		

3

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

☒													
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MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER	DRAWING TITLE	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
						WIRE HOIST NAME PLATE					NONE		
													
							극동호이스트 주식회사 KUK DONG HOIST CO., LTD.				DWG. NO	KD10D-E01201	

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) 흑색 : 고류 및 지류 전원선
- 2) 적색 : 고류 제어선
- 3) 청색 : 지류 제어선
- 4) 녹색 또는 녹색과 황색 혼용 : 접지
- 5) 흰색 : 중립

3. 조작 버튼의 색상은 다음과 같다.

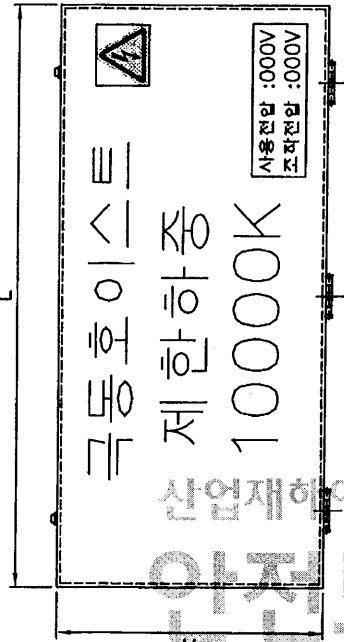
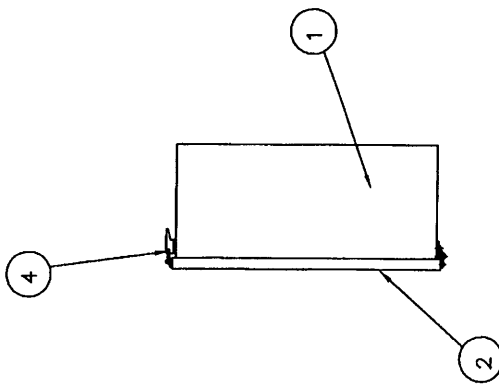
- 1) 적색 : 비상
- 2) 황색 : 비상
- 3) 청색 : 정지
- 4) 흰색, 회색 또는 흑색 : 지정된 의미 없음

SELECTION	VOLTAGE	F13	MCCB100	TR10
	220V	3A	103AF/75AT	220/110,120V 200VA
	380V	2A	53AF/50AT	380/110,120V 200VA
	440V	2A	53AF/40AT	440/110,120V 200VA
	480V	2A	53AF/40AT	480/110,120V 200VA
	480V	2A	53AF/40AT	480/110,120V 200VA

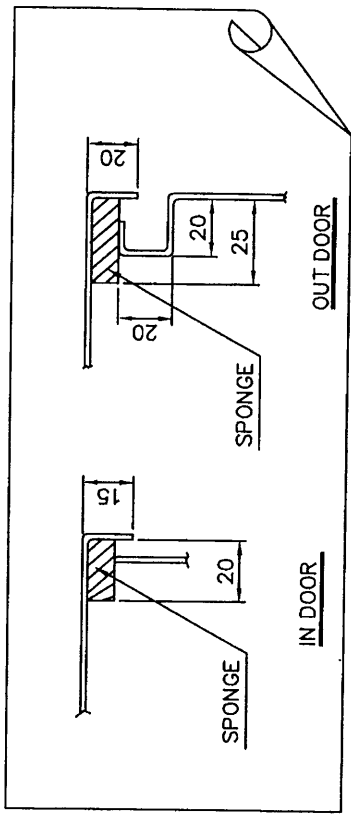
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				NONE		
MAIN POWER CIRCUIT 1						
DIAGRAM						
DATE	REVISIONS	CHK.	APP.	DWG. NO		
				KD10E001		

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

- PROTECTION DEGREE ;
A. INDOOR TYPE : DUST PROOF
B. OUT DOOR TYPE : SPLASH PROOF
- FINAL PAINTING COLOR (MUNSELL NO.)
A. IN SIDE : 10B 3/5
B. OUT SIDE : 10B 3/5
- PAINTING THICKNESS : ABOVE 40 μ m
- APPLICATION VOLTAGE : 220V,380V,440V,460V,480V
- 제어용 전선 : 2.5sq KIV,HIV
- 외함 개방구조는 다음과 같다.
1) 외함 개방시 충전부분이 차단되도록 한다.
2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의 직전접속 방호가 되어있을것.

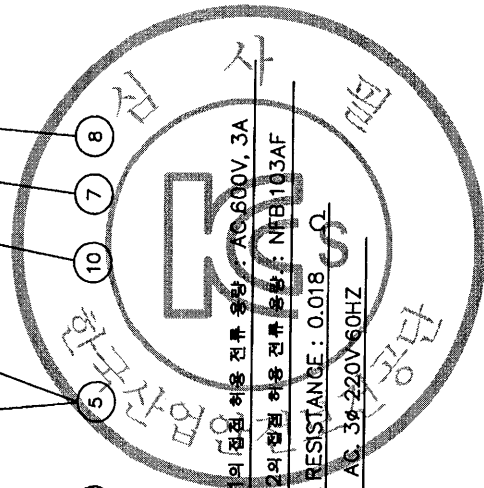
SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR		OUT DOOR			REMARK
			A	B	L	A	B	L
10 TON	NORMAL		450	200	690	650	200	690
10 TON	CREEP		450	200	690	650	200	690

MK	DATE	REVISIONS	CHK.	APP.	CUSTOMER	DRAWING TITLE	HOISTING CONTROL BOX	LAY-OUT	DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
													NONE		
극동호이스트 주식회사 KUK DONG HOIST CO., LTD. DWG. NO KD10EB00															



2) 외함 개방 후 충전되어있는 부분은 IP2X 이상의 차폐성을 갖는다.

POWER SOURCE : AC 240V 50/60HZ



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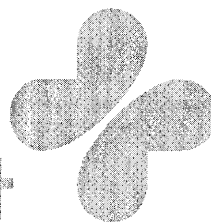
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산업재해예방

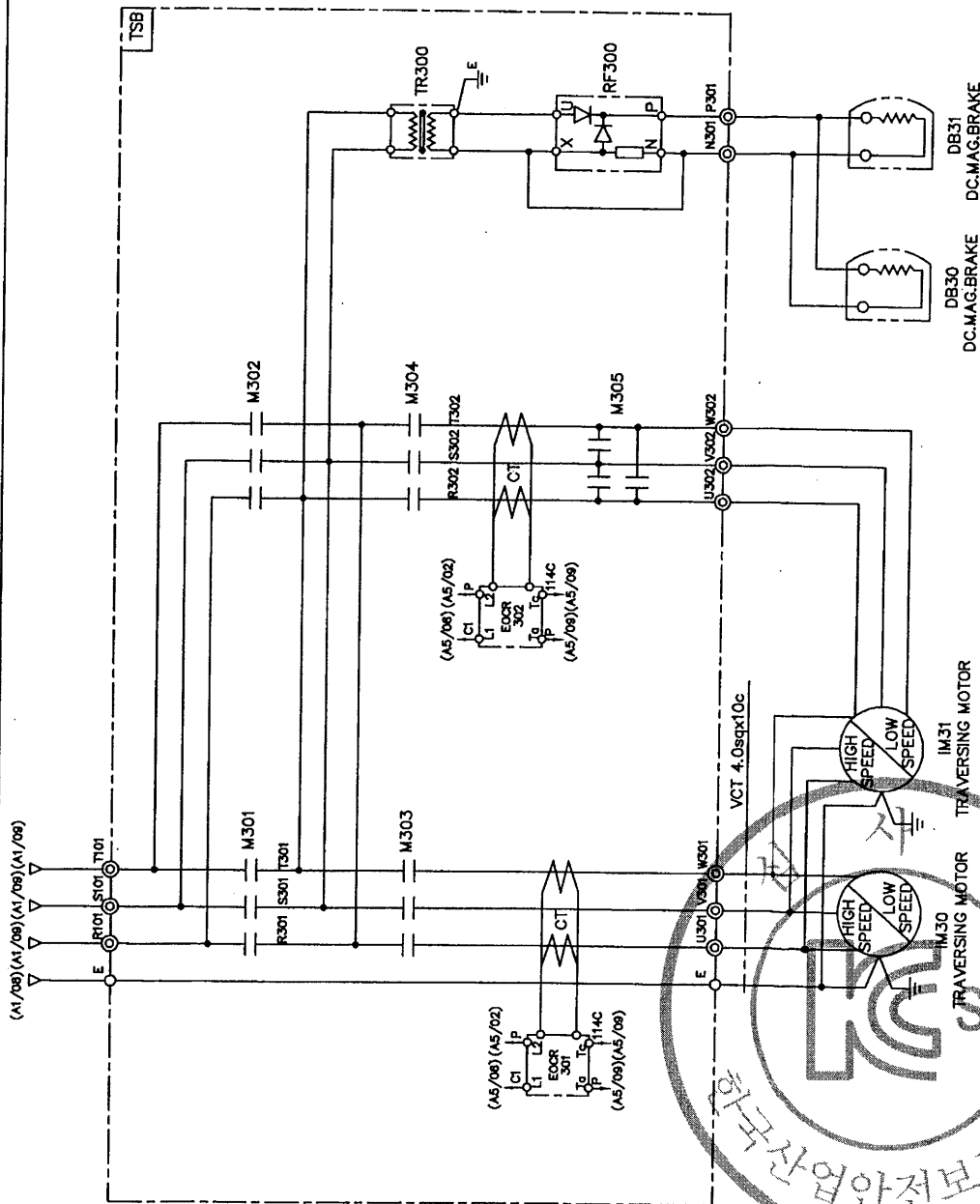
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																																
POWER CIRCUIT																																																			
TRaversing MOTION																																																			
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<table border="1"> <thead> <tr> <th>SELECTION MAKER</th> <th>CUSTOMER</th> <th>DRAWING TITLE</th> <th>DATE</th> <th>REVISIONS</th> <th>CHK.</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td>KUKDONG</td> <td></td> <td>TRAVERSING POWER CONTROL CIRCUIT</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																				SELECTION MAKER	CUSTOMER	DRAWING TITLE	DATE	REVISIONS	CHK.	APP.	KUKDONG		TRAVERSING POWER CONTROL CIRCUIT																						
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KUKDONG		TRAVERSING POWER CONTROL CIRCUIT																																																	
<table border="1"> <thead> <tr> <th>DRAWING</th> <th>DESIGN</th> <th>CHECKED</th> <th>APPROVED</th> <th>SCALE</th> <th>DATE</th> <th>ORDER NO.</th> </tr> </thead> <tbody> <tr> <td>DONG-A</td> <td></td> <td></td> <td></td> <td>NONE</td> <td></td> <td></td> </tr> </tbody> </table>																				DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.	DONG-A				NONE																				
DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.																																													
DONG-A				NONE																																															
<table border="1"> <thead> <tr> <th>DWG. NO.</th> <th>DWG. NO.</th> </tr> </thead> <tbody> <tr> <td>KD10E25</td> <td></td> </tr> </tbody> </table>																				DWG. NO.	DWG. NO.	KD10E25																													
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



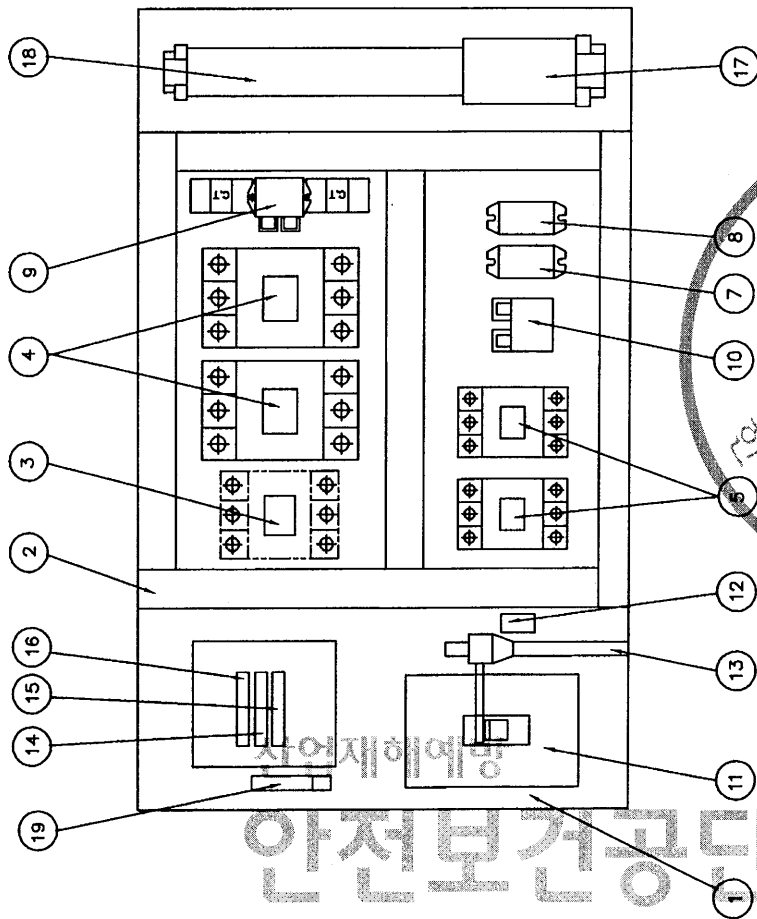
SPECIFICATION SYMBOLS DESCRIPTION		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER					
		IM 30, 31		DB30, 31		M301, M302, M303		M304, M305		EOCR 301,302		TR300					
220V		0.8/0.4KWx4/8P AC3PH 220V 60Hz		DC 100V		DMC22C		DMC22C		SR-30		AC220/220V, 300VA					
220V		0.8/0.25KWx6/12P AC3PH 220V 60Hz		DC 100V		DMC22C		DMC22C		SR-30		AC220/220V, 300VA					
SELECTION																	
MAKER				KUKDONG		DONG-A		ASECO				SHINHAN					
		CUSTOMER				DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE	
		DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT										NONE			
MK		DATE		REVISIONS		CHK.		APP.								DWG. NO	
																KD10E26	

ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC85C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	MCCBT00	53AF/50AT	1	LS-2
12	UPPER LIMIT	AC 600V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F11,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	380V/110,120V, 200VA	1	
17	TERMINAL BLOCK	60A, 25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5x25x50	1	

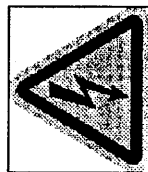
NOTE

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



NOTE

- UPPER LIMIT LS-1의 전선 허용 전류 용량 : AC 600V, 3A
- UPPER LIMIT LS-2의 전선 허용 전류 용량 : NFB 53AF
- EARTH TERMINAL RESISTANCE : 0.018 Ω
- POWER SOURCE : AC 3Φ 380V 60HZ



안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
HOISTING CONTROL BOX						
ARRANGEMENT DRAWING						
DATE	REVISIONS	CHK.	APP.	DWG. NO	KD10BA03	

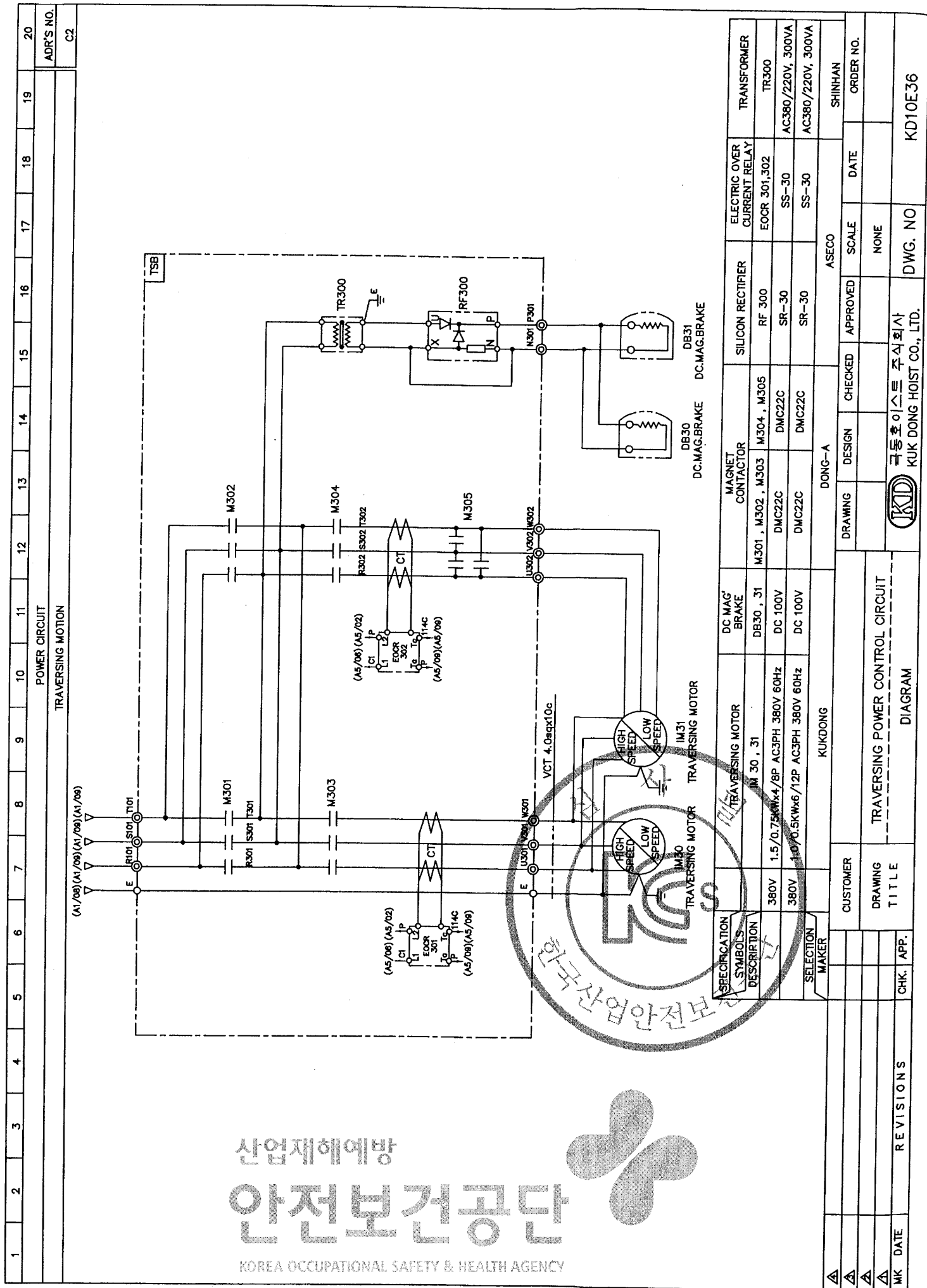
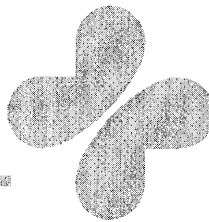


국동호이스트 주식회사
KUK DONG HOIST CO., LTD.

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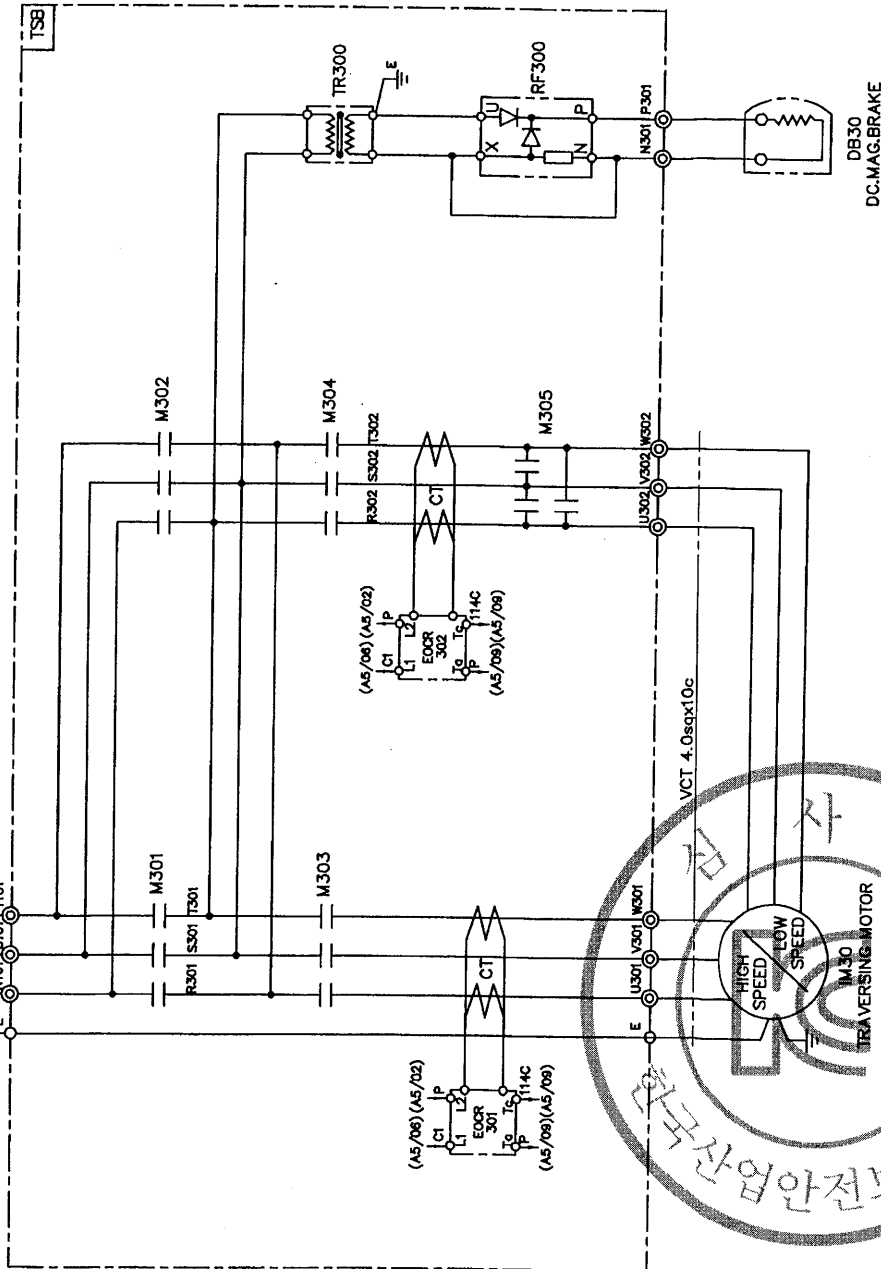
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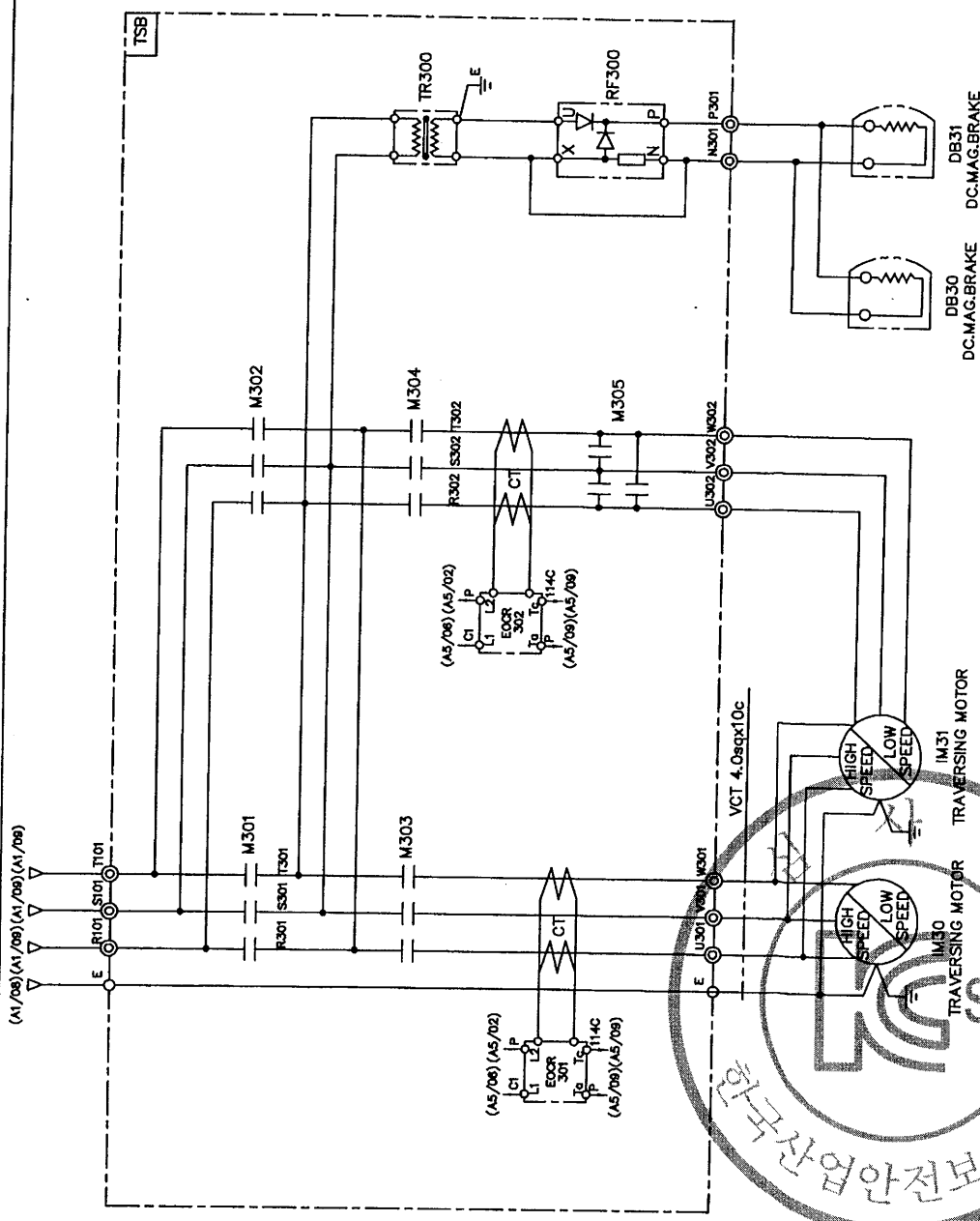
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRaversing MOTION																			
ADR'S NO.																			C2



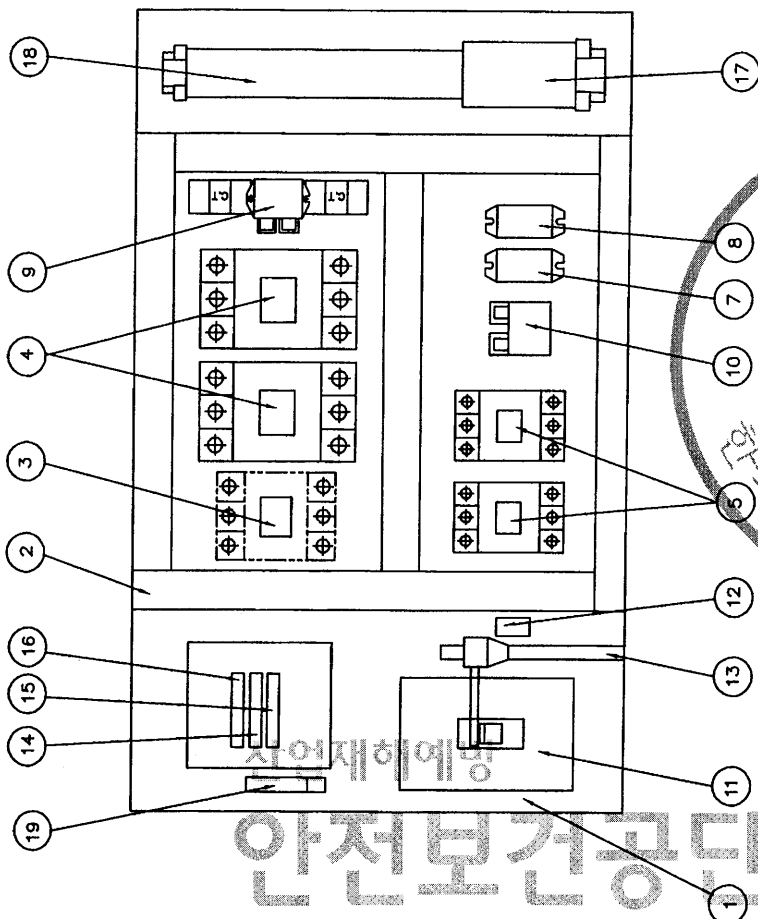
SPECIFICATION		SYMBOLS		DESCRIPTION		DC MAG. BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
TRAVERSING MOTOR		IM 30, 31		0.8/0.4kWx4/8P AC3PH 440V 60Hz		DB30, 31		M301, M302, M303, M304, M305		RF 300		EOCR 301,302		TR300	
TRAVERSING MOTOR		IM 31		0.5/0.25kWx6/12P AC3PH 440V 60Hz		VCT 4.0sqx10c		DMC22C		SR-30		SS-05		AC440/220V, 300VA	
SELECTION		MAKER		KUKDONG		DC 100V		DMC22C		SR-30		SS-05		AC440/220V, 300VA	
CUSTOMER		DRAWING		DESIGN		CHECKED		APPROVED		SCALE		DATE		SHINHAN	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		NONE		NONE		NONE		NONE		NONE		NONE	
REVISIONS		CHK.		APP.		DWG. NO.		KUKDONG HOIST CO., LTD.		KD10E46		ORDER NO.		KD10E46	

ADR'S NO.

