



심사결과 통지서

신청인	사업장명	(주)KITO	사업장관리번호	2010E110010
	사업자등록번호	010-E1-10010	대표자 성명	KITO YOSHIO
	소재지	2000, Tsuijjarai, Showa-Cho, Nakakoma-Gun, Yamanashi, Japan		
안전인증대상기계·기구명 호이스트				
형식(규격)	KM-ER2W-010H		용량(등급)	1 ton

「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따라 실시한

- 예비심사
- 서면심사
- | | | | |
|---|-----|---|-----------|
| <input type="checkbox"/> 기술능력 및 생산체계 심사 | 결과가 | <input checked="" type="checkbox"/> 적 합 | 함을 통지합니다. |
| <input type="checkbox"/> 개별 제품심사 | | <input type="checkbox"/> 부적합 | |
- 형식별 제품심사

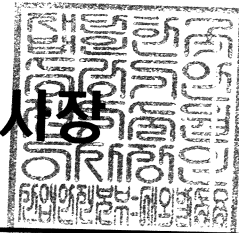
2012년 10월 10일

인증심사원

최 창 일

오 태 화

한국승강기안전기술원 이사장





제 CA-2012-0032 호

안 전 인 증 서

(사업장명) (주)KITO

(소재지) 2000, Tsujiarai, Showa-Cho, Nakakoma-Gun, Yamanashi,
Japan

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

_____	품 명 : 호이스트	_____
_____	형식(용량): KM-ER2W-010H(1 ton)	_____
_____	인증번호 : 12-CA4AC-0032	_____
_____	인증기준 : 위험기계·기구 의무안전인증기준 (고용노동부고시 제2011-39호)	_____
_____	인증조건 : 산업안전보건법 "제34조 준수"	_____

2012년 11월 30일

한국승강기안전기술원 이사장



제 2012-BJ-0009 호



안 전 인 증 서

정호엔지니어링

경기도 광명시 노온사동 440-5

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

품 목

양중기용 과부하방지장치

형식·모델/용량·등급/인증번호

형식·모델
JDL-100

용량·등급
J-2

인증번호
12-AV2BJ-0009

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

인 증 조 건

아래 주소에서 생산되는 제품에 한함.

