■ 산업안전보건법 시행규칙 [별지 제10호의 5서식]

심사결과 통지서

신청인	사업장명	(주)KITO	사업장관리번호	2010E110010
	사업자등록번호	010-E1-10010	대표자 성명	KITO YOSHIO
	소재지	2000,Tsuijiarai,Showa-Cho,Nakakoma-Gun,Yamanashi,Japan		

안전인증대상기계·기구명	호이스트		
형식(규격)	KMS-ER2-020	용량(등급)	2 ton

「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따라 실시한

[ ]예비심사

[■]서면심사

[ ]기술능력 및 생산체계 심사

[ ]개별 제품심사

[ ]형식별 제품심사

결과가 [■]적 합 [ ]부적합 함을 통지합니다.

2012년 06월 20일

인증심사원 최 창 일 (서명 또는 인)

오 태 화 (서명 또는 인)

한국승강기안전기술원 이사장

■ 산업안전보건법 시행규칙 [별지 제10호의 6서식]

제 CA-2012-0034 호

안 전 인 증 서

(사업장명) **(주)KITO**

(소 재 지) **2000,Tsuijiarai,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): KMS-ER2-020(2 ton)

인증번호 : 12-CA4AC-0034

인증기준 : 위험기계·기구 의무안전인증기준 (고용노동부고시 제2011-39호)

인증조건 : 산업안전보건법 "제34조 준수"

2012년 11월 30일

한국승강기안전기술원 이사장

【별지 제4호서식】

동 일 형 식 일 람 표

사업장명	KITO CORP.	개정일자 및 번호	2012.05.2	인증번호

형식 및 모델번호		동일형식 항목 및 내역			
형식번호	모델번호	동일형식 항목1	동일형식 항목2	동일형식 항목3	동일형식 항목4
KMS-ER2-020	KITO-ER2-020S	Lift max 30m	권상모타 3.5kW	횡행모타 없음	Trolley고정형
	KITO-ER2-020IS				
	KITO-ER2SP020S		권상모타 3.5kW		Trolley 있음
	KITO-ER2SP020IS				
	KITO-ER2SG020S		권상모타 3.5kW		Trolley + 수동체인
	KITO-ER2SG020IS				
	KITO-ER2M020S-S		권상모타 3.5kW	횡행모터 0.4kW .S : 24m/min .L: 12m/min .IS:24/4m/min .IL:12/2m/min	전기Trolley 결합 type
	KITO-ER2M020S-L				
	KITO-ER2M020S-IS				
	KITO-ER2M020S-IL				
	KITO-ER2M020IS-S		권상모타 3.5kW		
	KITO-ER2M020IS-L				
	KITO-ER2M020IS-IS				
	KITO-ER2M020IS-IL				
	KITO-C-ER2M020S-S		권상모타 3.5kW		전기Trolley 결합 Clean type
	KITO-C-ER2M020S-L				
	KITO-C-ER2M020S-IS				
	KITO-C-ER2M020S-IL				
	KITO-C-ER2M020IS-S		권상모타 3.5kW		
	KITO-C-ER2M020IS-L				
	KITO-C-ER2M020IS-IS				
	KITO-C-ER2M020IS-IL				
	KITO-CZ-ER2M020S-S		권상모타 3.5kW		전기Trolley 결합 Clean 자바라 type
	KITO-CZ-ER2M020S-L				
	KITO-CZ-ER2M020S-IS				
	KITO-CZ-ER2M020S-IL				
	KITO-CZ-ER2M020IS-S		권상모타 3.5kW		
	KITO-CZ-ER2M020IS-L				
	KITO-CZ-ER2M020IS-IS				
	KITO-CZ-ER2M020IS-IL				

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	용량·등급	인증번호
JDL-100	J-2	12-AV2BJ-0009

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2010-36호)

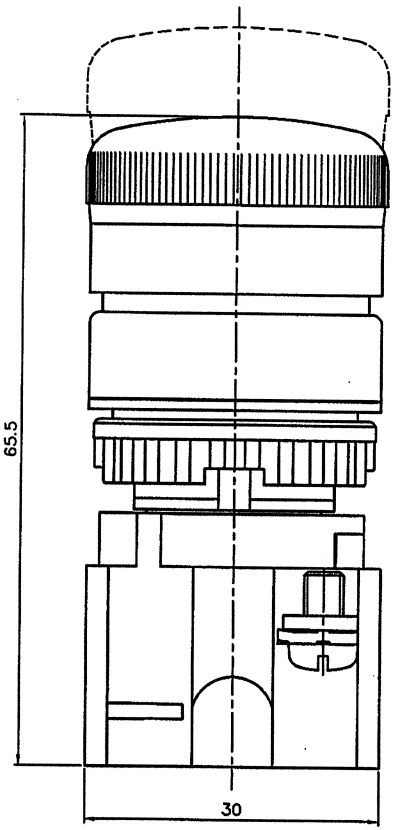
인 증 조 건

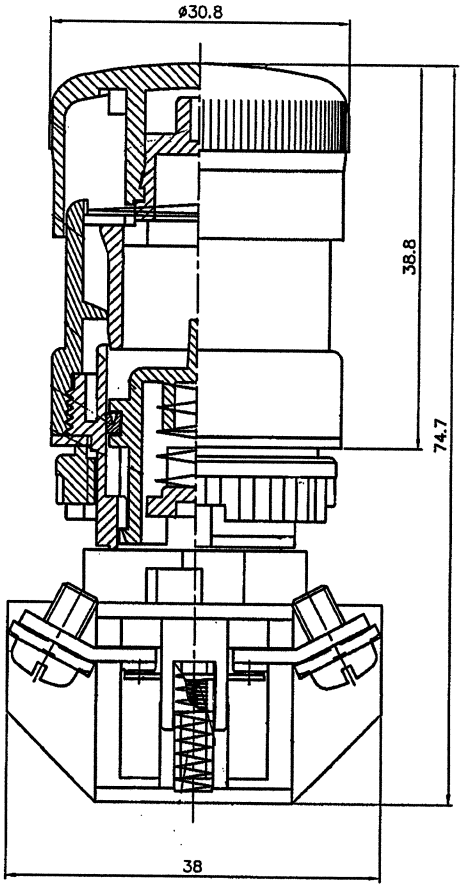
아래 주소에서 생산되는 제품에 한함.

정호엔지니어링, 경기도 광명시 노온사동 440-5

2012년 06월 11일

한국산업안전보건공단 이사장





一般公差	0.2~30mm: ±0.2	30.1~60mm: ±0.3	60.1~300mm: ±0.5	模具材質		模具處理		模具孔數		單 位	mm	材 質		圖 號	T2-BKH
天得科技股份有限公司 TEND TECHNOLOGY CO.,LTD.	最新修正		品 保	品保部 95.05.24 林建宏	核 准	研發部 95.05.24 鐘健誌	核 對	研發部 95.05.24 周欽祥	繪 圖	設計課 95.05.24 吳宗達	比 例	2:1	表面處理		品 名	T2 BKH 連鎖開關
	前次修正										投影法		顏 色			

8 7 6 5 4 3 2 1

F E D C B A

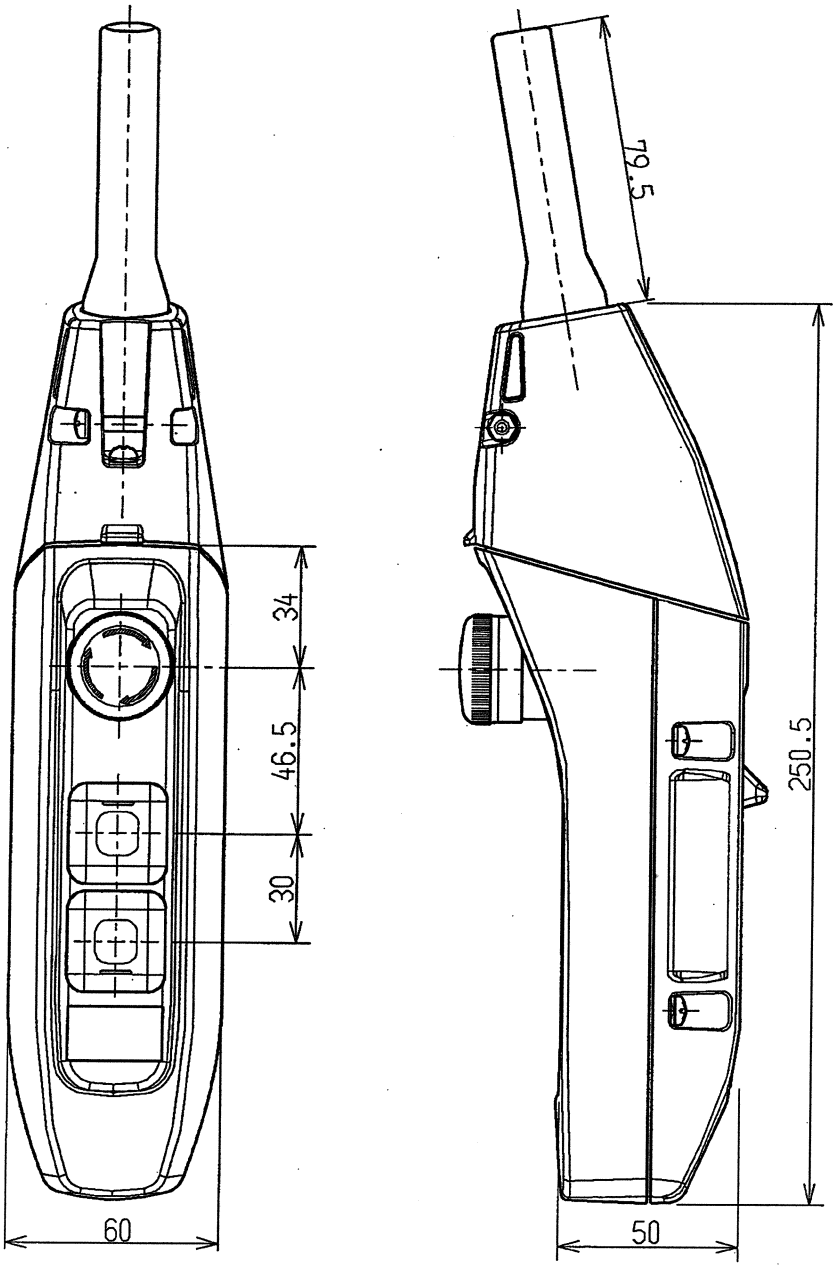
順序：A

Z:/T2/BKH/T2-BKH.dwg

14/205

様式:04KH-N001DA

Revision	Incidence	Description	Date	Charge	Approved



APPROVED	ISHIKAWA 08.02.08	CHECKED	FURIYA 08.02.08	DESIGNED	KOBAYASHI 08.02.08	DRAWN	KOBAYASHI 08.02.08	SCALE	-	DWG.NO.	SWD2X00

NOTE

MATERIAL

NOS./UNIT

CODE

NAME 3point Pendant control Station MX subassembly

2012.05.20

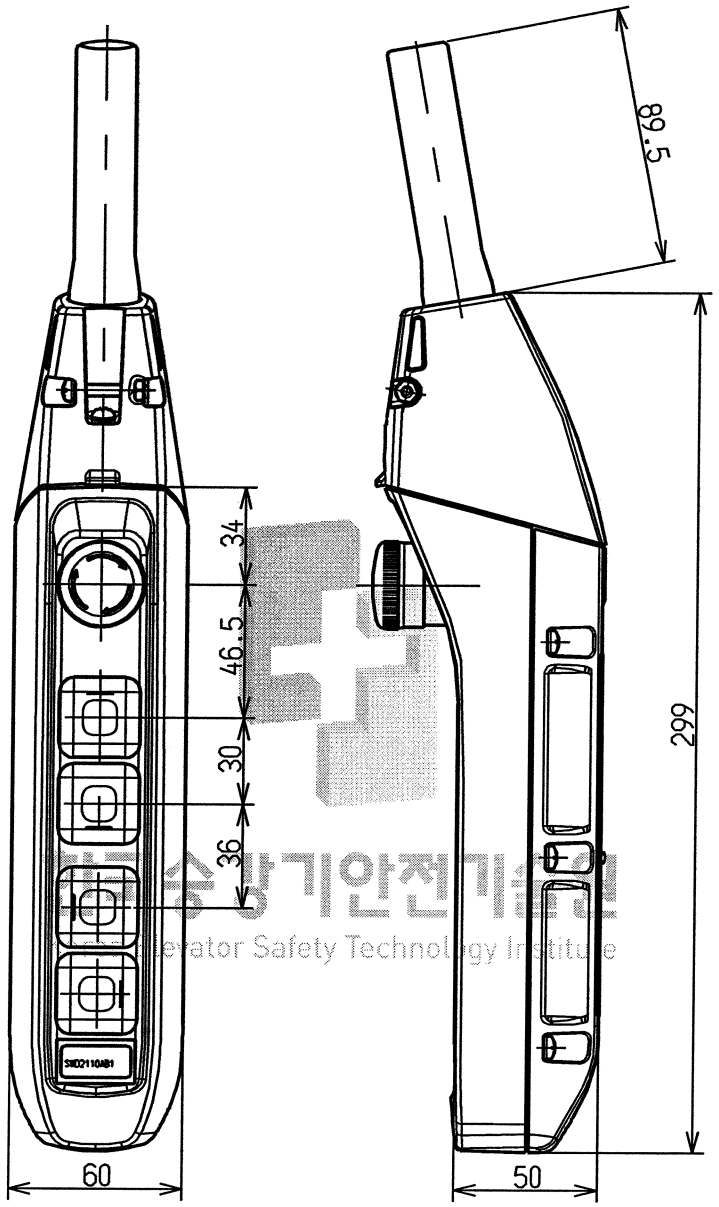
Date issued

KITO CORPORATION

UNIT: mm

様式:04KH-N001DA

Revision	Incidence	Description	Date	Charge	Approved



The lifting and lowering push buttons are marked with ⬆⬇ for single speed or ⏫⏬ for dual speed.
The traveling push buttons are marked with E W or N S depending on the installed direction.

