■ 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-ER2-010	용량(등급)	1 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) 최창일

오 태 화 (서명) 오태화

한국승강기안전기술원 이사장

■ 산업안전보건법 시행규칙 [별지 제10호의 6서식]

제 CA-2012-0027 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-ER2-010(1 ton)

인증번호 : 12-CA4AC-0027

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	2012.05.10	인증번호

형식 및 모델번호		동일형식 항목 및 내역			
형식번호	모델번호	동일형식 항목1	동일형식 항목2	동일형식 항목3	동일형식 항목4
KMS-ER2-010	KITO-ER2-010S	Lift max 30m	권상모타 1.8kW	횡행모타 없음	Trolley고정형
	KITO-ER2-010IS				
	KITO-ER2SP010S		권상모타 1.8kW		Trolley 있음
	KITO-ER2SP010IS				
	KITO-ER2SG010S		권상모타 1.8kW		Trolley + 수동체인
	KITO-ER2SG010IS				
	KITO-ER2M010S-S		권상모타 1.8kW	횡행모터 0.4kW .S : 24m/min .L: 12m/min .IS:24/4m/min .IL:12/2m/min	전기Trolley 결합 type
	KITO-ER2M010S-L				
	KITO-ER2M010S-IS				
	KITO-ER2M010S-IL				
	KITO-ER2M010IS-S		권상모타 1.8kW		
	KITO-ER2M010IS-L				
	KITO-ER2M010IS-IS				
	KITO-ER2M010IS-IL				
	KITO-C-ER2M010S-S		권상모타 1.8kW		전기Trolley 결합 Clean type
	KITO-C-ER2M010S-L				
	KITO-C-ER2M010S-IS				
	KITO-C-ER2M010S-IL				
	KITO-C-ER2M010IS-S		권상모타 1.8kW		
	KITO-C-ER2M010IS-L				
	KITO-C-ER2M010IS-IS				
	KITO-C-ER2M010IS-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)

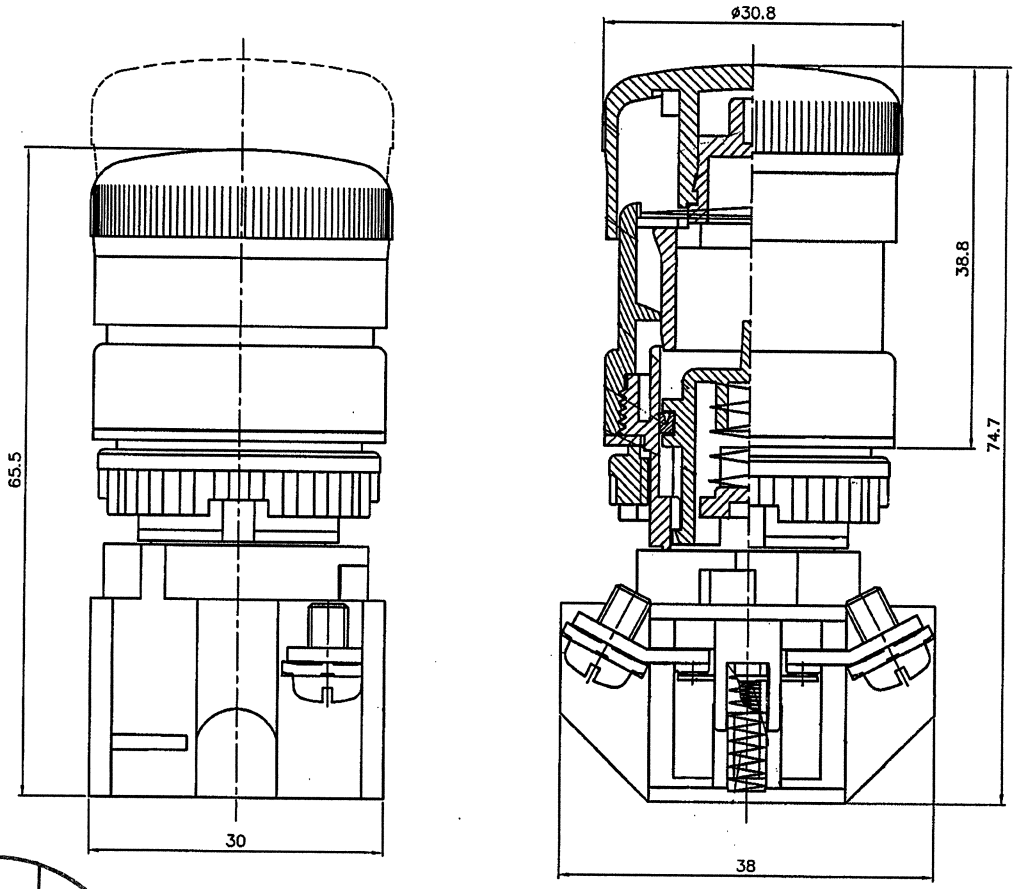
인 증 조 건

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			

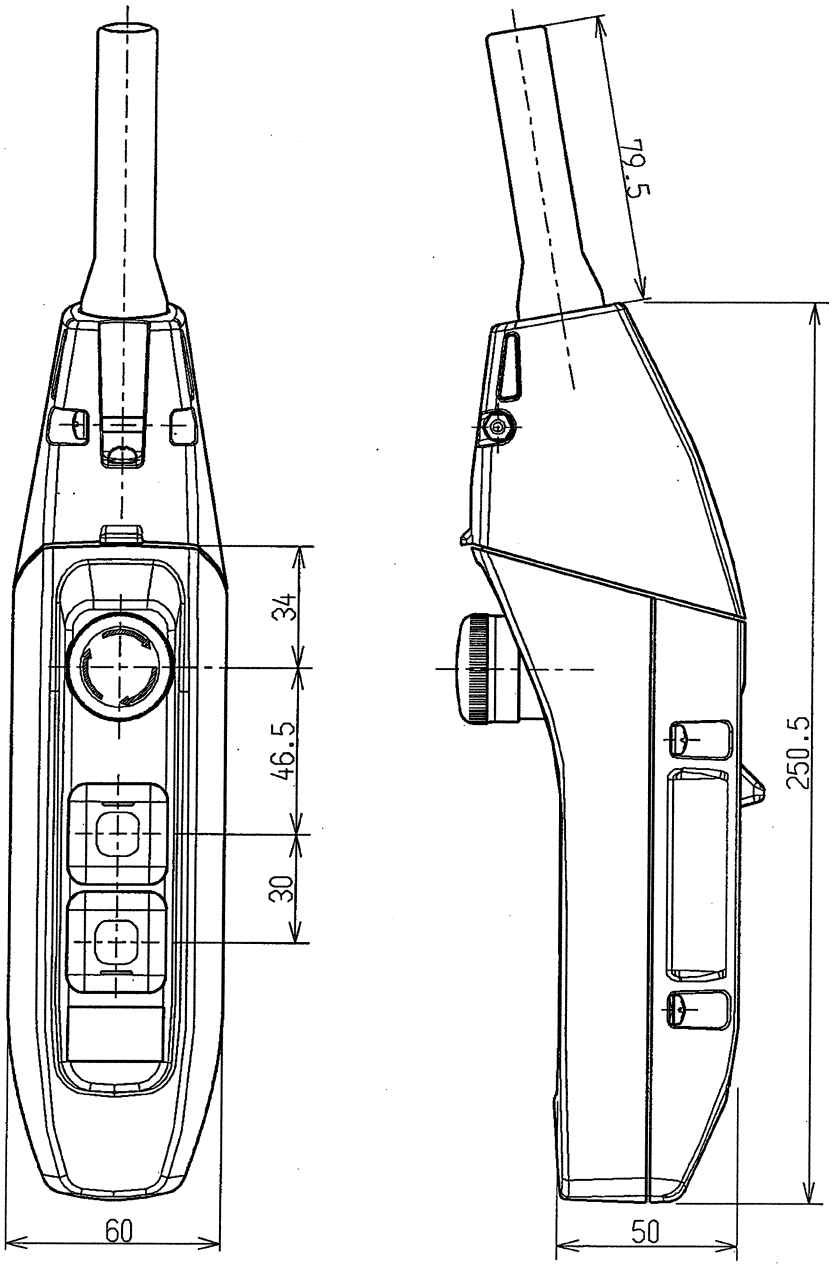
順序：A

2012.06

2/T2/BKH/T2-BKH.dwg

15/207

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.	SWD2X0[illegible]