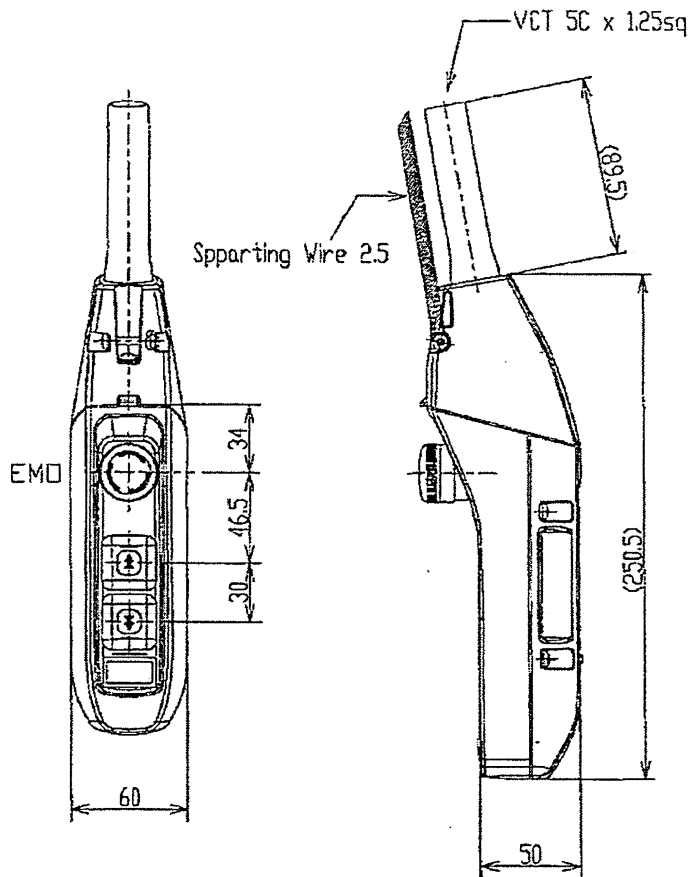
정호엔지니어링, 경기도 광명시 노온사동 440-5

2012년 06월 11일

한국산업안전보건공단 이사장



1	2	3	4		
改訂数	内	容	年.月.	設計	承認



*외함구조 : IP-65

承認照査担当	名称			
	3Point Pendant Switch			
	図番			
株式会社 第一	尺度	-	変更回数	

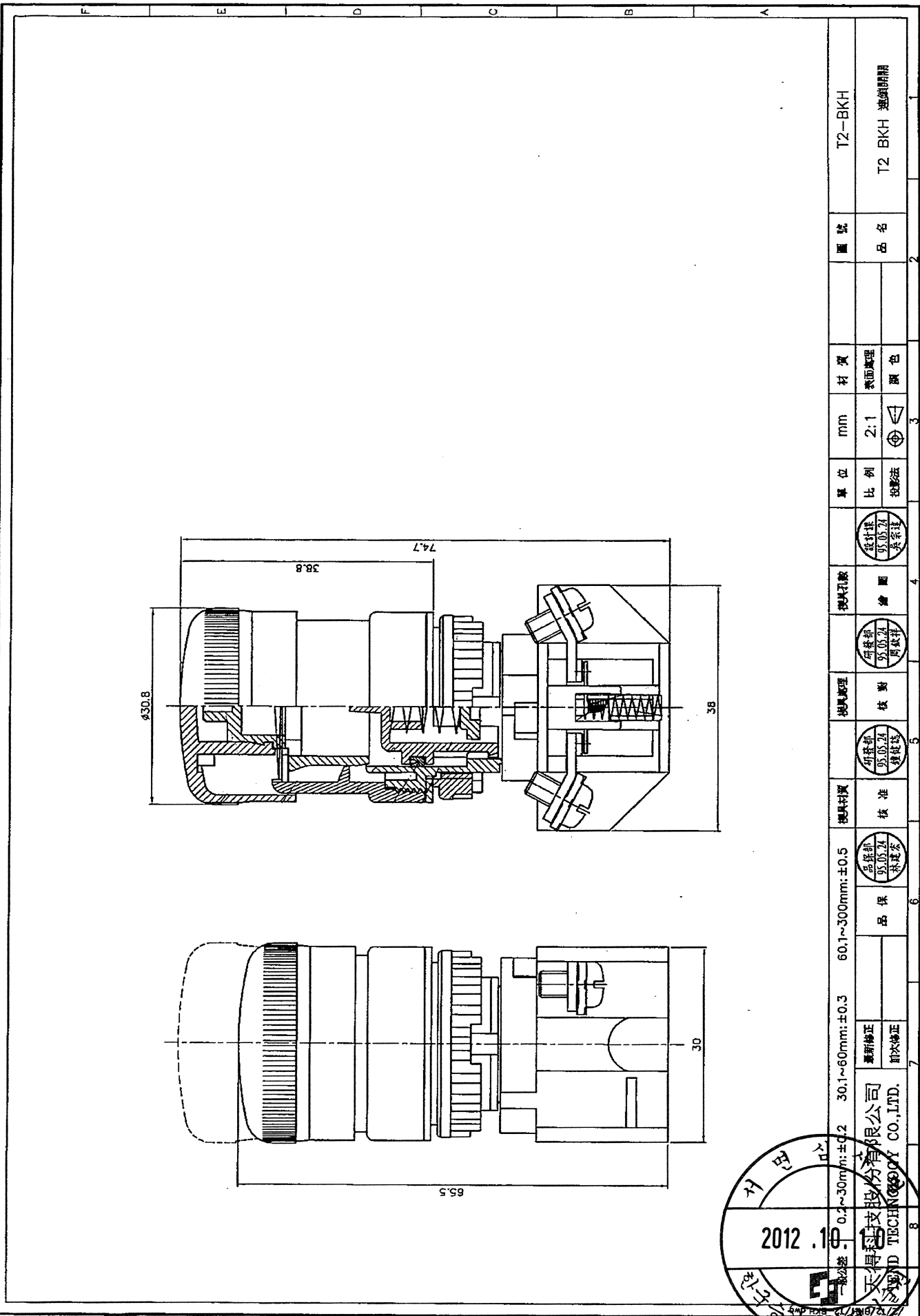
①

様式 04TM-N001D

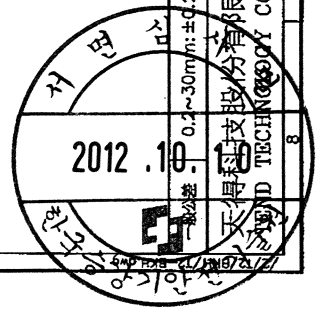
三角法

単位 2012.10.10





圖號	T2-BKH