APPROVED	H.FURIYA 09.04.21	CHECKED	T.HATANO 09.04.21	DESIGNED	KOBAYASHI 09.04.21	DRAWN	KOBAYASHI 09.04.21	SCALE	-	DWG.NO.	SWD2XX0[illegible]AA

NOTE

MATERIAL

NOS./UNIT

CODE

NAME: 5point Pendant control station MXX subassembly

2012.06.20

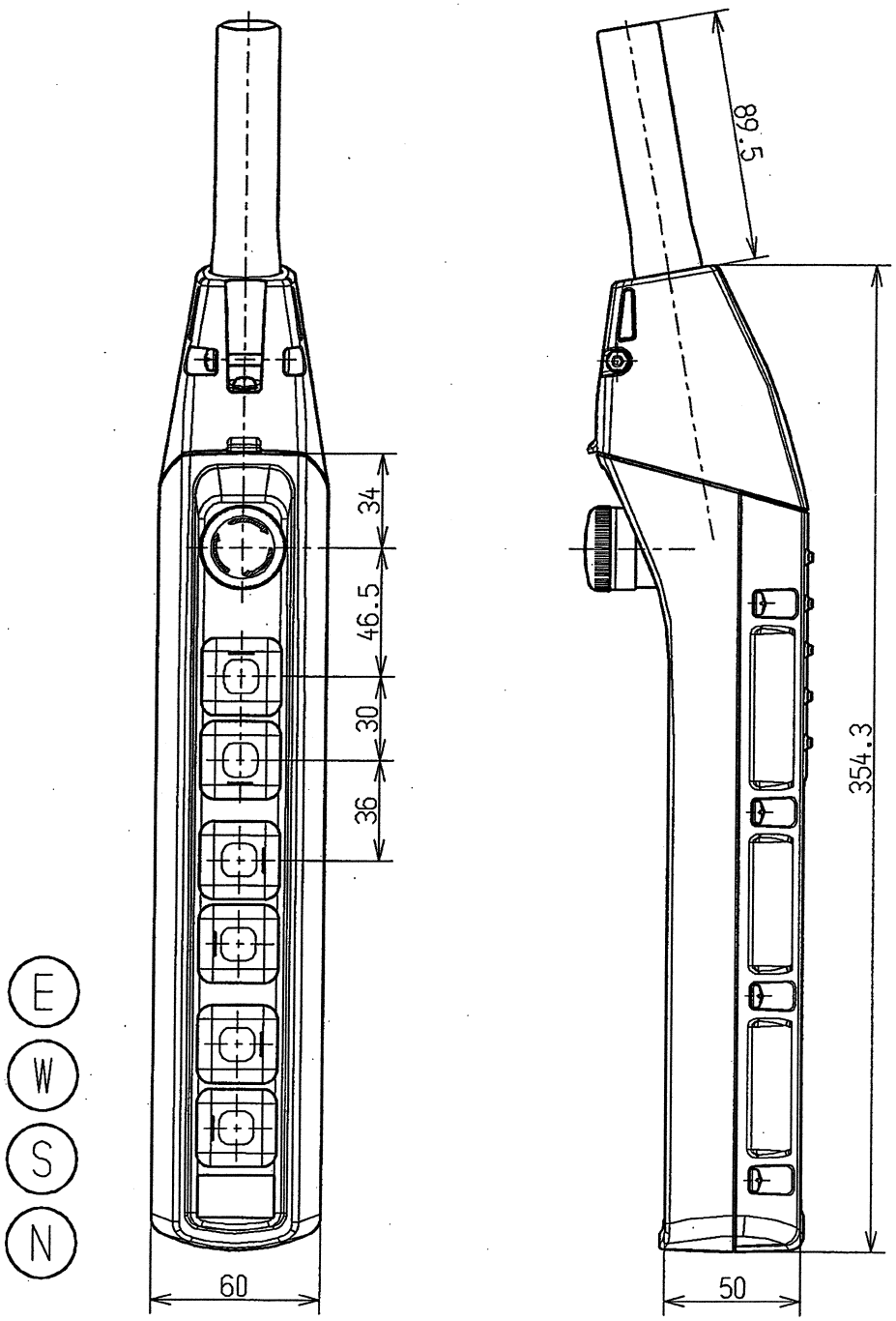
Date issued

KITO CORPORATION

UNIT: mm

様式:04KH-N001DA

Revision	Incidence	Description	Date	Charge	Approved



APPROVED	ISHIKAWA 08.02.08	CHECKED	FURIYA 08.02.08	DESIGNED	KOBAYASHI 08.02.08	DRAWN	KOBAYASHI 08.02.08	SCALE	-	DWG.NO.	SWD2XXXA

NOTE

MATERIAL

NOS./UNIT

CODE

NAME 2point Pendant control station MXXX subassembly

Date issued

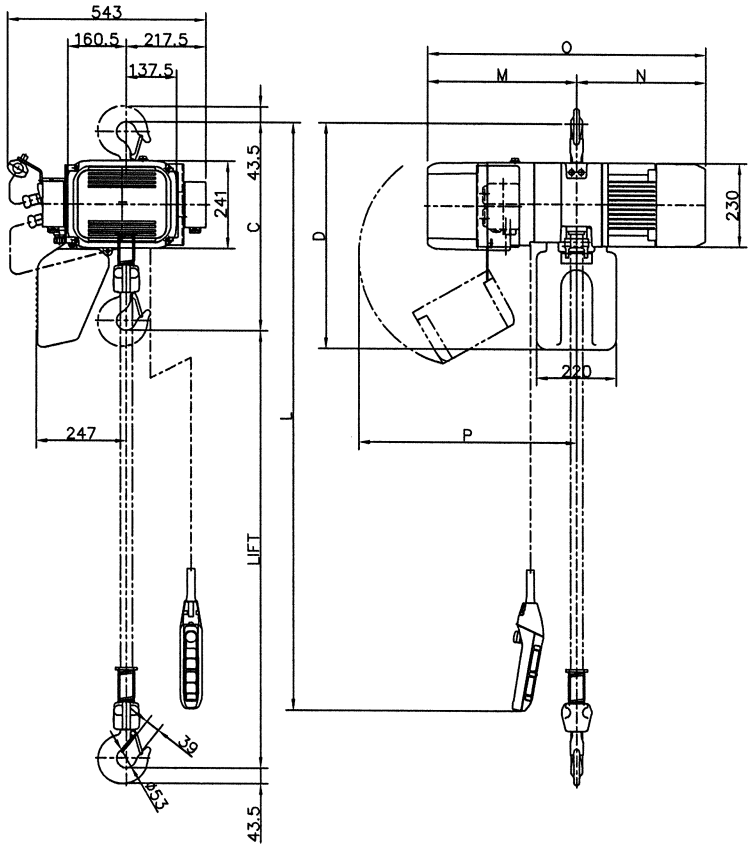
KITO CORPORATION

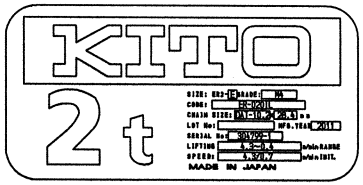
UNIT: mm

형식번호 :KMS-ER2-020

Model number.
KITO-ER2-020S
KITO-ER2-020IS

Dimensions	M	N	O	P
1속 고속	347	356	703	527
2속 고속	411		767	600



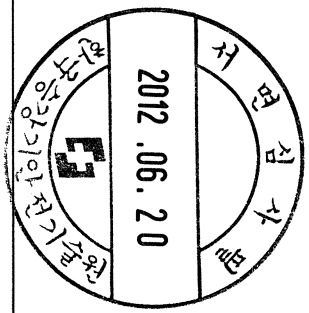


Name Plate For Chain Hoist

諸元表 Particulars			
基本本体 Size			ER2-E
定格荷重 Nominal Capacity			2t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø10.2 x 1
レール下面より フックまでの最小距離 : C Min. Headroom			575mm
相数・電圧 Phase・Voltage			3ø 220(208)V 60Hz 380,440V 60Hz
モータ出力 ・反復定格 ・等級 Motor Output Duty Rating Classification	巻上モータ for Lifting	IS	3.5kW x 4P
		S	3.5kW x 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS	8.2/1.4 m/min
	1속형 고속	S	8.4 m/min
オシボタンコード長さ : L Push Button Cord			2.5 m(max 29.5m)
キャブタイヤ給電 ケーブル長さ Length of Power Supply Cable			- m
レール下面よりチェーン バケットまでの寸法 : D Chain Container Distance from Bottom of Beam			630mm(max 1000)
トロリ最大巾 : G Max. Dimension of Trolley Width			630mm
質量 Mass			約 74 kg
塗装色 Painting Color			マンセル 7.5YR7/14 Munsell 7.5YR7/14

The trolley be installed on either topered or flot flange.
A figure in ( ) is availablo for only flat flange.

형식번호 :KMS-ER2-020
*자바라는 옵션 사양임



改訂 REV.	数 QTY	内容 CONTENTS	年.月.日 DATE	担当 DRAWN	承認 APPROVED

承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
H.SAITO	NAITO	SHIMURA	SHIMURA
10.07.13	10.07.13	10.07.13	10.07.13

株式会社 キトー KITO CORP

名称 TITLE 2t ER2 SERIES ELECTRIC CHAIN HOIST Standard

製造番号 CODE	ER2-S	尺度 SCALE	NOT
図番 DWG.NO.	KMS-ER2-020-001	変更回数 REV.	0

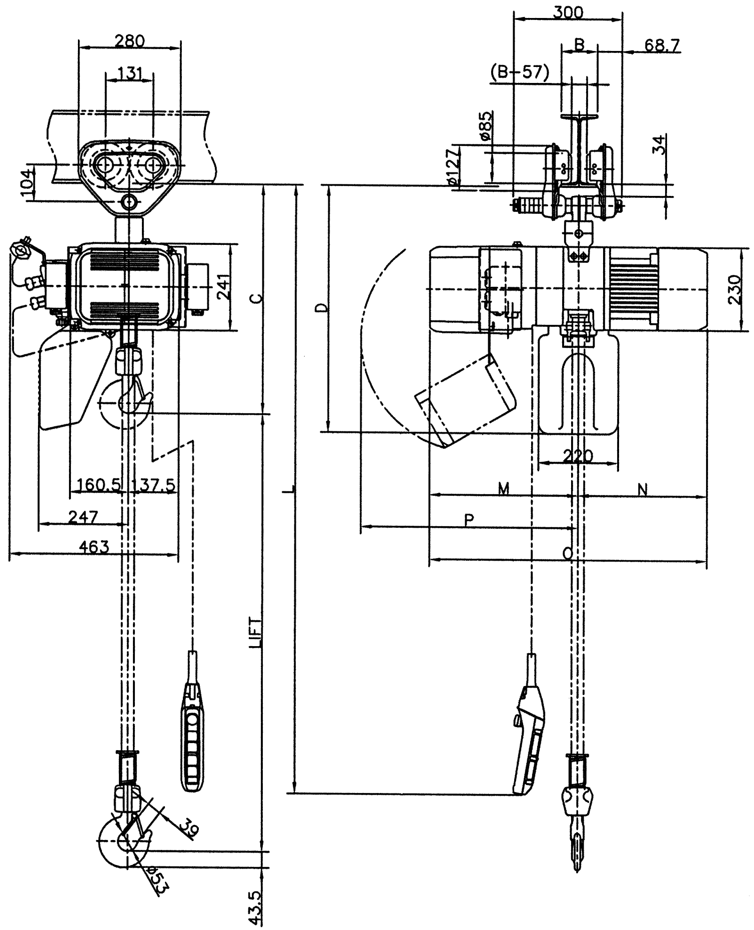
様式 025P-19

三角法 単位 : mm

형식번호 :KMS-ER2-020

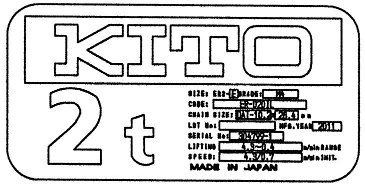
Model number.
KITO-ER2SP020S
KITO-ER2SP020IS

Dimensions	M	N	O	P
1속 고속	347	356	703	527
2속 고속	411		767	600



諸元表 Particulars			
基本本体 Size			ER2-E
定格荷重 Nominal Capacity			2t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø10.2 x 1
レール下面より フックまでの最小距離 : C Min. Headroom			635mm
相数・電圧 Phase・Voltage			3ø 220(208)V 60Hz 380,440V 60Hz
モータ出力・反復定格・等級 Motor Output・Duty Rating・Classification	巻上モータ for Lifting	IS	3.5kW x 4P
		S	3.5kW x 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS	8.2/1.4 m/min
	1속형 고속	S	8.4 m/min
オシボタンコード長さ : L Push Button Cord			2.7 m(max 29.7m)
キャブタイヤ給電ケーブル長さ Length of Power Supply Cable			(2.5)m
レール下面よりチェーンバケットまでの寸法 : D Chain Container Distance from Bottom of Beam			690mm(max 1000)
適用レール巾 : B Flange Width			82~153mm
トロリ最大巾 : G Max. Dimension of Trolley Width			630mm
質量 Mass			約 91 kg
塗装色 Painting Color			マンセル 7.5YR7/14 Munsell 7.5YR7/14

The trolley be installed on either topered or flot flange.
A figure in ( ) is availablo for only flat flange.