NOTE

MATERIAL

NOS./UNIT

CODE

NAME 3point Pendant Construction MX subassembly

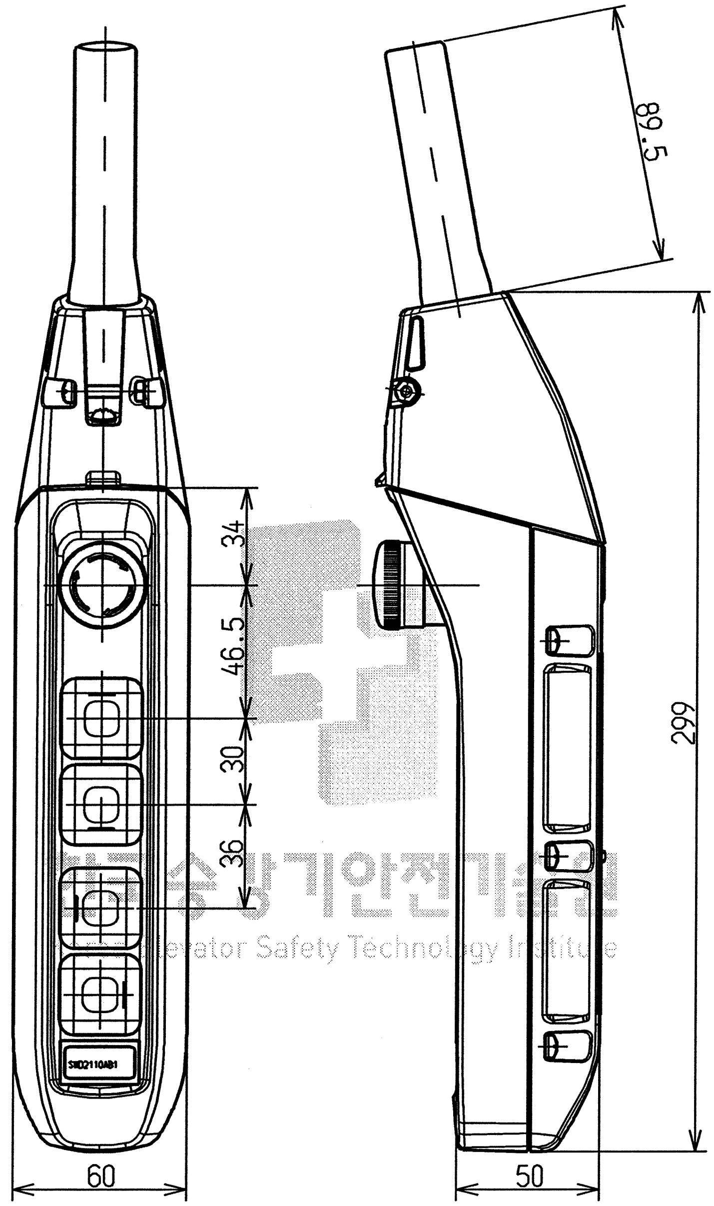
Date issued

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: -

NOTE

MATERIAL

NOS./UNIT

CODE

NAME: 5point pendant control station MXX subassembly

DWG.NO. SWD2XX0AA1

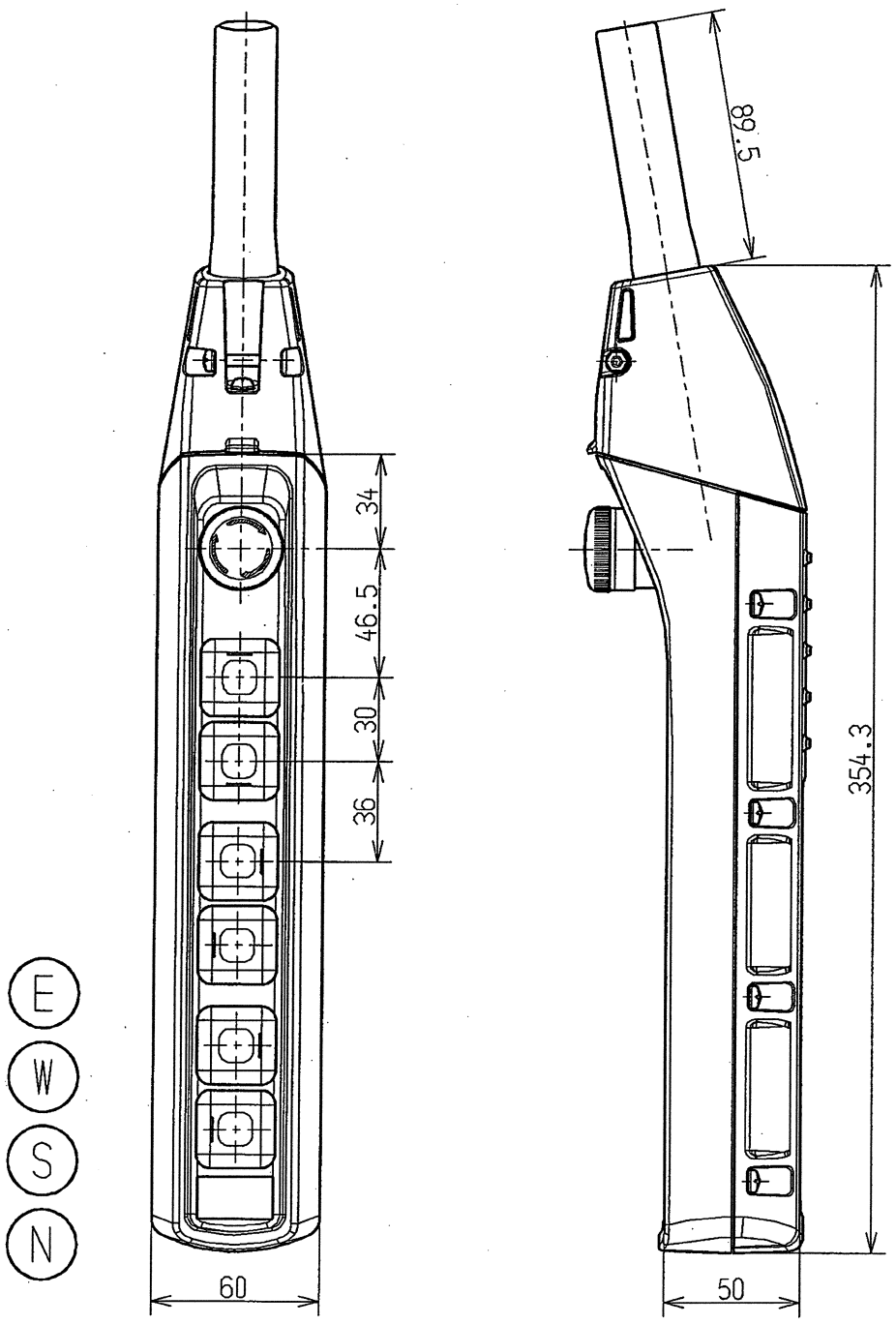
Date issued

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.	SWD2XXXXA1

NOTE

MATERIAL

NOS./UNIT

CODE

NAME control station subassembly MXXX

Date issued

KITO CORPORATION

UNIT: mm

2012.06.28.

형식번호:KMS-ER2-010

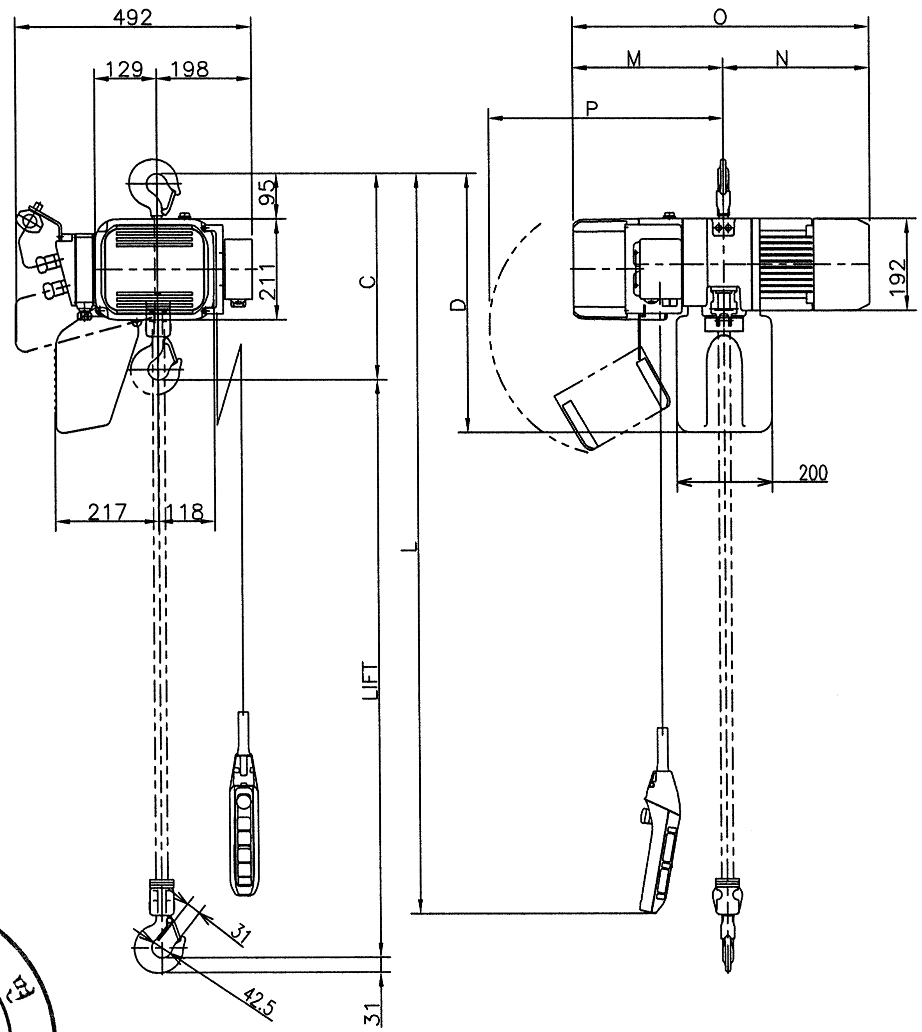
Model number.

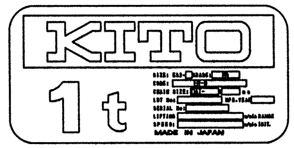
KITO-ER2-010S

KITO-ER2-010IS

Dimensions	M	N	O	P
1속 고속	291	307	598	444
2속 고속	316	307	623	493

諸元表 Particulars			
基本本体 Size			ER2-D
定格荷重 Nominal Capacity			1t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø7.7 x 1
レール下面よりフックまでの最小距離 : C Min. Headroom			470mm
相数・電圧 Phase・Voltage			3ø 220(208)V 60Hz 380,440V 60Hz
Motor Output Duty Rating Classification	巻上モータ for Lifting	IS	1.8kW x 4P
		S	1.8kW x 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS	8.2/1.4 m/min
	1속형 고속	S	8.5 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			550mm(max 1000)
適用レール巾 : B Flange Width			58~127mm
トロリ最大巾 : G Max. Dimension of Trolley Width			249mm
質量 Mass			約 46kg
塗装色 Painting Color			マンセル 7.5YR7/14 Munsell 7.5YR7/14





Name Plate For Chain Hoist

형식번호:KMS-ER2-010

*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

株式会社 キトー KITO CORP

名称 TITLE	1t ER2 SERIES ELECTRIC CHAIN HOIST STANDARD
製造番号 CODE	ER2
図番 DWG.NO.	KMS-ER2-010-001
尺度 SCALE	
変更回数 REV.	