品名	T2 BKH 連續閉開
材質	表面處理
單位	mm
比例	2:1
投影法	第一角
檢具孔數	檢具孔數
檢具處理	檢具處理
檢具材質	檢具材質
品保	品保
最新修正	最新修正
首次修正	首次修正



3) HOIST 기계도면

3-1. 조립도

- 1) 전체 조립도

3-2. 상세도

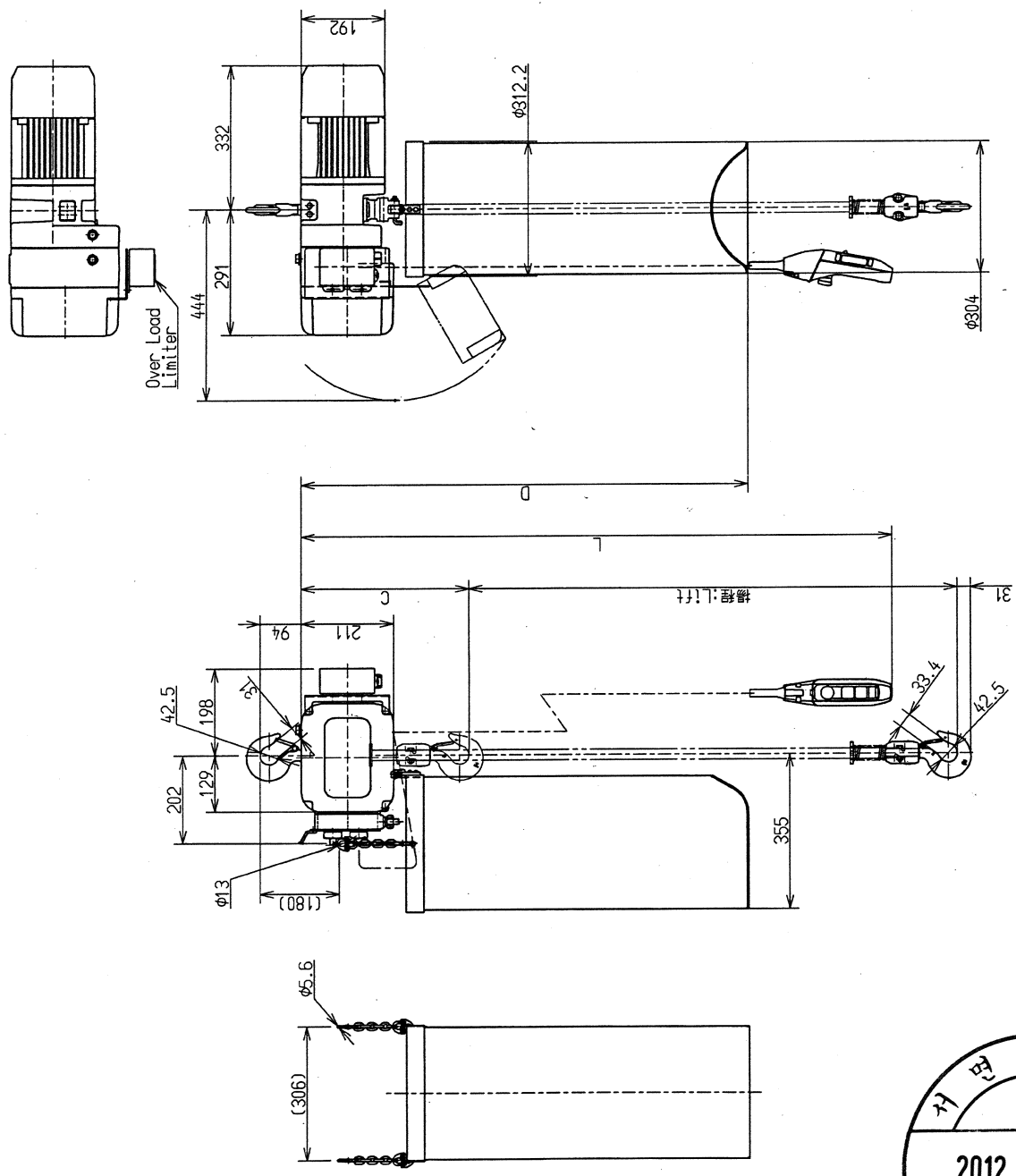
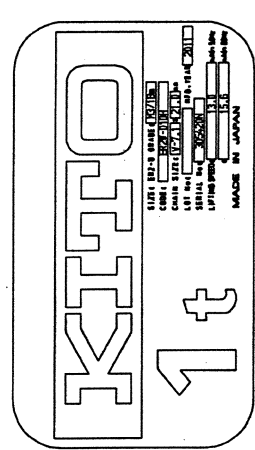
- 1) ER2 Friction Clutch
- 2) ER2 Motor Brake Structure & Brake Gap Limit
- 3) Traversing wheel
- 4) Bottom Hook
- 5) Bottom yoke

