



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)	KML-ER2-010	용량(등급)	1 ton	

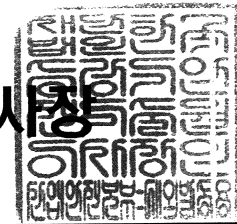
「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따라 실시한

- | | | | |
|--------------------|-----|--------------------|-----------|
| [] 예비심사 | | | |
| [■] 서면심사 | | | |
| [] 기술능력 및 생산체계 심사 | 결과가 | [■] 적 합
[] 부적합 | 함을 통지합니다. |
| [] 개별 제품심사 | | | |
| [] 형식별 제품심사 | | | |

2012년 07월 05일

인증심사원 최 창 일 **최창일**
 오 태 화 **오태화**

한국승강기안전기술원 이사장





제 CA-2012-0035 호

안 전 인 증 서

(사업장명) (주)KITO

(소재지) 2000, Tsujijarai, 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):	KML-ER2-010(1 ton)	_____
_____ 인증번호 :	12-CA4AC-0035	_____
_____ 인증기준 :	위험기계·기구 의무안전인증기준 (고용노동부고시 제2011-39호)	_____
_____ 인증조건 :	산업안전보건법 "제34조 준수"	_____

2012년 11월 30일

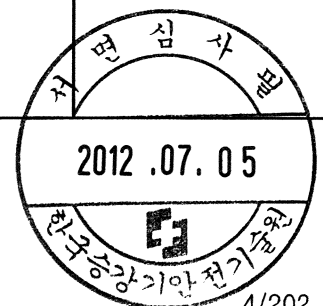
한국승강기안전기술원 이사장



【별지 제4호서식】

동 일 형 식 일 랑 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		
KML-ER2-010	KITO-ER2-010L	Lift max 30m	권상모터 0.9kW	횡행모터 없음	Trolley고정형		
	KITO-ER2-010IL		권상모터 0.9kW		Trolley 있음		
	KITO-ER2SP010L		권상모터 0.9kW		Trolley + 수동체인		
	KITO-ER2SP010IL						
	KITO-ER2SG010L						
	KITO-ER2SG010IL						
	KITO-ER2M010L-S			권상모터 0.9kW	횡행모터 0.4kW .S : 24m/min .L : 12m/min .IS:24/4m/min .IL:12/2m/min	전기Trolley 결합 type	
	KITO-ER2M010L-L						
	KITO-ER2M010L-IS						
	KITO-ER2M010L-IL						
	KITO-ER2M010IL-S						
	KITO-ER2M010IL-L						
	KITO-ER2M010IL-IS						
	KITO-ER2M010IL-IL						
	KITO-C-ER2M010L-S			권상모터 0.9kW			전기Trolley 결합 Clean type
	KITO-C-ER2M010L-L						
	KITO-C-ER2M010L-IS						
	KITO-C-ER2M010L-IL						
	KITO-C-ER2M010IL-S						
	KITO-C-ER2M010IL-L						
KITO-C-ER2M010IL-IS							
KITO-C-ER2M010IL-IL		권상모터 0.9kW					