Name Plate For Chain Hoist

형식번호 :KMS-ER2-020
*자바라는 옵션 사양임

	承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
	H.SAITO	NAITO	SHIMURA	SHIMURA
	10.07.13	10.07.13	10.07.13	10.07.13

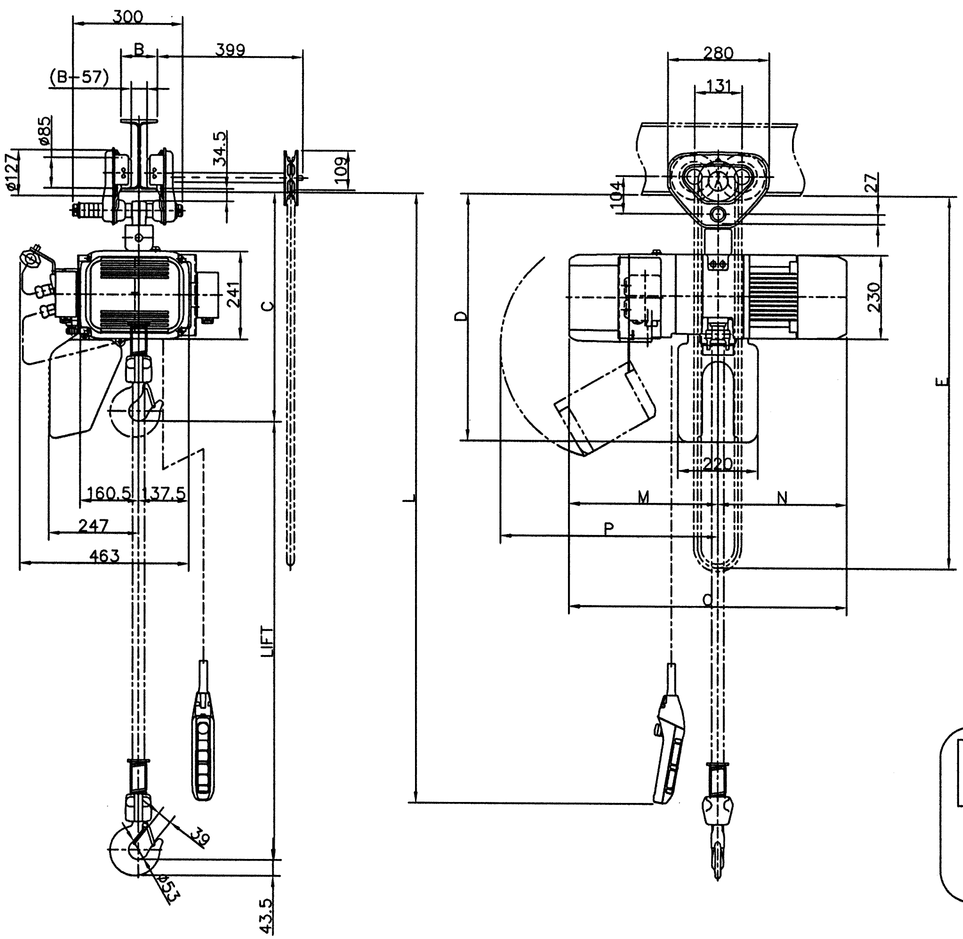
改訂 REV.	数 QTY	内容 CONTENTS	年.月.日 DATE	担当 DRAWN	承認 APPROVED

株式会社 キトー KITO CORP

名称 TITLE: 2t ER2 SERIES ELECTRIC CHAIN HOIST WITH PLAN TROLLEY

製造番号 CODE	ER2-SP	尺度 SCALE	NOT
図番 DWG.NO.	KMS-ER2-020-002	変更回数 REV.	0

様式 025P-19　三角法 単位 : mm

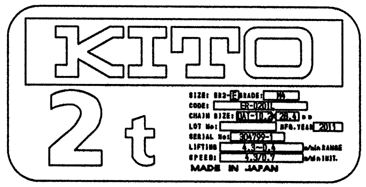


형식번호 : KMS-ER2-020

Model number.
KITO-ER2SG020S
KITO-ER2SG020IS

Dimensions	M	N	O	P
1속 고속	347	356	703	527
2속 고속	411		767	600

諸元表 Particulars			
基本本体 Size			ER2-E
定格荷重 Nominal Capacity			2t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø10.2 x 1
レール下面より フックまでの最小距離 : C Min. Headroom			635mm
相数・電圧 Phase・Voltage			3ø 220(208)V 60Hz 380,440V 60Hz
モータ出力・反復定格・等級 Motor Output Duty Rating Classification	巻上モータ for Lifting	IS	3.5kW x 4P
		S	3.5kW x 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS	8.2/1.4 m/min
	1속형 고속	S	8.4 m/min
オシボタンコード長さ : L Push Button Cord			2.7 m(max 29.7m)
キャブタイヤ給電ケーブル長さ Length of Power Supply Cable			(2.5)m
レール下面よりチェーンバケットまでの寸法 : D Chain Container Distance from Bottom of Beam			690mm(max 1000)
適用レール巾 : B Flange Width			82~153mm
トロリ最大巾 : G Max. Dimension of Trolley Width			630mm
質量 Mass			約 91 kg
塗装色 Painting Color			マンセル 7.5YR7/14 Munsell 7.5YR7/14



Name Plate For Chain Hoist

The trolley be installed on either topered or flot flange.
A figure in ( ) is availablo for only flat flange.

형식번호 : KMS-ER2-020
*자바라는 옵션 사양임

改訂 REV.	数 QTY	内容 CONTENTS	年.月.日 DATE	担当 DRAWN	承認 APPROVED

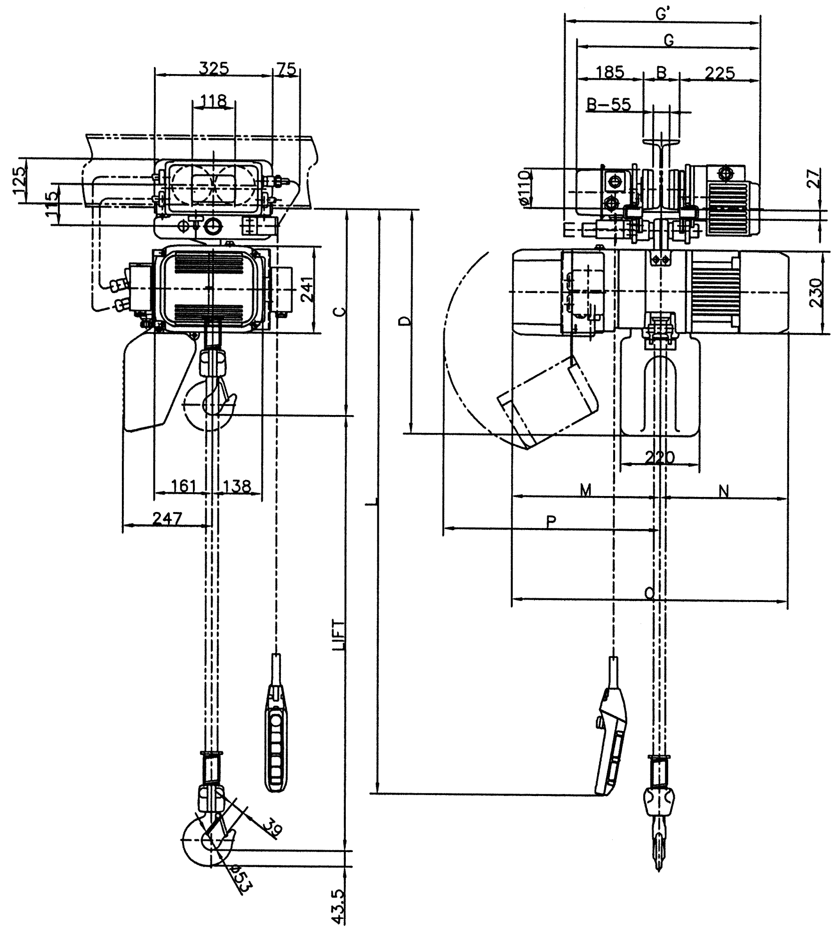
承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
H.SAITO	NAITO	SHIMURA	SHIMURA
10.07.13	10.07.13	10.07.13	10.07.13

株式会社 キトー KITO CORP

名称 TITLE	2t ER2 SERIES ELECTRIC CHAIN HOIST WITH GEARED TROLLEY
製造番号 CODE	ER2-SG
尺度 SCALE	NOT
図番 DWG.NO.	KMS-ER2-020-003
変更回数 REV.	0

様式 025P-19

三角法 単位 : mm

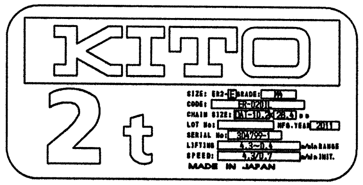


형식번호 : KMS-ER2-020

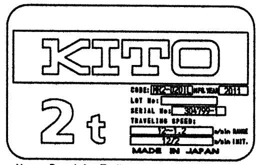
Model number.
KITO-ER2M020S-S
KITO-ER2M020S-L
KITO-ER2M020S-IS
KITO-ER2M020S-IL
KITO-ER2M020IS-S
KITO-ER2M020IS-L
KITO-ER2M020IS-IS
KITO-ER2M020IS-IL

Dimensions	M	N	O	P
1속 고속	347	356	703	527
2속 고속	411		767	600

諸元表 Particulars			
基本本体 Size			ER2-E
定格荷重 Nominal Capacity			2t
揚程 Lift			4m(max 30m)
チェーンサイズ Chain size			ø10.2 x 1
レール下面よりフックまでの最小距離 : C Min. Headroom			585mm
相数・電圧 Phase・Voltage			3ø 220(208)V 60Hz 380,440V 60Hz
モータ出力・反復定格・等級 Motor Output Duty Rating Classification	巻上モータ for Lifting	IS	3.5kW x 4P
		S	3.5kW x 4P
	横行モータ for Traversing	IL,IS ,L,S	0.4kW 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS	8.2/1.4 m/min
	1속형 고속	S	8.4 m/min
横行速度 Traversing Speed	2속형(인버터 적용)	IL	12/2 m/min
		IS	24/4 m/min
	저속	L	12 m/min
	고속	S	24 m/min
オシボタンコード長さ : L Push Button Cord			3.8 m(max 29.8m)
キャブタイヤ給電ケーブル長さ Length of Power Supply Cable			1.0 m
レール下面よりチェーンバケットまでの寸法 : D Chain Container Distance from Bottom of Beam			630mm(max 1000)
適用レール巾 : B Flange Width			82~178mm
トロリ最大巾 : G Max. Dimension of Trolley Width			587mm
質量 Mass			約 133kg
塗装色 Painting Color			マンセル 7.5YR7/14 Munsell 7.5YR7/14



Name Plate For Chain Hoist



Name Preat for Trolley

형식번호 : KMS-ER2-020

*자바라는 옵션 사양임

承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
H.SAITO	NAITO	SHIMURA	SHIMURA
10.07.13	10.07.13	10.07.13	10.07.13

改訂 REV.	数 QTY	内容 CONTENTS	年.月.日 DATE	担当 DRAWN	承認 APPROVED

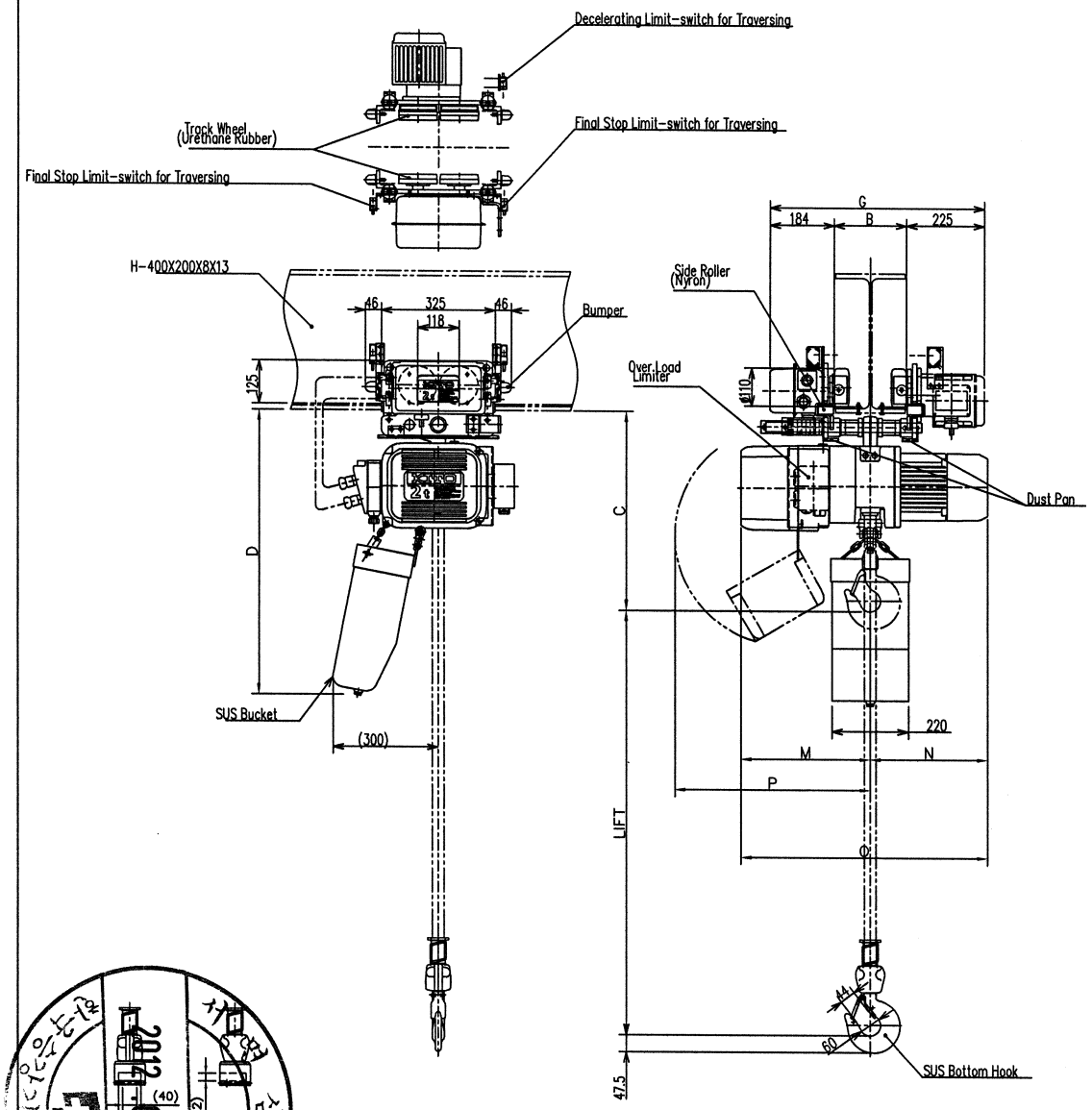
株式会社キトー KITO CORP

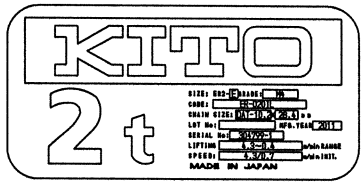
名称 TITLE 2t ER2M SERIES ELECTRIC CHAIN HOIST WITH MOTORIZED TROLLEY

製造番号 CODE	ER2-M	尺度 SCALE	NOT
図番 DWG.NO.	KMS-ER2-020-004	変更回数 REV.	0

様式 025P-19

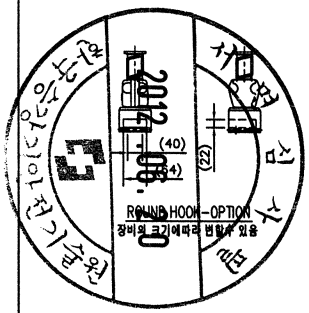
三角法 単位 : mm





Name Plate For Chain Hoist

Name Preat for Trolley



형식번호 : KMS-ER2-020

Model number.