3-3. MONO RAIL 설치도면

- 1) Safety Dwg.
- 2) General assembly
- 3) Girder detail



1 2 3 4 5 6 7 8 9

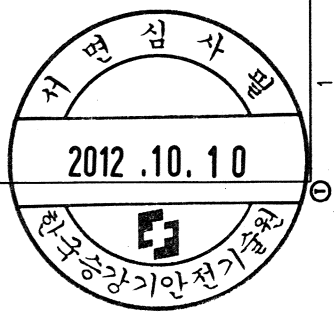


諸元表 Particulars	
基本本体 Size	ER2-D
定荷重 Nominal Capacity	1t
吊程 Lift	90m
チェーンサイズ Chain size	Ø7.1 x 21P x 1F
フック間最小距離 : C Min. Hookroom	380mm
相電圧 Phase - Voltage	3 - 400V-50Hz/400V-60Hz
モータ出力・時間定格・等級 Motor Output - Duty Rating - Classification	3.2kW/2P/1ea. 20min. M3/1Bm(H4)
巻上速度 Lifting Speed	50 Hz
	60 Hz
チェーンコード長さ : L Push Button Cord	3 m
ケーブル長さ Length of Power Supply Cable	- m
クエアックボリチエーン ハケットまでの寸法 : D Chain Origin Distance from Bottom of Beam	875mm
質量 重量	Approx. 140kg
塗装色 Painting Color	ラジウム S90714 Konseal L7.S16714
型式番号: KM-ER2W-010	

名称 TITLE	
1t ER2W SERIES ELECTRIC CHAIN HOIST	
製造番号 CODE	305240N
図番 Dwg. No.	3X305240N
尺度 SCALE	NOT
変更回数 REV.	1

承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
H. Saito	K. Suzuki	K. Horiuchi	
11, 3, 29	11, 3, 29	11, 3, 29	
11, 7, 8	K. Horiuchi	H. Saito	
承認 DATE	担当 DRAWN	承認 APPROVED	

CONTENTS	
1	Display change
改訂 REV.	数 QTY



XK000449

様式 025P-19 UNIT : mm

4. 전 기 도 면

- 1) ELECTRICAL SPECIFICATION
- 2) SYMBOL LIST
- 3) 배선배관도 & 접지계통도
- 4) 전기회로도
- 5) PANEL 관련도



**ELECTRICAL SPECIFICATION
FOR ER2W010H**





















POWER SOURCE: AC 3 ϕ , 400V , 60Hz

Object	Motor Output	Current	Cable Size	Brake
ER2W010H	3.2kW	10.2A	4CX2.0sq	Pull Rotor Brake
Total Current			18.2A	