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

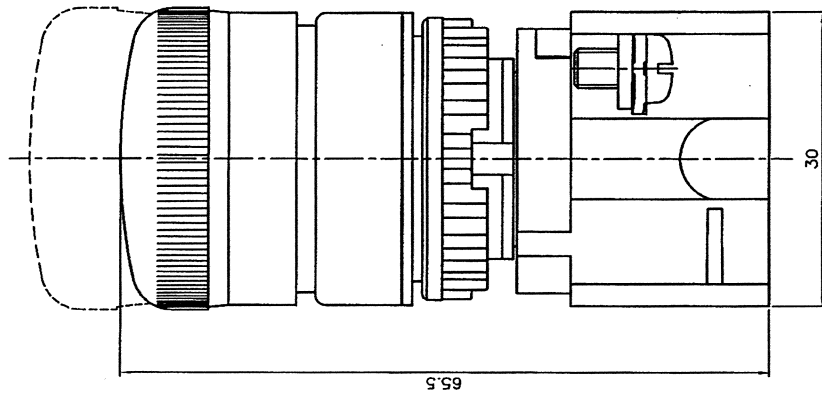
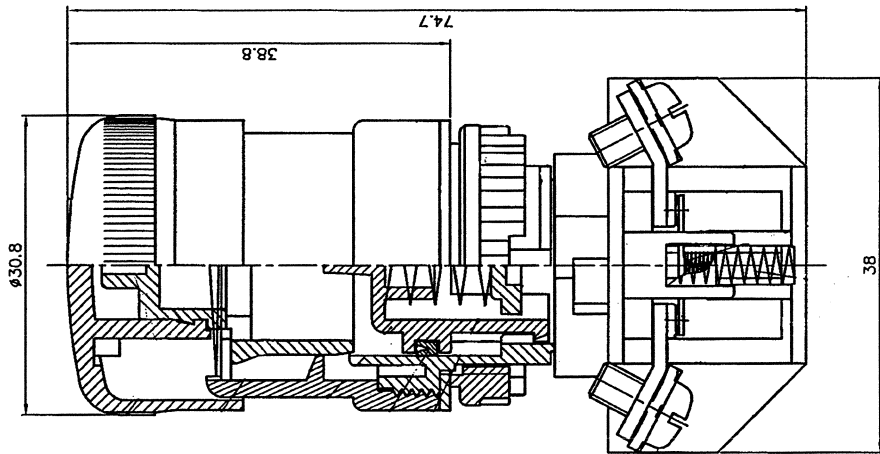
아래 주소에서 생산되는 제품에 한함.