様式 025P-19 三角法 単位 : mm

형식번호:KMS-ER2-010

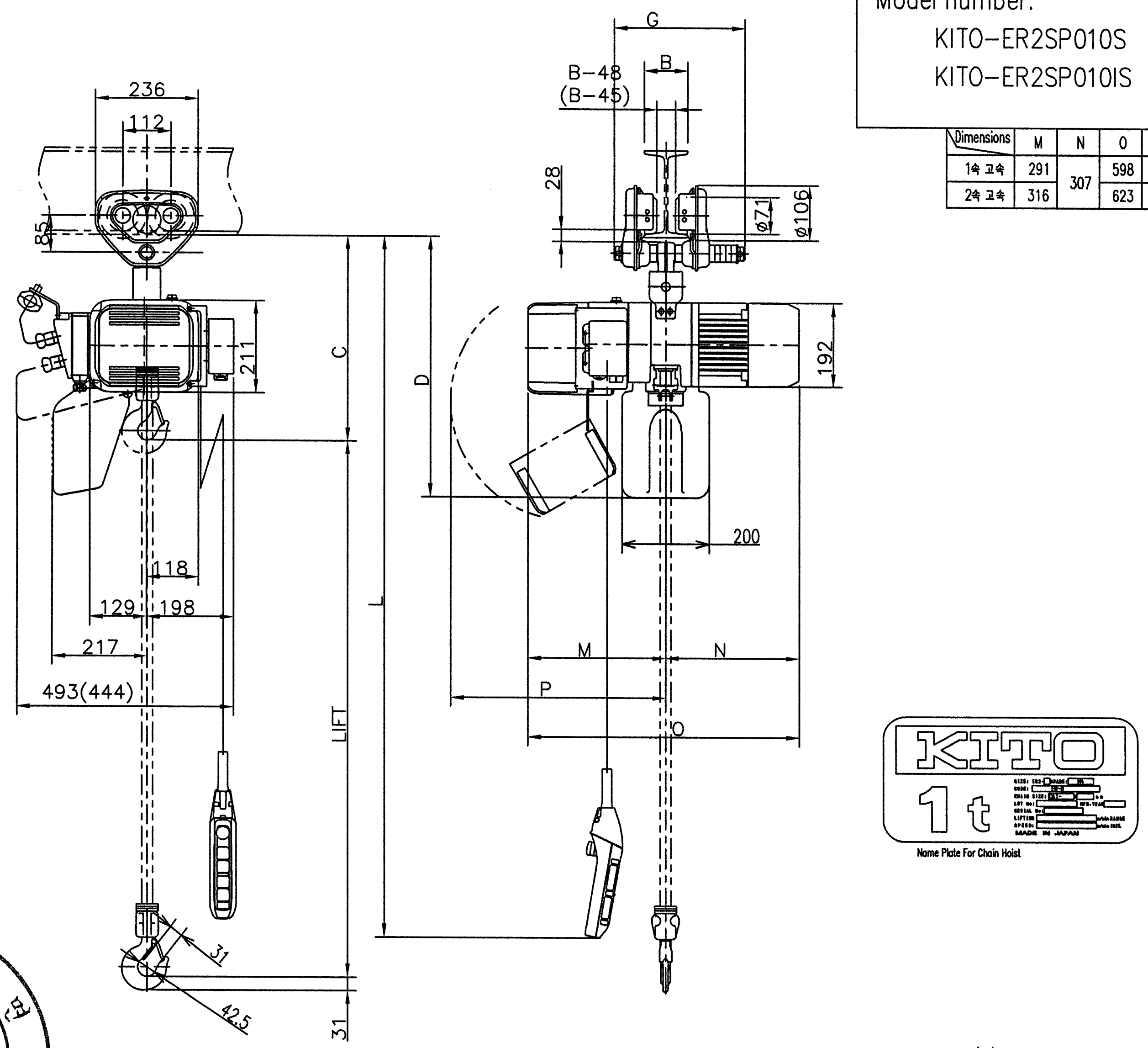
Model number.

KITO-ER2SP010S

KITO-ER2SP010IS

Dimensions	M	N	O	P
1속 고속	291	307	598	444
2속 고속	316		623	493

諸元表 Particulars		
基本本体 Size		ER2-D
定格荷重 Nominal Capacity		1t
揚程 Lift		3m(max 30m)
チェーンサイズ Chain size		ø7.7 x 1
レール下面よりフックまでの最小距離 : C Min. Headroom		470mm
相数・電圧 Phase・Voltage		3ø 220(208)V 60Hz 380,440V 60Hz
Motor Output Duty Rating Classification 巻上モータ for Lifting	IS	1.8kW x 4P
	S	1.8kW x 4P
巻上速度 Lifting Speed 2속형(인버터 적용)	IS	8.2/1.4 m/min
1속형 고속	S	8.5 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		590mm(max 1000)
適用レール巾 : B Flange Width		58~127mm
トロリ最大巾 : G Max. Dimension of Trolley Width		249mm
質量 Mass		約 54kg
塗装色 Painting Color		マンセル 7.5YR7/14 Munsell 7.5YR7/14
Min. Radius Curve		1300 mm



형식번호:KMS-ER2-010

*자바라는 옵션 사양임

( )치수는 1속형임

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

株式会社 キトー KITO CORP

名称 TITLE	1t ER2 SERIES ELECTRIC CHAIN HOIST WITH PLAN TROLLEY		
製造番号 CODE	ER2-SP	尺度 SCALE	
図番 DWG.NO.	KMS-ER2-010-002	変更回数 REV.	

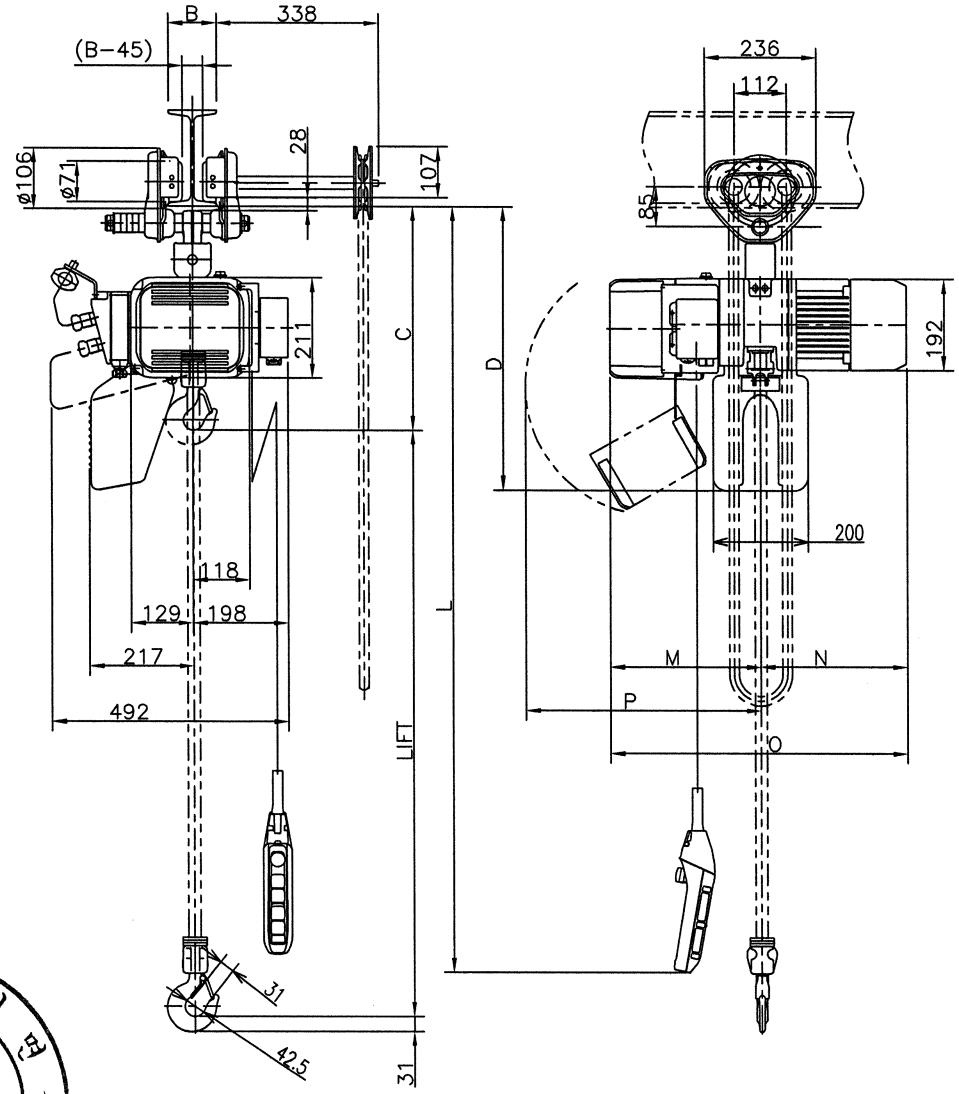
様式 025P-19　　三角法 単位 : mm

형식번호: KMS-ER2-010

Model number.