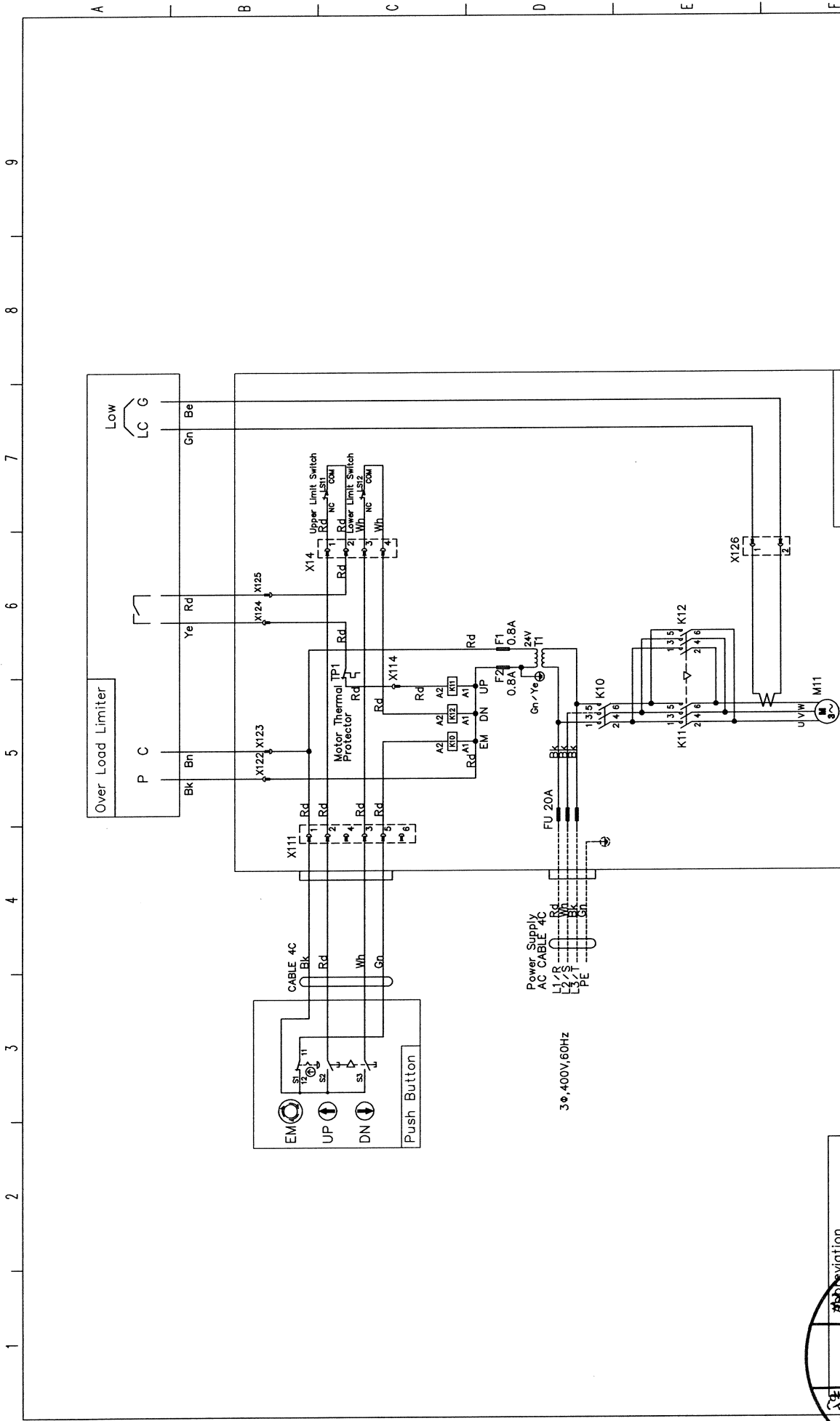
Fuse F1,F2	Fuse FU
0.8A	20Ax3



SYMBOL LIST

	CIRCUIT PROTECTOR		THERMAL b
	CONTACTOR COIL		TRANS
	CONTACTOR a		FUSE
	CONTACTOR b		LIMIT SWITCH b
	TERMINAL BLOCK		EARTH
	CONNECTOR		SURGE ABSORBER
	LAMP		THERMAL(DETECTOR)
	P/B SWITCH a		TRANS
	P/B SWITCH b		LIMIT SWITCH a
	PROXIMITY SWITCH PHOTO SWITCH		
	TIMER a		





Abbr. Deviation	
Bk: Black	Gn/Ye: Green/Yellow
Dr: Orange	
Wh: White	
Bn: Brown	
Gy: Gray	
Rd: Red	UP: UP
Be: Blue	DN: Down
Gn: Green	EM: Emergency Stop
Ye: Yellow	