정호엔지니어링, 경기도 광명시 노온사동 440-5

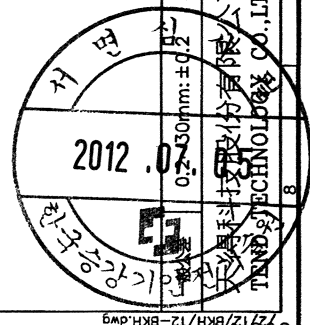
2012년 06월 11일

한국산업안전보건공단 이사장

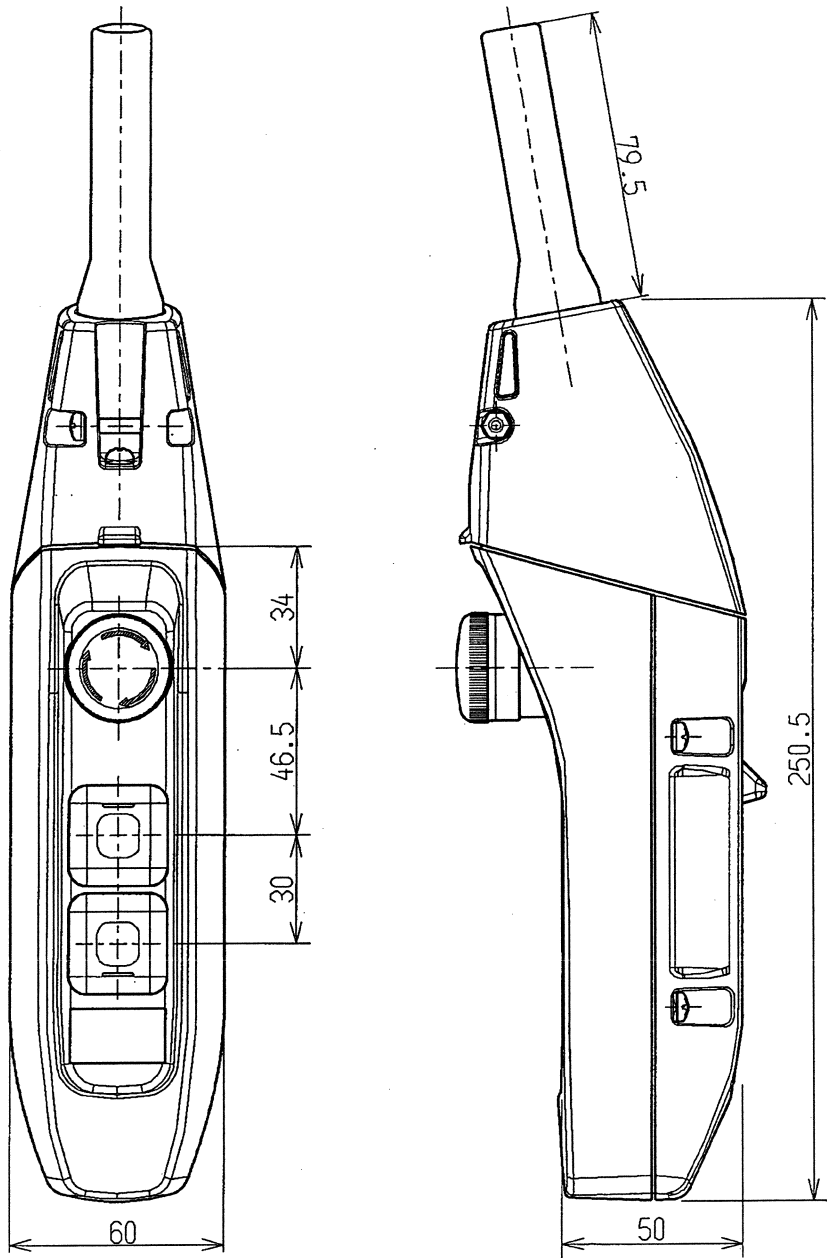




圖號		T2-BKH	
品名		T2 BKH 連續開關	
單位	mm	材質	表面處理
比例	2:1		
投影法	第一角		
繪圖	繪圖	校對	核對
設計課	95.05.24	研發部	95.05.24
吳宗達	周敦祥	研發部	95.05.24
		陳建廷	
總具孔數	總具處理	總具材質	60.1~300mm: ±0.5
			30.1~60mm: ±0.3
			0.1~30mm: ±0.2
		品保	品保
		最新修正	前次修正
		品保部	95.05.24
		林建榮	