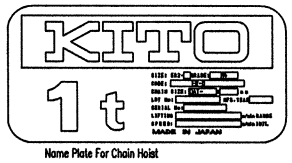
KITO-ER2SG010S

KITO-ER2SG010IS



Dimensions	M	N	O	P
1속 고속	291	307	598	444
2속 고속	316		623	493

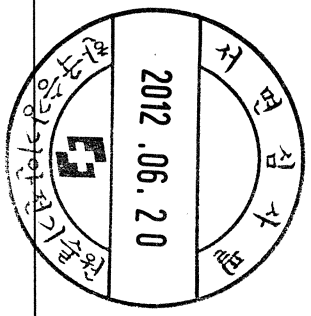
諸元表 Particulars			
基本本体 Size			ER2-D
定格荷重 Nominal Capacity			1t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø7.7 x 1
レール下面よりフックまでの最小距離 : C Min. Headroom			470mm
相数・電圧 Phase・Voltage			3ø 220(208)V 60Hz 380,440V 60Hz
Motor Output Duty Rating Classification	巻上モータ for Lifting	IS	1.8kW x 4P
		S	1.8kW x 4P
巻上速度 Lifting Speed	2속형(인버터 적용)	IS	8.2/1.4 m/min
	1속형 고속	S	8.5 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			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			550mm(max 1000)
適用レール巾 : B Flange Width			58~153mm
トロリ最大巾 : G Max. Dimension of Trolley Width			587mm
質量 Mass			約 58kg
塗装色 Painting Color			マンセル 7.5YR7/14 Munsell 7.5YR7/14



Name Plate For Chain Hoist

형식번호:KMS-ER2-010

*자바리는 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

株式会社キトー KITO CORP

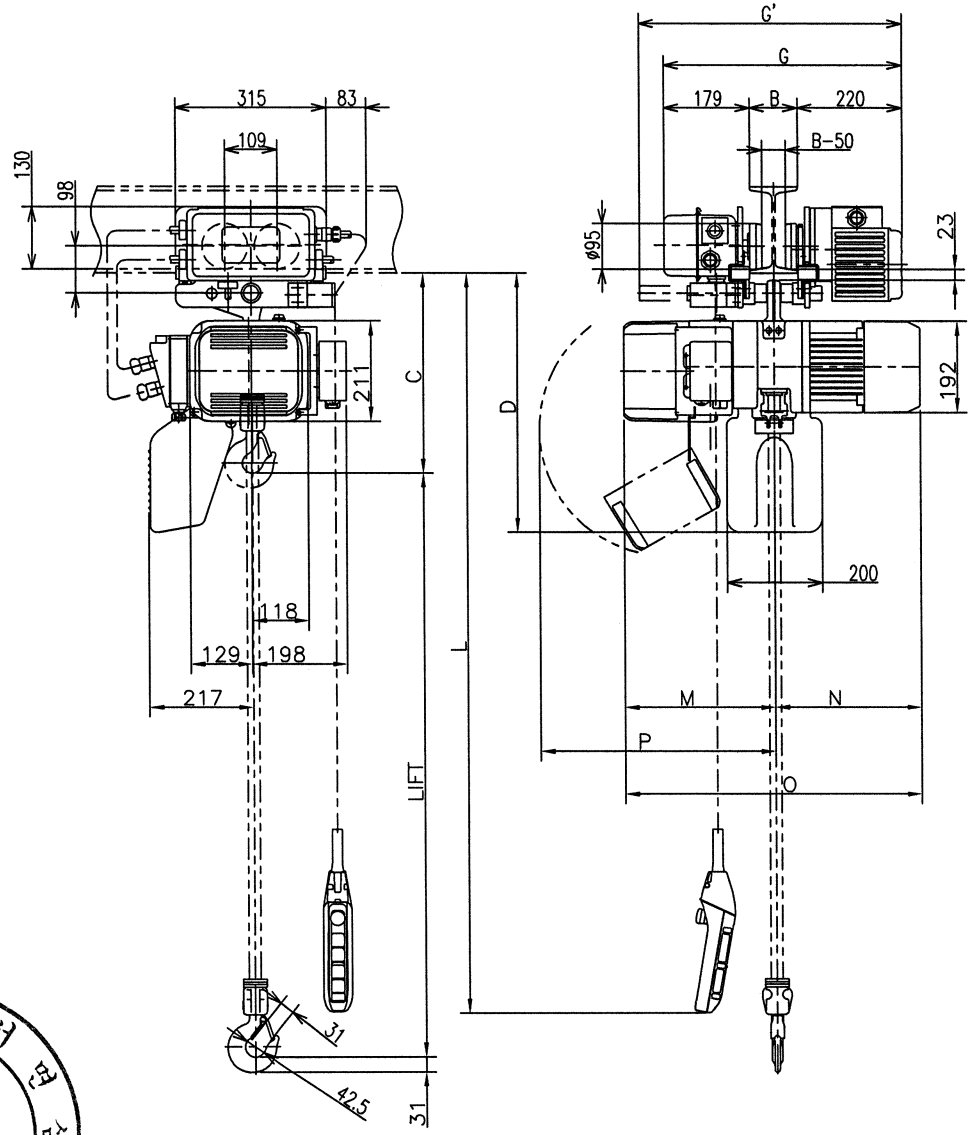
名称 TITLE: 1t ER2 SERIES ELECTRIC CHAIN HOIST WITH GEAR TROLLEY

製造番号 CODE	ER2-SG	尺度 SCALE	
図番 DWG.NO.	KMS-ER2-010-003	変更回数 REV.	

様式 025P-19

三角法 単位 : mm

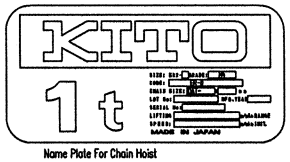
Ⓣ 1



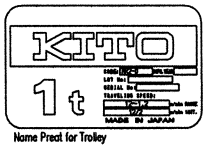
형식번호:KMS-ER2-010
Model number.
KITO-ER2M010S-S
KITO-ER2M010S-L
KITO-ER2M010S-IS
KITO-ER2M010S-IL
KITO-ER2M010IS-S
KITO-ER2M010IS-L
KITO-ER2M010IS-IS
KITO-ER2M010IS-IL

Dimensions	M	N	O	P
1속 고속	291	307	598	444
2속 고속	316		623	493

諸元表 Particulars			
基本本体 Size			ER2-D
定格荷重 Nominal Capacity			1t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø7.7 x 1
レール下面より フックまでの最小距離 : C Min. Headroom			435mm
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	1.8kW x 4P
		S	1.8kW 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	8.5 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			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			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			550mm(max 1000)
適用レール巾 : B Flange Width			58~153mm
トロリ最大巾 : G Max. Dimension of Trolley Width			587mm
質量 Mass			約 83kg
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

( )첫수는 1속형임

형식번호:KMS-ER2-010
*자바라는 옵션 사양임

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

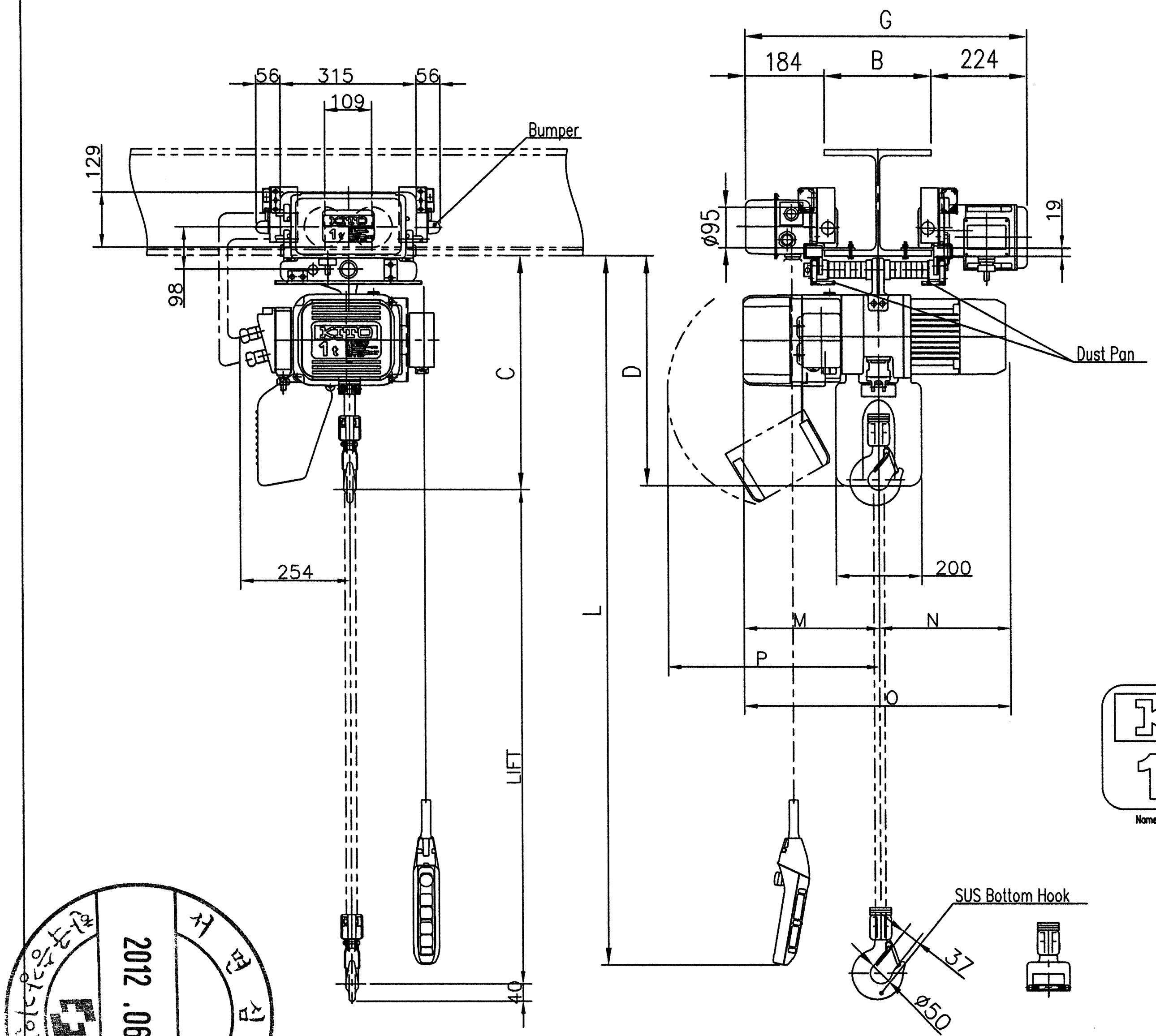
承認 APPROVED	検図 CHECKED	設計 DESIGNED	製図 DRAWN

株式会社 キトー KITO CORP

名称 TITLE	1t ER2M SERIES ELECTRIC CHAIN HOIST WITH MOTORIZED TROLLEY
製造番号 CODE	ER2-M
図番 DWG.NO.	KMS-ER2-010-004
尺度 SCALE	
変更回数 REV.	