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC65C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	MCCB100	53AF/40AT	1	LS-2
12	UPPER LIMIT	AC 800V/3A	1	LS-1
13	LIMIT LEVER	SS-41	1	
14	FUSE (F11,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	460V/110V,120V, 200VA	1	
17	TERMINAL BLOCK	60A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	56x25x50	1	

NOTE

- 전선의 색상은 다음과 같다.
 - 회색 : 교류 및 직류 전원선으로
 - 회색 : 교류 제어선으로
 - 주황색 : 외부 전원에서 공급되는 운동장치 제어회로
 - 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
- 제어용 전선 : 2.5mm KIV,HIV
 - 제직시 다소 변경될수있음.
 - 외함 개방구조는 다음과 같을것.
 - 외함 개방시 충전부분이 차단되도록 할것.
 - 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



NOTE

- UPPER LIMIT LS-1의 점접 허용 전류 용량 : AC 600V, 3A
- UPPER LIMIT LS-2의 점접 허용 전류 용량 : NFB 53AF
- EARTH TERMINAL RESISTANCE : 0.01Ω
- POWER SOURCE : AC 3φ 460V 60HZ



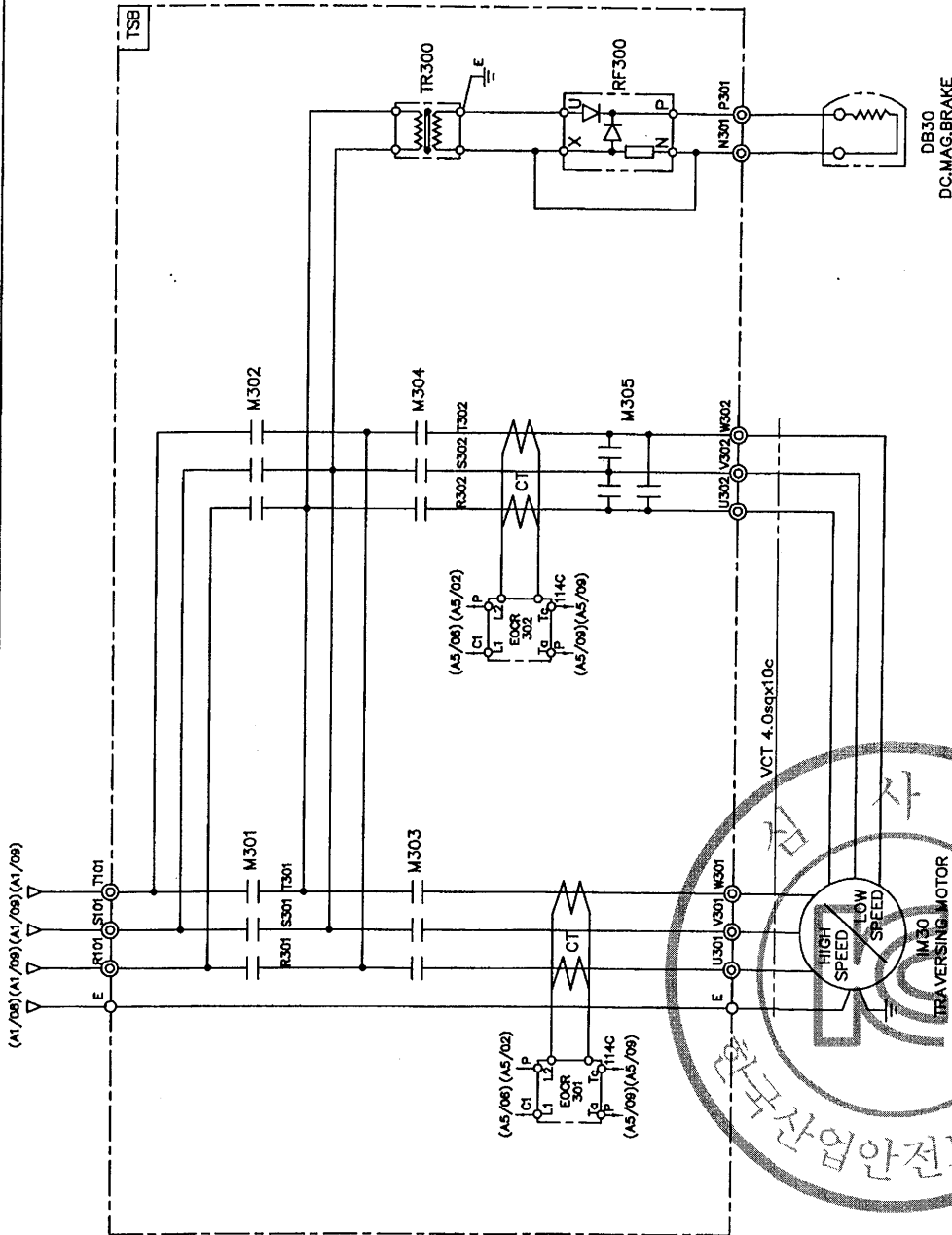
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						KD10BA05
KUK DONG HOIST CO., LTD.						
HOISTING CONTROL BOX						
ARRANGEMENT DRAWING						
CUSTOMER						
DRAWING TITLE						
REVISIONS						
CHK. APP.						
DATE						

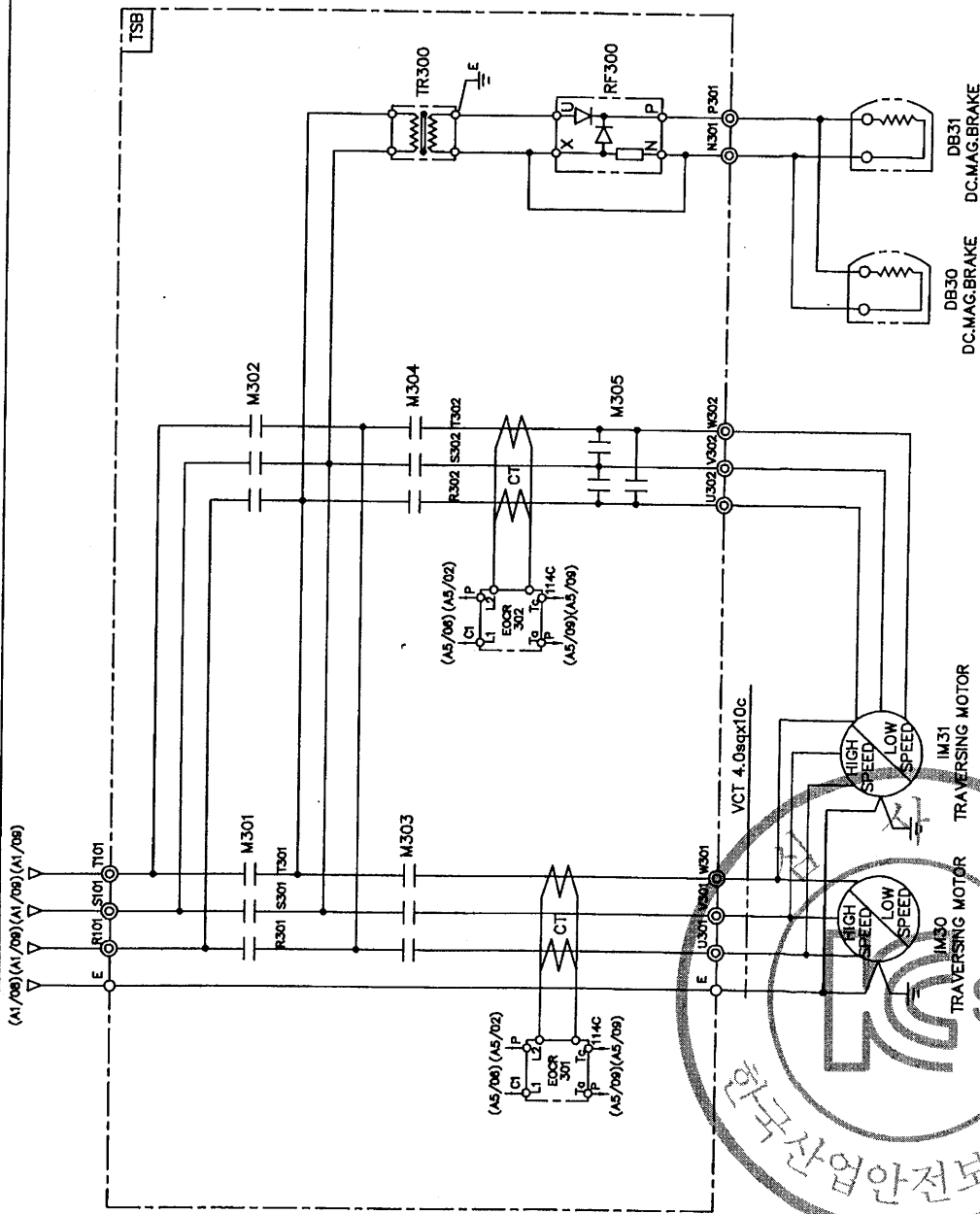
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



SPECIFICATION		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
SYMBOLS		DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION	
		M 30		DB30		M301, M302, M303, M304, M305		RF 300		EOCR 301,302		TR300	
		0.8/0.4KW/4/8P AC3PH 460V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
		0.5/0.25KW/6/12P AC3PH 460V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
SELECTION		KUKDONG		DONG-A		ASECO		SHINHAN					
MAKER													
CUSTOMER													
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT											
CHK. APP.													
REVISIONS													
DATE													
DWG. NO		KUKDONG											
ORDER NO.													
DATE													
KUKDONG		KUK DONG HOIST CO., LTD.											
DWG. NO		KD10E55											

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



SPECIFICATION SYMBOLS		TRAVERSING MOTOR		DC MAG' BRAKE		MAGNET CONTACTOR		SILICON RECTIFIER		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
DESCRIPTION		IM 30, 31		DB30, 31		M301, M302, M303, M304, M305		RF 300		EOCR 301,302		TR300	
SELECTION		0.8/0.4KwX4/8P AC3PH 460V 60Hz		DC 100V		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
MAKER		KUKDONG		DC 100V		DMC22C		SR-30		SS-05		AC460/220V, 300VA	
CUSTOMER		KUKDONG		DONG-A		DONG-A		ASECO		SHINHAN			
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT											
REVISIONS													
DATE													
CHK. APP.													
DWG. NO		KUKDONG HOIST CO., LTD.		DWG. NO		KDT0E56							

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

NOTE

1. 전선의 색상은 다음과 같다.

1) 흑색 : 교류 및 직류 전원선로 5) 흰색 : 직류 제어선로

2) 적색 : 교류 제어회로

3) 주항색 : 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. 제작시 다소 변경될 수 있음.

5. 외함 개방구조는 다음과 같을 것.

1) 외함 개방시 충전부분이 차단되도록 할 것.

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

NO	DESCRIPTION	SPECIFICATION	QTY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC40C	1	M1, MAIN MAG.
4	MAGNET CONTACT	DMC65C	2	HOISTING
5	MAGNET CONTACT	DMC22C	2	TRAVERSING
7	SILICON RECTIFIER	SR-60	1	HOISTING
8	SILICON RECTIFIER	SR-30	1	TRAVERSING
9	E.O.C.R	SS-60	1	HOISTING
10	E.O.C.R	SS-05	1	TRAVERSING
11	MCCB100	53AF/40AT	1	LS-2
12	UPPER LIMIT	AC 800V/3A	1	LS-1
13	LIMIT LEVER	SS-400	1	
14	FUSE (F1,F12)	2 A	2	
15	FUSE (F13)	5 A	1	
16	TRANSFORMER	480V/110V,120V, 200VA	1	
17	TERMINAL BLOCK	60A,25A		
18	TERMINAL BLOCK	15A		
19	EARTH TERMINAL	5x25x50	1	

NOTE

1. UPPER LIMIT LS-1의 전원 회용 전류 용량 : AC 800V, 3A

2. UPPER LIMIT LS-2의 전원 회용 전류 용량 : NPB 53AF

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

4. POWER SOURCE : AC 3φ 480V 60HZ

REVISIONS

NO	DATE	REVISIONS	CHK.	APP.

