



제 2012 - 12995 호

안 전 인 증 서

(사업장명)

극동호이스트(주)

(소 재 지) (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

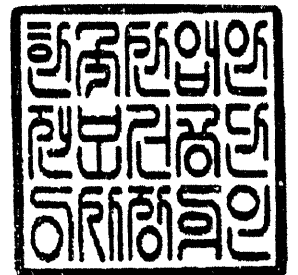
_____ 형식,모델(용량,등급)/인증번호 _____
KD20-S (20Ton) /12-AQ2AC-01145

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

_____ 인 증 조 건 _____

2012년 04월 05일

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)		KD20-S (0001)	용량 (등급)	20 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.

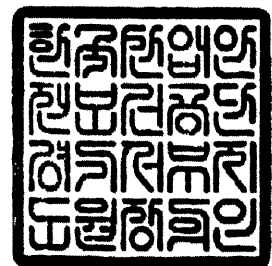
2012년 04월 05일

인증심사원

강성두

(서명 또는 인)

한국산업안전보건공단 경기서부지도원장





심사결과 통지서

신청인	사업장명	극동호이스트(주)	사업장관리번호	134-81-013350
	사업자등록번호	134-81-01335	대표자 성명	최성찬
	소재지	(425 - 833) 경기도 안산시 성곡동630-2 반월공단 B-607-14		
안전인증대상 기계·기구명				
호이스트				
형식 (규격)		KD20-S	용량 (등급)	20 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.

2012년 03월 26일

인증심사원

강성두 변명수

(서명 또는 인)

한국산업안전보건공단 경기서부지도원장



서 면 심 사 서 류

형식 번호 : KD20 - S



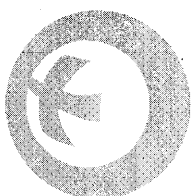
극 동 호 이 스트 (주)

工場 : 경기도 안산시 단원구 성곡동 630-2 반월공단607-14

電話 : 031) 491 - 5311

192.168.11.38 / 2012-03-28 09:03:08

FAX : 031) 494 - 5315



한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

192.168.11.38 / 2012-03-28 09:03:08

동 일 형 식 일 람 표

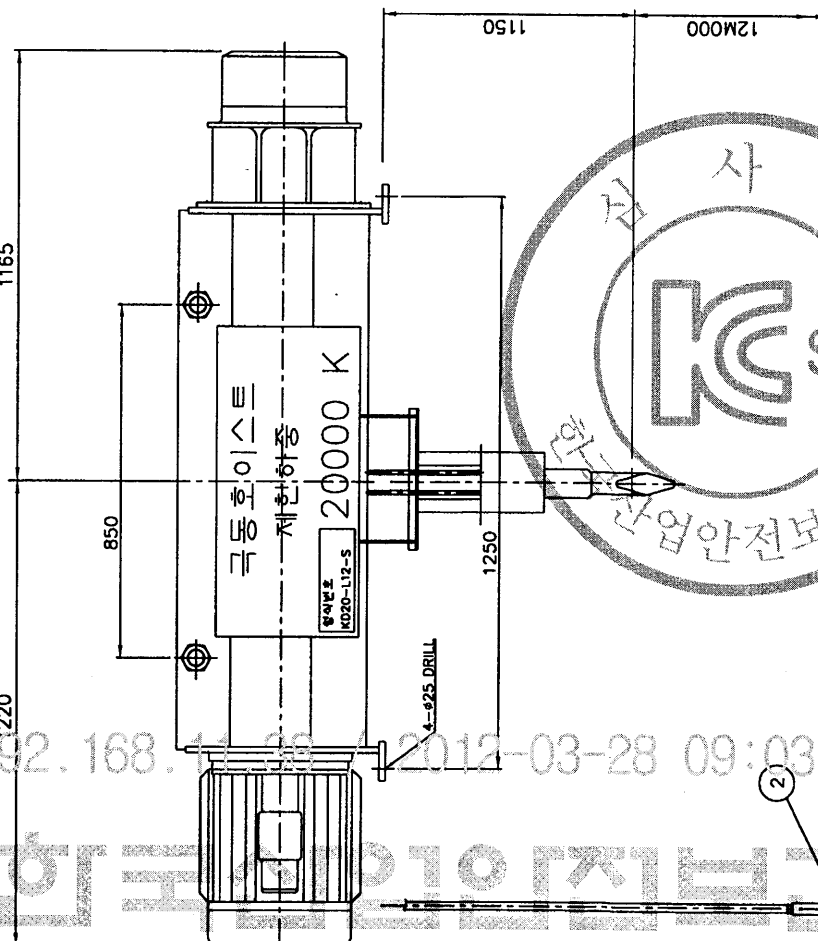
사업장명	구동호이스트	개정일자 및 번호	인증번호	비고
형식	형식 및 모델	동일 형식 인정범위 및 내역		
	모델	권상속도(m/min)	회행속도(m/min)	양정(m)
KD20-S	KD20-L12-S	고속:4.2M/MIN	-	12
	KD20-L18-S			18
	KD20-L24-S			24
	KD20-L30-S	저속:2.8M/MIN		30
				-



192.168.11.38 / 2012-03-28 09:03:08

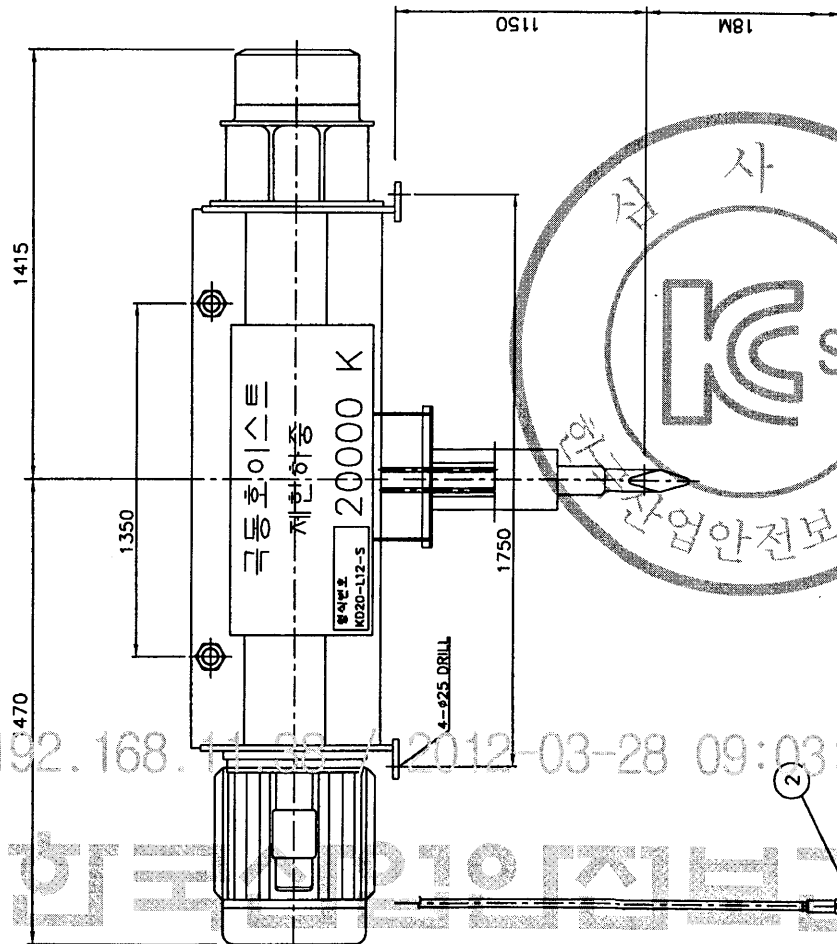
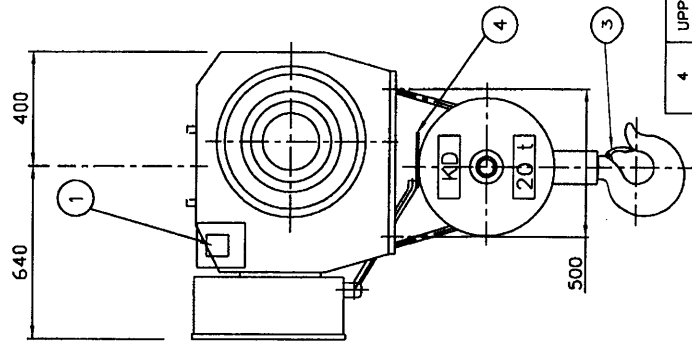
한국산업안전보건공단

192.168.11.38 / 2012-03-28 09:03:08



4	UPPER LIMIT S/W	SS400	1					
3	SAFETY LATCH	SS400	1					
2	PUSH BUTTON S/W	-	1					
1	LOAD LIMITER		1					
NO.	DESCRIPTIONS	M'T'L	SET QTY	SET UNIT	TOTAL WEIGHT KG.	REMARKS		
PROJECT		DATE						
TITLE		KD20-L12-S						
		----- ARRANGEMENT DRAWING FOR HOIST -----						
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING				
		SHEET NO.		DRAWING NO.				
				KD20S1200				