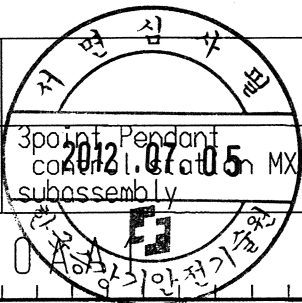


Revision	Incidence	Description	Date	Charge	Approved

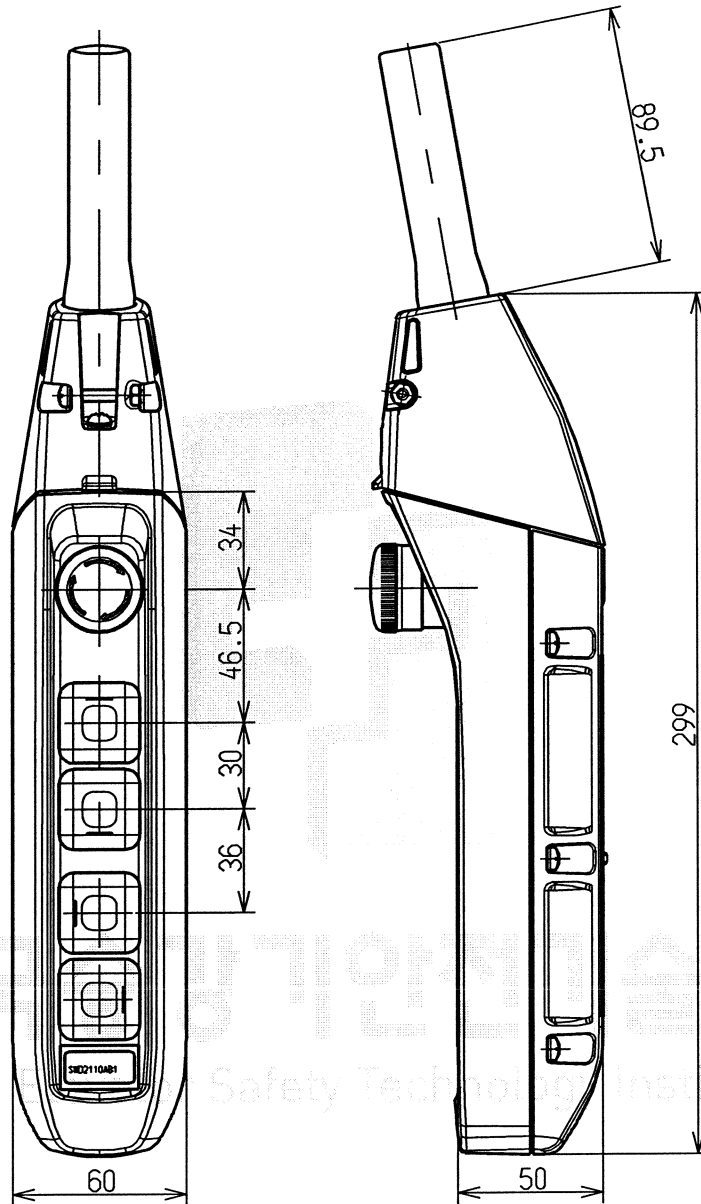


⑥
⑤
④
③
②
①
Date issued

APPROVED					N O T E		DWG. NO. / NOS. / UNIT MATERIAL	NAME CODE
ISHIKAWA	CHECKED	FURIYA	DESIGNED	KOBAYASHI	DRAWN	KOBAYASHI		
08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	-	SWD2X00



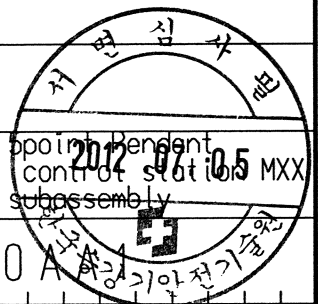
Revision	Incidence	Description	Date	Charge	Approved
1					



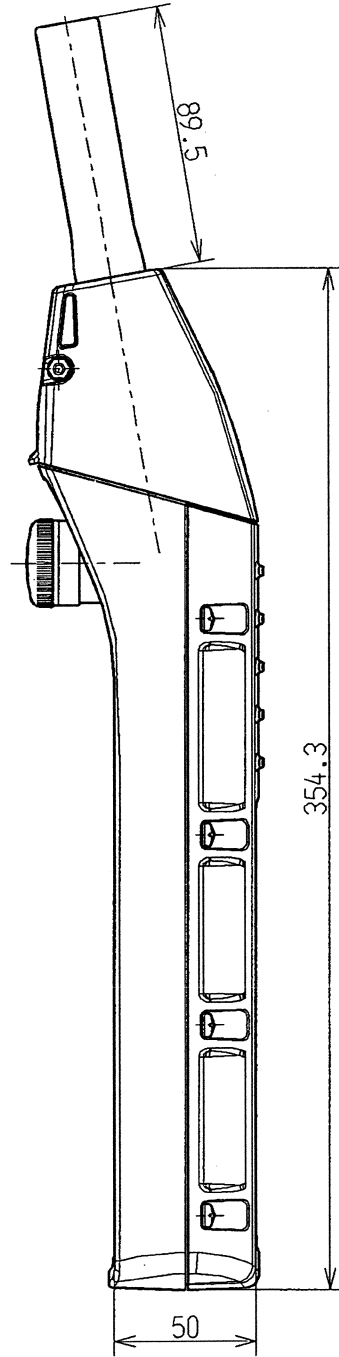
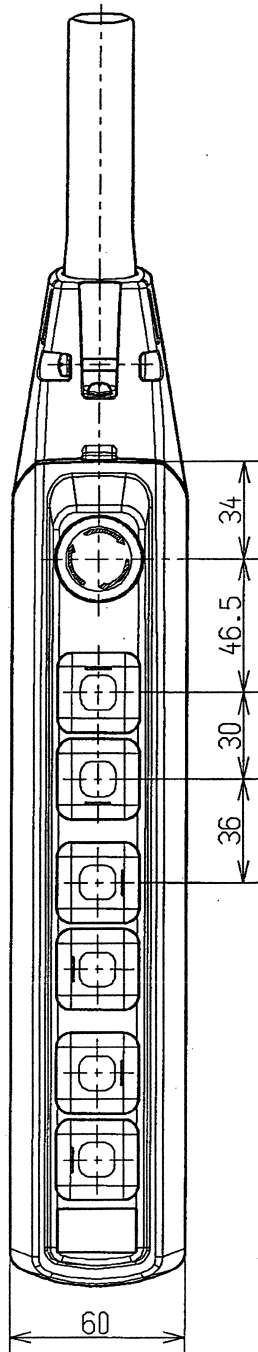
The lifting and lowering push buttons are marked with $\uparrow\downarrow$ for single speed or $\blacktriangle\blacktriangledown$ for dual speed.
 The traveling push buttons are marked with E W or N S depending on the installed direction.