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOISTING CONTROL BOX					NONE		
ARRANGEMENT DRAWING							

고객사

국동호이스트 주식회사

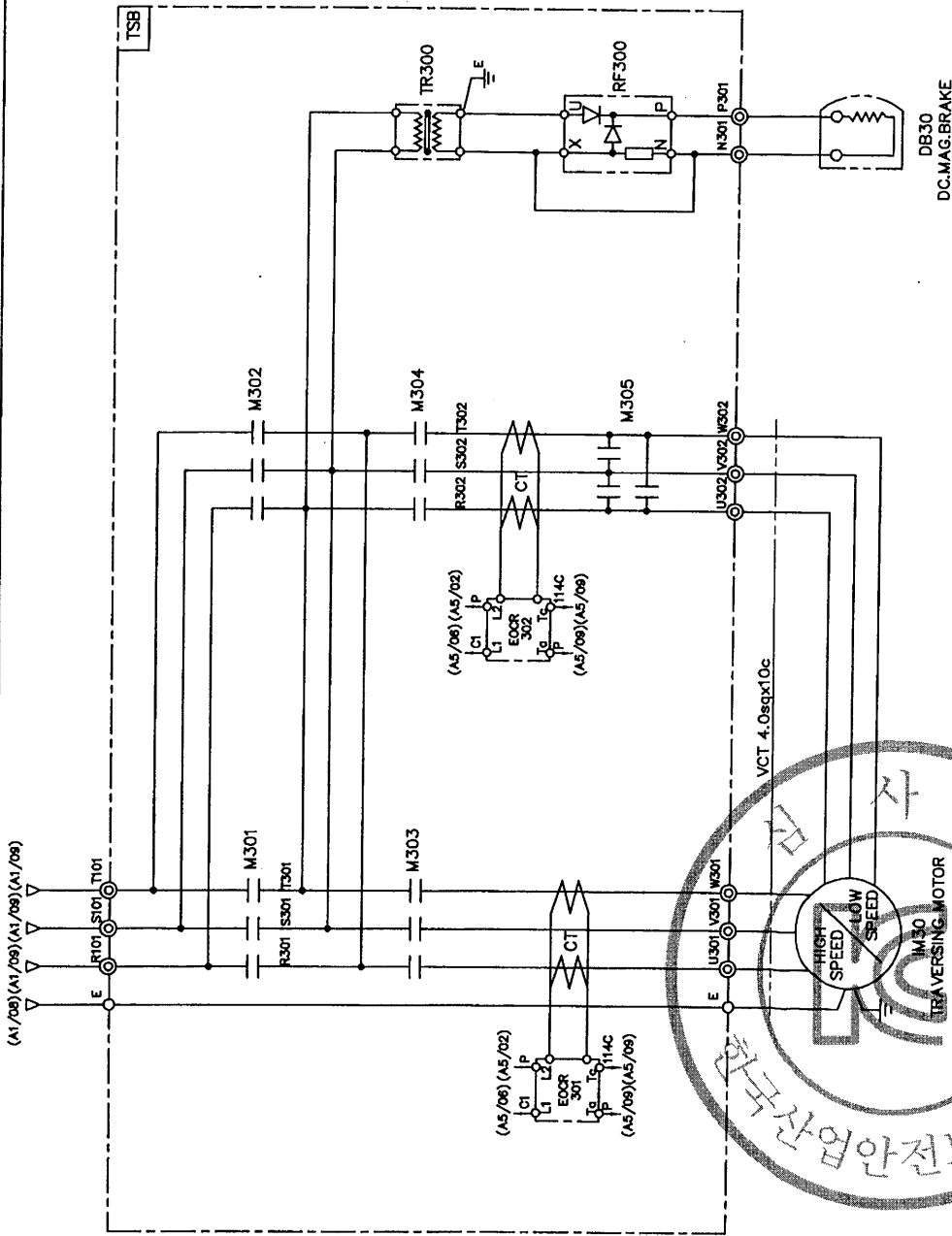
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DWG. NO

KD10BA06

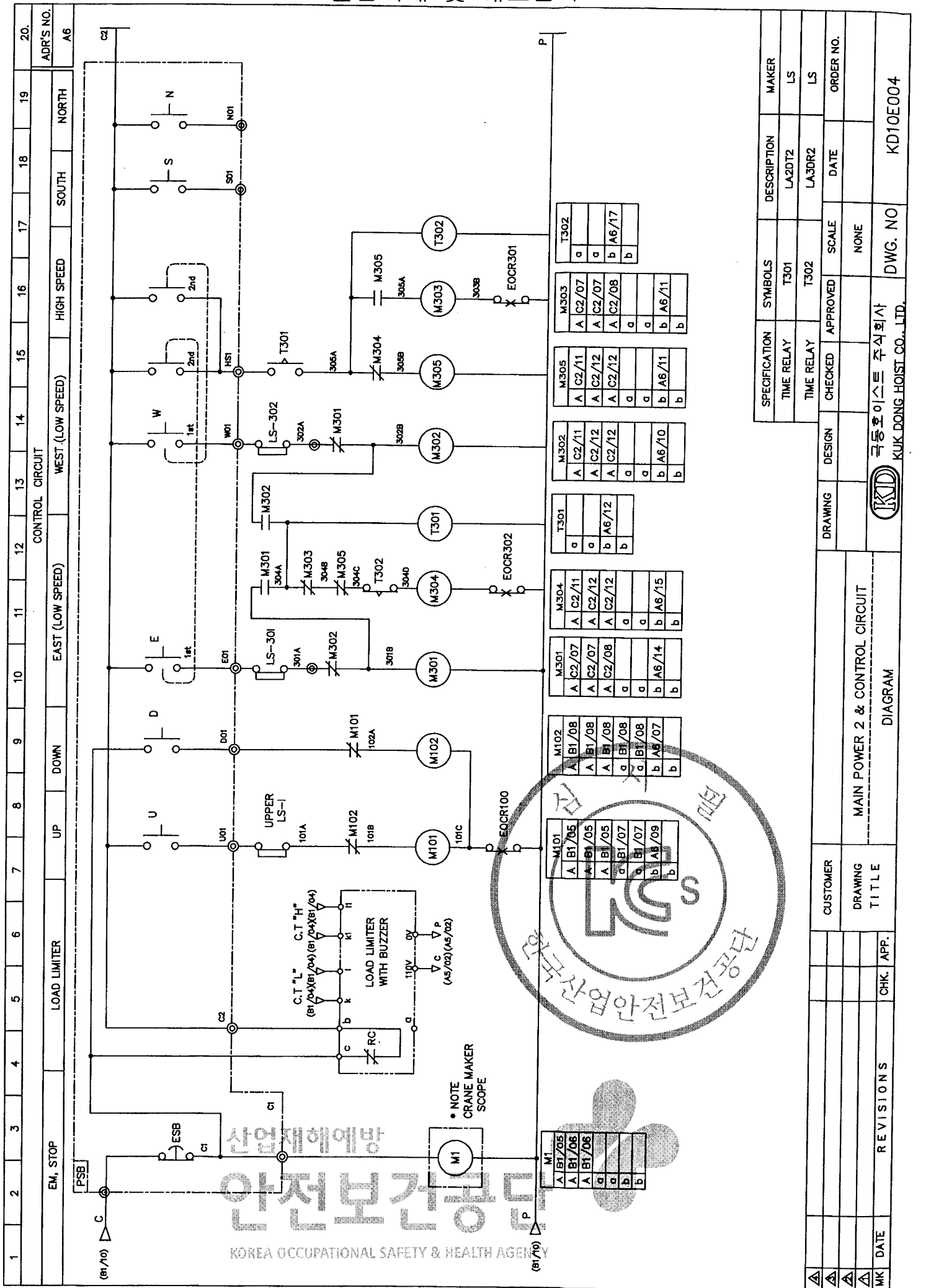
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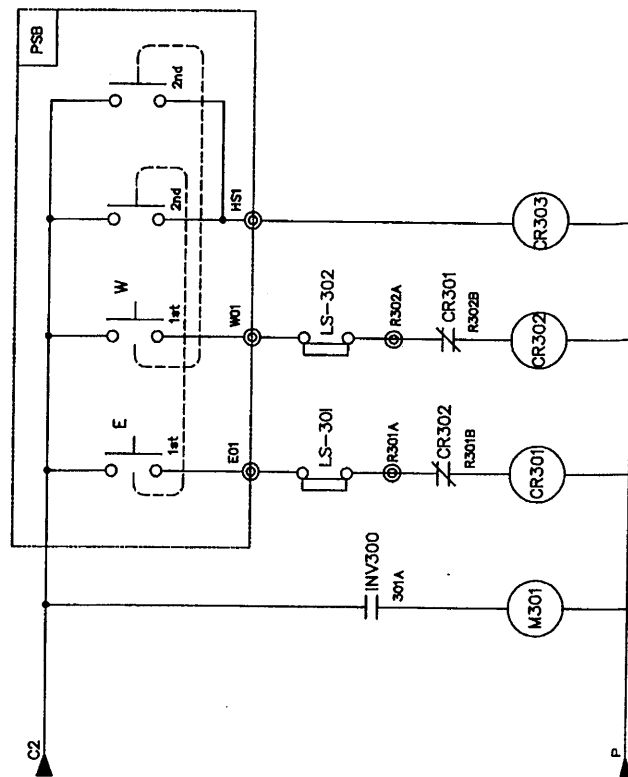
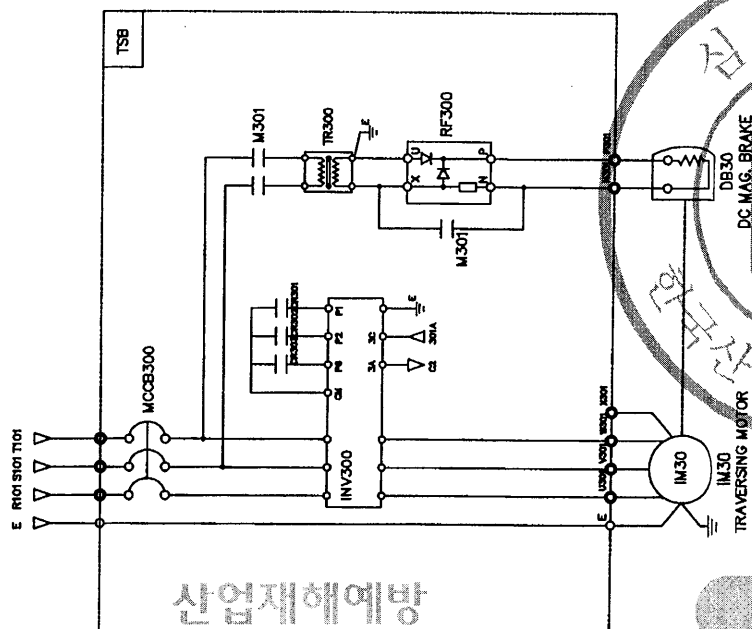
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER CIRCUIT																			
TRAVERSING MOTION																			
ADR'S NO.																			C2



SPECIFICATION SYMBOLS		TRAVERSING MOTOR		MAGNET CONTACTOR		ELECTRIC OVER CURRENT RELAY		TRANSFORMER	
DESCRIPTION		M 30		M301, M302, M303, M304, M305		EOCR 301, 302		TR300	
480V		0.8/0.4KWx4/8P AC3PH 480V 60Hz		DMC22C		SR-30		AC480/220V, 300VA	
480V		0.5/0.25KWx6/12P AC3PH 480V 60Hz		DMC22C		SS-05		AC480/220V, 300VA	
SELECTION MAKER		KUKDONG		DONG-A		ASECO		SHINHAN	
CUSTOMER				DRAWING DESIGN		CHECKED		APPROVED	
DRAWING TITLE		TRAVERSING POWER CONTROL CIRCUIT		SCALE		DATE		ORDER NO.	
CHK. APP.				DWG. NO		KID		KID10E65	
REVISIONS				KUKDONG HOIST CO., LTD.					