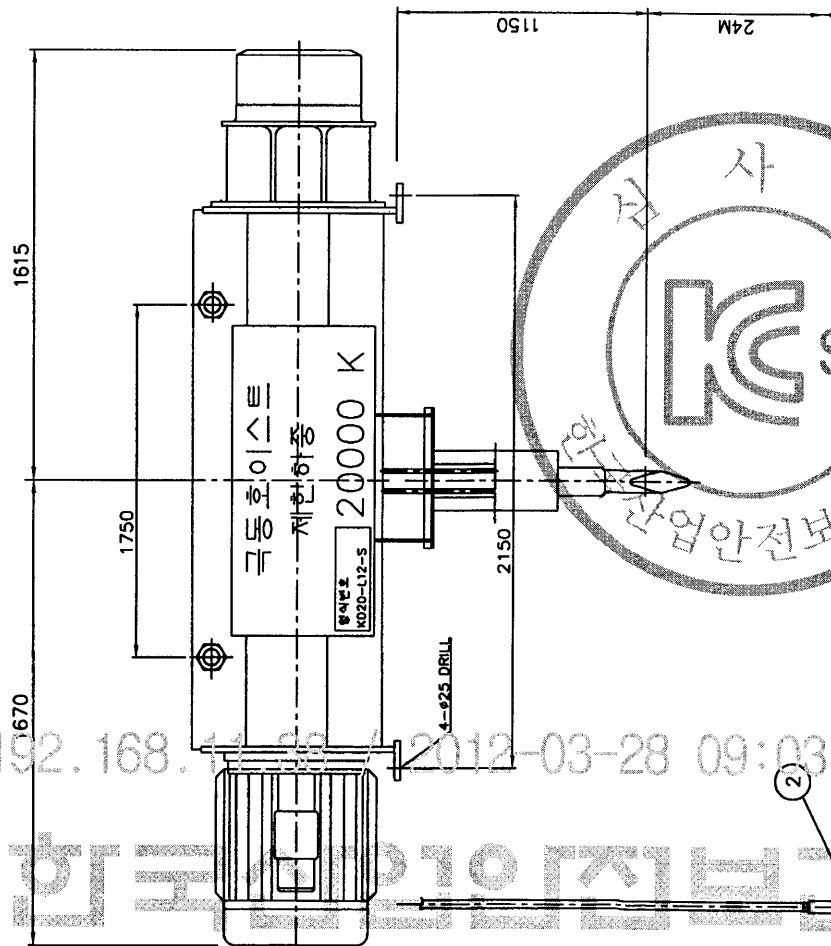
SPECIFICATION				
RATED LOAD		20000 KG		
TESTING LOAD		25000 KG		
LIFT		18 M		
RATING		30 MIN		
HOISTING	HIGH	SPEED	4.2 M/MIN	
		MOTOR	17 KW x 8 P	
	LOW	SPEED	2.8 M/MIN	
		MOTOR	11.5 KW x 12 P	
WIRE ROPE		(6x37) ϕ 22.4 x 4 FALLS		
POWER SOURCE		AC3 ϕ 220V(380,440,460,480)V 60Hz		
COLOR		10 B 3/5		
WEIGHT		2310 KG		



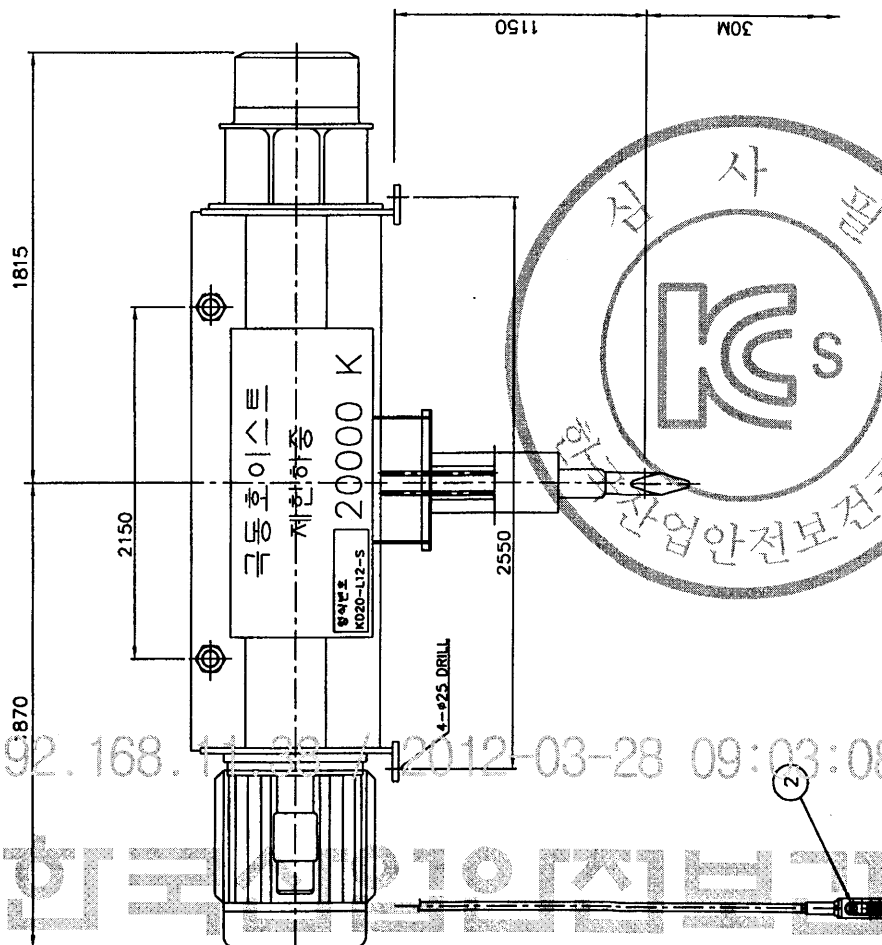
NO.	DESCRIPTIONS	M'T'L	SET		UNIT		TOTAL		REMARKS
			QTY	QTY	QTY	QTY	QTY	QTY	
4	UPPER LIMIT S/W	SS400	1						
3	SAFETY LATCH	SS400	1						
2	PUSH BUTTON S/W	-	1						
1	LOAD LIMITER		1						
PROJECT									
DATE									
TITLE									
K20-L18-S									
ARRANGEMENT DRAWING FOR HOIST									
SCALE									
/ /									
DRAWN									
DESIGNED									
CHECKED									
APPROVED									
REF DRAWING									
SHEET NO.									
DRAWING NO.									
KD20S1800									

192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

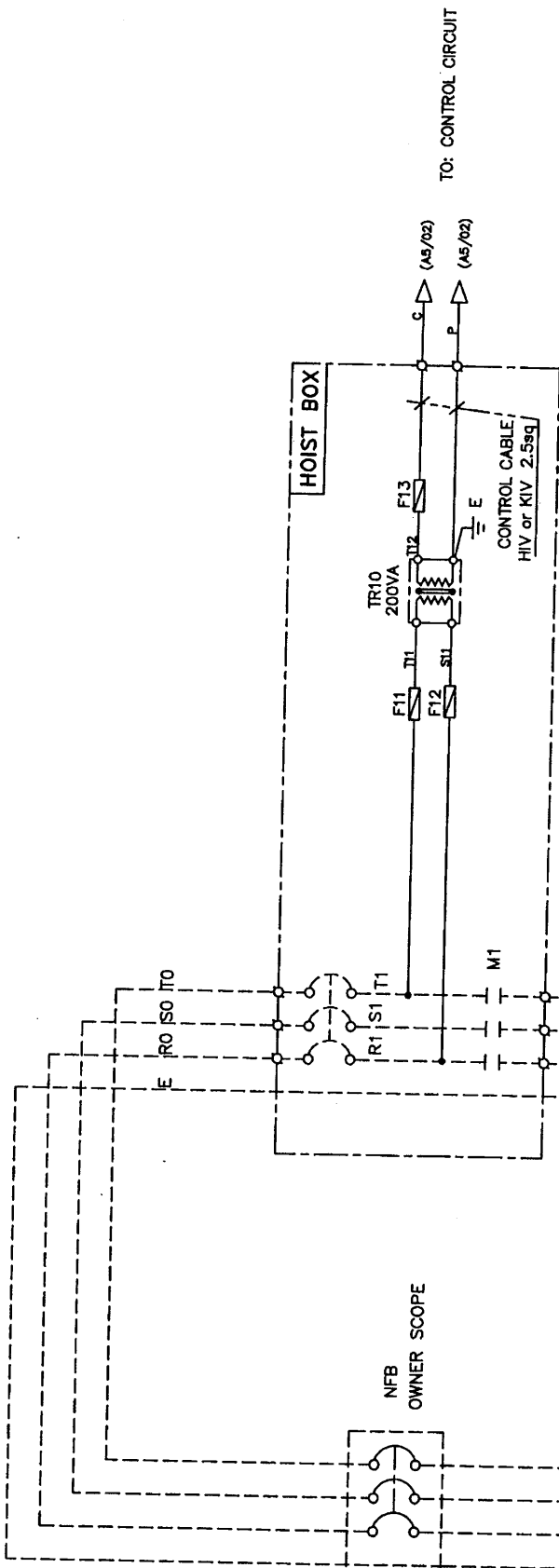


4	UPPER LIMIT S/W	SS400	1								
3	SAFETY LATCH	SS400	1								
2	PUSH BUTTON S/W	-	1								
1	LOAD LIMITER		1								
NO.	DESCRIPTIONS	MT'L	SET QTY	SET	UNIT	TOTAL	REMARKS				
						WEIGHT KG.					
PROJECT							DATE				
TITLE		KD20-L24-S					SCALE				
		----- ARRANGEMENT DRAWING FOR HOIST					/ /				
DRAWN		DESIGNED	CHECKED	APPROVED			REF DRAWING				
							SHEET NO.		DRAWING NO.		
									KD20S2400		



4	UPPER LIMIT S/W	SS400	1									
3	SAFETY LATCH	SS400	1									
2	PUSH BUTTON S/W	-	1									
1	LOAD LIMITER		1									
NO.	DESCRIPTIONS	MT'L	SET QTY	UNIT	TOTAL WEIGHT KG.	REMARKS						
PROJECT							DATE					
TITLE		KD20-L30-S ----- ARRANGEMENT DRAWING FOR HOIST					SCALE		/ /			
DRAWN	DESIGNED	CHECKED	APPROVED			REF		DRAWING				
						SHEET NO.		DRAWING NO.		KD20S3000		

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



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

제 3종접지 공사(400V 이상전압 : 10 OHM 이하)

1. 전선의 색상은 다음과 같다.