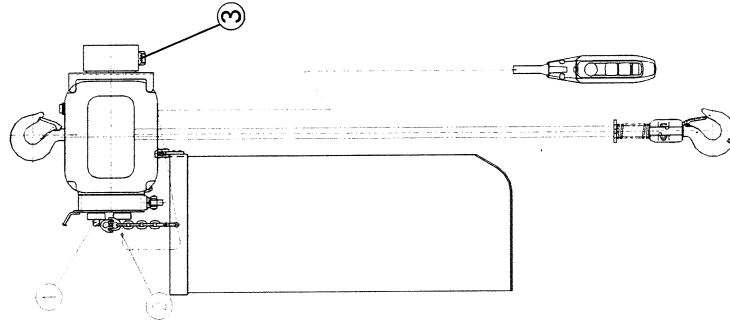
REV.	QTY	CONTENTS	DATE	DRAWN	APPROVED	DESIGNED	CHECKED	DRAWN	TITLE
△						H-Saito	K-Hosoda	N-Suzuki	Wiring Diagram
△									
△									
△									
△									
									MDL. 305240N
									DWG. NO. 3X305240NZ
									SCALE NOT
									REV. 0

UNIT : mm
様式 025G-05

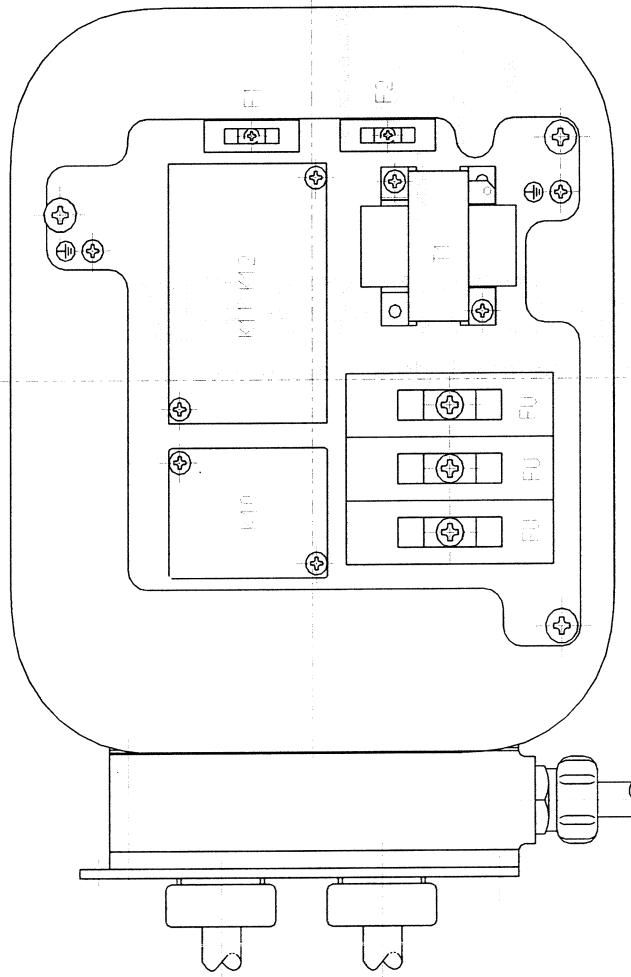
2-5. CABLE 구성도 및 사양

CABLE SPECIFICATION

No.	ITEM	TYPE	ER2W010H	
			SIZE	
①	Power Line	SO	4C x 2sq	
②	Push Button Switch	STOW	4C x 1.25sq	
③	Load Limiter	VCT	8C x 0.75sq	

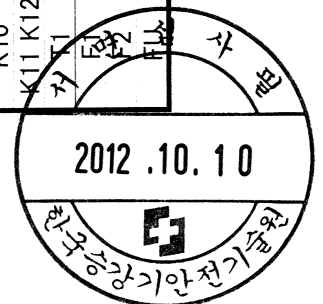


2-7. 호이스트 CONTROL BOX 배치도 (ER2W010H)