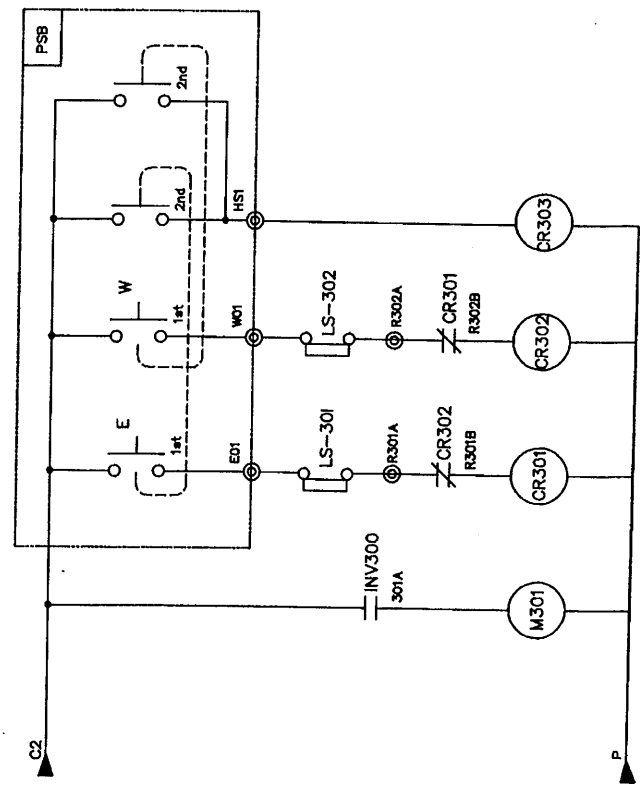
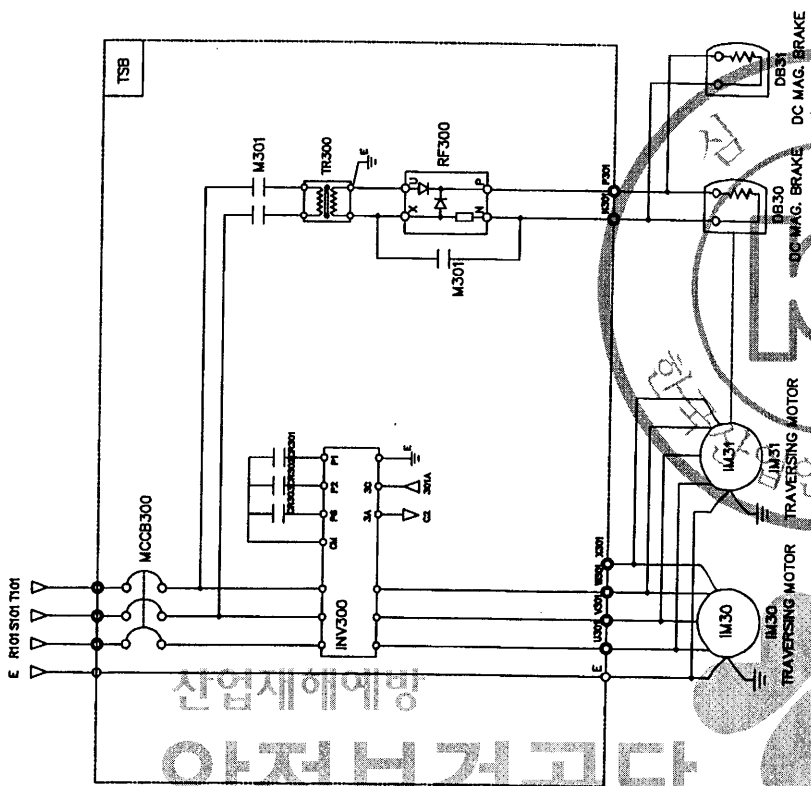
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SPECIFICATION SYMBOLS		TRAVERSING POWER		TRAVERSING MOTOR		DC MAG. BREAKER		NO FUSE BREAKER		TRANSFORMER		BRAKE MAGNET		CONTROL RELAY		INVERTER		SILICON RECTIFIER	
		AC 3PH 220V 60Hz		JM 30		DB30		MCB8300		TR 300		M301		CR301,302,303		INV300		RF300	
		AC 3PH 380(440,460,480)V 60Hz		0.75KW x 4P		DC 100V		ABE-33AF/10AT		220/220V,200VA		DMC22C		MINI 4c4b(Coil AC110V)		SV015IG5A-2		SR-30	
		AC 3PH 380(440,460,480)V 60Hz		0.75KW x 4P		DC 100V		ABE-33AF/5AT		380(440,460,480)/220V,200VA		DMC22C		MINI 4c4b(Coil AC110V)		SV015IG5A-4		SR-30	
		AC 3PH 220V 60Hz		0.5KW x 8P		DC 100V		ABE-33AF/10AT		220/220V,200VA		DMC22C		MINI 4c4b(Coil AC110V)		SV015IG5A-2		SR-30	
		AC 3PH 380(440,460,480)V 60Hz		0.5KW x 8P		DC 100V		ABE-33AF/5AT		380(440,460,480)/220V,200VA		DMC22C		MINI 4c4b(Coil AC110V)		SV015IG5A-4		SR-30	
SELECTION MAKER		KUK DONG HOIST																	
		CUSTOMER		INVERTER CONTROL															
		DRAWING TITLE		TRAVERSING POWER & CONTROL CIRCUIT															
		CHK. APP.		DIAGRAM															
REVISIONS		KUK DONG HOIST CO., LTD.																	
DATE		DWG. NO.																	
MK		KD05EI004																	

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									
TRAVERSING MOTION										HIGH SPEED									
BRAKE										WEST									
EAST										HIGH SPEED									
ADP'S NO.										ADP'S NO.									



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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

COMMON PROTECTION

CONTROL

ON-OFF & MAIN MAG

SECTOR SW

PB SW.-REMOTE

FROM : POWER SOURCE

(A1/08) E (A1/08) RQ(A1/08) SQ(A1/08) T0

(A2/08) C (A2/08) M1

(A2/00) P (A2/00) P

TO: MAIN HOISTING & TRAVERSING POWER

(B1/03) E (B1/03) R1 (B1/04) S1 (B1/04) T1

(A2/01) A2-01

TO: CONTROL CIRCUIT

(A2/11) P (A2/11) P

CONTROL CABLE

HIV or KIV 2.5sq

TO: MAIN HOISTING & TRAVERSING POWER

(B1/04) S1 (B1/04) T1

(A2/01) A2-01

TO: MAIN HOISTING & TRAVERSING POWER

(B1/04) S1 (B1/04) T1

(A2/01) A2-01

TO: MAIN HOISTING & TRAVERSING POWER

(B1/04) S1 (B1/04) T1

(A2/01) A2-01

KD10E001-2

AFRICA OCCUPATIONAL SAFETY & HEALTH AGENCY

안전보건공단

한국산업안전보건공단

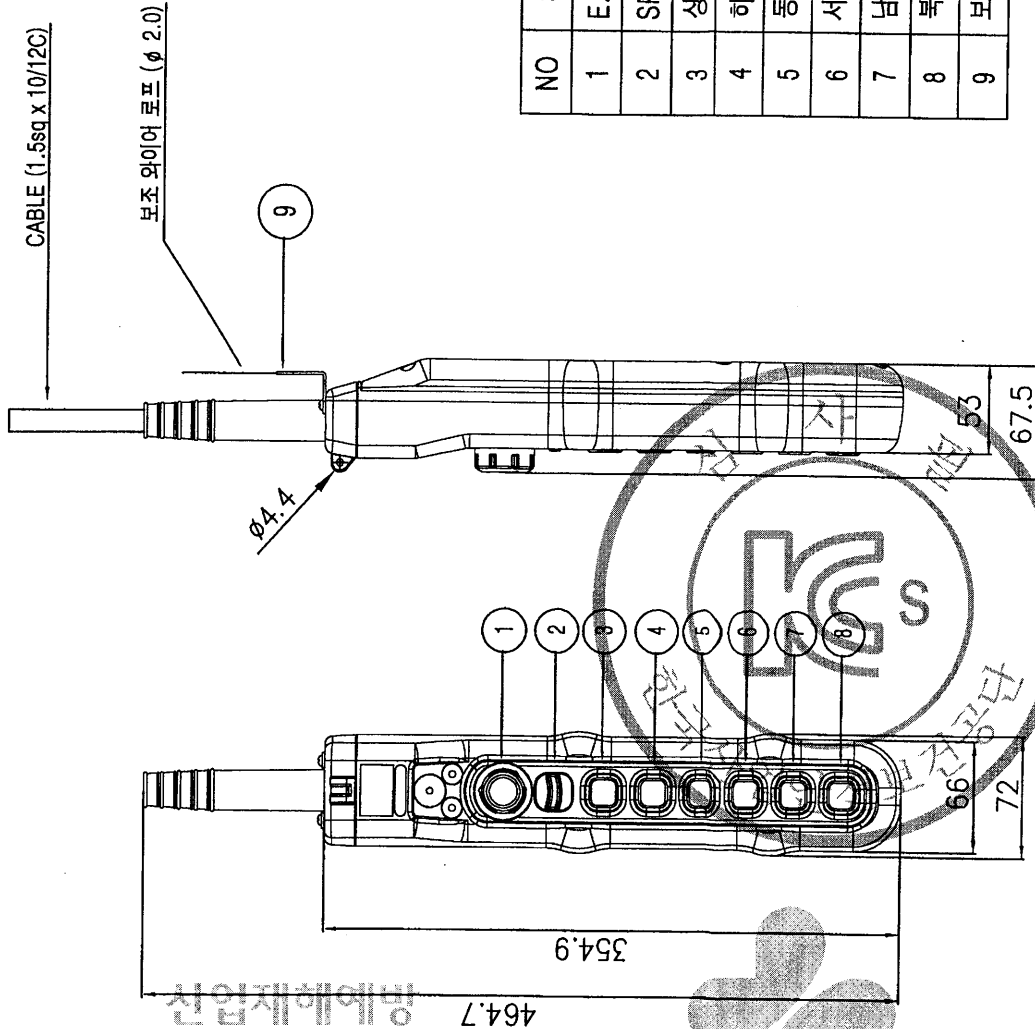
주요호이스트 주식회사

KUK DONG HOIST CO., LTD.

LOAD LIMITER				CONTROL CIRCUIT				NORTH			
UP				DOWN				WEST			
EAST				SOUTH				A5			

SPECIFICATION				PENDANT				LIMIT SWITCH			
SYMBOLS				P.B.S./W				LOAD LIMITER			
DESCRIPTION				LS-1				LS-301, 302			
				AC 600V 3A				HY - W904			
				AC 600V 3A				HY - W904			
				KUNHUNG				JUNG-HO			
				KG-AUTO				HANYOUNG			

DRAWING				DESIGN				CHECKED			
DATE				SCALE				DATE			
REVISES				NONE							
DATE				DWG. NO				KDT0E002-2			



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

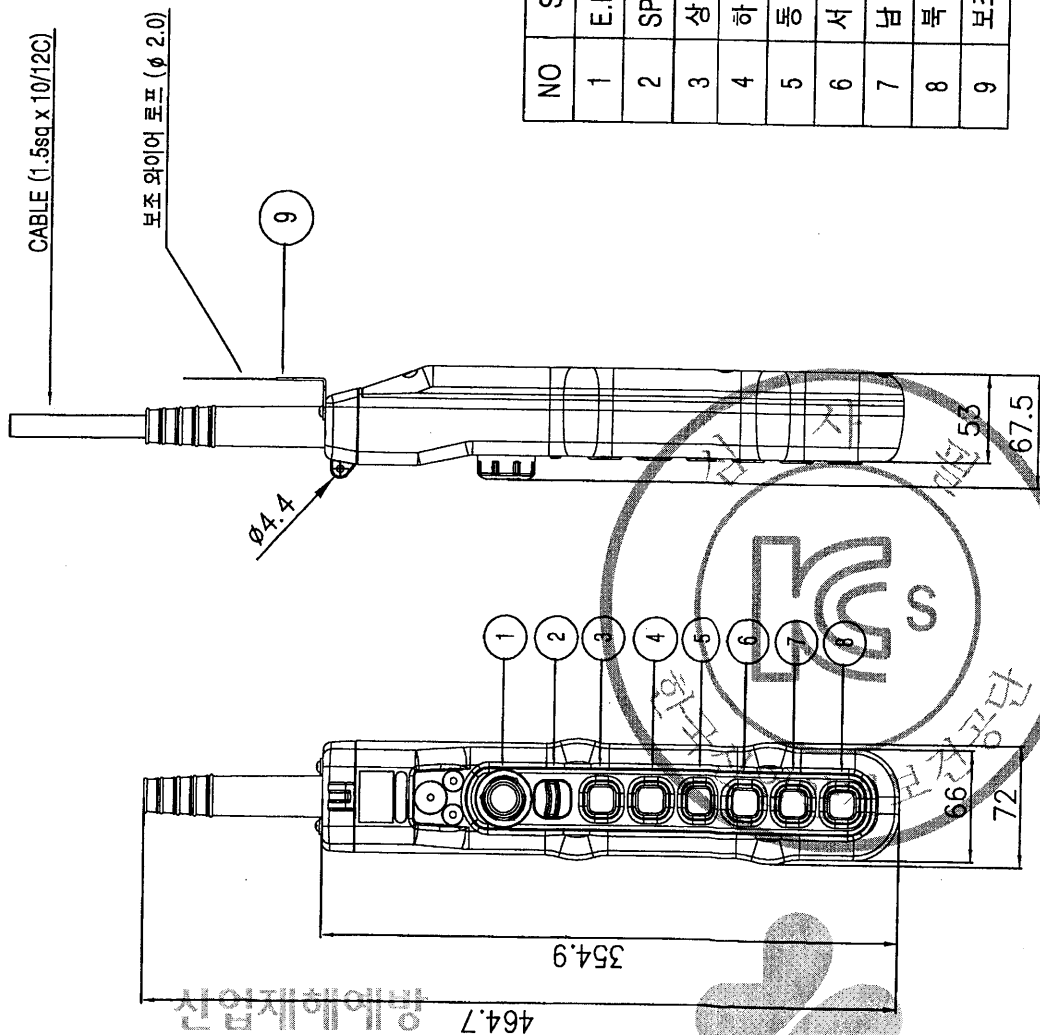
NO	SYMBOL	TYPE	SPEC.	COLOR
1	E.B.S	PUSH LOCK TURN RESET TYPE	250VAC x 6A	RED
2	SPARE			
3	상	1PUSH BUTTON 1STEP		BLACK
4	하	1PUSH BUTTON 1STEP		
5	동 (좌)	1PUSH BUTTON 1STEP		
6	서 (우)	1PUSH BUTTON 1STEP		
7	남 (전)	1PUSH BUTTON 1STEP		
8	북 (후)	1PUSH BUTTON 1STEP		
9	보조 WIRE	ø 2.0		

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

안전보건공단

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



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

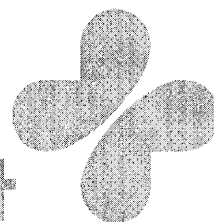
CUSTOMER		DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE
DRAWING TITLE		PENDANT PUSH BUTTON SWITCH					
REVSIONS		LAY OUT					
MK	DATE	CHK.	APP.	DWG. NO			
		KOSHA		KUK DONG HOIST CO., LTD.			