KITO-C-ER2M020S-S
KITO-C-ER2M020S-L
KITO-C-ER2M020S-IS
KITO-C-ER2M020S-IL
KITO-C-ER2M020IS-S
KITO-C-ER2M020IS-L
KITO-C-ER2M020IS-IS
KITO-C-ER2M020IS-IL

Dimensions	M	N	O	P
1속 고속	347	356	703	527
2속 고속	411		767	600

諸元表 Particulars		
基本本体 Size		ER2-E
定格荷重 Nominal Capacity		2t
揚程 Lift		5m(max 30m)
チェーンサイズ Chain size		ø10.2 x 1
レール下面より フックまでの最小距離 : C Min. Headroom		590mm
相数・電圧 Phase・Voltage		3ø 220(208)V 60Hz 380,440V 60Hz
モータ出力 ・反復定格 ・等級 Motor Output Duty Rating Classification	巻上モータ for Lifting	IS 3.5kW x 4P
		S 3.5kW x 4P
	横行モータ for Traversing	IL,IS ,L,S 0.4kW 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS - 8.2/1.4 m/min
	1속형 고속	S 8.4 m/min
横行速度 Traversing Speed	2속형(인버터 적용)	IL 12/2 m/min
		IS 24/4 m/min
	저속	L 12 m/min
	고속	S 24 m/min
オシボタンコード長さ : L Push Button Cord		4.8 m(max 29.8m)
キャブタイヤ給電 ケーブル長さ Length of Power Supply Cable		1.0 m
レール下面よりチェーン バケットまでの寸法 : D Chain Container Distance from Bottom of Beam		830mm(max 1000)
適用レール巾 : B Flange Width		133~258mm
トロリ最大巾 : G Max. Dimension of Trolley Width		542~667mm
質量 Mass		約 130kg
塗装色 Painting Color		マンセル 7.5YR7/14 Munsell 7.5YR7/14

1. Dust Pan - option

형식번호 : KMS-ER2-020

*자바라는 옵션 사양임

改訂 REV.	数 QTY	内容 CONTENTS	年.月.日 DATE	担当 DRAWN	承認 APPROVED

承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
H.SAITO	K.SUZUKI	K.NAKAMURA	K.NAKAMURA
14.Feb'11	14.Feb'11	14.Feb'11	14.Feb'11

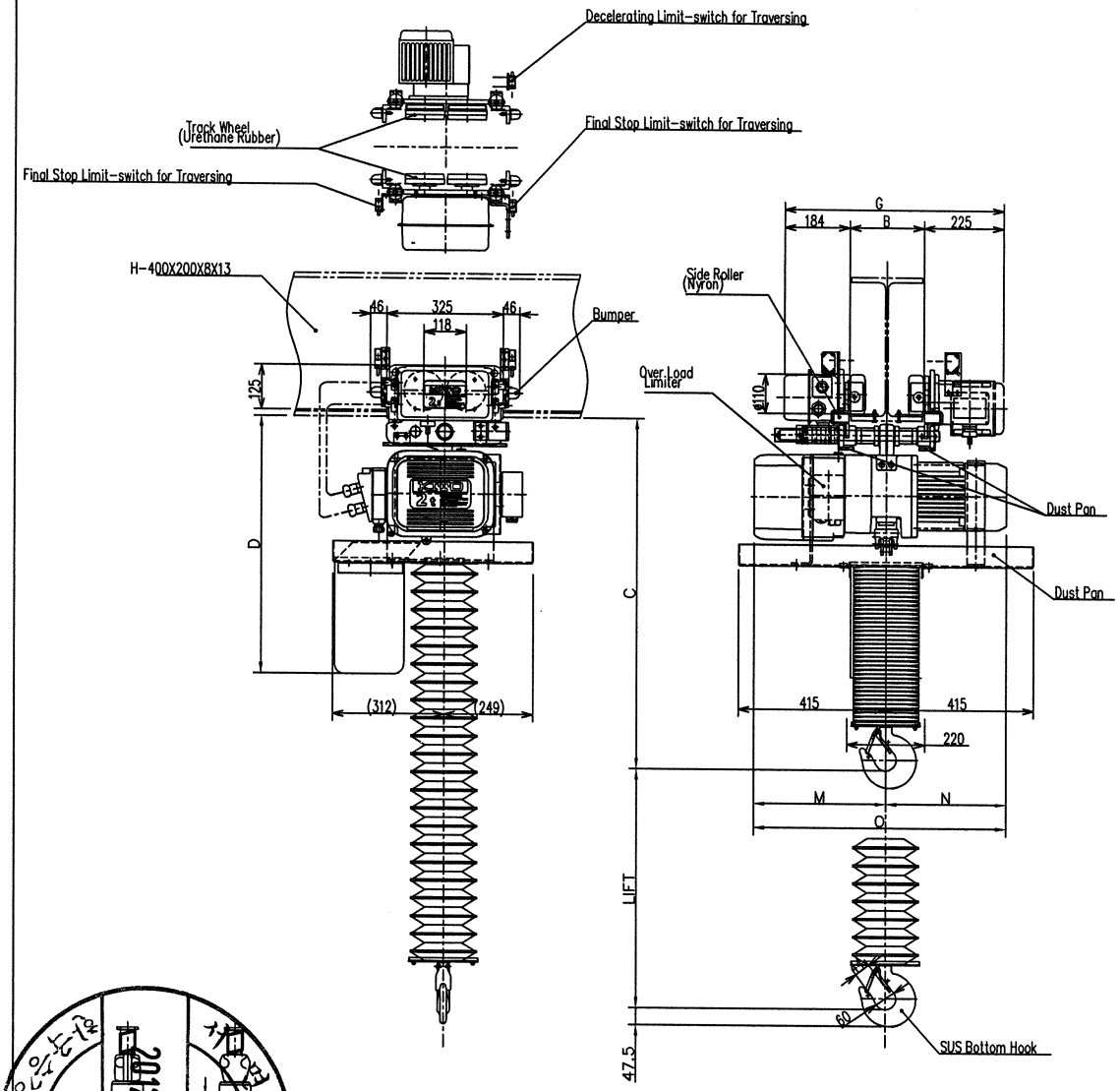
株式会社 キトー KITO CORP

名称 TITLE: 2t ER2M SERIES ELECTRIC CHAIN HOIST(CLEAN) WITH MOTORIZED TROLLEY

製造番号 CODE	ER2-MC	尺度 SCALE	NOT
図番 DWG.NO.	KMS-ER2-020-005	変更回数 REV.	0

様式 025P-19

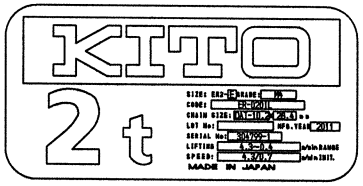
三角法 単位 : mm



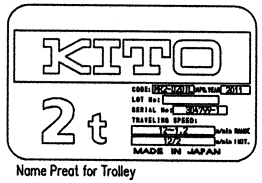
형식번호 : KMS-ER2-020
Model number.
KITO-CZ-ER2M020S-S
KITO-CZ-ER2M020S-L
KITO-CZ-ER2M020S-IS
KITO-CZ-ER2M020S-IL
KITO-CZ-ER2M020IS-S
KITO-CZ-ER2M020IS-L
KITO-CZ-ER2M020IS-IS
KITO-CZ-ER2M020IS-IL

Dimensions	M	N	O
1속 고속	347	356	703
2속 고속	411		767

諸元表 Particulars		
基本本体 Size		ER2-E
定格荷重 Nominal Capacity		2t
揚程 Lift		6m(max 30m)
チェーンサイズ Chain size		ø10.2 x 1
レール下面より フックまでの最小距離 : C Min. Headroom		1000mm
相数・電圧 Phase・Voltage		3ø 220(208)V 60Hz 380,440V 60Hz
モータ出力・反復定格・等級 Motor Output・Duty Rating・Classification	巻上モータ for Lifting	IS 3.5kW x 4P
		S 3.5kW x 4P
	横行モータ for Traversing	IL,IS,L,S 0.4kW 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS 8.2/1.4 m/min
	1속형 고속	S 8.4 m/min
横行速度 Traversing Speed	2속형(인버터 적용)	IL 12/2 m/min
		IS 24/4 m/min
	저속	L 12 m/min
	고속	S 24 m/min
オシボタンコード長さ : L Push Button Cord		6 m(max 30m)
キャブタイヤ給電ケーブル長さ Length of Power Supply Cable		1.0 m
レール下面よりチェーンバケットまでの寸法 : D Chain Container Distance from Bottom of Beam		720mm(max 1000)
適用レール巾 : B Flange Width		133~258mm
トロリ最大巾 : G Max. Dimension of Trolley Width		542~667mm
質量 Mass		約 160kg
塗装色 Painting Color		マンセル 7.5YR7/14 Munsell 7.5YR7/14



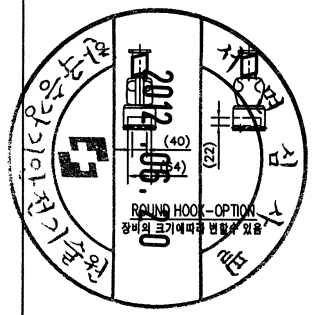
Name Plate For Chain Hoist



Name Preat for Trolley

1. Dust Pan – option

형식번호 : KMS-ER2-020



改訂 REV.	数 QTY	内容 CONTENTS	年.月.日 DATE	担当 DRAWN	承認 APPROVED

承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN
H.SAITO	K.SUZUKI	K.NAKAMURA	K.NAKAMURA
14.Feb'11	14.Feb'11	14.Feb'11	14.Feb'11

株式会社 キトー KITO CORP

名称 TITLE 2t ER2M SERIES ELECTRIC CHAIN HOIST(CLEAN) WITH MOTORIZED TROLLEY

製造番号 CODE	ER2-MCJ	尺度 SCALE	NOT
図番 DWG.NO.	KMS-ER2-020-006	変更回数 REV.	0

様式 025P-19 三角法 単位 : mm

LOAD SUMMARY 1 – INVERTER사양(고속)

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	18.7 (A)	3 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 22.2 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 22.2 * 1.25 = 27.7 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	9.2 (A)	2.5 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 12.2 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 12.2 * 1.25 = 15.25 A

LOAD SUMMARY 2 – INVERTER사양(고속)

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	–	
FULL LOAD CURRENT	18.7 (A)	0 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 19.2 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 19.2 * 1.25 = 24 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	–	
FULL LOAD CURRENT	9.2 (A)	0 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 9.7 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 9.7 * 1.25 = 12.1 A

LOAD SUMMARY 3 – 1속고속형사양

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	16.9 (A)	3 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 20.4 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 20.4 * 1.25 = 25.5 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	8.7 (A)	2.2 (A)	2 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 12.9 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 12.9 * 1.25 = 16.1 A

LOAD SUMMARY 4 – 1속고속형사양

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	–	
FULL LOAD CURRENT	16.9 (A)	0 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 17.4 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 17.4 * 1.25 = 21.7 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	3.5KW x 4P	–	
FULL LOAD CURRENT	8.7 (A)	0 (A)	0.5 (A)

*크레인 하중상태를 HOIST의 정격 LOAD의 100(%)를 사용했을때를 기준으로 작성하였음.

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 9.2 A

*** PEAK 전류값 ***

K= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 * K = 9.2 * 1.25 = 11.5 A

ROTATING MACHINE

- SYNCHRONOUS GENERATOR, 3-PHASE
- AC INDUCTION MOTOR, 3-PHASE
  * N : NORMAL DUTY
  S : STAND-BY
- DC MOTOR

LIGHTNING ARRESTERS

- LA : LIGHTNING ARRESTER
  SA : SURGE ARRESTER
  SS : SURGE SUPPRESSOR
- DISCHARGE COUNTER

INSTRUMENT TRANSFORMERS

- CURRENT TRANSFORMER
- ZERO PHASE CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER

CIRCUIT BREAKERS

- POWER CIRCUIT BREAKER, FIXED TYPE
  GCB : SF6 GAS CIRCUIT BREAKER
  VCB : VACUUM CIRCUIT BREAKER
  ACB : AIR CIRCUIT BREAKER
- POWER CIRCUIT BREAKER, DRAWOUT TYPE
- CIRCUIT BREAKER, FIXED TYPE
  MCCB : MOULDED CASE CIRCUIT BREAKER
  MCB : MINIATURE CIRCUIT BREAKER
- CIRCUIT BREAKER, DRAWOUT TYPE
- WITHDRAWABLE INTERCONNECTOR
- CIRCUIT BREAKER, MANUALLY OPERATED FIXED TYPE WITH THERMAL & MAGNETIC TRIP
- CIRCUIT BREAKER, MANUALLY OPERATED FIXED TYPE WITH MAGNETIC TRIP ONLY
- CIRCUIT BREAKER, MANUALLY OPERATED DRAWOUT TYPE WITH THERMAL & MAGNETIC TRIP
- CIRCUIT BREAKER, MANUALLY OPERATED FIXED TYPE WITH THERMAL & MAGNETIC TRIP AND RESIDUAL CURRENT RELEASE

SWITCHES

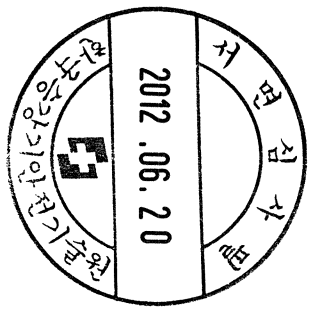
- DISCONNECTOR SWITCH, SINGLE THROW MANUALLY OPERATED
- LOAD BREAK SWITCH, SINGLE THROW MANUALLY OPERATED,
- EARTHING SWITCH, SINGLE THROW MANUALLY OPERATED
- DISCONNECTOR SWITCH, SINGLE THROW MOTOR OPERATED
- EARTHING SWITCH, SINGLE THROW MOTOR OPERATED
- VACUUM CIRCUIT SWITCH
- FUSED DISCONNECTOR SWITCH
- FUSE-SWITCH
- LIMIT SWITCH (MAKE CONTACT)
- LIMIT SWITCH (BREAK CONTACT)
- PUSH BUTTON, NORMALLY OPEN MOMENTARY CONTACT
- PUSH BUTTON, NORMALLY CLOSED MOMENTARY CONTACT
- PUSH BUTTON, NORMALLY OPEN PUSH TO LOCK, RELEASED BY KEY
- MANUAL SELECTOR SWITCH (LOCKED)