⑥
⑤
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NOTE					MATERIAL		CODE		
					NOS./UNIT		NAME		
APPROVED	H.FURIYA	CHECKED	T.HATANO	DESIGNED	KOBAYASHI	DRAWN	KOBAYASHI	SCALE	-
Date issued	09.04.21		09.04.21		09.04.21		09.04.21		
				DNG. NO.		S W D 2 X X 0 A			



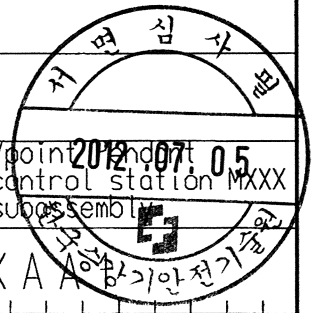
Revision	Incidence	Description	Date	Change	Approved

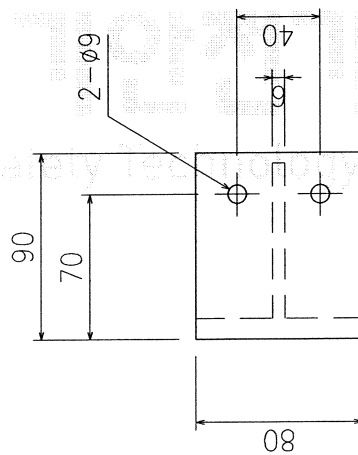
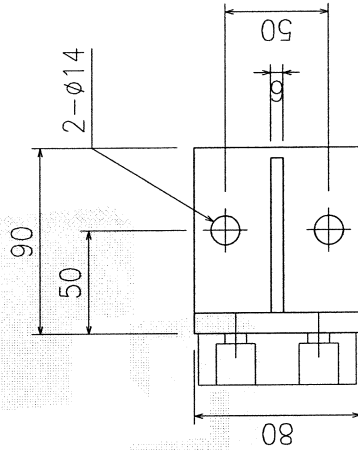
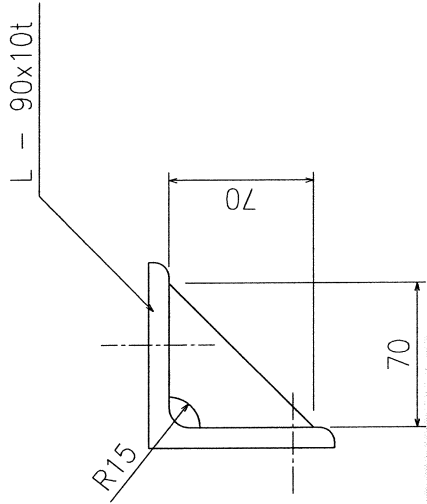


E
W
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N

6
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2
1
Date issued

NOTE					DWG. NO.	NOS./UNIT MATERIAL	NAME CODE
APPROVED	ISHIKAWA	CHECKED	FURIYA	DESIGNED	KOBAYASHI	DRAWN	KOBAYASHI
08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	SCALE	-
					DWG. NO.	SWD2XXXXA	
					2012.07.05 control station MXXX subassembly		





한국승강기안전기술원
Korea Elevator Safety Technology Institute

No	Part Name	Description	Mat'l	Unit	Qty	Weight (kg)	Remark
	STOPPER	STOPPER - traversing	SS400		4		다량생산
TITLE							
DRAWN W.H.EUN							
DESIGNED W.H.EUN							
CHECKED J.S. CHO							
APPROVED J.S. CHO							
KOTO (주) KITO KOREA							
APPROVED							
DRAWN							
DATE							
APPROVED							
REV							
SCALE							
REV.							