ENCLOSURE: HOIST BODY -IP55
PUSH BUTTON -IP65

MARK	DESCRIPTION	TYPE OF MODEL		Q'TY	MAKER	REMARKS
K10	MAGNET CONTACTOR	400V	LC1K0610B7	1	TEREMIEKA	MLC
K11 K12	MAGNET CONTACTOR		LC2K0910B7	1	TEREMIEKA	FORWARD/REVERS
T1	TRANSFORMER		400V/24V 20VA	1	KITO	
F1	GLASS FUSE		FBM 250V 800mA	1	NIHONSEISEN	
F2	GLASS FUSE		FBM 250V 800mA	1	NIHONSEISEN	
FU	GLASS FUSE		660CF-20UL	3	HINODEDENKI	



접지설비 시공방법

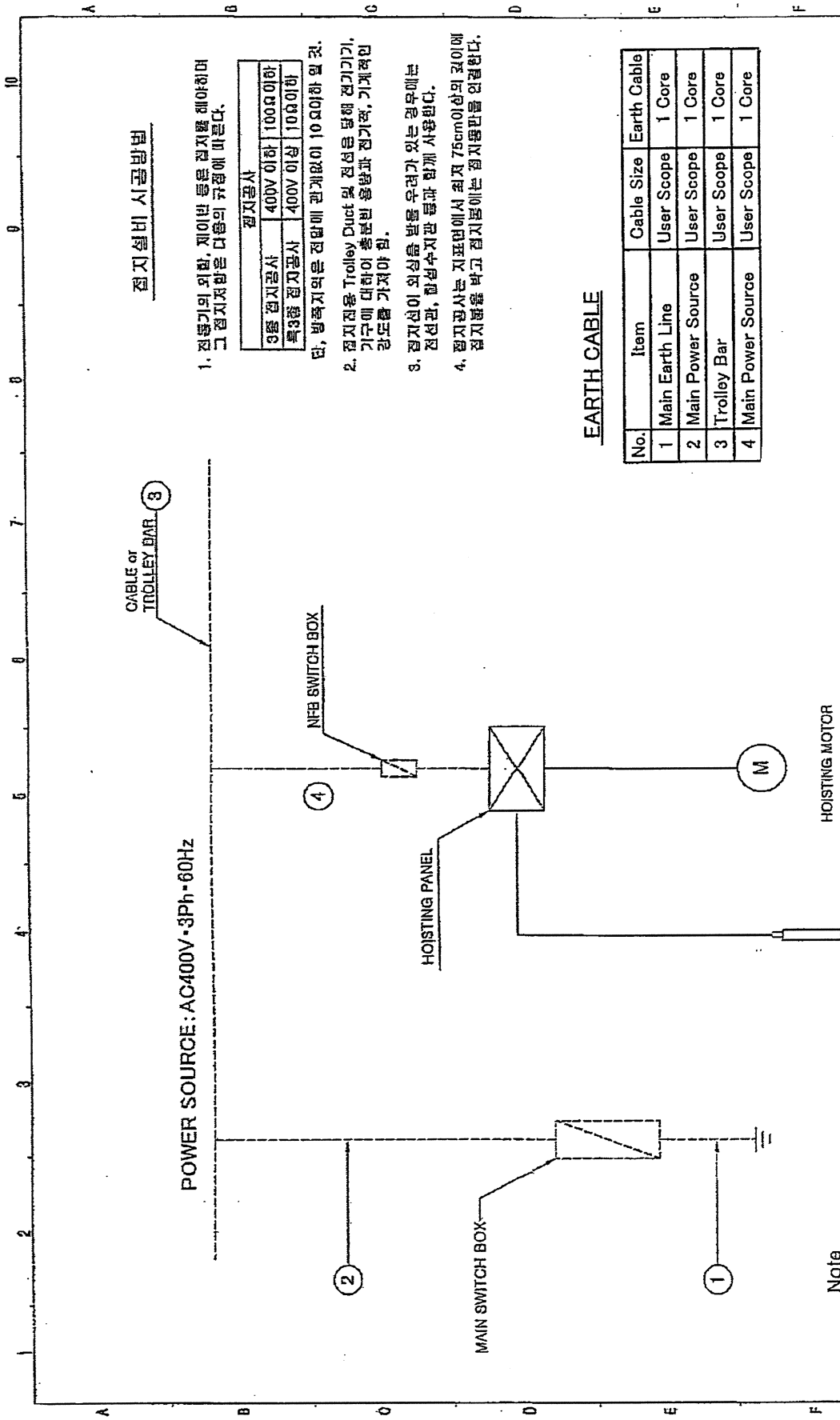
- 전동기의 외함, 제어반 등은 접지할 해야하며 그 접지저항은 다음의 규격에 따른다.