CONTACTORS AND STARTERS

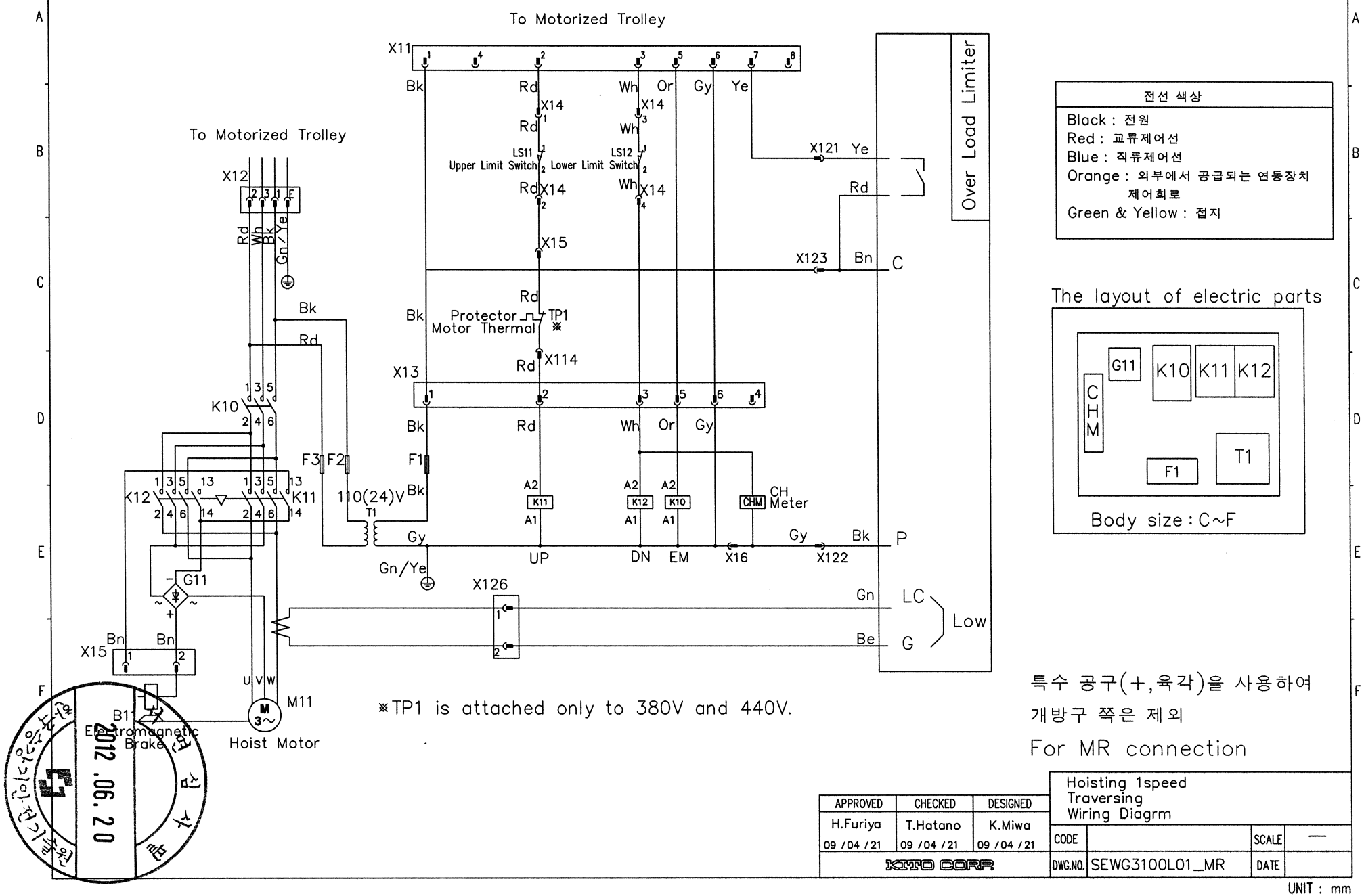
- AUX. CONTACT, NORMALLY OPEN WHEN MAIN SWITCHING DEVICE IS DE-ENERGIZED
- AUX. CONTACT, NORMALLY CLOSED WHEN MAIN SWITCHING DEVICE IS DE-ENERGIZED
- MAGNETIC CONTACTOR, ELECTRICALLY OPERATED
- COMBINATION STARTER, FULL VOLTAGE, NON-REVERSING, DRAWOUT TYPE, WITH ELECTRICALLY OPERATED CONTACTORS, WITH MAGNETIC MOTOR CIRCUIR BREAKER, BUILT IN ELECTRONIC OVER-CURRENT RELAY WITH ADJUSTABLE TRIP RATING (EOCR)
- COMBINATION STARTER, FULL VOLTAGE, NON-REVERSING, FIXED TYPE, WITH ELECTRICALLY OPERATED CONTACTORS, WITH MAGNETIC MOTOR CIRCUIT BREAKER, BUILT IN THERMAL OVER-CURRENT RELAY WITH ADJUSTABLE TRIP RATING

GRAPHIC SYMBOLS

- GENERAL OPERATING COIL
- CAPACITOR
- CAPACITOR VOLTAGE TRANSFORMER(CVT)
- RESISTOR
- DIODE
- CONTROLLED RECTIFIER
- DC-DC CONVERTER
- RECTIFIER, BATTERY CHARGER
- DC-AC INVERTER
- BATTERY BANK
- ELECTRIC HEATER, INDICATE 1* OR 3* AND kW RATING. UNLESS OTHERWISE SPECIFIED, TO BE REGARDED AS 1*.
- EARTHING CONNECTION
- DISCONNECTION LINK
- CROSSING OF CONDUCTORS NOT CONNECTED
- OR JUNCTION OF CONDUCTORS OR WIRES
- BUS DUCT
  SPB : SEGREGATED PHASE BUS DUCT
  IPB : ISOLATED PHASE BUS DUCT
- CABLE HEAD AND CABLE CONNECTION
- AS AMMETER SWITCH
- VS VOLTMETER SWITCH
- * SIGNAL LAMP
  * R = RED Y = YELLOW
  G = GREEN B = BLUE
  W = WHITE A = AMBER
  C = CYAN



APPROVED	CHECKED	DESIGNED	SYMBOL LIST		
			CODE		SCALE —
KTO CORP.			DWG.NO.	SYMBOL LIST	DATE



※TP1 is attached only to 380V and 440V.

전선 색상
Black : 전원
Red : 교류제어선
Blue : 직류제어선
Orange : 외부에서 공급되는 연동장치 제어회로
Green & Yellow : 접지

The layout of electric parts

특수 공구(+,육각)을 사용하여
개방구 쪽은 제외
For MR connection

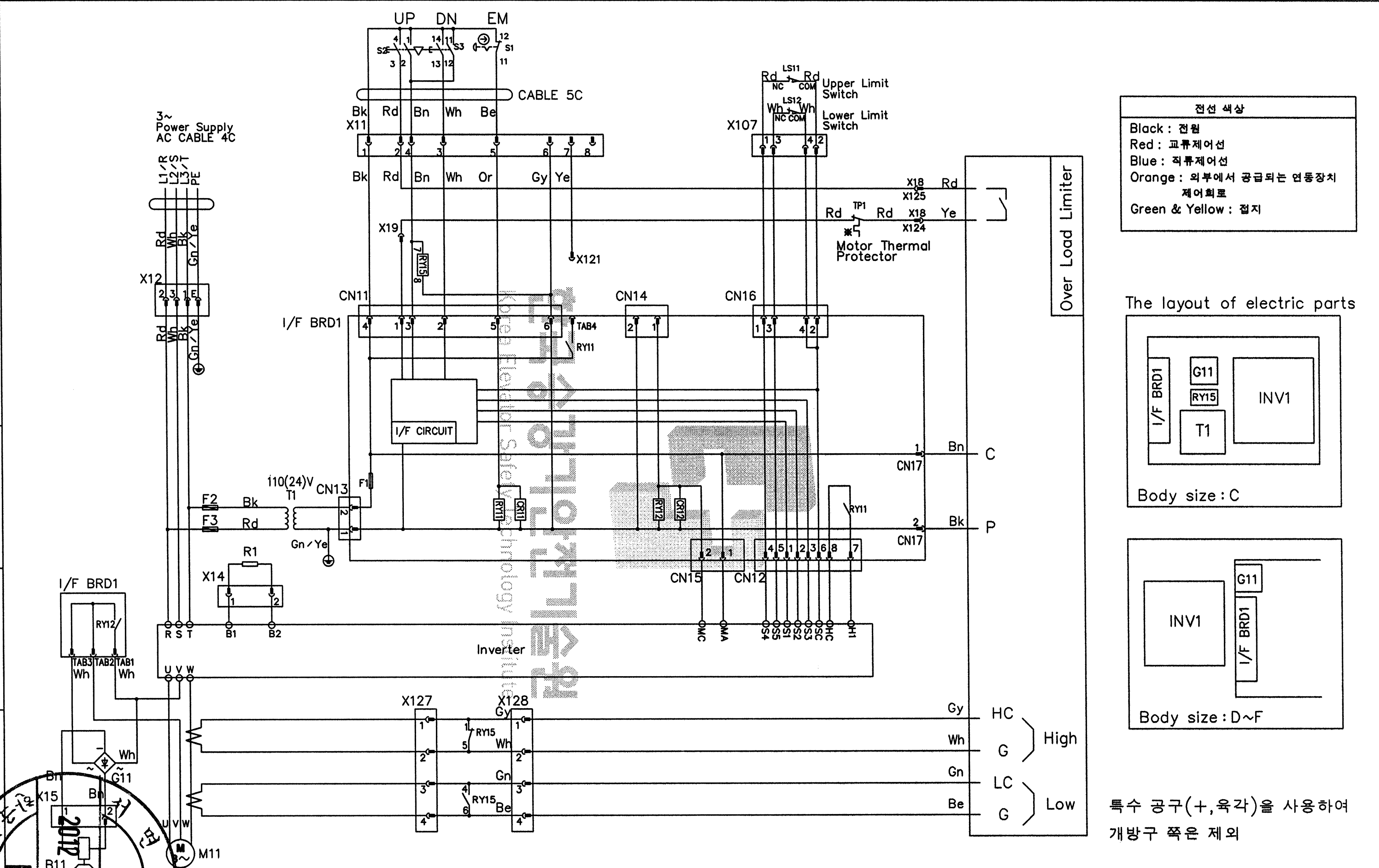
APPROVED	CHECKED	DESIGNED
H.Furiya 09 /04 /21	T.Hatano 09 /04 /21	K.Miwa 09 /04 /21

KITO CORP

Hoisting 1speed
Traversing
Wiring Diagrm

CODE		SCALE	—
DWG.NO.	SEWG3100L01_MR	DATE	

UNIT : mm



UP DN EM
S2 S3 S1
CABLE 5C
Bk Rd Bn Wh Be
X11
Bk Rd Bn Wh Or Gy Ye
3~
Power Supply
AC CABLE 4C
L1/R L2/S L3/T PE
Rd Wh Bk Gn/Ye
X12
X19
RY15
X121
CN11
I/F BRD1
TAB4
RY11
I/F CIRCUIT
CN14
CN16
X107
Upper Limit Switch
Lower Limit Switch
LS11
LS12
X18 X125 Rd
Rd TP1 Rd X18 Ye
X124
Motor Thermal Protector
Over Load Limiter
CN17 Bn C
CN17 Bk P
110(24)V
T1
CN13
F1
F2 Bk
F3 Rd
Gn/Ye
RY11 CR11
RY12 CR12
CN15
CN12
R1
X14
I/F BRD1
RY12
TAB3 TAB2 TAB1
Wh Wh
R S T B1 B2
MC MA S4 S5 S1 S2 S3 SC HC H1
Inverter
U V W
X127
X128
RY15
Gy Wh Gn Be
HC G High
LC G Low
G11
X15
B1
M11
전선 색상
Black : 전원
Red : 교류제어선
Blue : 직류제어선
Orange : 외부에서 공급되는 연동장치 제어회로
Green & Yellow : 접지
The layout of electric parts
I/F BRD1
G11
RY15
T1
INV1
Body size : C
G11
INV1
I/F BRD1
Body size : D~F
특수 공구(+,육각)을 사용하여 개방구 쪽은 제외

*TP1 is attached only to 380V and 440V.

APPROVED	CHECKED	DESIGNED
H.Furiya	H.Hatano	K.Miwa
09 /04 /21	09 /04 /21	09 /04 /21

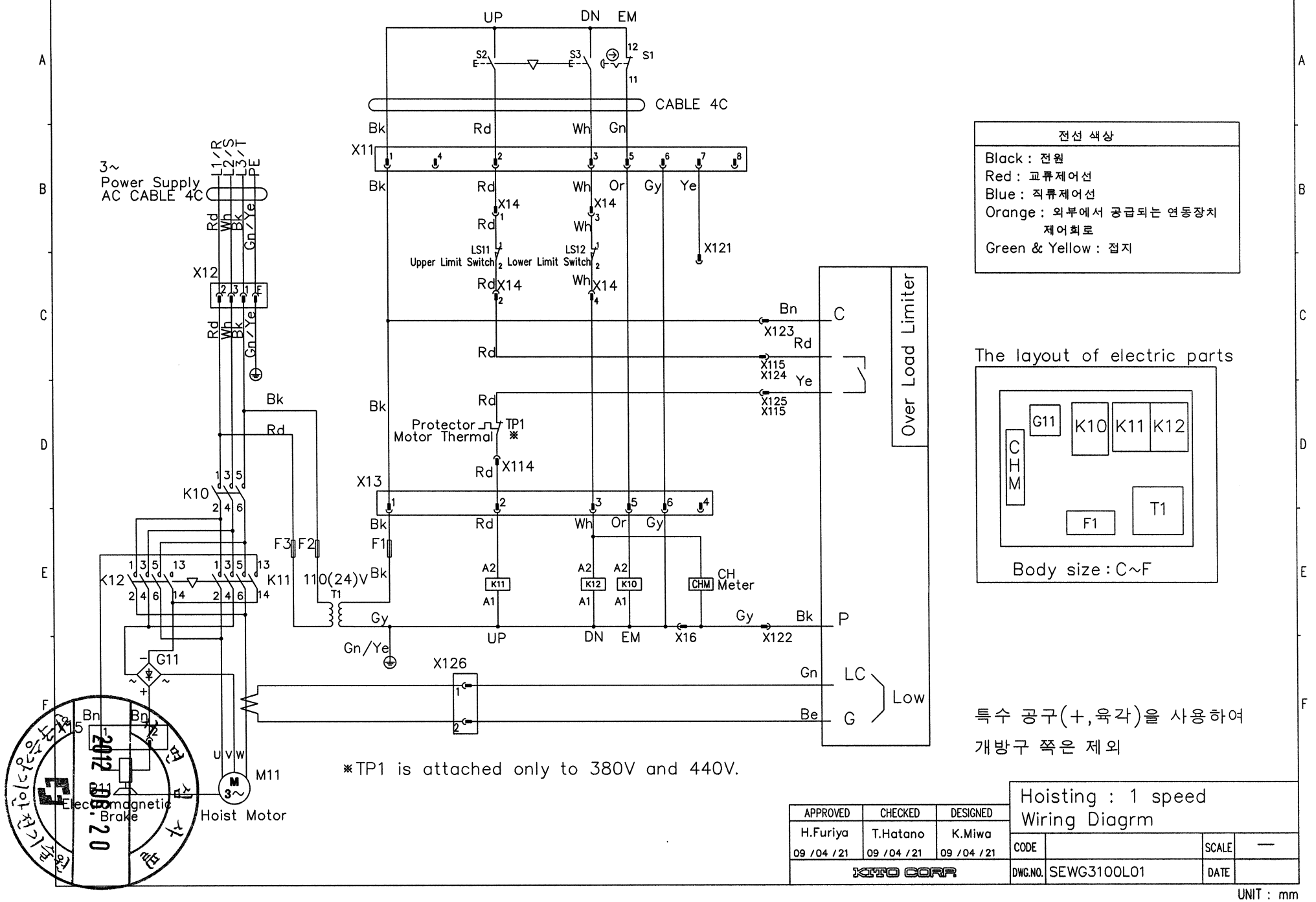
KITO CORP.