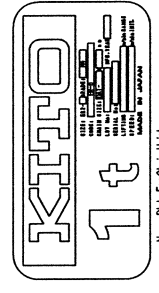
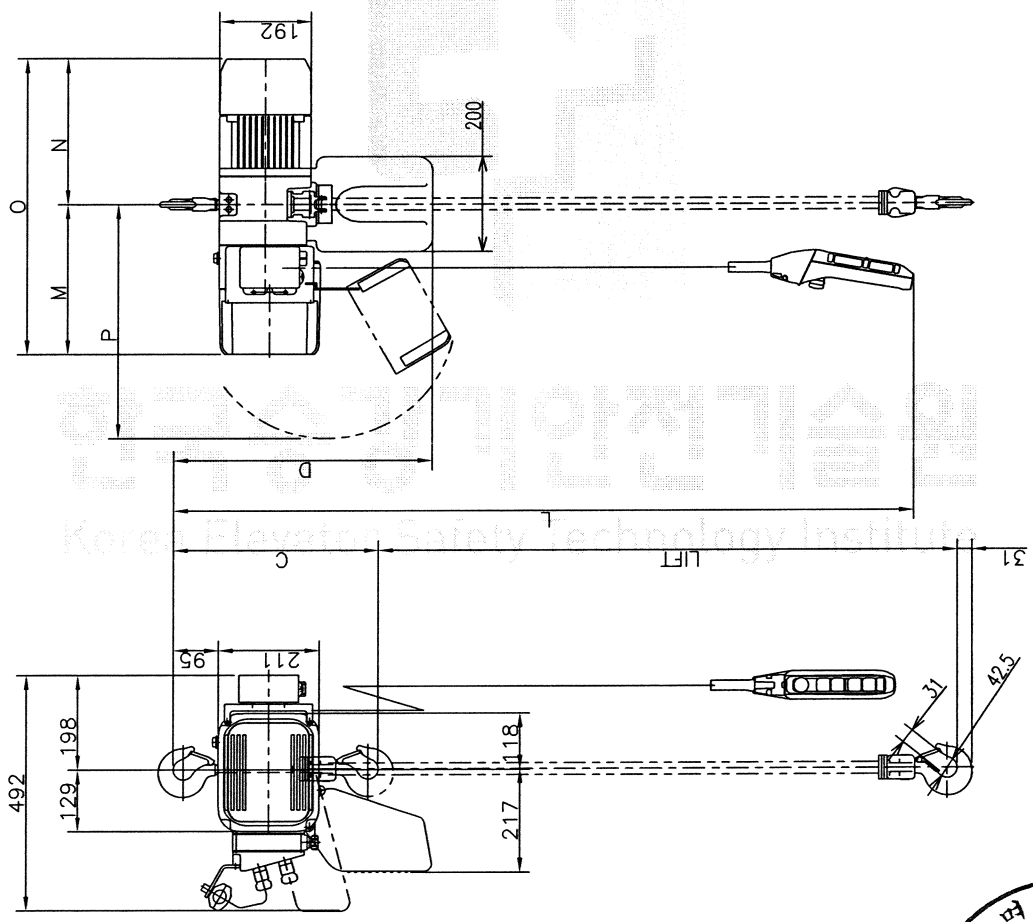


1 2 3 4 5 6 7 8 9

형식번호: KML-ER2-010
Model number.

KITO-ER2-010L
KITO-ER2-010IL

Dimensions	M	N	O	P
1속 저속	291	298	589	444
2속 저속	316	298	614	493



정식번호: KML-ER2-010
차지마리는 옵션 사양임

Particulars		ER2-D	
基本本体 Size		11	
定 常 Nominal Capacity		3t(max. 30m)	
チェーンサイズ Chain size		φ7.7 x 1	
レール下面より フックまでの最小距離 : C		470mm	
相 数・電 圧 Phase・Voltage		3φ 220(208)V 60Hz 380.440V 60Hz	
Motor Output Duty Rating Classification	巻上モータ for Lifting	IL	0.9kW x 4P
	2速用(0.4倍り速度)	L	0.9kW x 4P
巻上速度 Lifting Speed	1倍 低速	L	4.2 m/min
押しボタンコード長さ : L			2.5 m(max. 29.5m)
キャブタイプや給電 ケーブル長さ Length of Power Supply Cable			- m
レール下面よりチェーン フックまでの最小距離 : D			550mm(max. 1000)
適用レール巾 : B			58~127mm
トロリ車大巾 : G			249mm
質量 Weight			約 46kg
塗装色 Painting Color			7790151R7/14 Munsell 7.5R6.7/14

名 称 TITLE	11-ER2 SERIES ELECTRIC CHAIN HOIST STANDARD		
製造番号 CODE	ER2		
図番 DWG.NO.	KML-ER2-010-001		
尺 度 SCALE	実寸 1:1		

承認 APPROVED	検 査 CHECKED	設 計 DESIGNED	製 図 DRAWN
株式会社 KITO CORP. KITO CORP.			