様式 025P-19

三角法 単位 : mm



형식번호:KMS-ER2-010

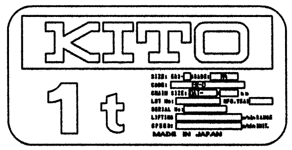
Model number.

KITO-C-ER2M010S-S
KITO-C-ER2M010S-L
KITO-C-ER2M010S-IS
KITO-C-ER2M010S-IL

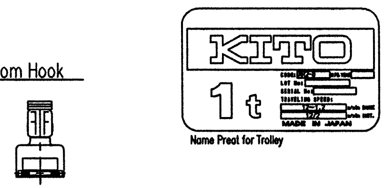
KITO-C-ER2M010IS-S
KITO-C-ER2M010IS-L
KITO-C-ER2M010IS-IS
KITO-C-ER2M010IS-IL

Dimensions	M	N	O	P
1속 고속	291	307	598	444
2속 고속	316		623	493

諸元表 Particulars			
基本本体 Size			ER2-D
定格荷重 Nominal Capacity			1t
揚程 Lift			3m(max 30m)
チェーンサイズ Chain size			ø7.7 x 1
レール下面よりフックまでの最小距離 : C Min. Headroom			545mm
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	1.8kW x 4P
		S	1.8kW 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	8.5 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			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			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			550mm(max 1000)
適用レール巾 : B Flange Width			108~258mm
トロリ最大巾 : G Max. Dimension of Trolley Width			508~658mm
質量 Mass			約 90kg
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-ER2-010
*자바라는 옵션 사양임

( )치수는 1속형임

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

株式会社 キトー KITO CORP

名称 TITLE	1t ER2M SERIES ELECTRIC CHAIN HOIST(CLEAN) WITH MOTORIZED TROLLEY		
製造番号 CODE	ER2S-MC	尺度 SCALE	
図番 DWG.NO.	KMS-ER2-010-005	変更回数 REV.	

様式 025P-19

三角法 単位 : mm

서면심사 2012.06.20 한국승강기안전기술원

LOAD SUMMARY 1 - INVERTER사양(고속)

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	11.2 (A)	3 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 16.2 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 16.2 * 1.25 = 20.25 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	5.1 (A)	2.5 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 9.6 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 9.6 * 1.25 = 12 A

LOAD SUMMARY 2 - INVERTER사양(고속)

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	-	
FULL LOAD CURRENT	11.2 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 13.2 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 13.2 * 1.25 = 16.5 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	-	
FULL LOAD CURRENT	5.1 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 7.1 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 7.1 * 1.25 = 8.875 A

LOAD SUMMARY 3 - INVERTER사양(저속)

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	5.7 (A)	3 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 10.7 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 10.7 * 1.25 = 13.375 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	3.6 (A)	2.5 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 8.1 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 8.1 * 1.25 = 10.125 A

LOAD SUMMARY 4 - INVERTER사양(저속)

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	-	
FULL LOAD CURRENT	5.7 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 7.7 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 7.7 * 1.25 = 9.625 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	-	
FULL LOAD CURRENT	3.6 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 5.6 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 5.6 * 1.25 = 7 A

LOAD SUMMARY 5 – 1속고속형사양

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	8.4 (A)	3 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 13.4 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 13.4 * 1.25 = 16.75 A

***POWER SOURCE : AC 3Φ 380(440)V**

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	4.6 (A)	2.2 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 8.8 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 8.8 * 1.25 = 11 A

LOAD SUMMARY 6 – 1속고속형사양

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	–	
FULL LOAD CURRENT	8.4 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 10.4 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 10.4 * 1.25 = 13 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	1.8KW x 4P	–	
FULL LOAD CURRENT	4.6 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 6.6 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 6.6 * 1.25 = 8.25 A

LOAD SUMMARY 7 – 1속저속형사양

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	4.7 (A)	3 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 9.7 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 9.7 * 1.25 = 12.125 A

***POWER SOURCE : AC 3Φ 380(440)V**

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	2.6 (A)	2.2 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 6.8 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 6.8 * 1.25 = 8.5 A

LOAD SUMMARY 8 – 1속 저속형사양

*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	–	
FULL LOAD CURRENT	4.7 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 6.7 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 6.7 * 1.25 = 8.375 A

*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.9KW x 4P	–	
FULL LOAD CURRENT	2.6 (A)	0 (A)	2 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 4.6 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 4.6 * 1.25 = 5.75 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

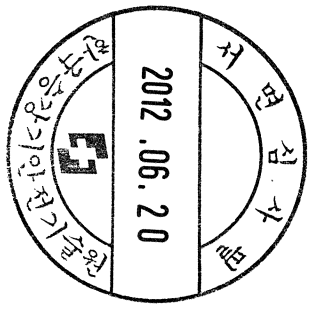
- DISCONNECTOR SWITCH, SINGLE THROW MANUALLY OPERATED
- LOAD BREAK SWITCH, SINGLE THROW MANUALLY OPERATED,
- EARTHING SWITCH, SINGLE THROW MANUALLY OPERATED
- DISCONNECTOR SWITCH, SINGLE THROW MOTOR OPERATED
- EARTHING SWITCH, SINGLE THROW MOTOR OPERATED
- VACUUM CIRCUIT SWITCH
- FUSED DISCONNECTOR SWITCH
- 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

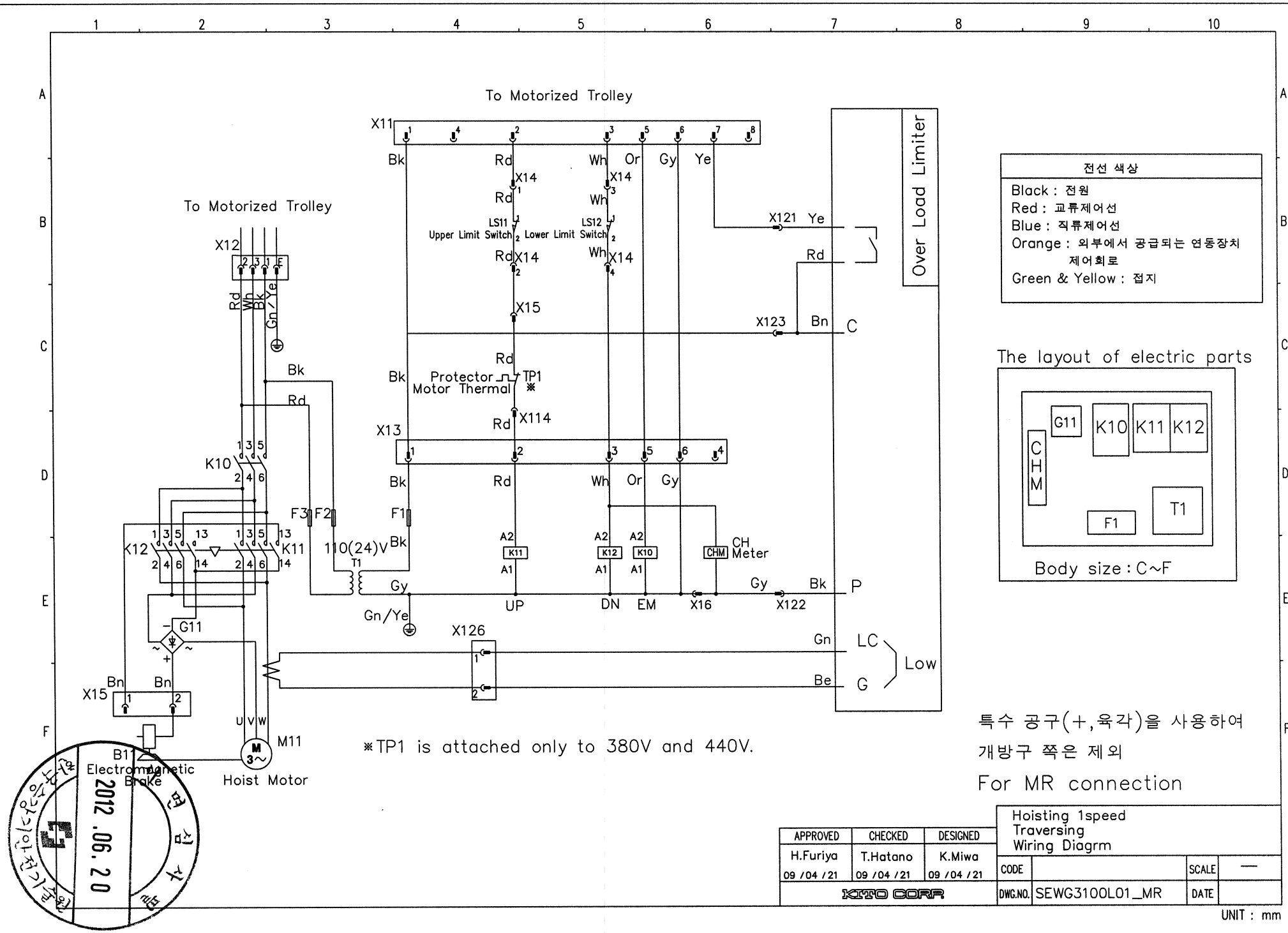
- AUX. CONTACT, NORMALLY OPEN WHEN MAIN SWITCHING DEVICE IS DE-ENERGIZED
- AUX. CONTACT, NORMALLY CLOSED WHEN MAIN SWITCHING DEVICE IS DE-ENERGIZED
- MAGNETIC CONTACTOR, ELECTRICALLY OPERATED
- COMBINATION STARTER, FULL VOLTAGE, NON-REVERSING, DRAWOUT TYPE, WITH ELECTRICALLY OPERATED CONTACTORS, WITH 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 —
XTO 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