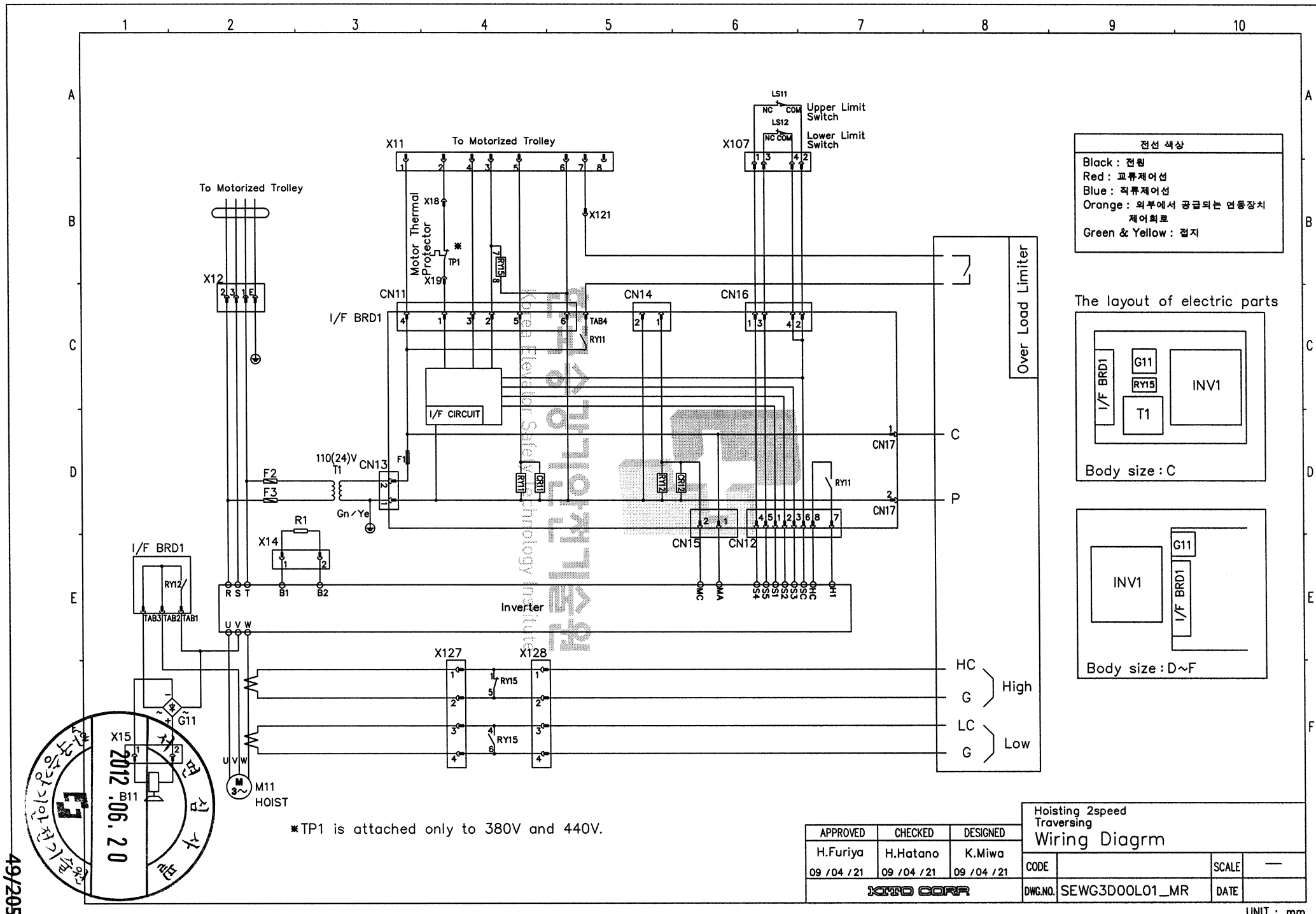
Hoisting 2speed Wiring Diagrm

CODE		SCALE	—
DWG.NO.	SEWG3D00L01	DATE	

UNIT : mm

2012. 06. 20


UP
DN
EM
S2
S3
S1
12
11
CABLE 4C
Bk
Rd
Wh
Gn
X11
Or
Gy
Ye
X14
X121
LS11
Upper Limit Switch
LS12
Lower Limit Switch
X123
X115
X124
X125
Over Load Limiter
3~
Power Supply
AC CABLE 4C
L1/R
L2/S
L3/T
PE
X12
Gn/Ye
Protector
Motor Thermal
TP1
※
X114
X13
K10
K11
K12
F1
F2
F3
110(24)V
T1
A2
A1
CHM
CH
Meter
X16
X122
P
LC
G
Low
X126
G11
Bn
X15
U
V
W
M11
Electromagnetic
Brake
Hoist Motor
※TP1 is attached only to 380V and 440V.
전선 색상
Black : 전원
Red : 교류제어선
Blue : 직류제어선
Orange : 외부에서 공급되는 연동장치
제어회로
Green & Yellow : 접지
The layout of electric parts
G11
K10
K11
K12
CHM
T1
F1
Body size : C~F
특수 공구(+,육각)을 사용하여
개방구 쪽은 제외
APPROVED
CHECKED
DESIGNED
H.Furiya
09 /04 /21
T.Hatano
09 /04 /21
K.Miwa
09 /04 /21
KITO CORP.
Hoisting : 1 speed
Wiring Diagrm
CODE
SCALE
—
DWG.NO.
SEWG3100L01
DATE
UNIT : mm



전선 색상
Black : 전원
Red : 교류제어선
Blue : 직류제어선
Orange : 외부에서 공급되는 연동장치 제어회로
Green & Yellow : 접지

The layout of electric parts

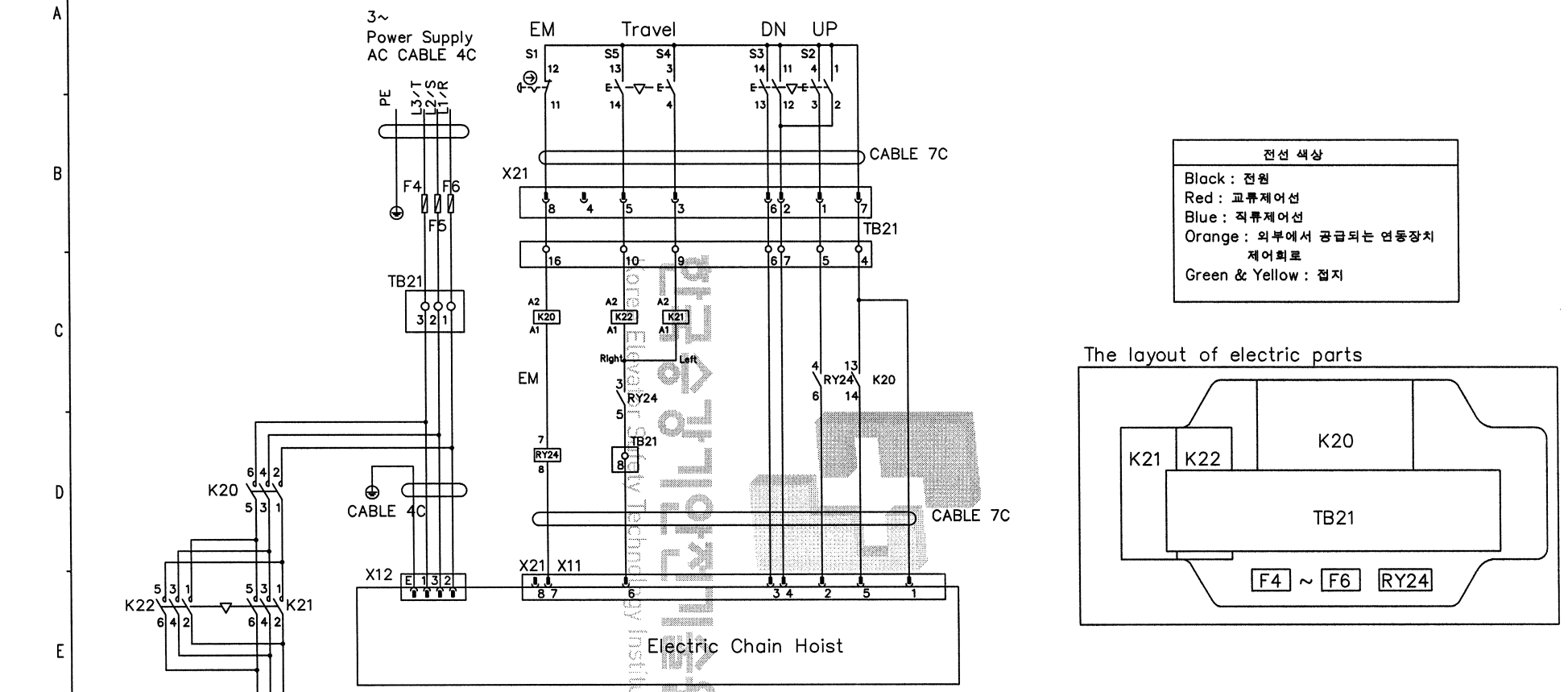
APPROVED	CHECKED	DESIGNED
H.Furiya	H.Hatano	K.Miwa
09 /04 /21	09 /04 /21	09 /04 /21

KITO CORP.

Hoisting 2speed
Traversing
Wiring Diagrm

CODE		SCALE	—
DWG.NO.	SEWG3D00L01_MR	DATE	

UNIT : mm



전선 색상
Black : 전원
Red : 교류제어선
Blue : 직류제어선
Orange : 외부에서 공급되는 연동장치 제어회로
Green & Yellow : 접지

The layout of electric parts

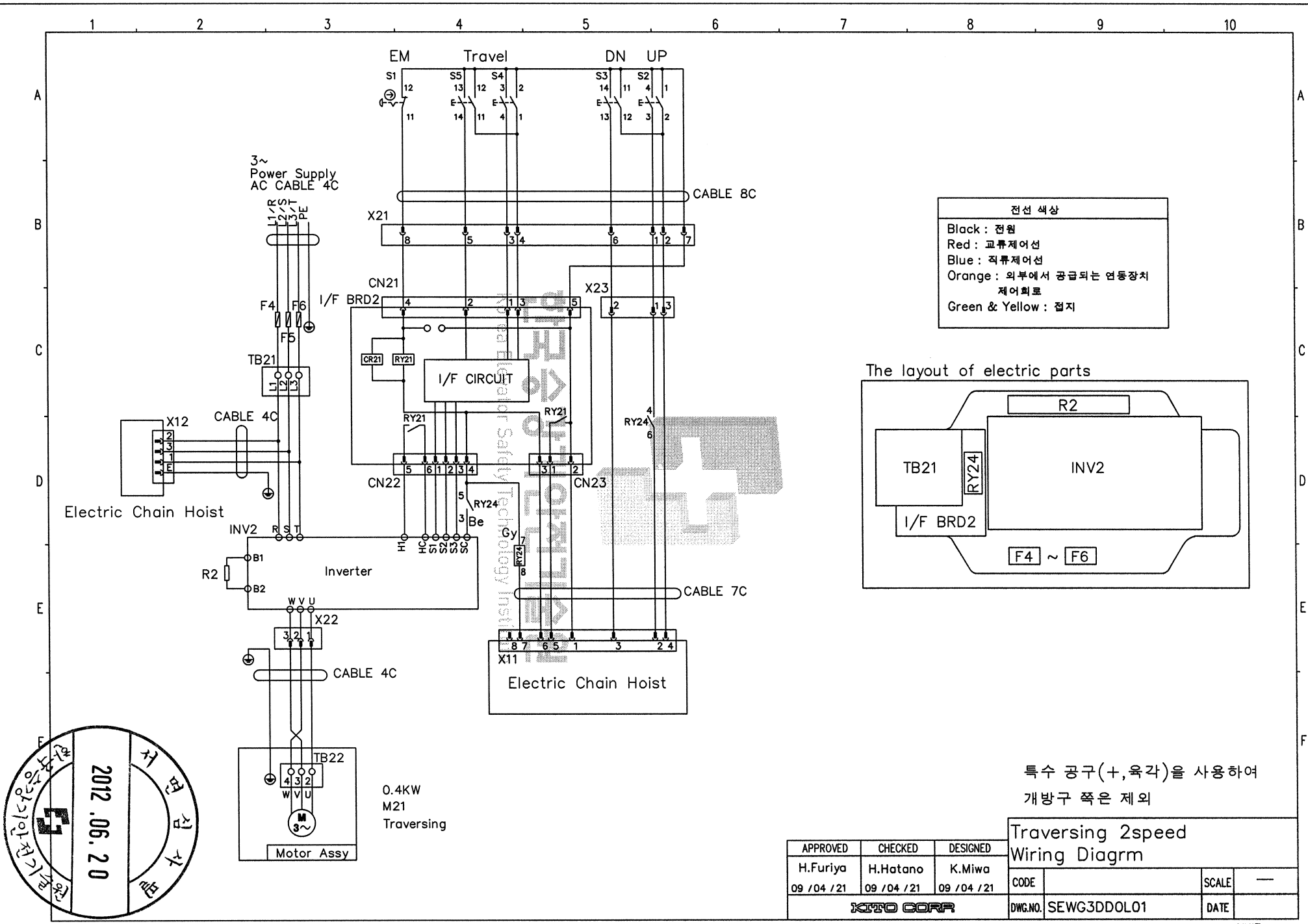
특수 공구(+,육각)을 사용하여
개방구 쪽은 제외

APPROVED	CHECKED	DESIGNED
H.Furiya	H.Hatano	K.Miwa
09 /04 /21	09 /04 /21	09 /04 /21
KITO CORP		