3. 조작 버튼의 색상은 다음과 같다.

- 1) 흑 색 : 교류 및 직류전원선
- 2) 적 색 : 교류제어선
- 3) 청 색 : 직류제어선
- 4) 녹색 또는 녹색과 황색 혼용 : 접지

2. 표시등의 색상은 다음과 같다.

- 1) 적 색 : 비상
- 2) 황 색 : 비정상
- 3) 녹색 : 정상
- 4) 청 색 : 의무
- 5) 흰색 : 정지

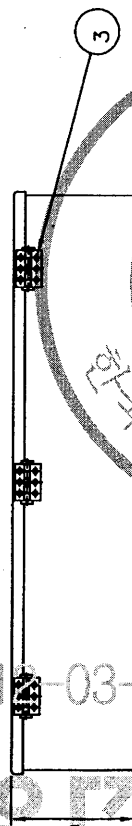
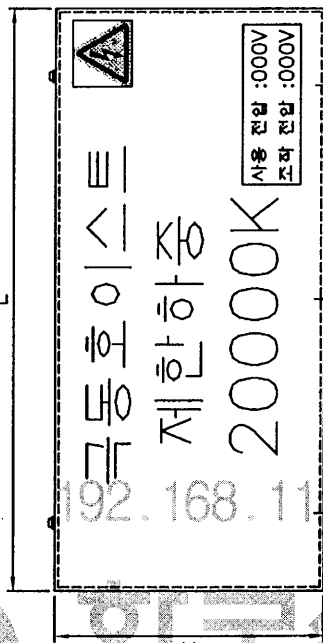
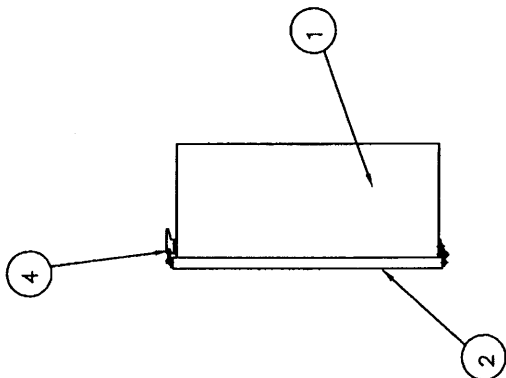
SELECTION	VOLTAGE	F11	F12	F13	MCCB100	TR10
	220V	3A	5A	225AF/125AT	220/110,120 200VA	
	380V	2A	5A	103AF/75AT	380/110,120 200VA	
	440V	2A	5A	103AF/60AT	440/110,120 200VA	
	460V	2A	5A	103AF/60AT	460/110,120 200VA	
	480V	2A	5A	103AF/60AT	480/110,120 200VA	

DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
KUK DONG HOIST CO., LTD.						
KUK DONG HOIST CO., LTD.						
DWG. NO						
KD20E001						

192.168.11.38 / 2012-03-28 09:03:08

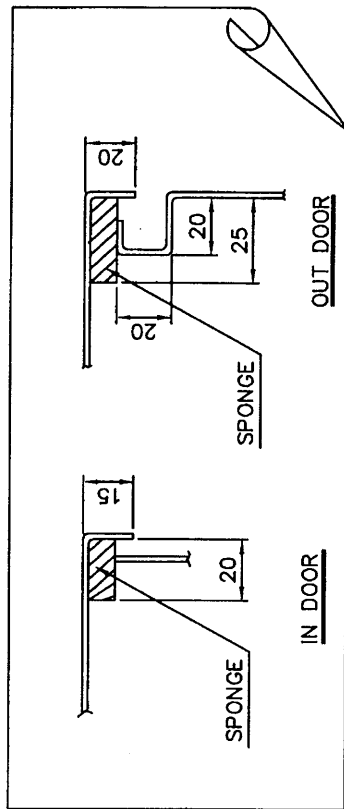
192.168.11.38 / 2012-03-28 09:03:08

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



SELECTION	HOIST CAPACITY	DESCRIPTION	IN DOOR		OUT DOOR		REMARK
			A	B	A	B	
	20 TON	NORMAL	650	220	850	660	220 860
	20 TON	CREEP	650	220	850	660	220 860

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 직접접촉 방호가 되어있을것.

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
KUK DONG HOIST CO., LTD.					NONE		
HOISTING CONTROL BOX		LAY-OUT		DWG. NO		KD20EB00	
DATE	REVISIONS	CHK.	APP.				
1							

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

NOTE 1. 전선의 색상은 다음과 같다.

1) 녹색 : 교류 및 직류 전원선로 5) 황색 : 직류 제어선로

2) 적색 : 교류 제어회로

3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로

4) 녹색 또는 녹색과 황색 혼용 : 접지선

2. CABLE MATERIAL : KIV OR EQUIVALENT

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

4. 제작시 다스 변경 될수있음.

5. 외함 기방구조는 다음과 같을것.

1) 외함 기방시 충전부분이 차단되도록 할것.

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

NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 글
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	MC-100a	1	M1, MAIN MAG.
4	MAGNET CONTACT	MC-185a	2	HOISTING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	E.O.C.R	SS-100	1	HOISTING
7	MOC8100	225AF/125AT	1	LS-2
8	UPPER LIMIT	AC 800V/3A	1	LS-1
9	LIMIT LEVER	SS-41	1	
10	FUSE (F11,F12)	3 A	2	
11	FUSE (F13)	5 A	1	
12	TRANSFORMER	220V/110,120V, 200VA	1	
13	TERMINAL BLOCK	100A,25A		
14	TERMINAL BLOCK	15A		
15	EARTH TERMINAL	5tx25x50	1	

NOTE

1. UPPER LIMIT LS-1의 점접 허용 전류 용량 : AC 600V, 3A

2. UPPER LIMIT LS-2의 점접 허용 전류 용량 : NFB 225AF

3. EARTH TERMINAL RESISTANCE : 0.018 Ω

4. POWER SOURCE : AC 3Φ 220V 60HZ

REVISIONS

DATE	REVISIONS	CHK.	APP.

CUSTOMER

DRAWING TITLE

HOISTING CONTROL BOX

ARRANGEMENT DRAWING

DRAWING

DESIGN

CHECKED

APPROVED

SCALE

NONE

DATE

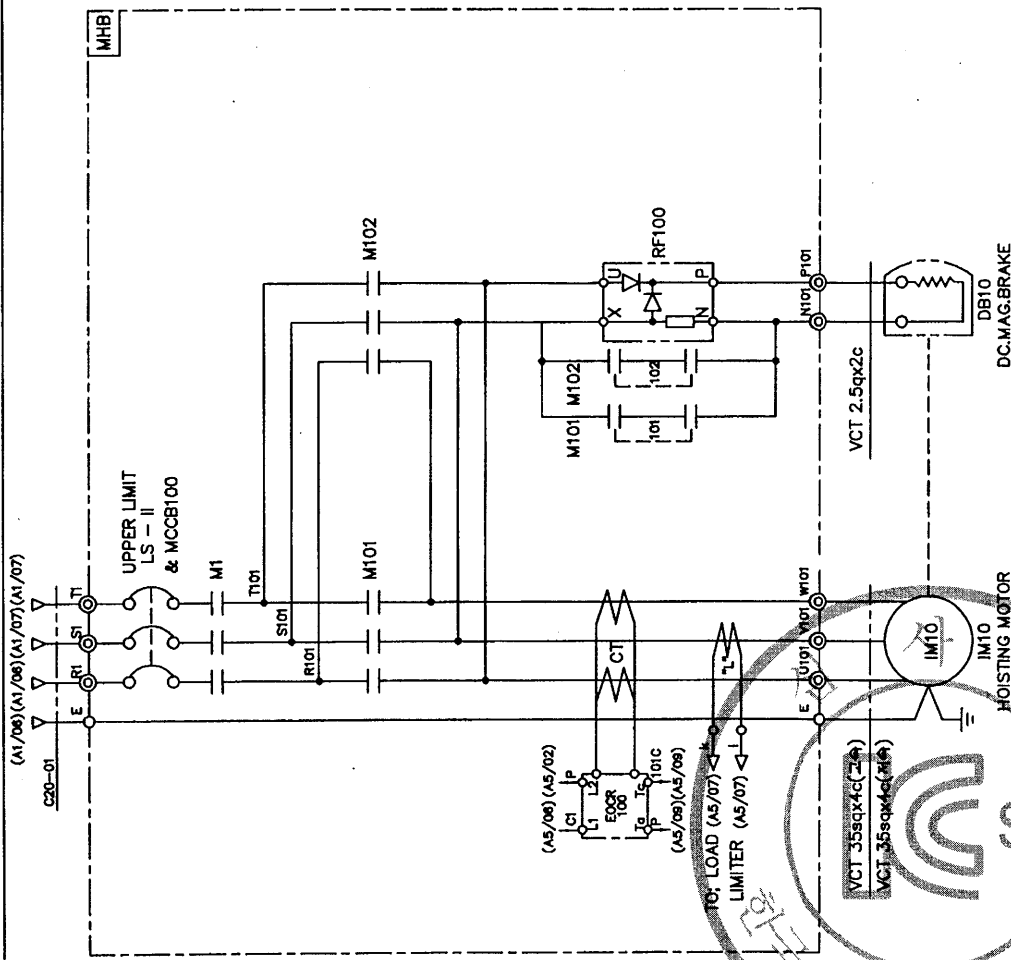
ORDER NO.