Body size : C~F

특수 공구(+,육각)을 사용하여
개방구 쪽은 제외

For MR connection

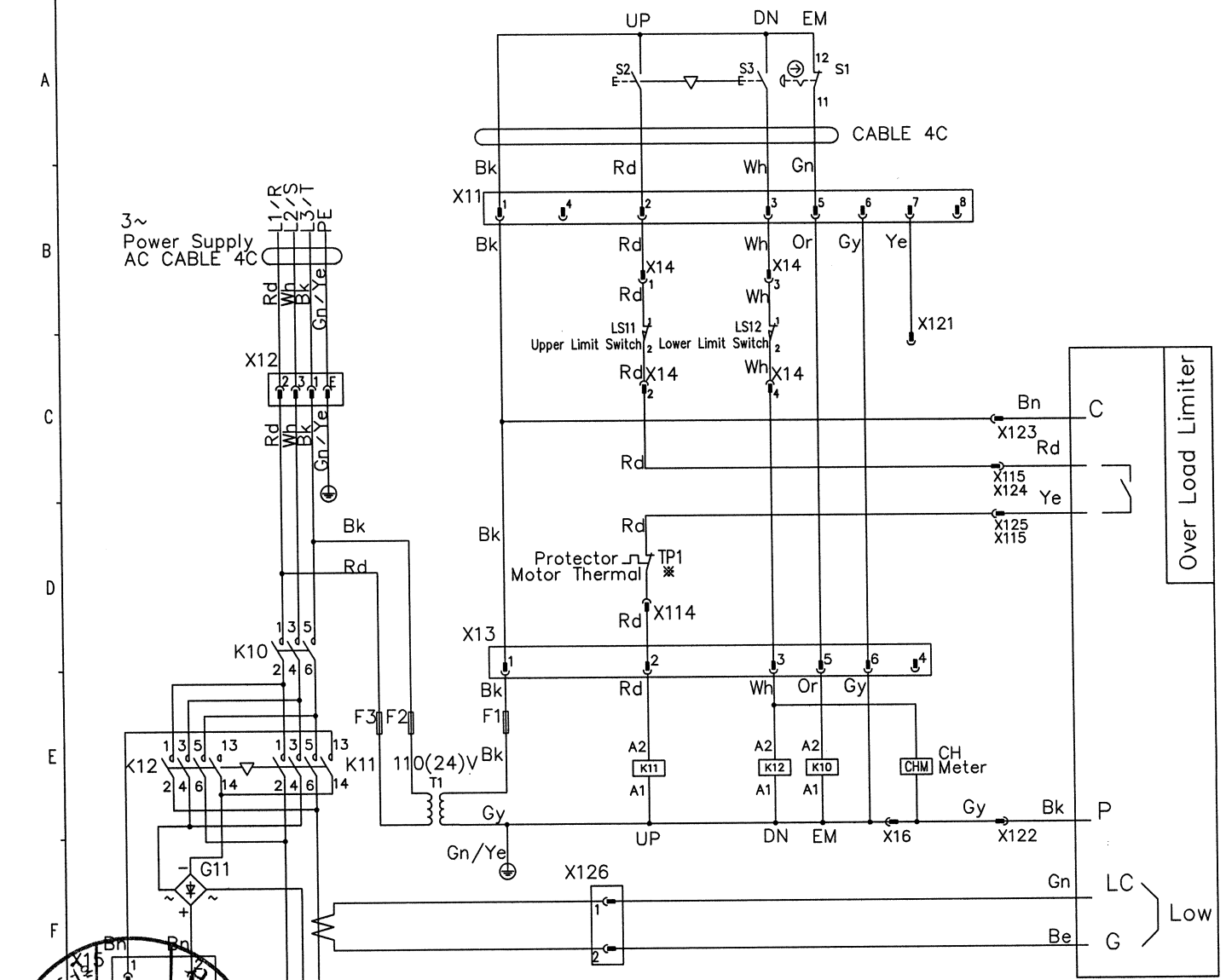
APPROVED	CHECKED	DESIGNED
H.Furiya 09 /04 /21	T.Hatano 09 /04 /21	K.Miwa 09 /04 /21

KITO CORP

Hoisting 1speed
Traversing
Wiring Diagrm

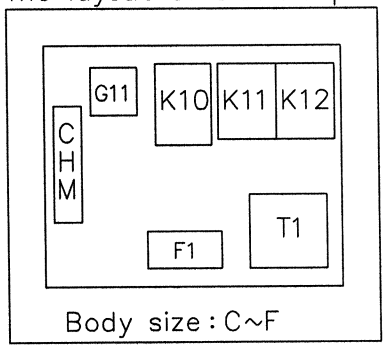
CODE		SCALE	—
DWG.NO.	SEWG3100L01_MR	DATE	

UNIT : mm



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

The layout of electric parts



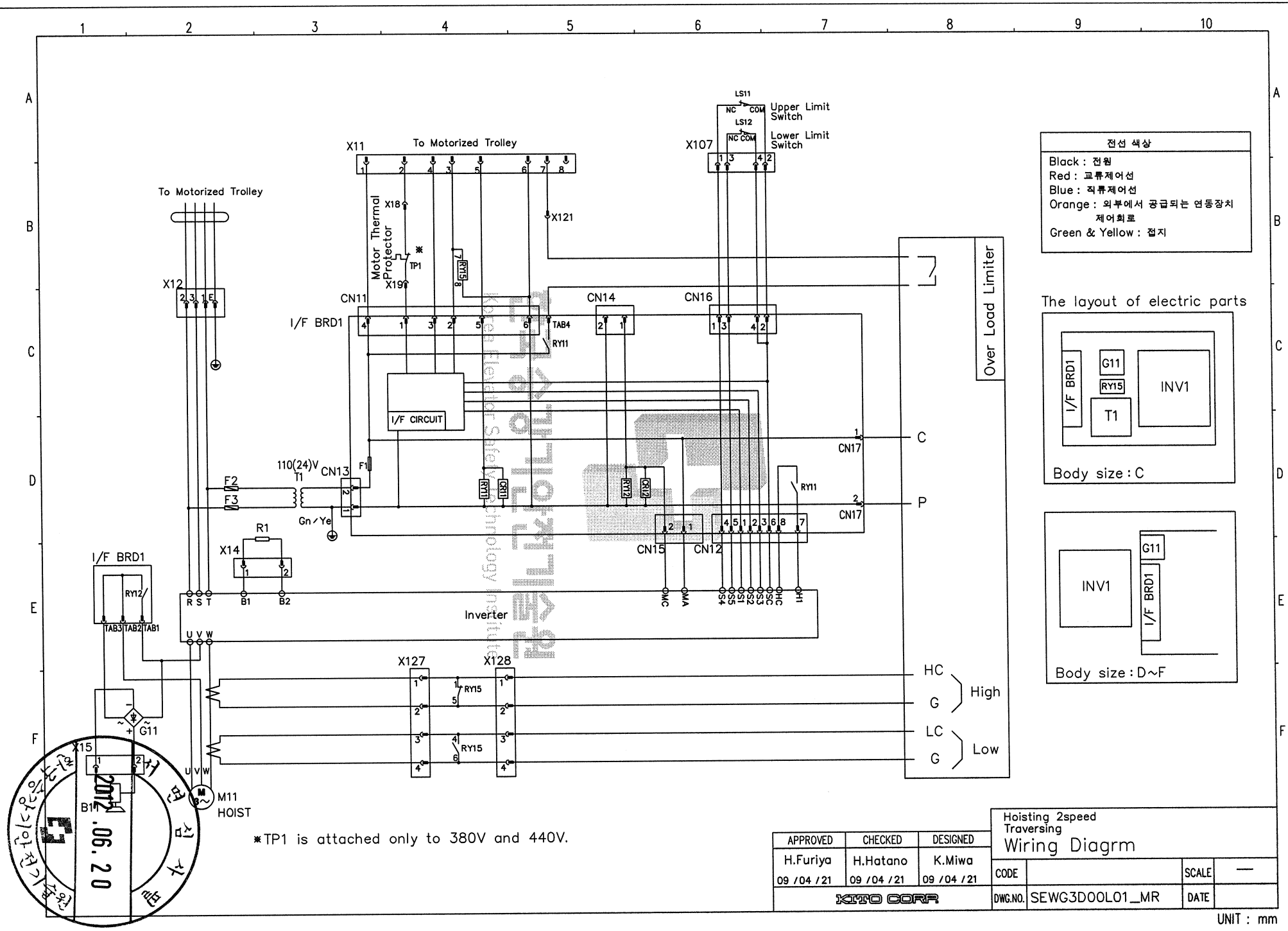
특수 공구(+,육각)을 사용하여
개방구 쪽은 제외

APPROVED	CHECKED	DESIGNED
H.Furiya 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