Traversing 1speed
Wiring Diagrm

CODE		SCALE	—
DWG.NO.	SEWG3DD0L01	DATE	

UNIT : mm

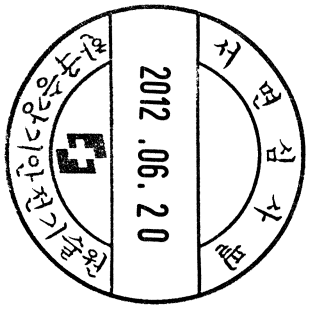

EM
Travel
DN
UP
S1
S5
S4
S3
S2
CABLE 8C
X21
3~
Power Supply
AC CABLE 4C
L1/R
L2/S
L3/T
PE
F4
F6
F5
I/F BRD2
CN21
X23
TB21
CR21
RY21
I/F CIRCUIT
X12
CABLE 4C
Electric Chain Hoist
INV2
R S T
CN22
CN23
RY24
Be
Gy
H1
HC
S1
S2
S3
SC
B1
B2
R2
Inverter
W V U
X22
CABLE 4C
TB22
M
3~
Motor Assy
0.4KW
M21
Traversing
CABLE 7C
X11
Electric Chain Hoist
전선 색상
Black : 전원
Red : 교류제어선
Blue : 직류제어선
Orange : 외부에서 공급되는 연동장치 제어회로
Green & Yellow : 접지
The layout of electric parts
R2
TB21
RY24
INV2
I/F BRD2
F4 ~ F6
특수 공구(+,육각)을 사용하여
개방구 쪽은 제외
APPROVED
CHECKED
DESIGNED
H.Furiya
09 /04 /21
H.Hatano
09 /04 /21
K.Miwa
09 /04 /21
KITO CORP
Traversing 2speed
Wiring Diagrm
CODE
SCALE
—
DWG.NO.
SEWG3DD0L01
DATE
UNIT : mm
2012 .06. 20

CABLE 구성도 및 사양 – 권상 용량 1.8kW

CABLE SPECIFICATION FOR ER2M

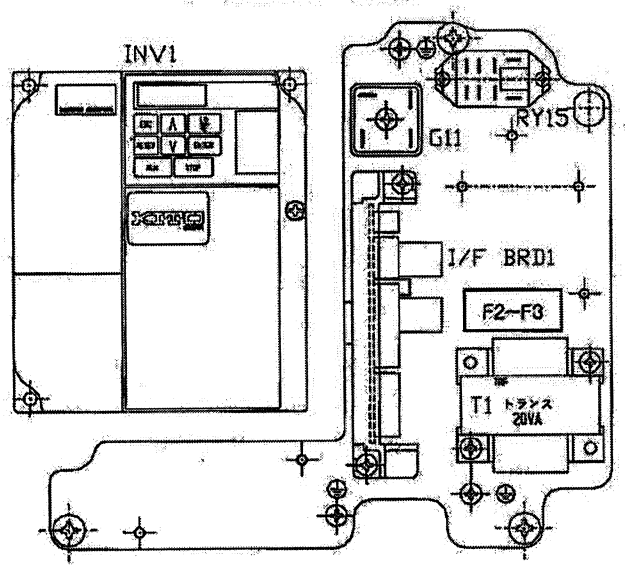
NO	ITEM	TYPE	ER2M20
			SIZE
①	Power Line	VCT	3.5sq x 4C
②	Push Button Switch	VCT	1.25sq x 8C
③	Loas Limit	VCT	0.75sq x 8C
④	Power Line for ER	VCT	2sq x 4C
⑤	Control Line for ER	VCT	1.25sq x 6C
⑥	Traversing Motor With Earth	VCT	1.25sq x 4C

(3Φ 220(208)V / 380V / 440V 60Hz)

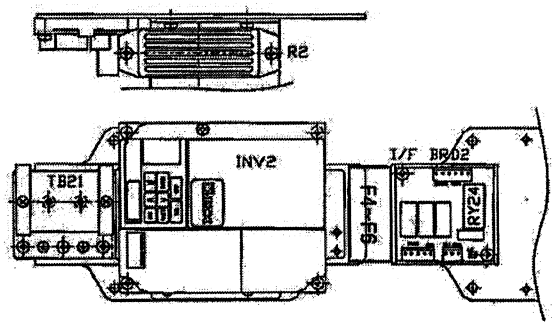


. 호이스트 CONTROL BOX 배치도

HOISTING CONTROL BOX

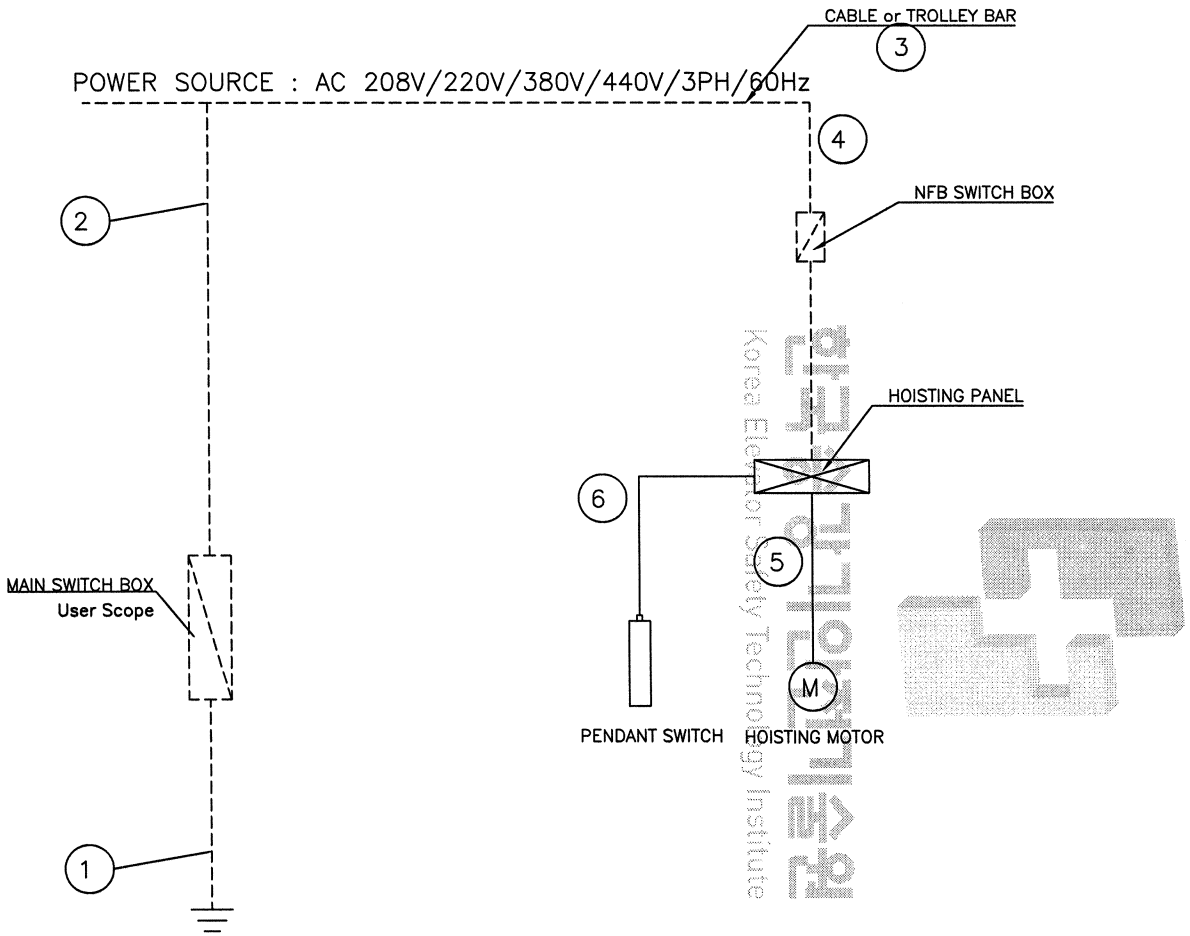


TRAVERSING CONTROL BOX



ENCLOSURE : HOIST BODY – IP55
PUSH BUTTON – IP65

MARK	DESCRIPTION	TYPE OF MODEL			Q'TY	MAKER	REMARKS
		220V	380V	440V			
INV1	INVERTER	V1000	V1000	V1000	1	YASKAWA	UP/DOWN
T1	TRANSFORMER	220V/ 24V(110V) 20VA	380V/ 24V(110V) 20VA	440V/24V(110V) 20VA	1	KITO	CONTROL CIRCUIT
G11	BRIDGE DIODE	S15VB60	S15VB60	S15VB60	1	SHINDENGEN	
I/F BRD1	INTERFACE BOARD	10~15A	10~15A	10~15A	1	KITO	
F2~F3	GLASS FUSE	10A	10A	10A	2	FUJI	
F4~F6	GLASS FUSE	30A	30A	30A	3	FUJI	
RY15	RELAY	110V	110V	110V	1	OMRON	HIGH/LOW
INV2	INVERTER	V1000	V1000	V1000	1	YASKAWA	RIGHT/LEFT
I/F BRD2	INTERFACE BOARD	10~15A	10~15A	10~15A	1	KITO	
RY24	RELAY	110V	110V	110V	1	OMRON	EMERGENCY STOP
TB21	TERMINAL BOARD 21	10~15A	10~15A	10~15A	1	KITO	



접지설비 시공방법

1. 전동기의 외함, 제어반 등은 접지를 해야 하며 그 접지저항은 다음의 규정을 따른다

접지공사		
3종 접지공사	400V 이하	100Ω이하
특3종 접지공사	400V 이상	10Ω이하

단,방폭지역은 전압관계없이 10Ω 이하일것

2. 접지전용 Trolley Duct 및 전선은 당해 전기기기, 기구에 대하여 충분한 용량과 전기적,기계적인 강도를 가져야 함.
3. 접지선이 외상을 받을 우려가 있는 경우는 전선관, 합성수지관 등과 함께 사용한다
4. 접지공사는 지표면에서 최저 75cm이상의 깊이에 접지봉을 박고 접지봉에는 접지동판을 연결한다.

CABLE 종류 및 굵기

NO	FROM	CABLE SPEC.	Earth Cable
1	Main Earth Line	VCT 4SQx1C	User Scope(1Core)
2	Main Power Sorce	VCT 6SQ x 4C	User Scope(1Core)
3	Trolley bar or Festoon cable	60A x 4P	User Scope(1Core)
4	Main Power Sorce	VCT 6SQ x 4C	User Scope(1Core)
5	Hoist Motor	VCT 3.5SQ x 4C	(G-1Core)
6	Push Button Switch	VCT 1.25SQ x 8C	(G-1Core)
7			
8			

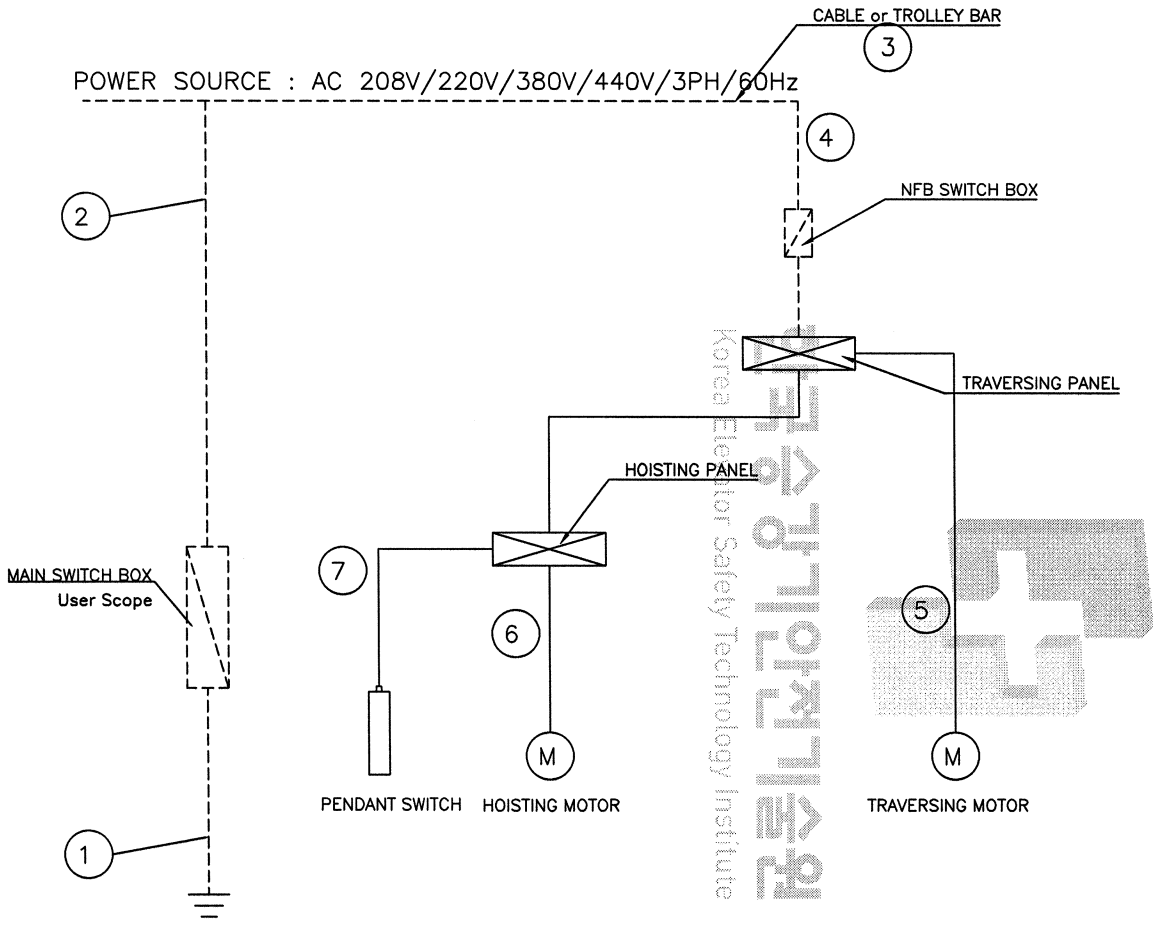
REV.	QTY	CONTENTS	DATE	DRAWN	APPROVED

APPROVED	CHECKED	DESIGNED	DRAWN
M.Fukasawa	I.Iinuma	A.Shimura	---
11.07.20	11.07.20	11.07.20	

KITO CORPORATION

TITLE: 2t MOTORIZED-2점식 케이블 구성도 및 접지계통도

MDL.	942513	SCALE	NOT
DWG. NO.	3NNU942513	REV.	0



접지설비 시공방법

1. 전동기의 외함, 제어반 등은 접지를 해야 하며 그 접지저항은 다음의 규정을 따른다

접지공사		
3종 접지공사	400V 이하	100Ω이하
특3종 접지공사	400V 이상	10Ω이하

단,방폭지역은 전압관계없이 10Ω 이하일것

2. 접지전용 Trolley Duct 및 전선은 당해 전기기기, 기구에 대하여 충분한 용량과 전기적,기계적인 강도를 가져야 함.
3. 접지선이 외상을 받을 우려가 있는 경우는 전선관, 합성수지관 등과 함께 사용한다
4. 접지공사는 지표면에서 최저 75cm이상의 깊이에 접지봉을 박고 접지봉에는 접지동판을 연결한다.