DWG. NO

KD20BA21

KUK DONG HOIST CO., LTD.

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



SPECIFICATION SYMBOLS	HOISTING POWER	HOISTING MOTOR	DC MAG. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE
	20TON AC 3PH 220V 60Hz	IM 10	DB10 30	LS - II & MCCB100	TR 1	F1, F12	M1	M101, M102	LS-I	EOCR100	RF100	JDL-100	C20-01
SELECTION MAKER	20TON AC 3PH 220V 60Hz	17KW x 8P	DC 100V	ABS-225AF/125AT	220/110, 200/200VA	3A	MC-100a	MC-185a	AC 600V 3A	SS-100	SR-60	JDL-100	VCTF 35sqx4c
	20TON AC 3PH 220V 60Hz	11.6KWx12P	DC 100V	ABS-225AF/125AT	220/110, 200/200VA	3A	MC-100a	MC-185a	AC 600V 3A	SS-100	SR-60	JDL-100	VCTF 35sqx4c
KUKDONG										ASECO			
JUNGHO										DONGIL			
CUSTOMER										DATE			
DRAWING TITLE										NONE			
REVISIONS										DWG. NO			
DATE										KD20E21			
MK										KUKDONG HOIST CO., LTD.			

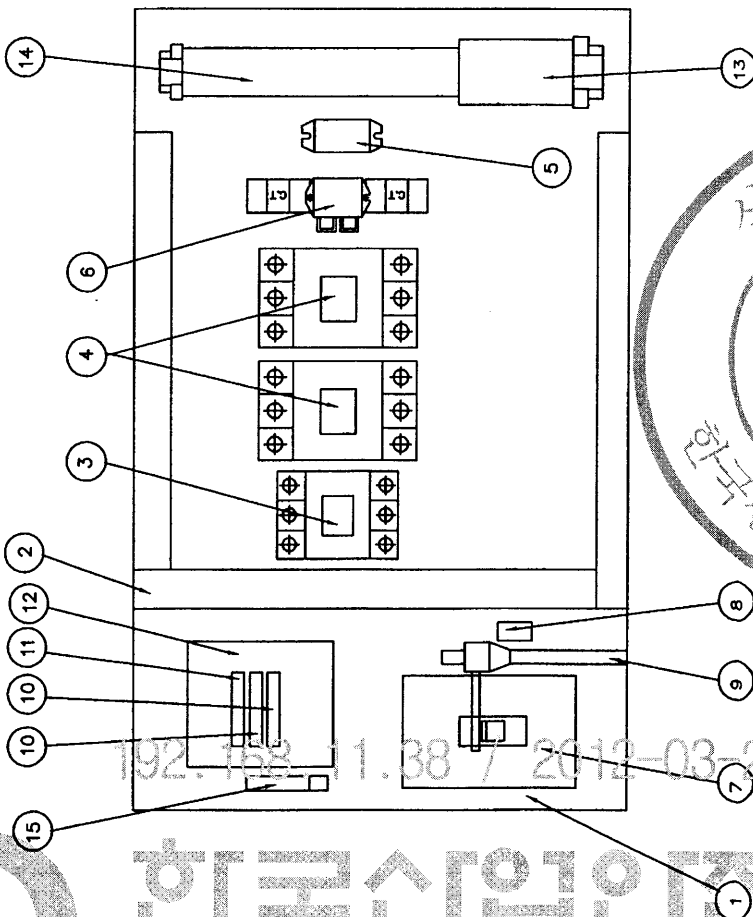
192.168.11.38 / 2012-03-28 09:03:08

한국산업안전보건공단

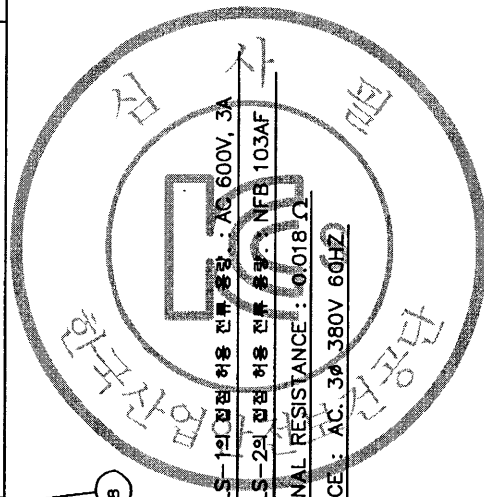
192.168.11.38 / 2012-03-28 09:03:08

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

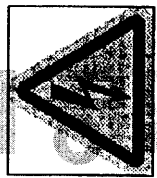
NO	DESCRIPTION	SPECIFICATION	QTY	REMARK
1	CHASSIS PLATE		1	아연 도금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC65C	1	M1, MAIN MAG.
4	MAGNET CONTACT	MC-130a	2	HOISTING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	E.O.C.R	SS-60	1	HOISTING
7	MCCB100	103AF/75AT	1	LS-2
8	UPPER LIMIT	AC 600V/3A	1	LS-1
9	LIMIT LEVER	SS-41	1	
10	FUSE (F11,F12)	3 A	2	
11	FUSE (F13)	5 A	1	
12	TRANSFORMER	380V/110,120V, 200VA	1	
13	TERMINAL BLOCK	100A,25A		
14	TERMINAL BLOCK	15A		
15	EARTH TERMINAL	5x25x50	1	



NOTE 1. 전선의 색상은 다음과 같다.
 1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어선로
 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 변경 될수있음.
 5. 외함 개방구조는 다음과 같을것.
 1) 외함 개방시 승전부분이 차단되도록 할것.
 2) 외함 개방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.

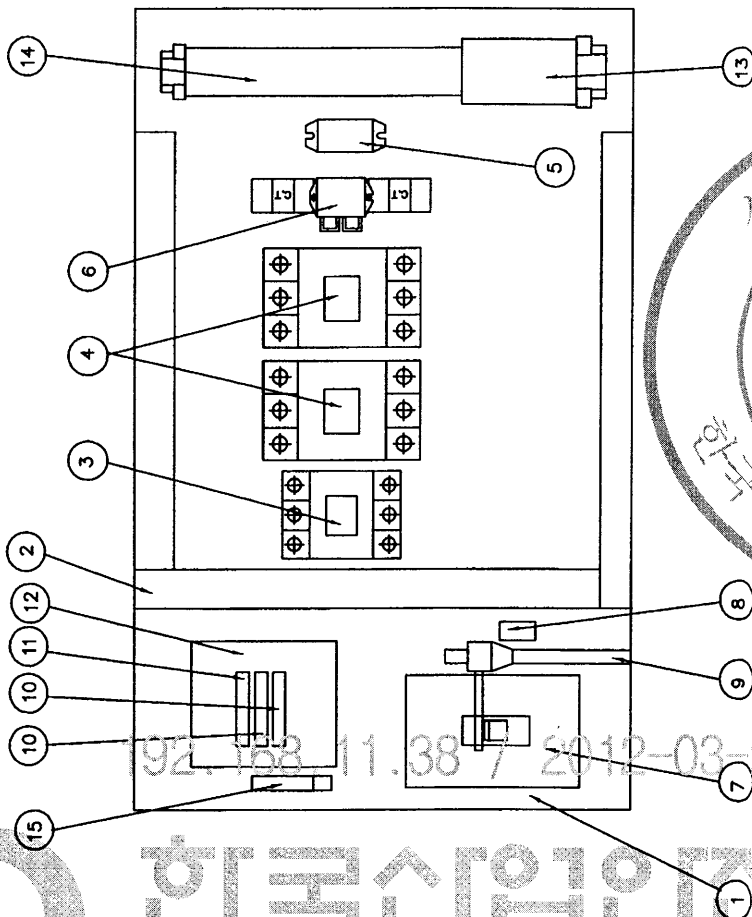


NOTE
 1. UPPER LIMIT LS-1의 전선 허용 전류 용량 : AC, 600V, 3A
 2. UPPER LIMIT LS-2의 전선 허용 전류 용량 : NFB 103AF
 3. EARTH TERMINAL RESISTANCE : 0.018 Ω
 4. POWER SOURCE : AC, 3φ, 380V 60HZ



DRAWING	DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
				NONE		
HOISTING CONTROL BOX ARRANGEMENT DRAWING						DWG. NO
KUK DONG HOIST CO., LTD.						KD20BA31

[illegible]



1. UPPER LIMIT LS-1의 검정 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 검정 허용 전류 용량 : NFB 103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC 3φ 440V 60Hz

1) 흑색 : 고무 및 직류 전선원료
2) 적색 : 고무제어회로
3) 파랑색 : 외부 전선에서 광급되는 인동장치 제어회로
4) 녹색 또는 녹색과 황색 혼합 : 접지선

CABLE MATERIAL : KIV OR EQUIVALENT
MIN SIZE : 2.5sq
KN, H/V

제어용 전선 : 2.5mm KN, H/V
제어시 다소 변경 될수있음.
외함 개방구조는 다음과 같을것.