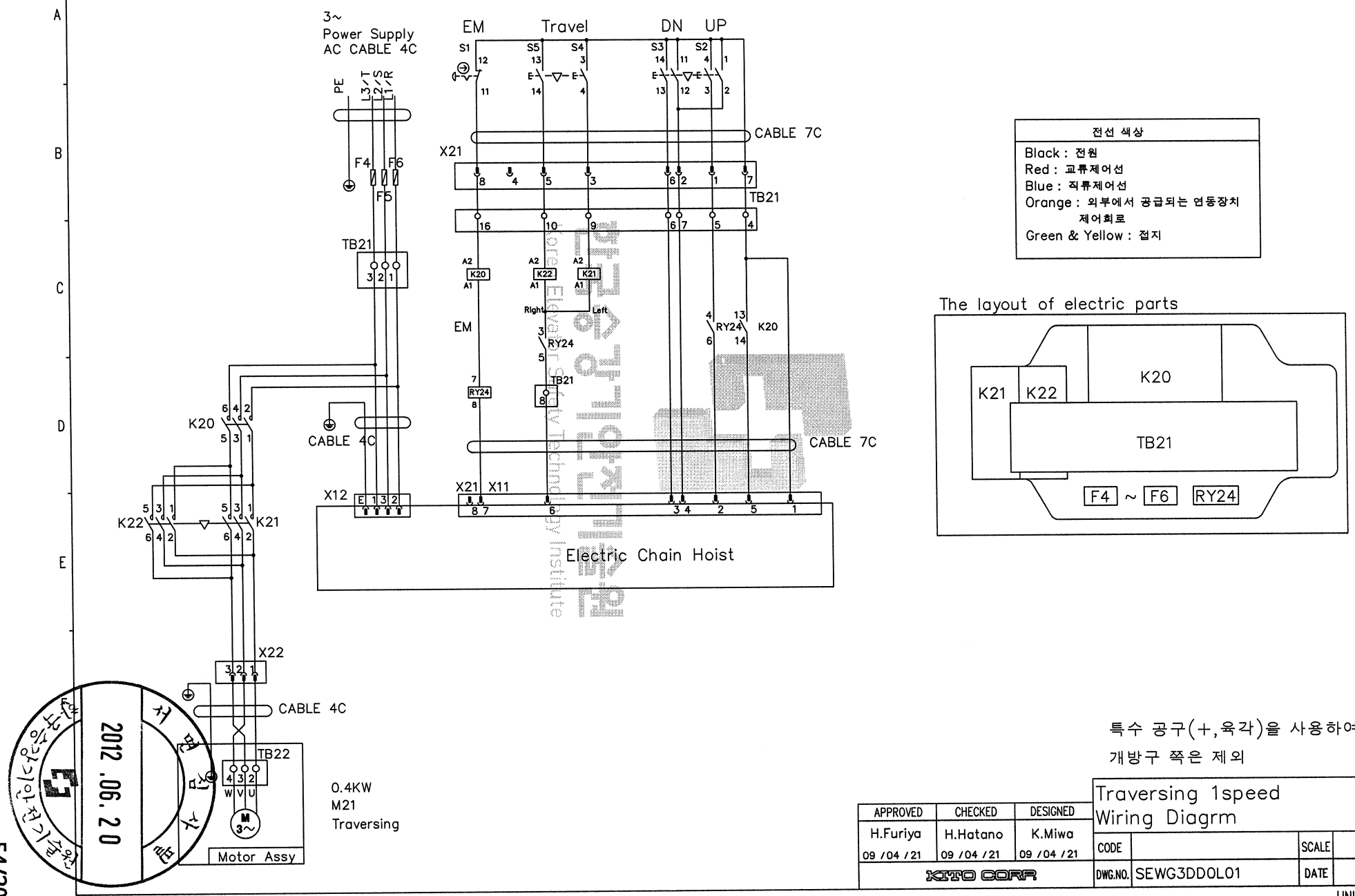
The layout of electric parts

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

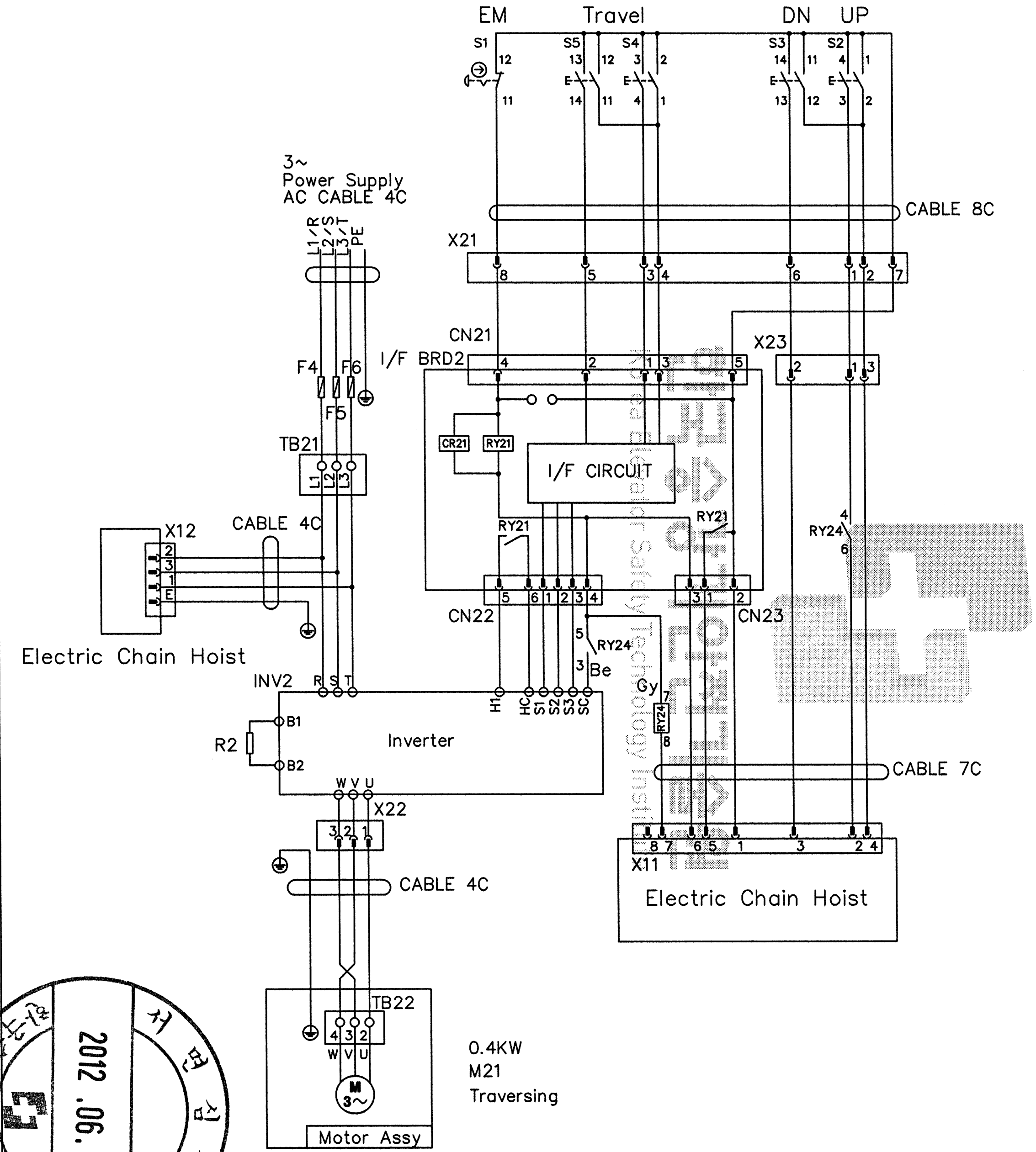
APPROVED	CHECKED	DESIGNED
H.Furiya	H.Hatano	K.Miwa
09 /04 /21	09 /04 /21	09 /04 /21
KITO CORP.		

Traversing 1speed
Wiring Diagrm

CODE		SCALE	—
DWG.NO.	SEWG3DD0L01	DATE	

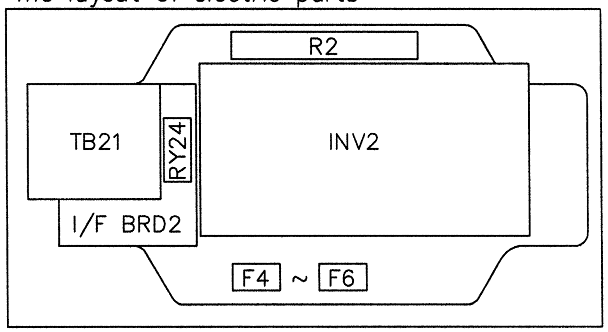
UNIT : mm

54/207



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 2speed
Wiring Diagrm

CODE		SCALE	—
DWG.NO.	SEWG3DD0L01	DATE	

UNIT : mm

CABLE 구성도 및 사양 – 권상 용량 0.9kW , 1.8kW

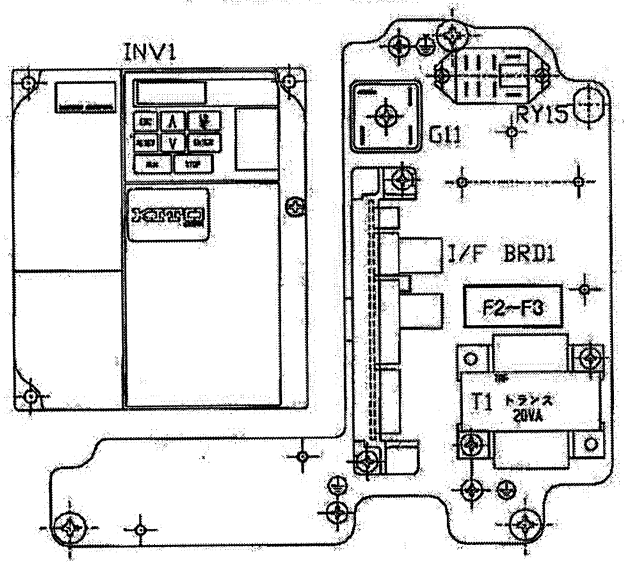
CABLE SPECIFICATION FOR ER2M

NO	ITEM	TYPE	ER2M10
			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

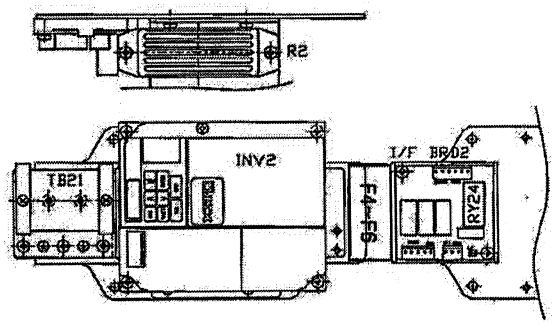
(3Φ 220(208)V / 380V / 440V 60Hz)