CABLE 종류 및 굵기

NO	FROM	CABLE SPEC.	Earth Cable
1	Main Earth Line	VCT 4SQx1C	User Scope(1Core)
2	Main Power Sorce	VCT 6SQ x 4C	User Scope(1Core)
3	Trolley bar or Festoon cable	60A x 4P	User Scope(1Core)
4	Main Power Sorce	VCT 6SQ x 4C	User Scope(1Core)
5	Traversing Motor	VCT 1.25SQ x 6C	(G-1Core)
6	Hoist Motor	VCT 3.5SQ x 4C	(G-1Core)
7	Push Button Switch	VCT 1.25SQ x 8C	(G-1Core)
8			

REV.	QTY	CONTENTS	DATE	DRAWN	APPROVED

APPROVED	CHECKED	DESIGNED	DRAWN
M.Fukasawa 11.07.20	I.Iinuma 11.07.20	A.Shimura 11.07.20	---

KITO CORPORATION

TITLE: 2t MOTORIZED－4점식 케이블 구성도 및 접지계통도

MDL.	942513	SCALE	NOT
DWG. NO.	3NNU942513	REV.	0

様式 025G-05 UNIT : mm

KITO CORPORATION

Date: 2009/04/14

Certificate of Compliance

We certify that the ER2 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".

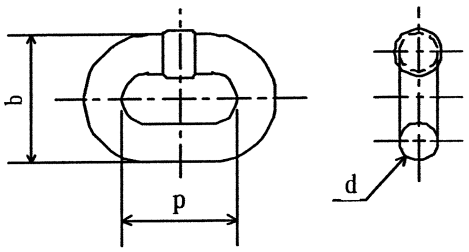
Technical Control Group

Certificate No.: FK070214
Date of Issue: 2008.03.21

Test Certificate

Messrs.

Commodity: NC Load Chain
C o d e : KER102
Lot No. : —
Quantity: — line(s)



1. Material: Manganese Alloy Steel

2. Dimensions

	d	p	b
Specified	10.2mm ±0.4	28.4mm $^{+0.56}_{0}$	Max. 35.7mm
Result	Good	Good	Good

3. Breaking test

	Breaking load	Total ultimate elongation
Specified	Min. 131 (kN)	Min. 10 (%)
Result	Good	Good

4. Manufacturing Proof force test (Test load: 81.7 kN)

	Permanent elongation
Specified	0.25 (%)
Result	Good

General judgment: Satisfactory

KITO CORP.
2000 Tsuijiarai, Showa-cho,
Nakakoma-gun, Yamanashi, JAPAN

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division
K. Kishimoto (Manager)

Certificate No.: MM080011e

Date of Issue: 2009/3/4

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	1.8kW	4P	60%ED	220V	60Hz

Full load characteristics

Voltage Frequency		220V 60Hz
Load	%	100
Current	A	8.4
Speed	rpm	1620

Insulation class E

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

KITO CORP.
2000 Tsuijiarai, Showa-cho,
Nakakoma-gun, Yamanashi, JAPAN

Quality Assurance Group
Quality Assurance Department
Development & Technology Division
M. Ogihara (Manager)

Certificate No.: MM080011f

Date of Issue: 2009/3/4

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	1.8kW	4P	40/20%ED	220V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		220V Speed Control by Inverter
Load	%	100
Current	A	11.2
Speed	rpm	~

Insulation class E

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

Certificate No.: MM070011e

Date of Issue: 2008/03/21

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. :

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	1.8kW	4P	60%ED	380 - 440V	60Hz

Full load characteristics

Voltage Frequency		380 - 440V 60Hz
Load	%	100
Current	A	4.6
Speed	rpm	1610

Insulation class B

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division
(Manager)

K. Kishimoto

Certificate No.: MM070011f

Date of Issue: 2008/03/21

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. :

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	1.8kW	4P	60%ED	380 - 440V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		380 - 440V Speed Control by Inverter
Load	%	100
Current	A	5.1
Speed	rpm	~

Insulation class B

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division
(Manager)

K. Kishimoto

Certificate No.: MM080011g

Date of Issue: 2009/3/4

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	3.5kW	4P	60%ED	220V	60Hz

Full load characteristics

Voltage Frequency		220V 60Hz
Load	%	100
Current	A	16.9
Speed	rpm	1670

Insulation class E

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

KITO CORP.
2000 Tsuijiarai, Showa-cho,
Nakakoma-gun, Yamanashi, JAPAN

Quality Assurance Group
Quality Assurance Department
Development & Technology Division
M. Ogihara (Manager)

Certificate No.: MM080011h

Date of Issue: 2009/3/4

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	3.5kW	4P	40/20%ED	220V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		220V Speed Control by Inverter
Load	%	100
Current	A	18.7
Speed	rpm	~

Insulation class E

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

Certificate No.: MM070011g

Date of Issue: 2008/03/21

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. :

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	3.5kW	4P	60%ED	380 - 440V	60Hz

Full load characteristics

Voltage Frequency		380 - 440V 60Hz
Load	%	100
Current	A	8.7
Speed	rpm	1650

Insulation class B

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division
(Manager)

K. Kishimoto

Certificate No.: MM070011h

Date of Issue: 2008/03/21

Messrs._____

Motor Test Report for Electric Chain Hoist

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. :

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ	3.5kW	4P	60%ED	380 - 440V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		380 - 440V Speed Control by Inverter
Load	%	100
Current	A	9.2
Speed	rpm	~

Insulation class B

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division
(Manager)

K. Kishimoto

Certificate No.: MM080012a

Date of Issue: 2009/3/4

Messrs._____

Motor Test Report for Electric Trolley

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ-T	0.4kW	4P	40%ED	220V	60Hz

Full load characteristics

Voltage Frequency		220V 60Hz
Load	%	100
Current	A	3.0
Speed	rpm	1685

Insulation class E

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

KITO CORP.
2000 Tsuijiarai, Showa-cho,
Nakakoma-gun, Yamanashi, JAPAN

Quality Assurance Group
Quality Assurance Department
Development & Technology Division
M. Ogihara (Manager)

Certificate No.: MM080012b

Date of Issue: 2009/3/4

Messrs. _____

Motor Test Report for Electric Trolley

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. : -

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ-T	0.4kW	4P	27/13%ED	220V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		220V Speed Control by Inverter
Load	%	100
Current	A	3.0
Speed	rpm	~

Insulation class E

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

Certificate No.: MM070013a

Date of Issue: 2008/03/21

Messrs._____

Motor Test Report for End Carriage

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. :

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ-T	0.4kW	4P	40%ED	380 - 440V	60Hz

Full load characteristics

Voltage Frequency		380 - 440V 60Hz
Load	%	100
Current	A	2.2
Speed	rpm	1670

Insulation class B

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

KITO CORP.

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

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division

(Manager)

K. Kishimoto

Certificate No.: MM070013b

Date of Issue: 2008/03/21

Messrs._____

Motor Test Report for End Carriage

Motor type : Three phase squirrel cage type induction motor.

Manufacturer : Yasukawa Electric Mfg. Co.

Production No. :

Rating

Model	Output	Pole	Intermittent Rating	Voltage	Frequency
IBQ-T	0.4kW	4P	40%ED	380 - 440V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		220 – 230V Speed Control by Inverter
Load	%	100
Current	A	2.5
Speed	rpm	～

Insulation class B

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

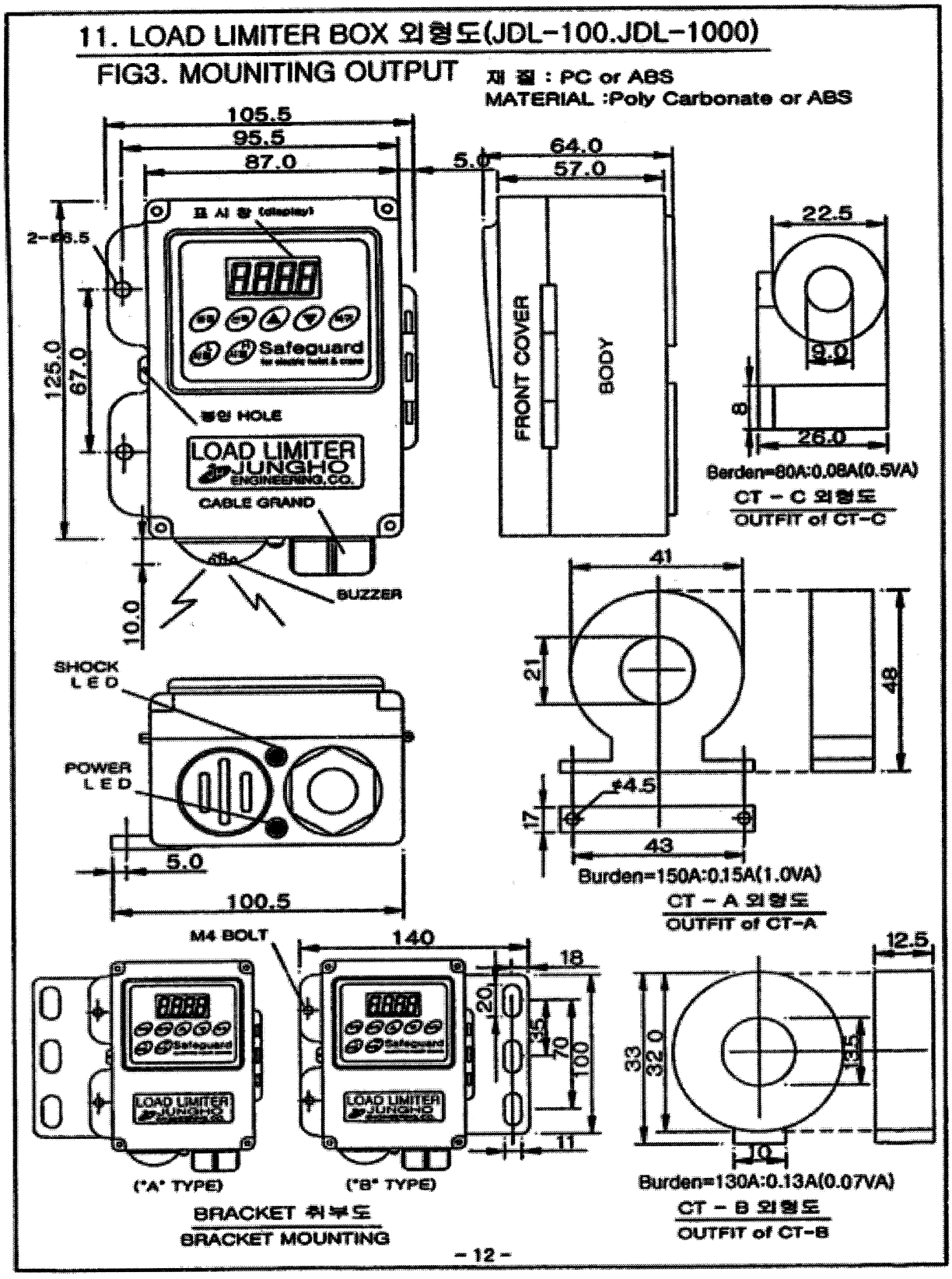
KITO CORP.

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

Quality Assurance Group
Quality Assurance Depertment
Development & Technology Division
(Manager)

K. Kishimoto

1) 과부하 방지장치


11. LOAD LIMITER BOX 외형도(JDL-100.JDL-1000)
FIG3. MOUNITING OUTPUT
재 질 : PC or ABS
MATERIAL :Poly Carbonate or ABS
105.5
95.5
87.0
5.0
64.0
57.0
표 시 창 (display)
2-φ6.5
125.0
67.0
Safeguard
통신 HOLE
LOAD LIMITER
JUNGHO ENGINEERING,CO.
CABLE GRAND
BUZZER
10.0
FRONT COVER
BODY
22.5
9.0
8
26.0
Berden=60A:0.08A(0.5VA)
CT - C 외형도
OUTFIT of CT-C
SHOCK LED
POWER LED
5.0
100.5
41
21
48
φ4.5
17
43
Burden=150A:0.15A(1.0VA)
CT - A 외형도
OUTFIT of CT-A
M4 BOLT
140
18
20
35
70
100
11
("A" TYPE)
("B" TYPE)
BRACKET 취부도
BRACKET MOUNTING
12.5
33
32.0
35
10
Burden=130A:0.13A(0.07VA)
CT - B 외형도
OUTFIT of CT-B
- 12 -