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

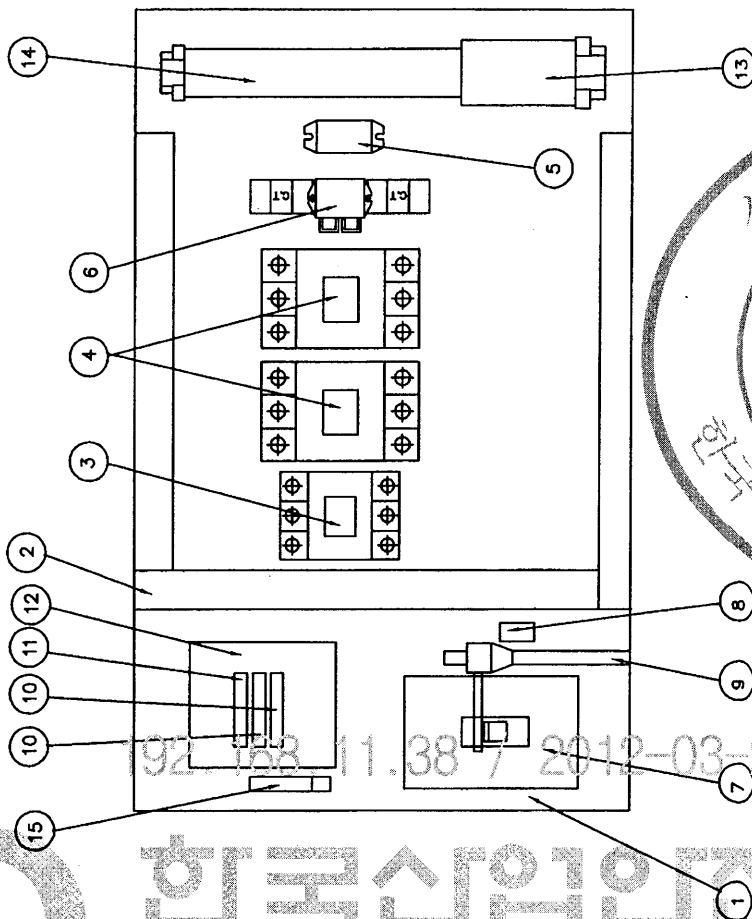
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DWC65C	1	M1, MAIN MAG.
4	MAGNET CONTACT	MC-130a	2	HOISTING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	E.O.C.R	SS-60	1	HOISTING
7	MOCB100	103AF/60AT	1	LS-2
8	UPPER LIMIT	AC 600V/3A	1	LS-1
9	LIMIT LEVER	SS-41	1	
10	FUSE (F11,F12)	3 A	2	
11	FUSE (F13)	5 A	1	
12	TRANSFORMER	440V/110,120V, 200VA	1	
13	TERMINAL BLOCK	100A,25A		
14	TERMINAL BLOCK	15A		
15	EARTH TERMINAL	5tx25x50	1	

MK	DATE	REVISIONS	CHK.	APP.	DRAWING TITLE	HOISTING CONTROL BOX ARRANGEMENT DRAWING	 KUK DONG HOIST CO., LTD.	DWG. NO	KD20BA41		
								SCALE	DATE	ORDER NO.	
								APPROVED	CHECKED	DESIGN	DRAWING
					CUSTOMER						

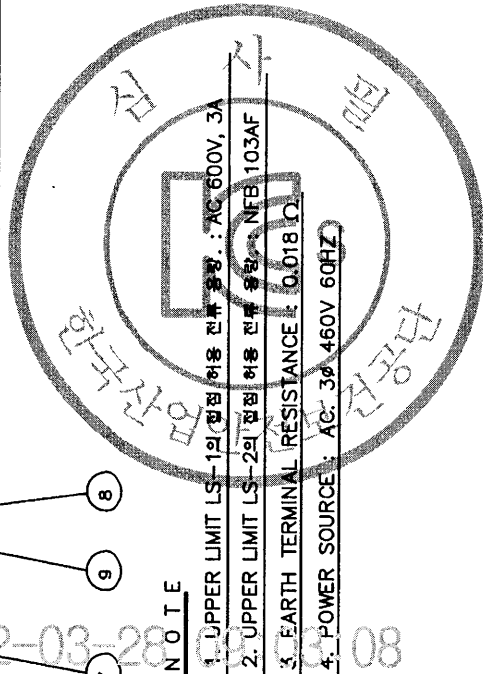
192.168.11.38 / 2012-03-28 09:03:08

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	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 전 도 금
2	CABLE DUCT	-	1	
3	MAGNET CONTACT	DMC65C	1	M1, MAIN MAG.
4	MAGNET CONTACT	MC-130a	2	HOISTING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	E.O.C.R	SS-100	1	HOISTING
7	MCCB100	103AF/80AT	1	LS-2
8	UPPER LIMIT	AC 600V/3A	1	LS-1
9	LIMIT LEVER	SS-41	1	
10	FUSE (F11,F12)	3 A	2	
11	FUSE (F13)	5 A	1	
12	TRANSFORMER	460V/110,120V, 200VA	1	
13	TERMINAL BLOCK	100A,25A		
14	TERMINAL BLOCK	15A		
15	EARTH TERMINAL	5x25x50	1	

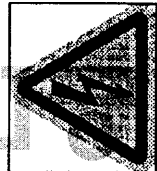


NOTE 1. 전선의 색상은 다음과 같다.
1) 흑색 : 교류 및 직류 전원선로 5) 청색 : 직류 제어선로
2) 적색 : 교류제어회로
3) 주황색 : 외부 전원에서 공급되는 연동장치 제어회로
4) 녹색 또는 녹색과 황색 혼용 : 접지선
2. CABLE MATERIAL : KIV OR EQUIVALENT
3. 제어용 전선 : 2.5mm KIV,HIV MIN SIZE : 2.5sq
4. 제어시 다소 변경 될수있음.
5. 외함 기방구조는 다음과 같을것.
1) 외함 기방시 충전부분이 차단되도록 할것.
2) 외함 기방후 충전되어있는 부분은 IP2X 이상의 직접 접촉 방호가 되어있을것.



NOTE

- 1. UPPER LIMIT LS-1의 점접 허용 전류 용량 : AC 600V, 3A
- 2. UPPER LIMIT LS-2의 점접 허용 전류 용량 : NFB 103AF
- 3. EARTH TERMINAL RESISTANCE : 0.018 Ω
- 4. POWER SOURCE : AC 3φ 460V 60HZ

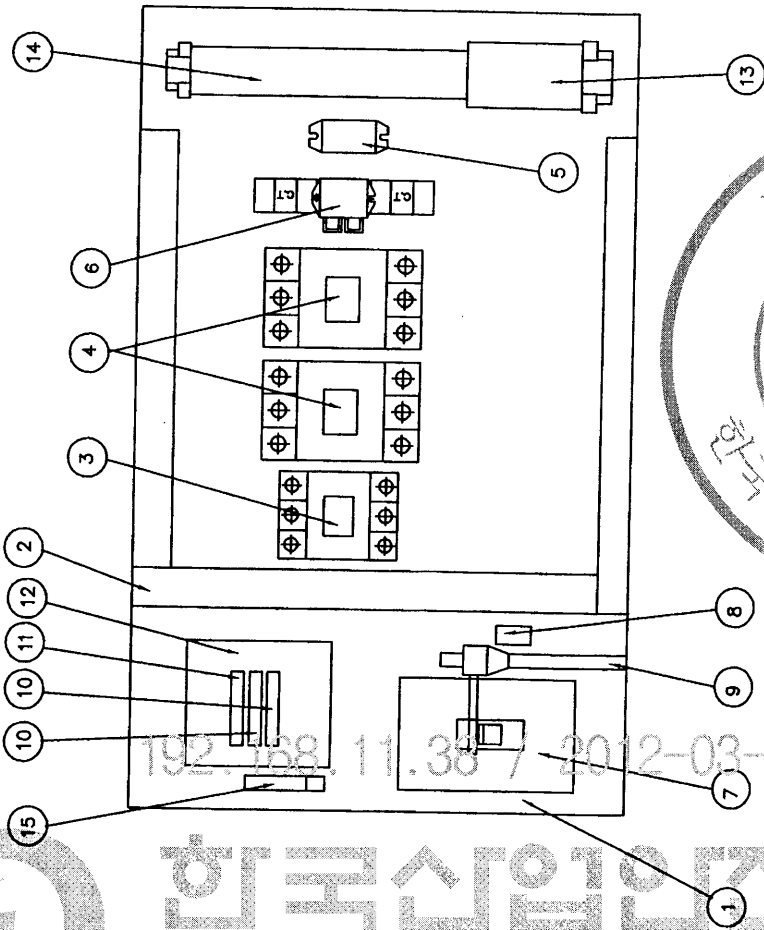


DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
KD-WM-20T-L12					NONE		
HOISTING CONTROL BOX							
ARRANGEMENT DRAWING							
KUK DONG HOIST CO., LTD.							
DWG. NO							
KD20BA51							

[illegible]

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

ADR'S NO.