안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

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



LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 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%				
10 TON	9.0KW x 8P	110%	1 SEC	1 SEC	45.0 A	49.5 A	CT-2	K-K1, L-L1	5 V.A	
	6KW x 12P	110%	1 SEC	1 SEC	45.5 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
	8.5KW x 12P	110%	1 SEC	1 SEC	58.6 A	64.4 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	13KW x 8P	110%	1 SEC	1 SEC	59.0 A	64.9 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	70.8 A	77.9 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	84.3 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	93.2 A	100.4 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	70.8 A	77.9 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	84.3 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	93.2 A	100.4 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	126.6 A	134.2 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

극동호이스트(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%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	26.3 A	28.9 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	33.9 A	38.3 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	34.2 A	38.8 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	41.0 A	46.8 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	54.0 A	60.2 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	11.5KW x 12P	110%	1 SEC	1 SEC	41.0 A	46.8 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	54.0 A	60.2 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	77.3 A	82.8 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%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	22.7 A	24.9 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	29.3 A	33.4 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	29.5 A	33.6 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	35.4 A	39.7 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	38.3 A	42.1 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	46.6 A	50.3 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	35.4 A	39.7 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	17KW x 8P	110%	1 SEC	1 SEC	38.3 A	42.1 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	46.6 A	50.3 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

국동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	21.9 A	24.1 A	CT-2	K-K1, L-L1	5 V.A	
	8.5KW x 12P	110%	1 SEC	1 SEC	28.1 A	32.0 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	13KW x 8P	110%	1 SEC	1 SEC	28.4 A	32.1 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	33.9 A	37.7 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.5 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	23KW x 6P	110%	1 SEC	1 SEC	44.5 A	48.3 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	33.9 A	37.7 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.5 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	23KW x 6P	110%	1 SEC	1 SEC	44.5 A	48.3 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	60.5 A	65.5 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
10 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	
	6KW x 12P	110%	1 SEC	1 SEC	21.0 A	23.1 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	26.9 A	31.1 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	27.2 A	31.4 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	32.5 A	36.9 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	39.6 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	23KW x 6P	110%	1 SEC	1 SEC	42.6 A	46.9 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	32.5 A	36.9 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	39.6 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	42.6 A	46.9 A	CT-2	K-K1, L-L1	5 V.A	
40 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
50 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
60 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
70 TON	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	
	33KW x 6P	110%	1 SEC	1 SEC	58.0 A	62.8 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	45.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	45.0 A	
	6KW x 12P	45.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	45.5 A	
15 TON	8.5KW x 12P	58.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.6 A	
	13KW x 8P	59.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	59.0 A	
20 TON	11.5KW x 12P	70.8 A	1 DRAVE	SS-100	3 SEC	1 SEC	70.8 A	
	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 A	
30 TON	23KW x 6P	93.2 A	1 DRAVE	SS-100	3 SEC	1 SEC	93.2 A	
	11.5KW x 12P	70.8 A	1 DRAVE	SS-100	3 SEC	1 SEC	70.8 A	
35 TON	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 A	
	23KW x 6P	93.2 A	1 DRAVE	SS-100	3 SEC	1 SEC	93.2 A	
40 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
50 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
60 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
70 TON	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 A	
	33KW x 6P	126.6 A	1 DRAVE	SS-130	3 SEC	1 SEC	126.6 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 380V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	26.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.0 A	
	6KW x 12P	26.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	26.3 A	
15 TON	8.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
	13KW x 8P	34.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	34.2 A	
20 TON	11.5KW x 12P	41.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	41.0 A	
	17KW x 8P	44.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.3 A	
30 TON	23KW x 6P	54.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	54.0 A	
	11.5KW x 12P	41.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	41.0 A	
35 TON	17KW x 8P	43.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	43.3 A	
	23KW x 6P	54.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	54.0 A	
40 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
50 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
60 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
70 TON	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 440V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	22.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.5 A	
	6KW x 12P	22.7 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.7 A	
15 TON	8.5KW x 12P	29.3 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.3 A	
	13KW x 8P	29.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	29.5 A	
20 TON	11.5KW x 12P	35.4 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.4 A	
	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
30 TON	23KW x 6P	44.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.6 A	
	11.5KW x 12P	35.4 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.4 A	
40 TON	17KW x 8P	38.3 A	1 DRAVE	SS-60	3 SEC	1 SEC	38.3 A	
	23KW x 6P	44.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.6 A	
50 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
60 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
70 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	

NOTE

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

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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 460V 60Hz

극동하이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 A	
	6KW x 12P	21.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.9 A	
15 TON	8.5KW x 12P	28.1 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.1 A	
	13KW x 8P	28.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	28.4 A	
20 TON	11.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
	17KW x 8P	36.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	36.7 A	
30 TON	23KW x 6P	44.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.5 A	
	11.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
35 TON	17KW x 8P	36.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	36.7 A	
	23KW x 6P	44.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.5 A	
40 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
50 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
60 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
70 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	

NOTE

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

E.O.C.R 권고 SETTING치

* POWER SOURCE : AC 3Φ 480V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	20.6 A	1 DRAVE	SS-30	3 SEC	1 SEC	20.6 A	
	6KW x 12P	21.0 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.0 A	
15 TON	8.5KW x 12P	26.9 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.9 A	
	13KW x 8P	27.2 A	1 DRAVE	SS-30	3 SEC	1 SEC	27.2 A	
20 TON	11.5KW x 12P	32.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	32.5 A	
	17KW x 8P	35.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.2 A	
30 TON	23KW x 6P	42.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	42.6 A	
	11.5KW x 12P	32.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	32.5 A	
40 TON	17KW x 8P	35.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	35.2 A	
	23KW x 6P	42.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	42.6 A	
50 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
60 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
70 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	

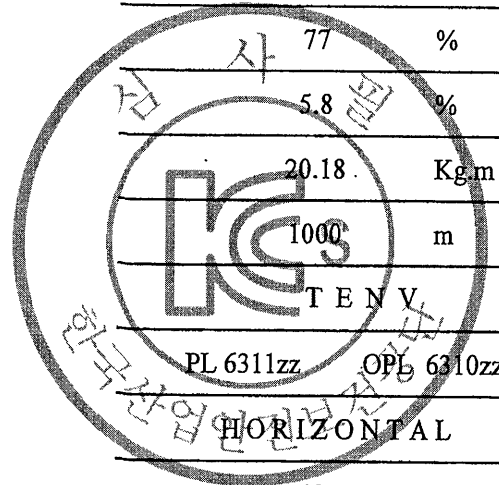
NOTE

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	HOISTNG HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	53.0 A
11. LOCKED MOTOR CURRENT	318.0 A
12. MINIMUM STARTING VOLTAGE	200 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg m
17. SITE ALTTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	



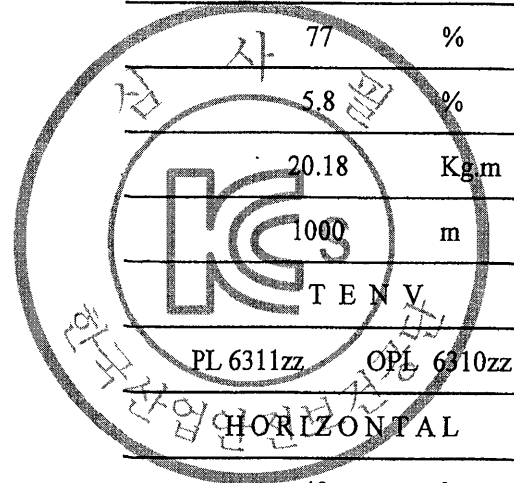
안전보건공단
KOSHA

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	30.7 A
11. LOCKED MOTOR CURRENT	184.1 A
12. MINIMUM STARTING VOLTAGE	345 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	



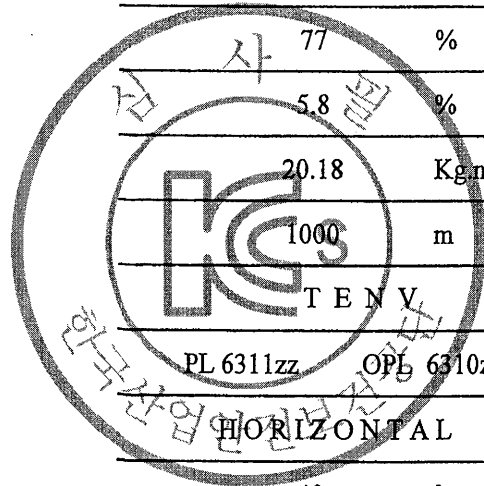
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	26.5 A
11. LOCKED MOTOR CURRENT	159.0 A
12. MINIMUM STARTING VOLTAGE	400 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kgm
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPB 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	



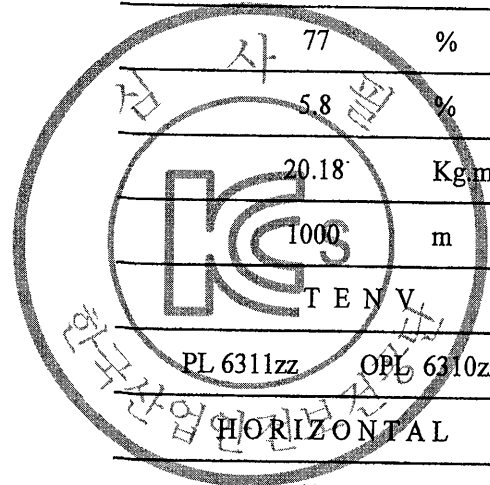
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR , OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	25.4 A
11. LOCKED MOTOR CURRENT	152.4 A
12. MINIMUM STARTING VOLTAGE	418 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg·m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	



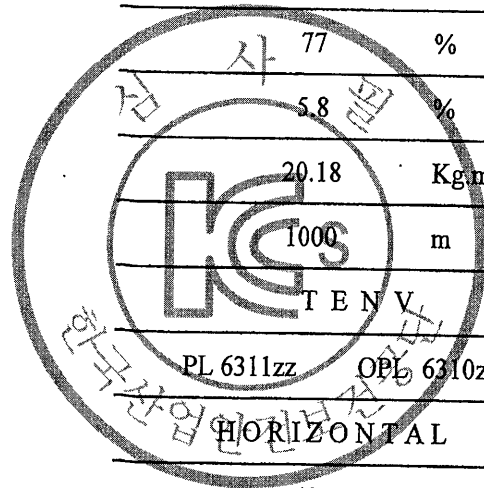
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTNG HIGH
2. MANUFACTURE	KUK DONG HOIST (주)
3. FRAME NUMBER	200M
4. RATED POWER	13 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 deg °C
10. FULL LOAD CURRENT	24.3 A
11. LOCKED MOTOR CURRENT	146.1 A
12. MINIMUM STARTING VOLTAGE	436 V
13. EFFICIENCY AT 100% RATED LOAD	83.5 %
14. POWER FACTOR AT 100% RATED LOAD	77 %
15. SLIP (FULL LOAD)	5.8 %
16. FULL LOAD TORQUE	20.18 Kg.m
17. SITE ALTITUDE(UNDER)	1000 m
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL 6311zz OPL 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. MOTOR NET WEIGHT (ABOUT)	205 Kg
24. SERIAL NO	



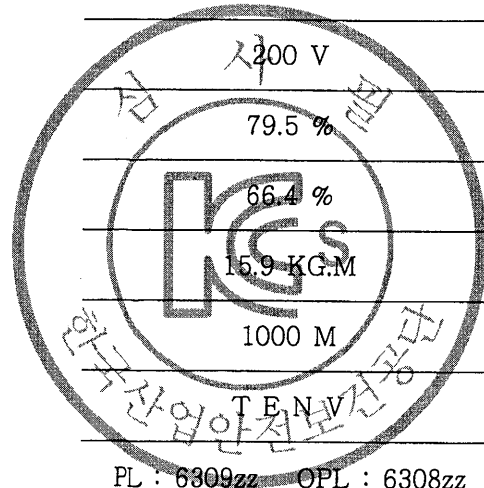
안전보건공단
KOSHA

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

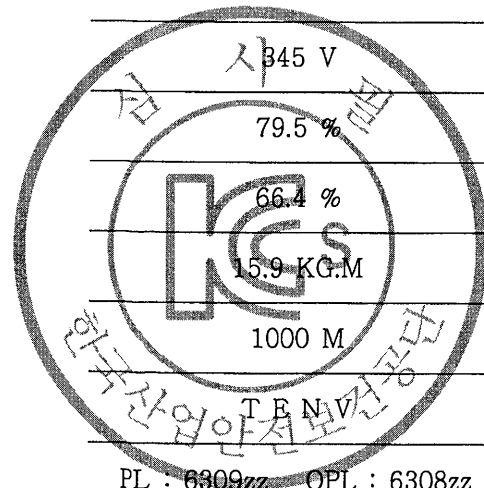
1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	45.0 A
12. STARTING CURRENT AT RATED VOLTAGE	213 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
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	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	26.0 A
12. STARTING CURRENT AT RATED VOLTAGE	122.9 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

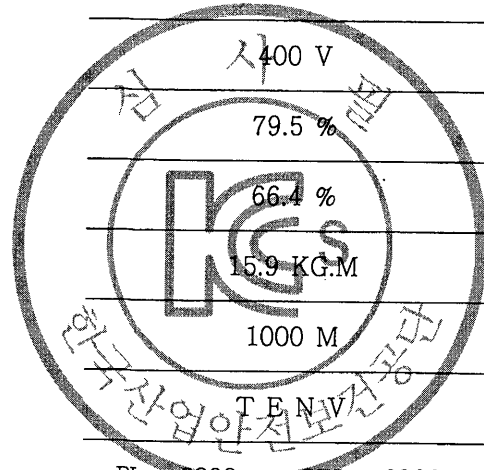


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

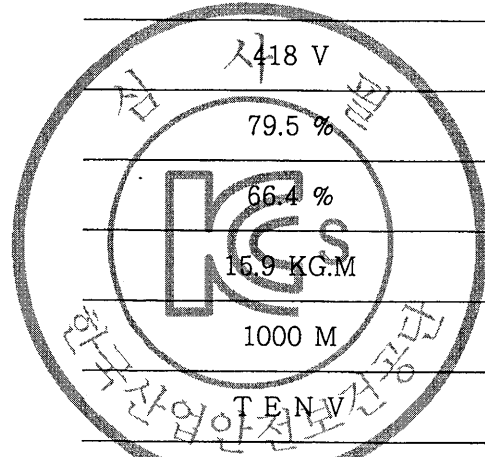
1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	22.5 A
12. STARTING CURRENT AT RATED VOLTAGE	106.0 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
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