. 호이스트 CONTROL BOX 배치도

HOISTING CONTROL BOX

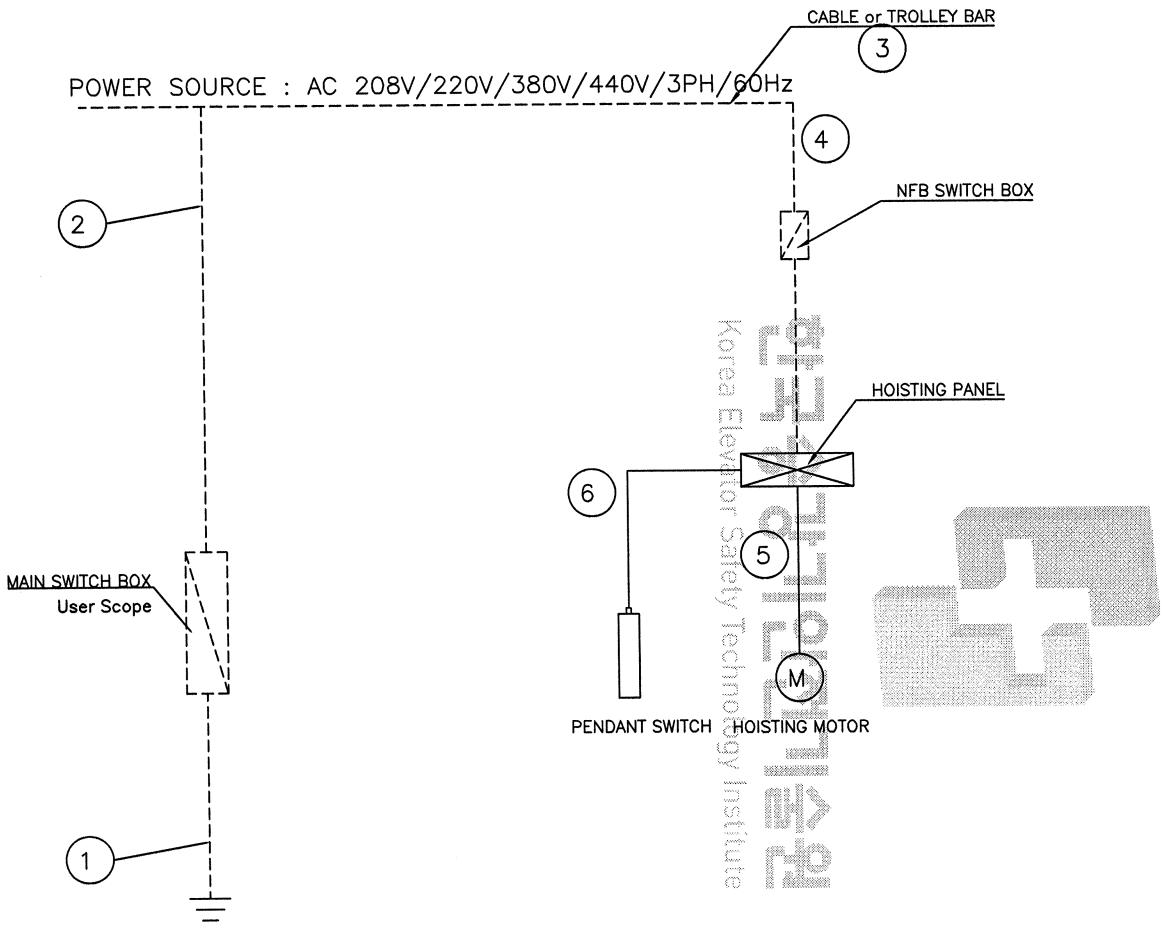


TRAVERSING CONTROL BOX



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	400V이하	100Ω이하
특3종 접지공사	400V이상	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 4SQ x 4C	User Scope(1Core)
3	Trolley bar or Festoon cable	60A x 4P	User Scope(1Core)
4	Main Power Sorce	VCT 4SQ 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	APPRO-VED

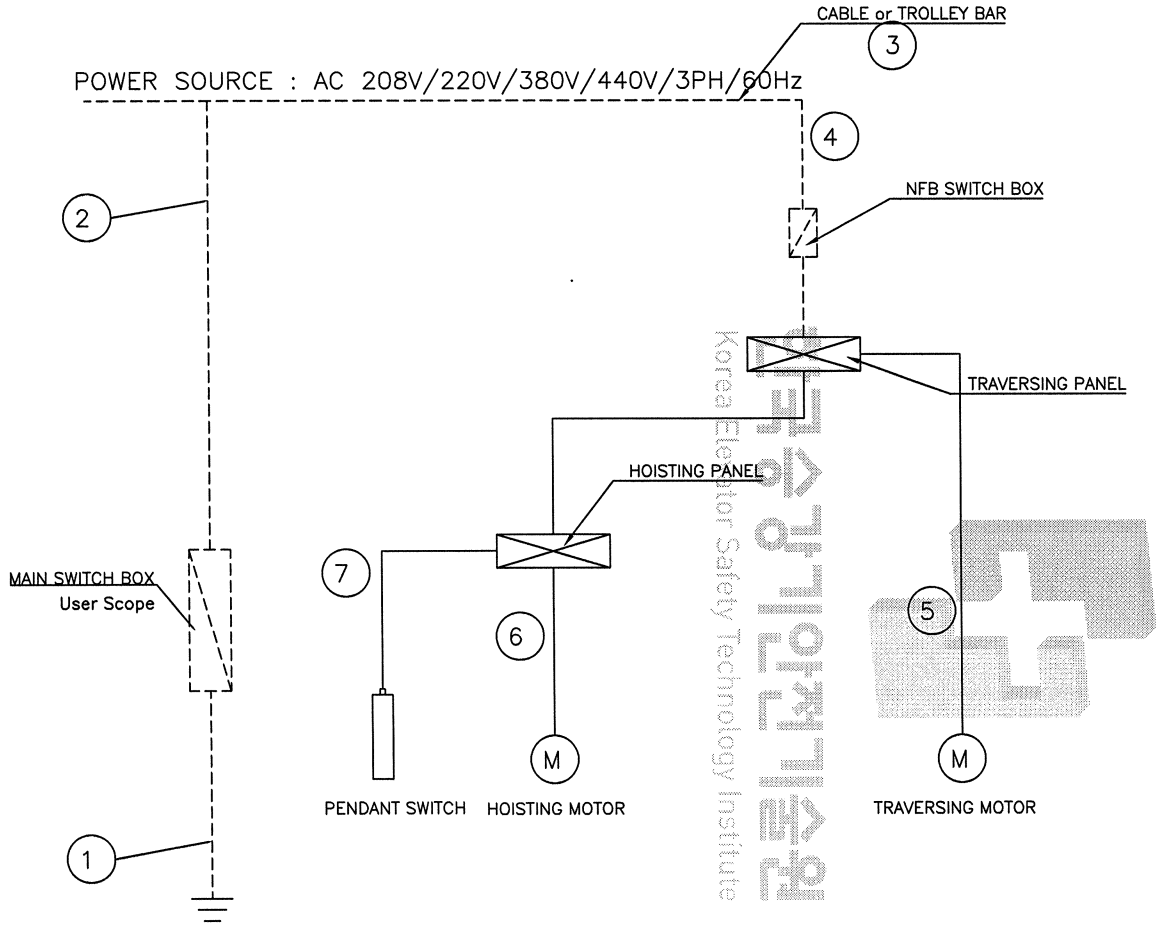
APPROVED	CHECKED	DESIGNED	DRAWN
M.Fukasawa	I.Iinuma	A.Shimura	---
11.07.20	11.07.20	11.07.20	

KITO CORPORATION

TITLE 1t MOTORIZED-2점식
케이블 구성도 및 접지계통도

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

様式 025G-05 UNIT : mm



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 4SQ x 4C	User Scope(1Core)
3	Trolley bar or Festoon cable	60A x 4P	User Scope(1Core)
4	Main Power Sorce	VCT 4SQ 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	I.Iinuma	A.Shimura	---
11.07.20	11.07.20	11.07.20	

KITO CORPORATION

TITLE: 1t 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".

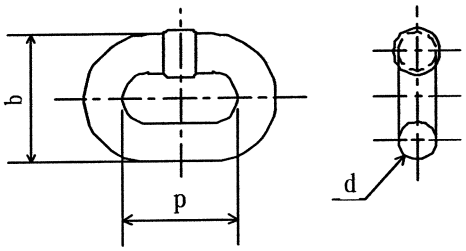
Technical Control Group

Certificate No.: FK070213
Date of Issue: 2008.03.21

Test Certificate

Messrs.

Commodity: NC Load Chain
C o d e : KER077
Lot No. : —
Quantity: — line(s)



1. Material: Manganese Alloy Steel

2. Dimensions

	d	p	b
Specified	7.7mm ±0.3	21.4mm $^{+0.46}_{0}$	Max. 27.0mm
Result	Good	Good	Good

3. Breaking test

	Breaking load	Total ultimate elongation
Specified	Min. 75 (kN)	Min. 10 (%)
Result	Good	Good

4. Manufacturing Proof force test (Test load: 46.6 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.: MM080011c

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	0.9kW	4P	60%ED	220V	60Hz

Full load characteristics

Voltage Frequency		220V 60Hz
Load	%	100
Current	A	4.7
Speed	rpm	1660

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.: MM080011d

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	0.9kW	4P	40/20%ED	220V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		220V Speed Control by Inverter
Load	%	100
Current	A	5.7
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.: MM070011c

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	0.9kW	4P	60%ED	380 - 440V	60Hz

Full load characteristics

Voltage Frequency		380 - 440V 60Hz
Load	%	100
Current	A	2.6
Speed	rpm	1640

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.: MM070011d

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	0.9kW	4P	60%ED	380 - 440V	Speed Control by Inverter

Full load characteristics

Voltage Frequency		380 - 440V Speed Control by Inverter
Load	%	100
Current	A	3.6
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.: 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.: 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