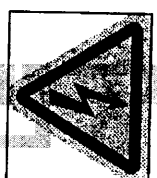
NOTE

1. UPPER LIMIT LS-1의 점접 허용 전류 용량 : AC 600V, 3A
2. UPPER LIMIT LS-2의 점접 허용 전류 용량 : NFB-103AF
3. EARTH TERMINAL RESISTANCE : 0.018 Ω
4. POWER SOURCE : AC 3φ 480V 60HZ

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

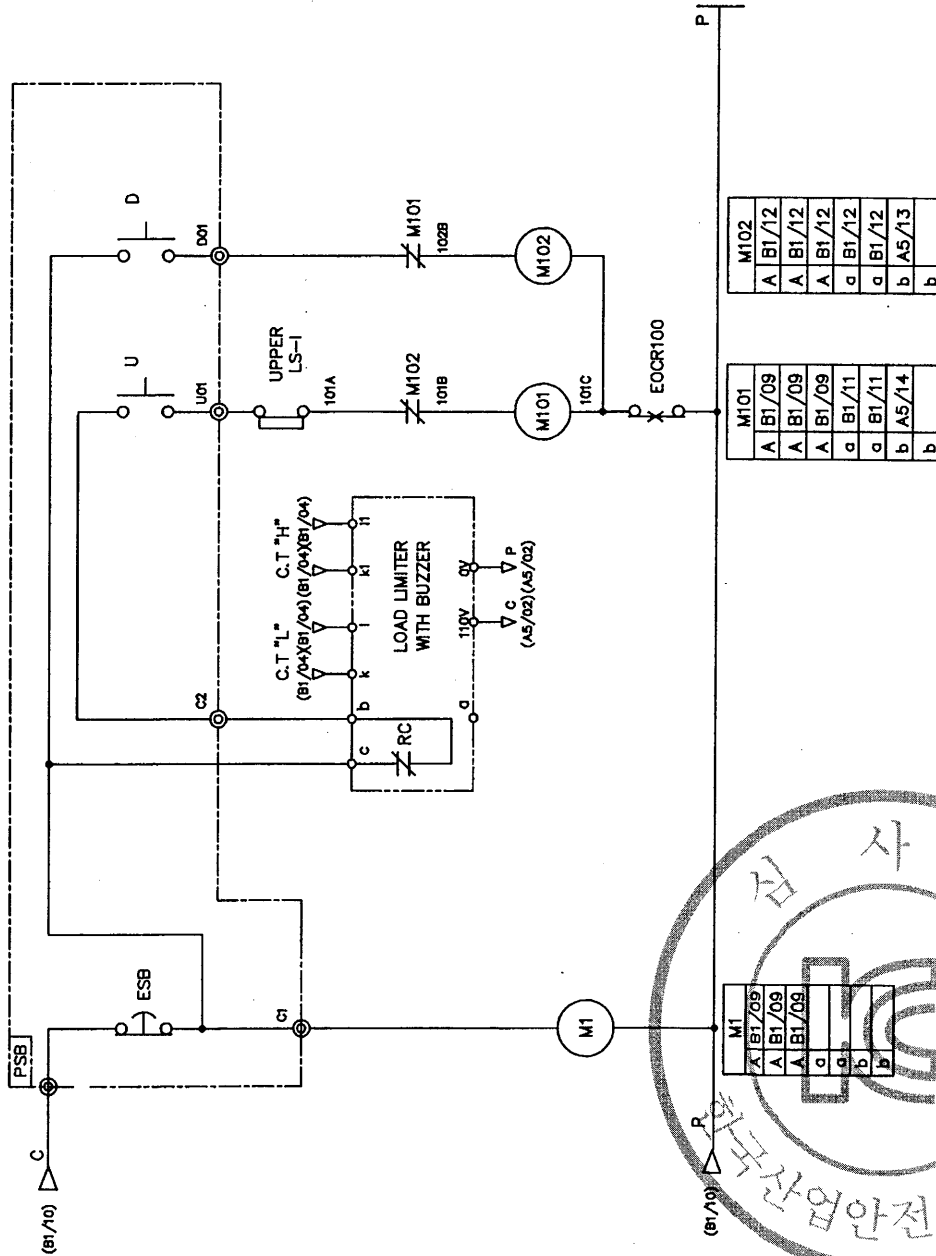
NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	CHASSIS PLATE		1	아 연 도 금
2	CABLE DUCT		1	
3	MAGNET CONTACT	DMC65C	1	M1, MAIN MAG.
4	MAGNET CONTACT	MC-130a	2	HOISTING
5	SILICON RECTIFIER	SR-60	1	HOISTING
6	E.O.C.R	SS-60	1	HOISTING
7	MCCB100	103AF/80AT	1	LS-2
8	UPPER LIMIT	AC 600V/3A	1	LS-1
9	LIMIT LEVER	SS-41	1	
10	FUSE (F11,F12)	3 A	2	
11	FUSE (F13)	5 A	1	
12	TRANSFORMER	480V/110,120V, 200VA	1	
13	TERMINAL BLOCK	100A,25A		
14	TERMINAL BLOCK	15A		
15	EARTH TERMINAL	5t×25×50	1	

DRAWING		DESIGN	CHECKED	APPROVED	SCALE	DATE	ORDER NO.
HOISTING CONTROL BOX					NONE		
ARRANGEMENT DRAWING		KUK DONG HOIST CO., LTD.			DWG. NO	KD20BA61	
DATE	REVISIONS	CHK.	APP.				



SPECIFICATION SYMBOLS		HOISTING POWER	HOISTING MOTOR	DC MAX. BRAKE	NO FUSE BREAKER	TRANSFORMER	FUSE	MAIN MAGNET	MAGNET CONTACTOR	UPPER LIMIT	ELECTRIC OVER CURRENT RELAY	SILICON RECTIFIER	LOAD LIMITER	CABLE	
DESCRIPTION		HOIST	IM 10	DB10 / 30	LS-II & MCCB100	TR 1	F11,F12	M1	M101,M102	LS-I	EOCR100	RF100	LOAD LIMITER	C20-01	
SELECTION MAKER		20TON AC3PH	480V 60Hz	17KW x 8P	DC 100V	ABS-103AF /60AT	440/110,120V,200VA	2A	DMC85C	MC-130G	AC 600V 3A	SS-60	SR-60	JDL-100	VCTF 10sqx4c
		20TON AC3PH	480V 60Hz	11.5KW x12P	DC 100V	ABS-103AF /60AT	440/110,120V,200VA	2A	5A	DMC85C	MC-130G	AC 600V 3A	SS-60	SR-60	JDL-100
		KUKDONG				LS	SHINHAN		DONG-A		ASECO	JUNGHO		DONGIL	
		CUSTOMER													
		DRAWING TITLE		HOISTING POWER CONTROL CIRCUIT											
		CHK. APP.													
REVISIONS															
MK	DATE														
												DWG. NO		KD20E61	
KUKDONG HOIST CO., LTD.															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EM, STOP										CONTROL CIRCUIT									
OVER LOAD BUZZER										UP DOWN									
										ADR'S NO.									
										A5									



--	--

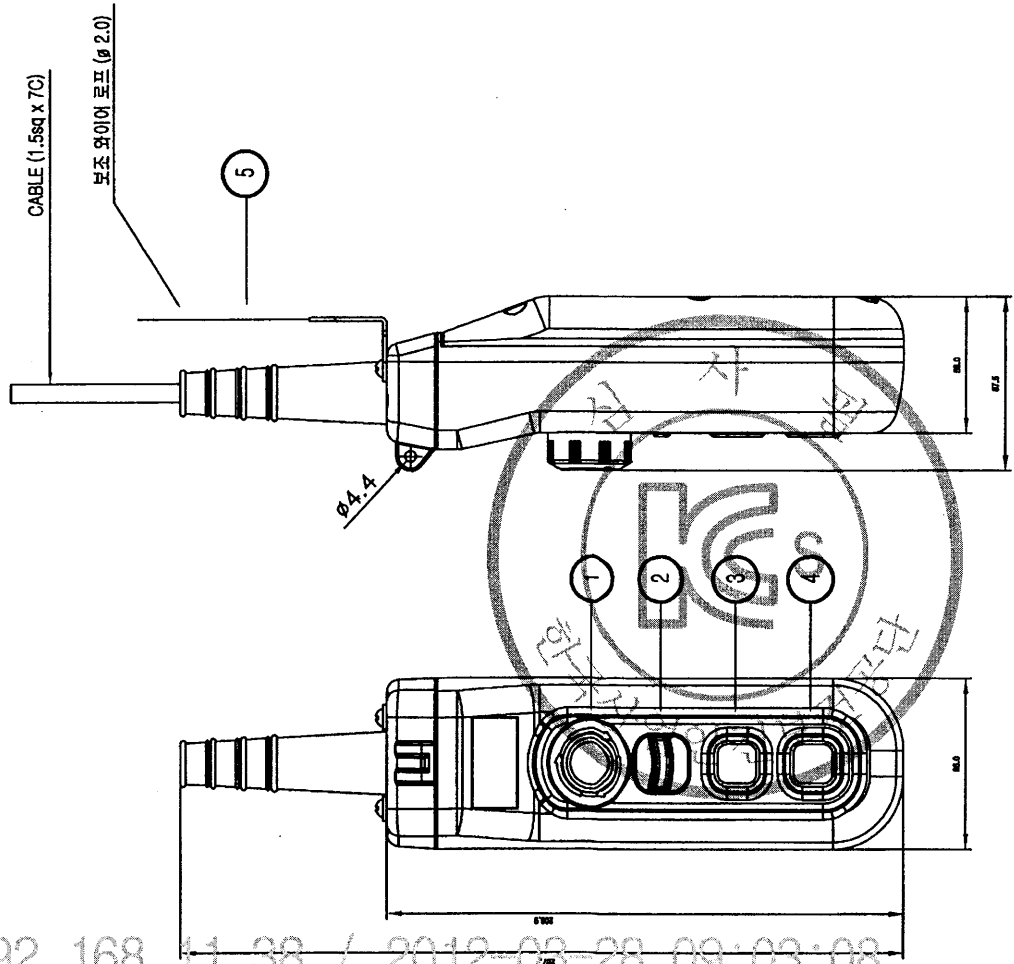
192.168.11.38 / 2012-03-28 09:03:08

한국산업안전보건공단

192.168.11.38 / 2012-03-28 09:03:08

PUSH BUTTON SWITCH (KG-H02EA)

KD



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

* MATERIAL : POLYCARBONATE(PLASTIC)

* BODY COLOR : YELLOW, BLACK

* IP : 55 이상

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

NO	DESCRIPTION	MATERIAL	QTY	SIZE	UNIT	TOTAL WEIGHT(g)	REMARK
Scale	1/8"	DWG.	CHK	APP.	PUSH BUTTON SWITCH & EMERGENCY BUTTON SWITCH KG-H02EA		
Pro-jection	3ANGLES	K.M.S90	M.H.Kim	Tba			
Mass	kg						
KUK DONG HOIST CO., LTD.					DWG No.		