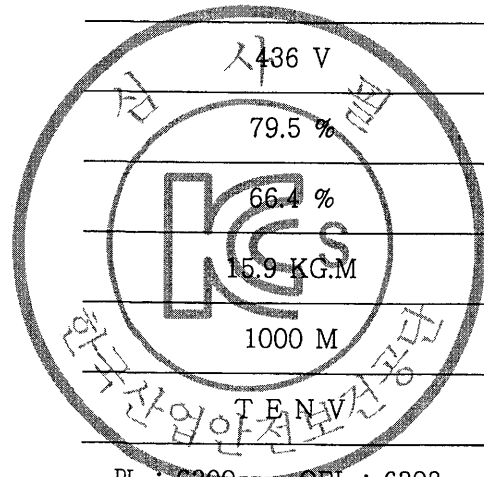
1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	21.5 A
12. STARTING CURRENT AT RATED VOLTAGE	102.2 A
13. MINIMUM STARTING VOLTAGE	2418 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 K.G.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN-V
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
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

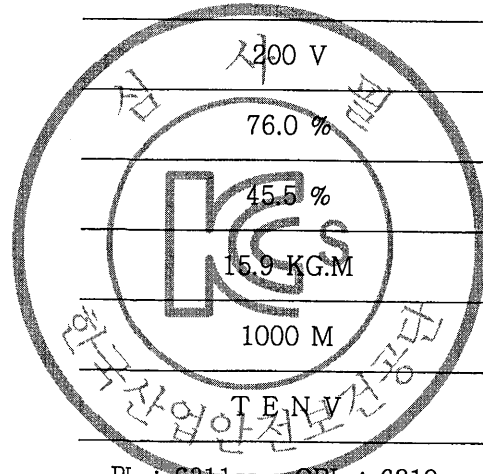
1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	160 L
4. RATED POWER	9.0 KW x 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	846 RPM
11. FULL LOAD CURRENT	20.6 A
12. STARTING CURRENT AT RATED VOLTAGE	97.97 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	79.5 %
15. POWER FACTOR AT 100% RATED LOAD	66.4 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6309zz OPL : 6308zz
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	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	45.4 A
12. STARTING CURRENT AT RATED VOLTAGE	192.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



산업재해예방

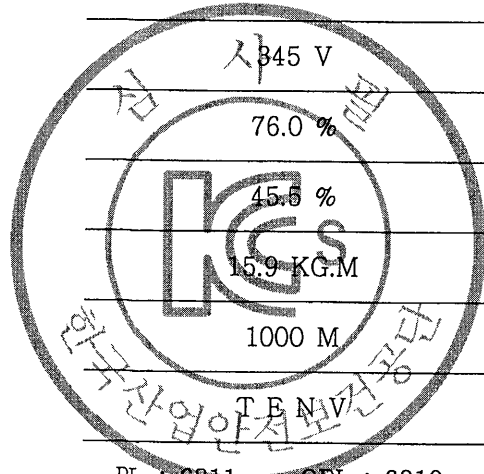
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	26.3 A
12. STARTING CURRENT AT RATED VOLTAGE	11.62 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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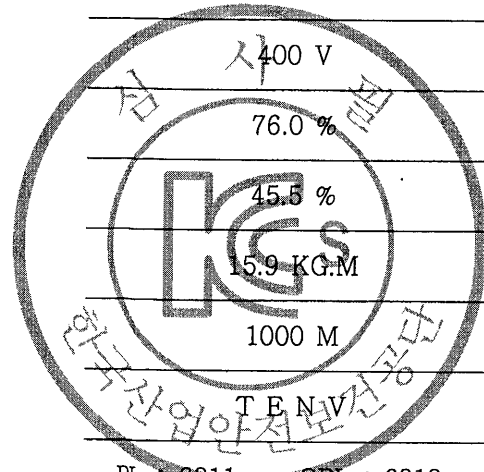
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

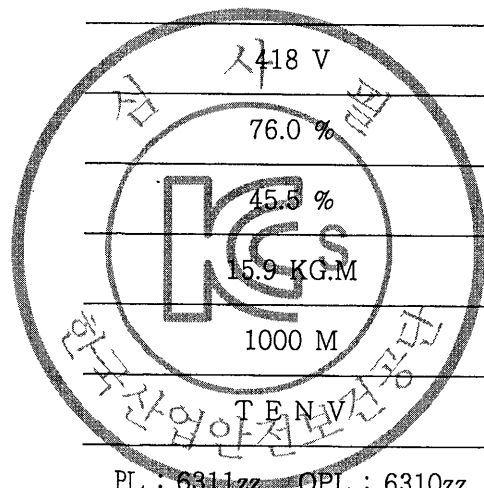
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2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	22.7 A
12. STARTING CURRENT AT RATED VOLTAGE	96.4 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
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	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	21.9 A
12. STARTING CURRENT AT RATED VOLTAGE	92.12 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG-M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

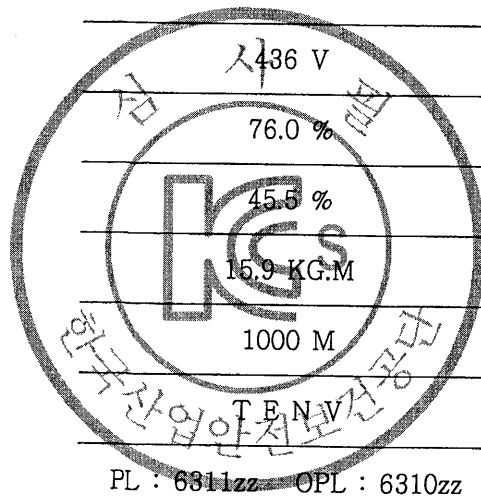


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

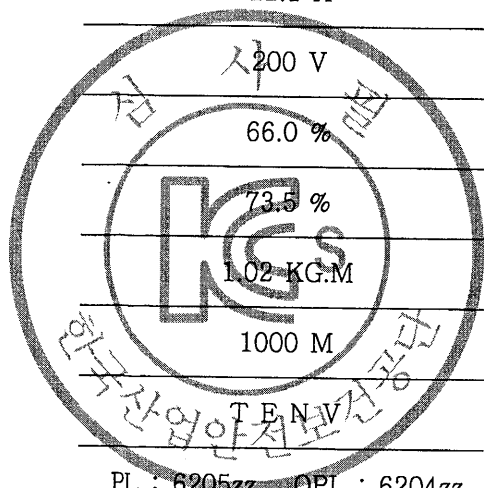
1. SERVICE	HOISTING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	200 M
4. RATED POWER	6.0 KW x 12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	564 RPM
11. FULL LOAD CURRENT	21.2 A
12. STARTING CURRENT AT RATED VOLTAGE	88.36 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	76.0 %
15. POWER FACTOR AT 100% RATED LOAD	45.5 %
16. STARTING TORQUE	15.9 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6311zz OPL : 6310zz
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	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1764 RPM
11. FULL LOAD CURRENT	4.1 A
12. STARTING CURRENT AT RATED VOLTAGE	22.1 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	66.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	1.02-KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

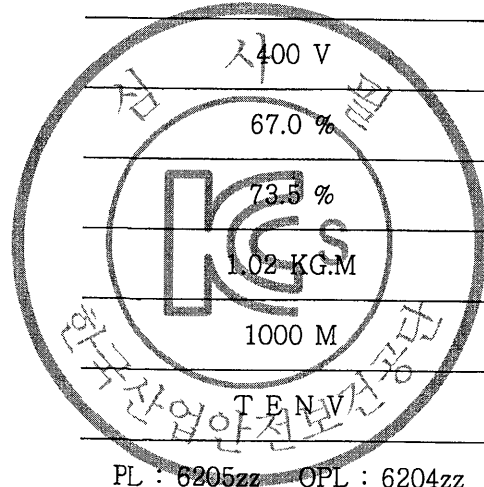
SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVELLING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1764 RPM
11. FULL LOAD CURRENT	2.4 A
12. STARTING CURRENT AT RATED VOLTAGE	13.5 A
13. MINIMUM STARTING VOLTAGE	사-345 V
14. EFFICIENCY AT 100% RATED LOAD	67.0 %
15. POWER FACTOR AT 100% RATED LOAD	69.5 %
16. STARTING TORQUE	0.85 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T.E.F.C
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

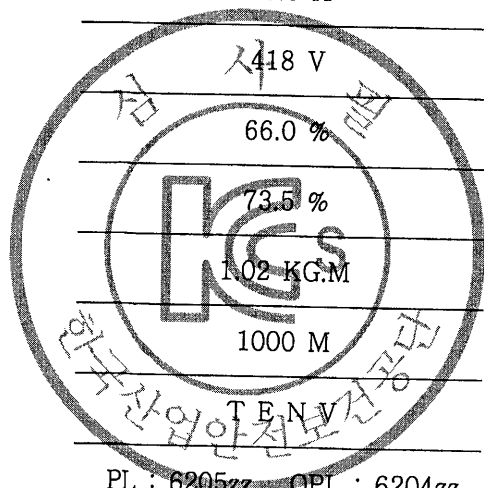
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2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1764 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	11.1 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	67.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	1.02 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

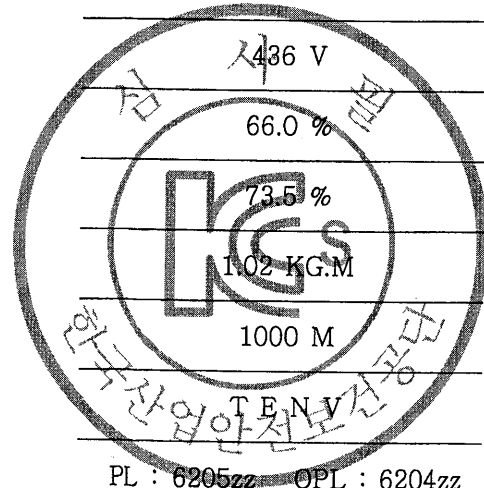
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1764 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	10.6 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	66.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	102 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.75 KW x 4 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1764 RPM
11. FULL LOAD CURRENT	1.9 A
12. STARTING CURRENT AT RATED VOLTAGE	10.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	66.0 %
15. POWER FACTOR AT 100% RATED LOAD	73.5 %
16. STARTING TORQUE	102 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



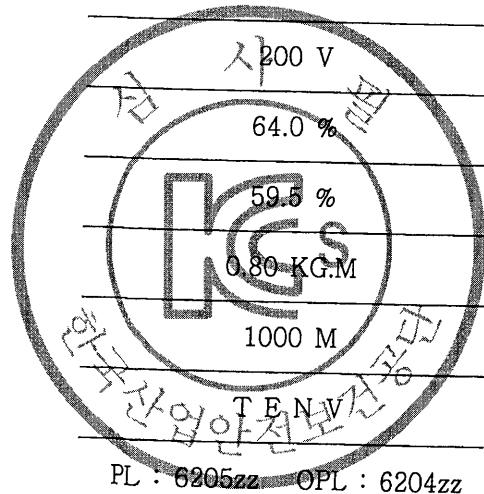
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

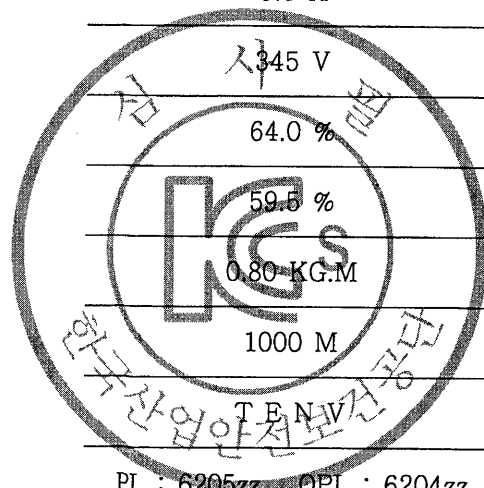
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1176 RPM
11. FULL LOAD CURRENT	3.4 A
12. STARTING CURRENT AT RATED VOLTAGE	16.4 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1176 RPM
11. FULL LOAD CURRENT	2.0 A
12. STARTING CURRENT AT RATED VOLTAGE	9.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 KG·M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



산업안전예방

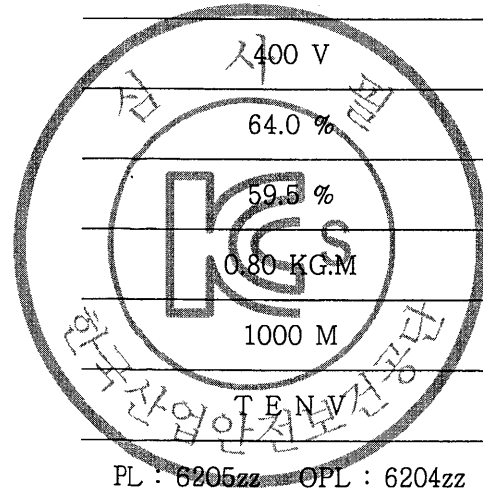
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

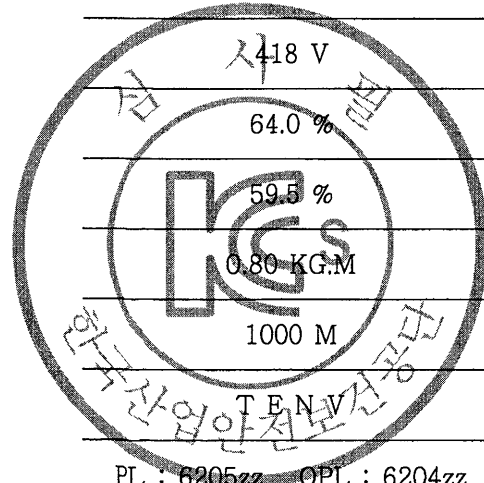
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2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1176 RPM
11. FULL LOAD CURRENT	1.7 A
12. STARTING CURRENT AT RATED VOLTAGE	8.2 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