접지공사	
3층 접지공사	400V 이하 100Ω이하
특3층 접지공사	400V 이상 100Ω이하

 단, 방폭지역은 전압에 관계없이 10 Ω이하 일 것.
- 접지선용 Trolley Duct 및 전선은 당해 전기기기, 기구에 대하여 충분한 용량과 전기력, 기계적인 강도를 가져야 함.
- 접지선이 외상을 받을 우려가 있는 경우에는 전선관, 합성수지관 등과 함께 사용된다.
- 접지공사는 지표면에서 최저 75cm이상의 깊이에 접지봉을 박고 접지봉에는 접지봉만을 연결한다.

EARTH CABLE

No.	Item	Cable Size	Earth Cable
1	Main Earth Line	User Scope	1 Core
2	Main Power Source	User Scope	1 Core
3	Trolley Bar	User Scope	1 Core
4	Main Power Source	User Scope	1 Core



Note

USER SCOPE
 사용자 범위



APPROVED	CHECKED	DESIGNED	TITLE
			1TON CHAIN HOIST
			CODE
			DATE
			SOLE
			1/10

6. FOR REFERENCE

- 1) LOAD CHAIN 시험성적서
- 2) MOTOR DATA SHEET
- 3) HOIST 사용설명서(operation manual)

Certificate of Compliance

We certify that the ER2W protection degrees conform to the IP rating as follows:

Hoist body - IP55 based on JIS C 4034-5, "Rotating electrical machines – Part5: Classification of degrees of protection provided by enclosures of rotating electrical machines (IP code)".

Push button - IP65 based on JIS C 0920, "Tests to prove protection against ingress of water and degrees of protection against ingress of solid objects for electrical equipment".

Certificate No. : MM100011-1

Date Issued : 2011/1/27

Messrs.

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yaskawa Electric Mfg. Co.

Reference No. : -

Production No. : -

Order No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBBQ	3.2kW	2P	60%ED	400V	50/60Hz

Full load characteristics

Voltage Frequency	400V 50/60Hz
Load	100%
Current	9.1/10.2A
Speed	2790/3340rpm

Insulation class F

The above characteristics are obtained from calculation where the motor is assembled with an electric chain hoist and the hoist is subjected to full load



2000 Tsuijjarai, Showa-cho,
Nakakoma-gun, Yamanashi, JAPAN

Quality Assurance Group
Quality Assurance Department

M. Ogihara

(Manager)

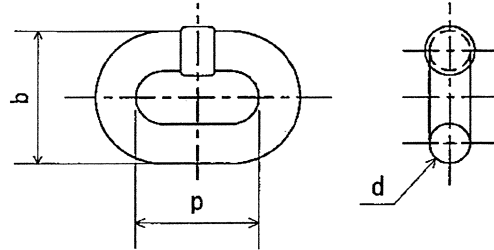
Certificate No. : FK100406-1

Date Issued : 2011/1/27

INSPECTION CERTIFICATE

Messrs.

Commodity : Load Chain(NH)
 Code : KWR2-071
 Lot No. : -
 Quantity : - line(s)
 Reference No. : -
 Order No. : -
 Production No. : -



1. Material : Manganese Alloy Steel

2. Dimensions (mm)

	d	p	b
Specified	7.1 ±0.3	21.0 $\begin{matrix} +0.41 \\ 0 \end{matrix}$	Max. 25.0
Result	Good	Good	Good

3. Breaking test

	Breaking load (kN)	Total ultimate elongation (%)
Specified	Min. 80	Min. 17
Result	Good	Good

4. Manufacturing Proof force test (Test load : 50 kN)

	Permanent elongation (%)
Specified	Max. 0.5
Result	Good

General judgment : Satisfactory



2000 Tsuijiarai, Showa-cho,
 Nakakoma-gun, Yamanashi, JAPAN

Quality Assurance Group
 Quality Assurance Department

M. Ogihara

(Manager)