192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

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	
	13KW x 6P	53.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	53.0 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	17KW x 6P	72.0 A	1 DRAVE	SS-100	3 SEC	1 SEC	72.0 A	
	11.5KW x 12P	70.8 A	1 DRAVE	SS-100	3 SEC	1 SEC	70.8 A	
30 TON	17KW x 8P	76.6 A	1 DRAVE	SS-100	3 SEC	1 SEC	76.6 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	

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	
	13KW x 6P	30.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	30.7 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	
	17KW x 6P	41.2 A	1 DRAVE	SS-60	3 SEC	1 SEC	41.2 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	
	11.5KW x 12P	41.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	41.0 A	
30 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	
	33KW x 6P	77.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	77.3 A	
40 TON	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	
60 TON	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	

NOTE

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

E.O.C.R 권고 SETTING치

극동호이스트(주)

* POWER SOURCE : AC 3Φ 440V 60HZ

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	22.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	22.5 A	
	13KW x 6P	26.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	26.5 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	
	17KW x 6P	36.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	36.0 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	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	
	23KW x 6P	44.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	44.6 A	
35 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
40 TON	33KW x 6P	63.3 A	1 DRAVE	SS-100	3 SEC	1 SEC	63.3 A	
50 TON	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	
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.

E.O.C.R 권고 SETTING치

국동호이스트(주)

* POWER SOURCE : AC 3Φ 460V 60HZ

HOIST	MOTOR 용량	MOTOR 정격 전류	DRIVE TYPE	E.O.C.R TYPE	권고 SETTING 치			REMARK
					DELAY TIME	ERATION TI	CURRENT	
10 TON	9.0KW x 8P	21.5 A	1 DRAVE	SS-30	3 SEC	1 SEC	21.5 A	
	13KW x 6P	25.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.4 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	17KW x 6P	34.5 A	1 DRAVE	SS-60	3 SEC	1 SEC	34.5 A	
	11.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
30 TON	17KW x 8P	36.7 A	1 DRAVE	SS-60	3 SEC	1 SEC	36.7 A	
	11.5KW x 12P	33.9 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.9 A	
40 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	
35 TON	33KW x 6P	60.5 A	1 DRAVE	SS-100	3 SEC	1 SEC	60.5 A	
40 TON	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	
60 TON	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	

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	
	13KW x 6P	25.4 A	1 DRAVE	SS-30	3 SEC	1 SEC	25.4 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	
	17KW x 6P	33.1 A	1 DRAVE	SS-60	3 SEC	1 SEC	33.1 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	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	
	23KW x 6P	42.6 A	1 DRAVE	SS-60	3 SEC	1 SEC	42.6 A	
35 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 A	
40 TON	33KW x 6P	58.0 A	1 DRAVE	SS-60	3 SEC	1 SEC	58.0 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.

LOAD LIMITER 권고 SETTING치

* POWER SOURCE : AC 3Φ 220V 60Hz

극동호이스트(주)

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ 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	
	13KW x 6P	110%	1 SEC	1 SEC	53.0 A	58.3 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	58.6 A	64.4 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	59.0 A	64.9 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 6P	110%	1 SEC	1 SEC	72.0 A	79.2 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	11.5KW x 12P	110%	1 SEC	1 SEC	70.8 A	77.9 A	CT-2	K-K1, L-L1	5 V.A	
	17KW x 8P	110%	1 SEC	1 SEC	76.6 A	84.3 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	11.5KW x 12P	110%	1 SEC	1 SEC	70.8 A	77.9 A	CT-2	K-K1, L-L1	5 V.A	
	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 3Ø 380V 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	26.0 A	28.6 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 6P	110%	1 SEC	1 SEC	30.7 A	33.8 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	17KW x 6P	110%	1 SEC	1 SEC	41.7 A	46.4 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	41.0 A	46.8 A	CT-2	K-K1, L-L1	5 V.A	
30 TON	17KW x 8P	110%	1 SEC	1 SEC	44.3 A	50.1 A	CT-2	K-K1, L-L1	5 V.A	
	11.5KW x 12P	110%	1 SEC	1 SEC	41.0 A	46.8 A	CT-2	K-K1, L-L1	5 V.A	
35 TON	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	
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	
	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	
	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	
	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	
	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

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	22.5 A	24.8 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 6P	110%	1 SEC	1 SEC	26.5 A	29.2 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	17KW x 6P	110%	1 SEC	1 SEC	36.0 A	40.1 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	
	11.5KW x 12P	110%	1 SEC	1 SEC	35.4 A	39.7 A	CT-2	K-K1, L-L1	5 V.A	
35 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	
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	
	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	
	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	
	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	
	33KW x 6P	110%	1 SEC	1 SEC	63.6 A	68.6 A	CT-2	K-K1, L-L1	5 V.A	

NOTE

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

LOAD LIMITER 권고 SETTING치

극동호이스트(주)

* POWER SOURCE : AC 3Φ 460V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ START TIME	SHOCK TIME	100%	110%				
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	
	13KW x 6P	110%	1 SEC	1 SEC	25.4 A	28.0 A	CT-2	K-K1, L-L1	5 V.A	
15 TON	8.5KW x 12P	110%	1 SEC	1 SEC	28.1 A	32.0 A	CT-2	K-K1, L-L1	5 V.A	
	13KW x 8P	110%	1 SEC	1 SEC	28.4 A	32.1 A	CT-2	K-K1, L-L1	5 V.A	
20 TON	17KW x 6P	110%	1 SEC	1 SEC	34.5 A	38.2 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	
30 TON	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.5 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	
35 TON	17KW x 8P	110%	1 SEC	1 SEC	36.7 A	40.5 A	CT-2	K-K1, L-L1	5 V.A	
	23KW x 6P	110%	1 SEC	1 SEC	44.5 A	48.3 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	
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	
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	
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	

NOTE

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

LOAD LIMITER 권고 SETTING치

극동호이스트(주)

* POWER SOURCE : AC 3Φ 480V 60Hz

HOIST	MOTOR 용량	LOAD LIMITER 권고 SETTING치			LOAD CURRENT		C.T MODEL	연결단자 NO	C.T 용량	REMARK
		LOAD CURRENT	ADJ	SHOCK TIME	100%	110%				
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	
	13KW x 6P	110%	1 SEC	1 SEC	25.4 A	28.0 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	17KW x 6P	110%	1 SEC	1 SEC	33.1 A	37.5 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	
30 TON	17KW x 8P	110%	1 SEC	1 SEC	35.2 A	39.6 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	

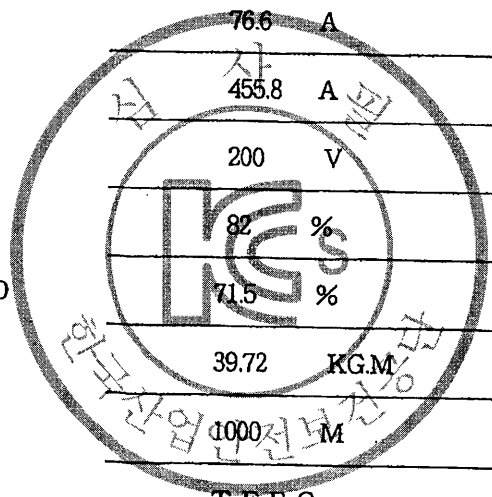
NOTE

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

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	200 L
4. RATED POWER	17 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	855 RPM
11. FULL LOAD CURRENT	76.6 A
12. LOCKED ROTOR CURRENT	455.8 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KGM
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



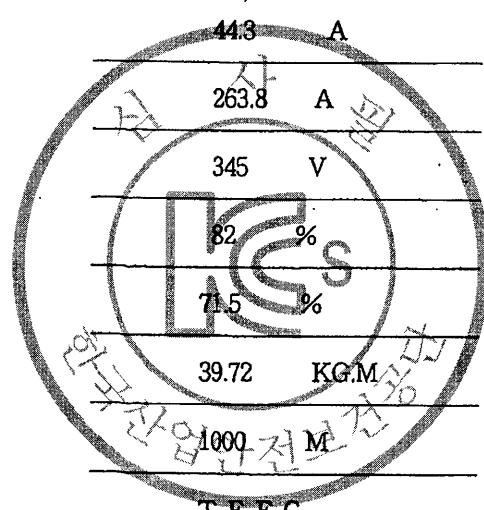
192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

THREE PHASE INDUCTION MOTOR DATE SHEET

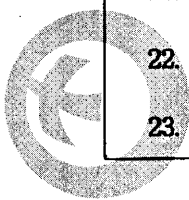
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	200 L
4. RATED POWER	17 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	855 RPM
11. FULL LOAD CURRENT	44.3 A
12. LOCKED ROTOR CURRENT	263.8 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08



한국산업안전보건공단
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	200 L
4. RATED POWER	17 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	855 RPM
11. FULL LOAD CURRENT	38.3 A
12. LOCKED ROTOR CURRENT	228 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