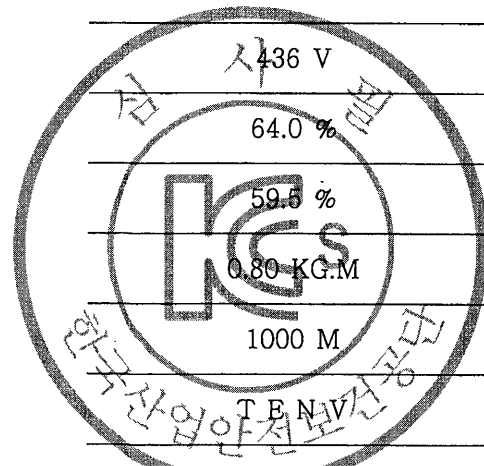
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1176 RPM
11. FULL LOAD CURRENT	1.7 A
12. STARTING CURRENT AT RATED VOLTAGE	7.9 A
13. MINIMUM STARTING VOLTAGE	사 418 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 KG·M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 S
4. RATED POWER	0.5 KW x 6 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1176 RPM
11. FULL LOAD CURRENT	1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	7.5 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	64.0 %
15. POWER FACTOR AT 100% RATED LOAD	59.5 %
16. STARTING TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

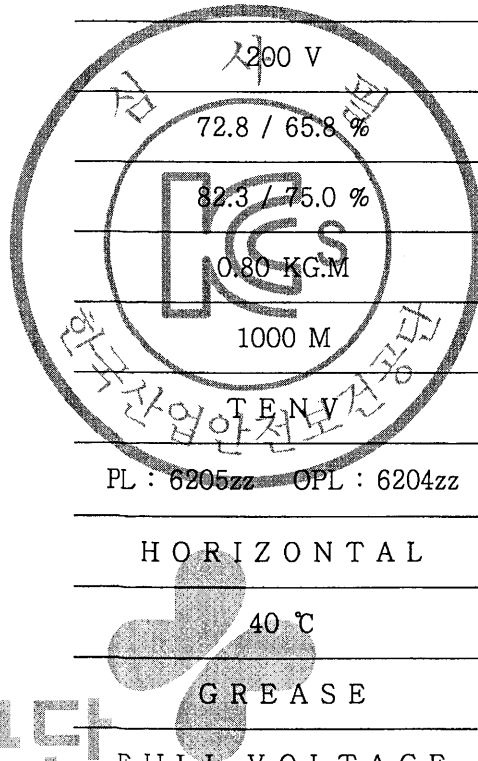


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THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

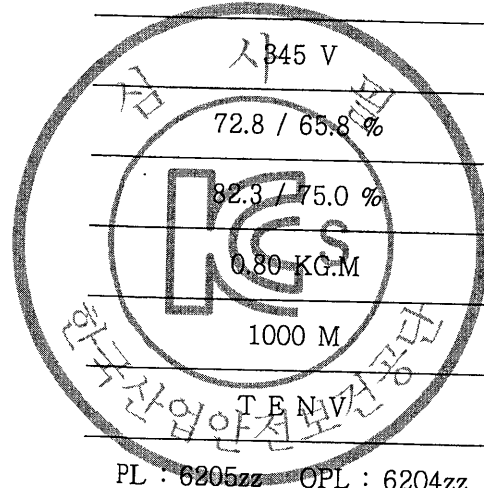
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	4.8 / 4.25 A
12. LOCKED ROTOR CURRENT	14.2 / 13.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.78 / 2.63 A
12. LOCKED ROTOR CURRENT	9.2 / 6.3 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



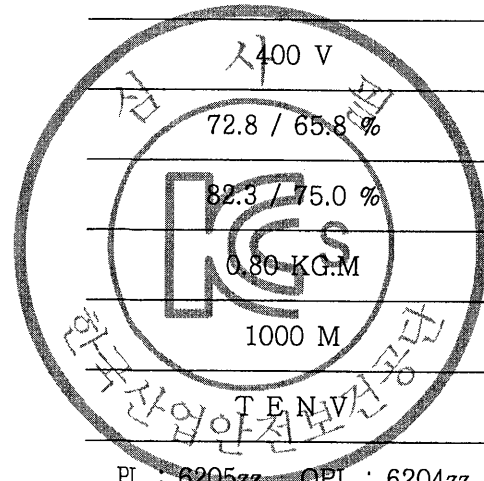
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.4 / 2.27 A
12. LOCKED ROTOR CURRENT	8.6 / 6.2 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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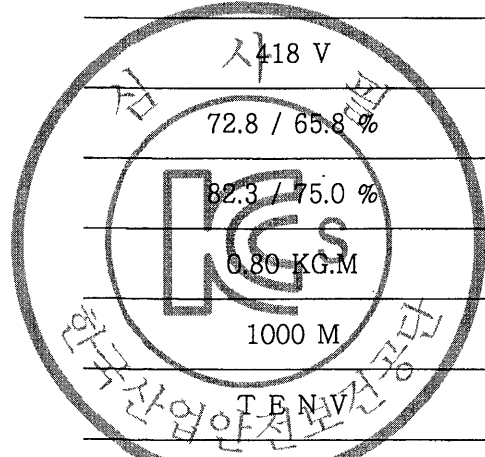
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KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

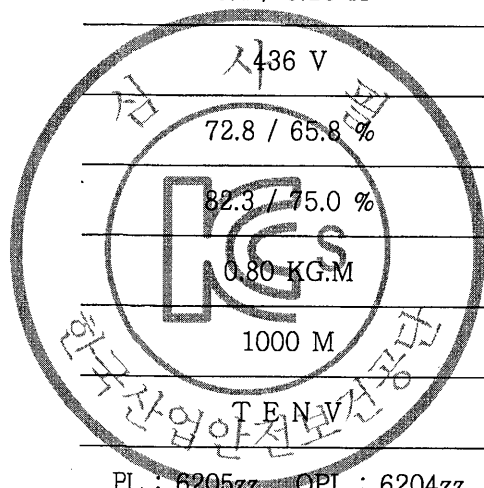
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3 / 2.17 A
12. LOCKED ROTOR CURRENT	8.5 / 6.2 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD TORQUE	0.80 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

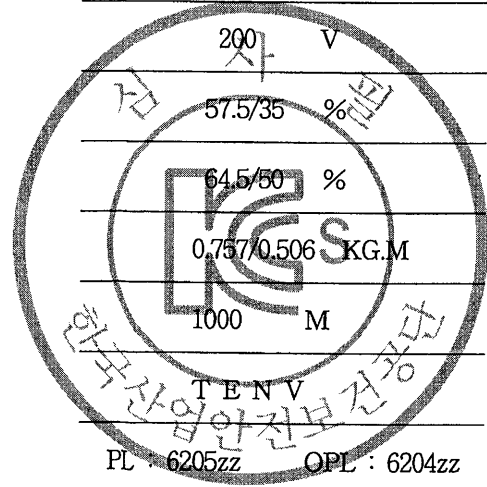
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동 호이스트 (주)
3. FRAME NUMBER	90 M
4. RATED POWER	0.8 / 0.4 KW x 4 / 8 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1750 / 850 RPM
11. FULL LOAD CURRENT	2.3 / 2.1 A
12. LOCKED ROTOR CURRENT	8.4 / 6.15 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	72.8 / 65.8 %
15. POWER FACTOR AT 100% RATED LOAD	82.3 / 75.0 %
16. FULL LOAD TORQUE	0.80 KG·M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TEN V
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

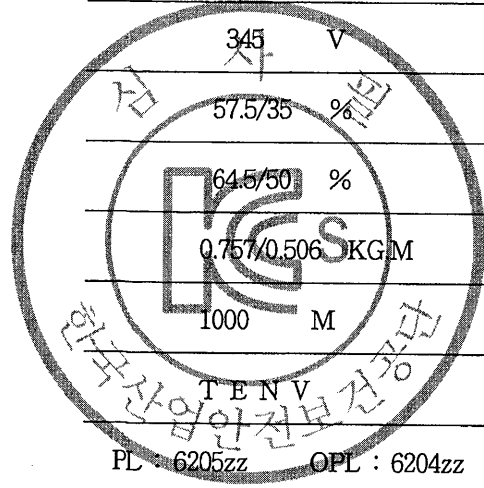
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	220 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	3.2/3.6 A
12. STARTING CURRENT AT RATED VOLTAGE	12.8/10.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPRE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

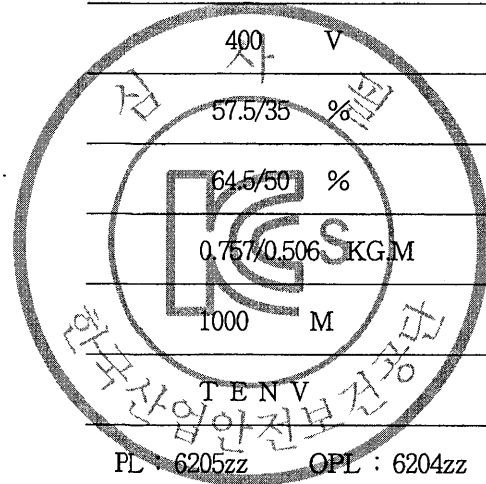
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.85/2.08 A
12. STARTING CURRENT AT RATED VOLTAGE	7.41/6.25 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.75/0.506 SKGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

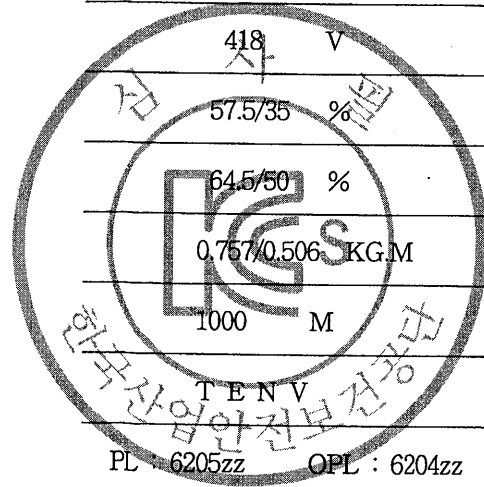
1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	440 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.6/1.8 A
12. STARTING CURRENT AT RATED VOLTAGE	6.4/5.4 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	460 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.5/1.72 A
12. STARTING CURRENT AT RATED VOLTAGE	6.2/5.3 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



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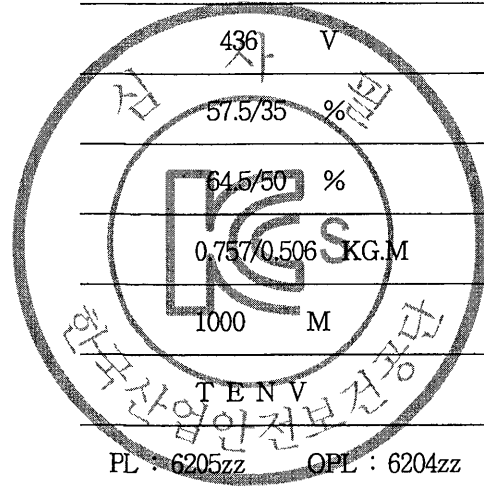
안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	TRAVERSING
2. MANUFACTURE	극동호이스트 (주)
3. FRAME NUMBER	90 L
4. RATED POWER	0.5/025 KW x 6/12 P
5. RATED VOLTAGE AND FREQUENCY	480 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATting	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR, OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 °C
10. FULL LOAD SPEED	1050/460 RPM
11. FULL LOAD CURRENT	1.4/1.6 A
12. STARTING CURRENT AT RATED VOLTAGE	5.82/4.93 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	57.5/35 %
15. POWER FACTOR AT 100% RATED LOAD	64.5/50 %
16. STARTING TORQUE	0.757/0.506 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	TENV
19. TYPE OF BEARING	PL : 6205zz OPL : 6204zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 °C
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE





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Page 5 of 8

Report No. 13601062 002

EN 60 947-5-1			
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	5	SP
C.7	Degrees of protection against access to hazardous parts indicated by the additional letter		N/A
	Clause 7 of IEC 60529 applies		N/A
C.8	Supplementary letters		N/A
	Clause 8 of IEC 60529 applies		N/A
C.9	Examples of designations with IP Code		P
	Clause 9 of IEC 60529 applies		P
C.10	Marking		P

TRF-No.: IEC60947_5_1A

산업재해예방
C.5, C.6항이 IP65 PASS를 뜻함.
안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



ORIGINAL

CERT NO. 201201WRU56901

DATE May. 11, 2012

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 100M X 7 REEL

EX NO. PW9074

ORDER NO. 1W4164

REEL NO. 1~7

SAMPLING NO. 1

DIAMETER OF ROPE 16.00 mm TYPE OF CORE Fiber Core

SPECIFIED BREAKING LOAD 145.0 kN SAMPLE BROKE AT 152.3 kN

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

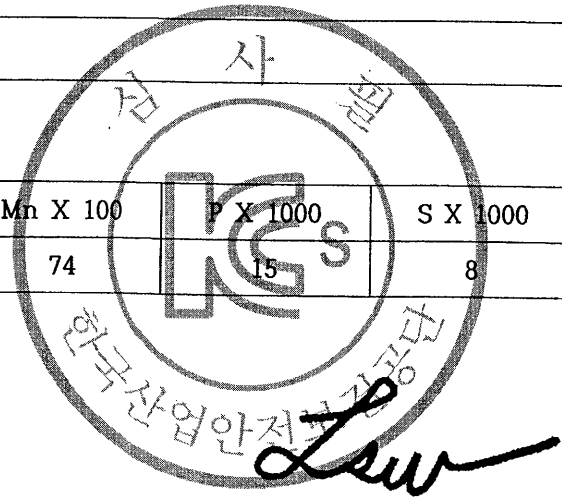
ROPE LAY RHRL LAY LENGTH 105.8 mm

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	74	22	74	15	8

DATE OF SAMPLE TEST May 11, 2012



Approved by Q.C Manager S.W. LEE
KISWIRE LTD., KOREA



KS



JIS

산업재해예방



API



ABS



KR



NK



G.Lloyd's



DNV



L.R



BV

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