THREE PHASE INDUCTION MOTOR DATE SHEET

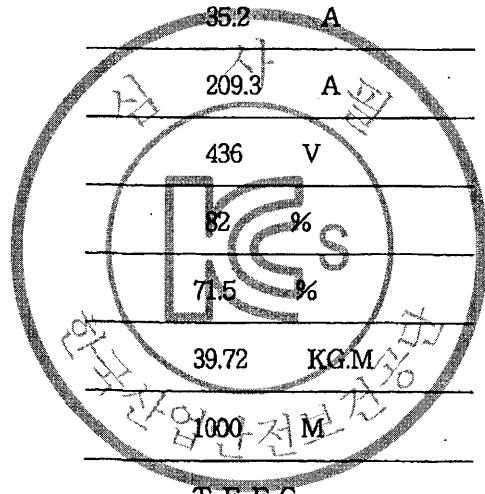
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	200 L
4. RATED POWER	17 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	855 RPM
11. FULL LOAD CURRENT	36.7 A
12. LOCKED ROTOR CURRENT	218.4 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트(주)
3. FRAME NUMBER	200 L
4. RATED POWER	17 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	855 RPM
11. FULL LOAD CURRENT	35.2 A
12. LOCKED ROTOR CURRENT	209.3 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	82 %
15. POWER FACTOR AT 100% RATED LOAD	71.5 %
16. FULL LOAD TORQUE	39.72 KGM
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E F C
19. TYPE OF BEARING	PL : 6312 zz , OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



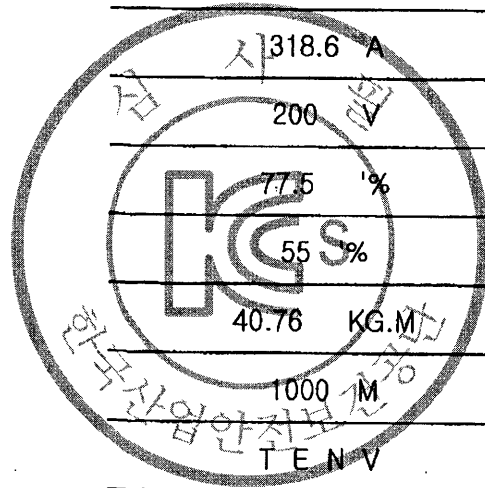
192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트㈜
3. FRAME NUMBER	200 L
4. RATED POWER	11.5 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	570 RPM
11. FULL LOAD CURRENT	70.8 A
12. LOCKED MOTOR CURRENT	318.6 A
13. MINIMUM STARTING VOLTAGE	200 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	55 %
16. FULL LOAD TORQUE	40.76 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6312 zz OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



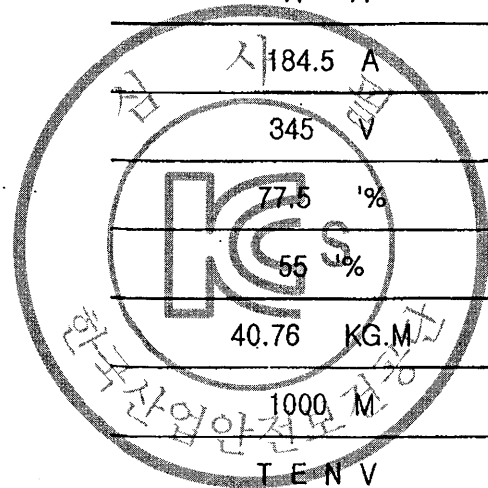
192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

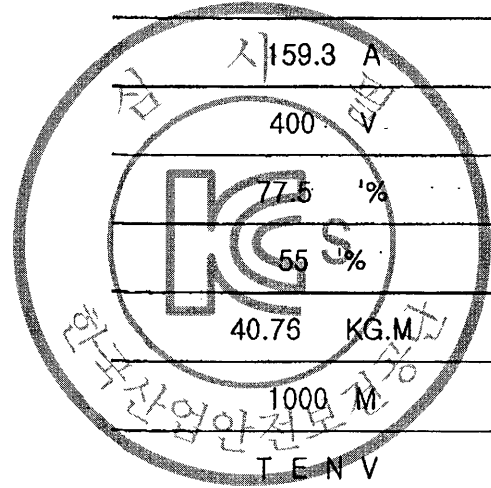
1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트㈜
3. FRAME NUMBER	200 L
4. RATED POWER	11.5 KW x 12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60 Hz
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. SERVICE FACTOR AND RATTING	1.0 , 30 MIN
8. LOCATION AND INSULATION CLASS	INDOOR ,OUTDOOR, B CLASS
9. DESIGN TRMPERATURE RISE(BY RESISTANCE)	80 ℃
10. FULL LOAD SPEED	570 RPM
11. FULL LOAD CURRENT	41 A
12. LOCKED MOTOR CURRENT	184.5 A
13. MINIMUM STARTING VOLTAGE	345 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	55 %
16. FULL LOAD TORQUE	40.76 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6312 zz OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



THREE PHASE INDUCTION MOTOR DATE SHEET

SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트㈜
3. FRAME NUMBER	200 L
4. RATED POWER	11.5 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	570 RPM
11. FULL LOAD CURRENT	35.4 A
12. LOCKED MOTOR CURRENT	159.3 A
13. MINIMUM STARTING VOLTAGE	400 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	55 %
16. FULL LOAD TORQUE	40.75 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6312 zz OPL : 6211 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE

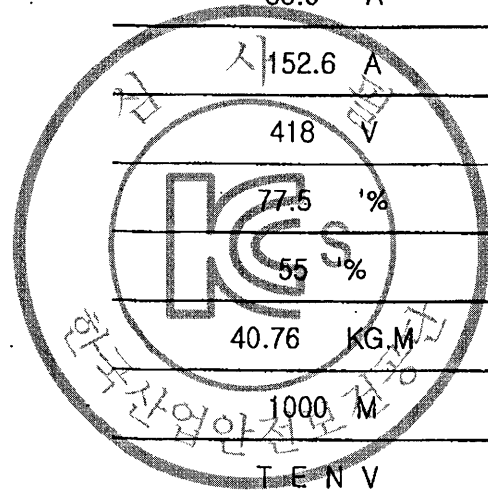


192.168.11.38 / 2012-03-28 09:03:08

THREE PHASE INDUCTION MOTOR DATE SHEET

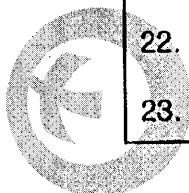
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트㈜
3. FRAME NUMBER	200 L
4. RATED POWER	11.5 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	570 RPM
11. FULL LOAD CURRENT	33.9 A
12. LOCKED MOTOR CURRENT	152.6 A
13. MINIMUM STARTING VOLTAGE	418 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	55 %
16. FULL LOAD TORQUE	40.76 KG.M
17. SITE ALTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6312 zz OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08

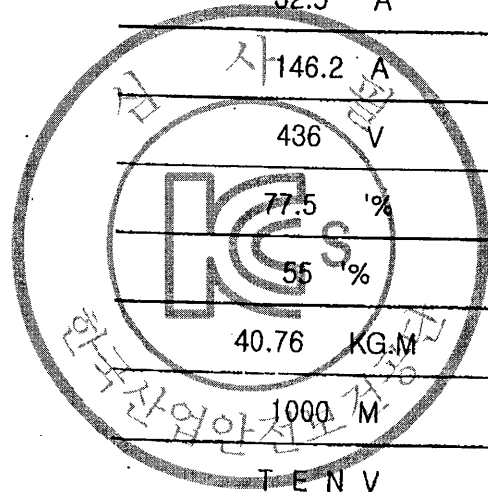


한국산업안전보건공단
KOSHA KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

THREE PHASE INDUCTION MOTOR DATE SHEET

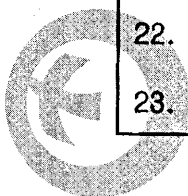
SCHEDULE OF TECHNICAL DATA

1. SERVICE	HOISTING
2. MANUFACTURE	극동호이스트㈜
3. FRAME NUMBER	200 L
4. RATED POWER	11.5 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	570 RPM
11. FULL LOAD CURRENT	32.5 A
12. LOCKED MOTOR CURRENT	146.2 A
13. MINIMUM STARTING VOLTAGE	436 V
14. EFFICIENCY AT 100% RATED LOAD	77.5 %
15. POWER FACTOR AT 100% RATED LOAD	55 %
16. FULL LOAD TORQUE	40.76 KG.M
17. SITE ALTTITUDE(UNDER)	1000 M
18. ENCLOSURE & COOLING METHOD	T E N V
19. TYPE OF BEARING	PL : 6312 zz OPL : 6311 zz
20. MOUNTING	HORIZONTAL
21. MAXIMUM AMBIENT TEMPURE	40 ℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE



192.168.11.38 / 2012-03-28 09:03:08

192.168.11.38 / 2012-03-28 09:03:08



대한민국 산업안전보건공단
KOSHA
KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY



ORIGINAL

CERT NO. 200704WRS59100

DATE Jan. 22, 2010

MILL TEST CERTIFICATE

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

OF KSD 3514 - 2002 (B Grade)

TO MESSRS

MATERIAL DESCRIPTION UNGALVANIZED STEEL WIRE ROPE

06 X 37 + FC

1000M X 5 REEL

EX NO.

ORDER NO. REEL NO. 1 ~ 5 SAMPLING NO. 1

DIAMETER OF ROPE 22.400 mm TYPE OF CORE Fiber Core

SPECIFIED BREAKING LOAD 284.00 kN SAMPLE BROKE AT 294.20 kN

WT. OF ZINC COATING OF OUTER WIRE MIN. 0.000 g/m'

ROPE LAY RHRL LAY LENGTH 144.1 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
SA61155	71	21	69	11	4

DATE OF SAMPLE TEST Jan. 12, 2010

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



KS



JIS



API



ABS



KR



NK



G.Lloyd's



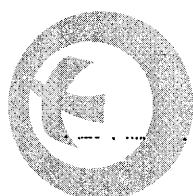
DNV



LR



BV



한국산업안전보건공단

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY

192.168.11.38 / 2012-03-28 09:03:08