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



1 2 3 4 5 6 7 8 9

형식번호: KML-ER2-010
 Model number.
 KITO-ER2SP010L
 KITO-ER2SP010IL

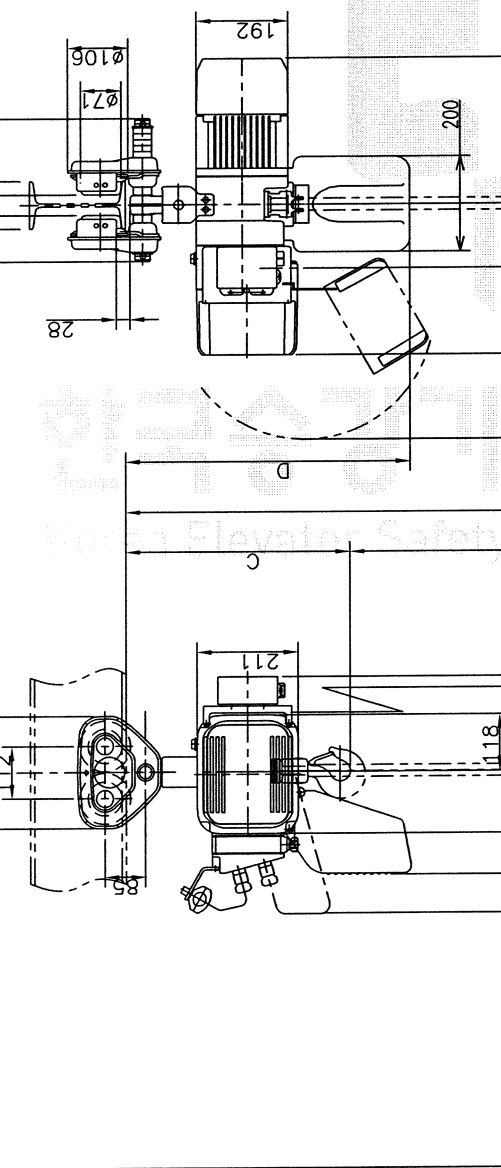
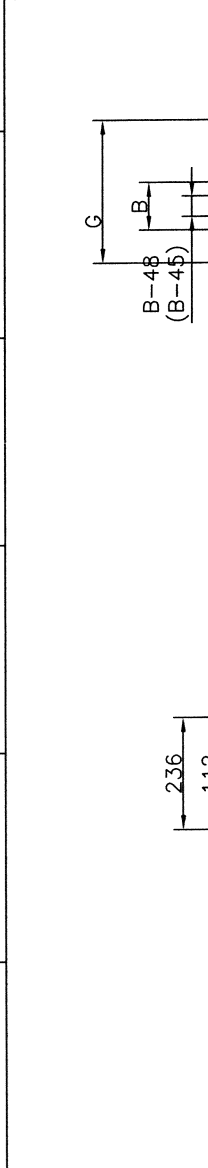
Dimensions	M	N	O	P
1속 저속	291	298	589	444
2속 저속	316	298	614	493

정격 용량
 Nominal Capacity
 3m(max 30m)
 Ø7.7 x 1
 470mm

상승 속도
 Lifting Speed
 2속제 (0미터 상승) : L
 1속 저속 : L
 2.5 m(max 29.5m)

정격 전압
 Phase Voltage
 3φ 220(208)V 60Hz
 380,440V 60Hz

출력
 Motor Output
 0.9kW x 4P
 0.9kW x 4P



키트오
 1 t
 Name Plate For Chain Hoist

형식번호: KML-ER2-010
 *자바라는 옵션 사양임

REV.	REV.	REV.	REV.	REV.	REV.	REV.	REV.	REV.	REV.	REV.

CONTENTS

수량 QTY

년.월.일 DATE

담당 DRAMN

承認 APPROVED

APPROVED CHECKED DESIGNED DRAWN

株式会社 KITO

製 DRAWN

名 稱 TITLE

11 ER2 SERIES ELECTRIC CHAIN HOIST WITH PLAN TROLLEY

圖號 CODE

ER2-SP

圖號 DWG.NO.

KML-ER2-010-002

尺 度 SCALE

變 更 回 數 REV.

三 角 法 單 位 : mm

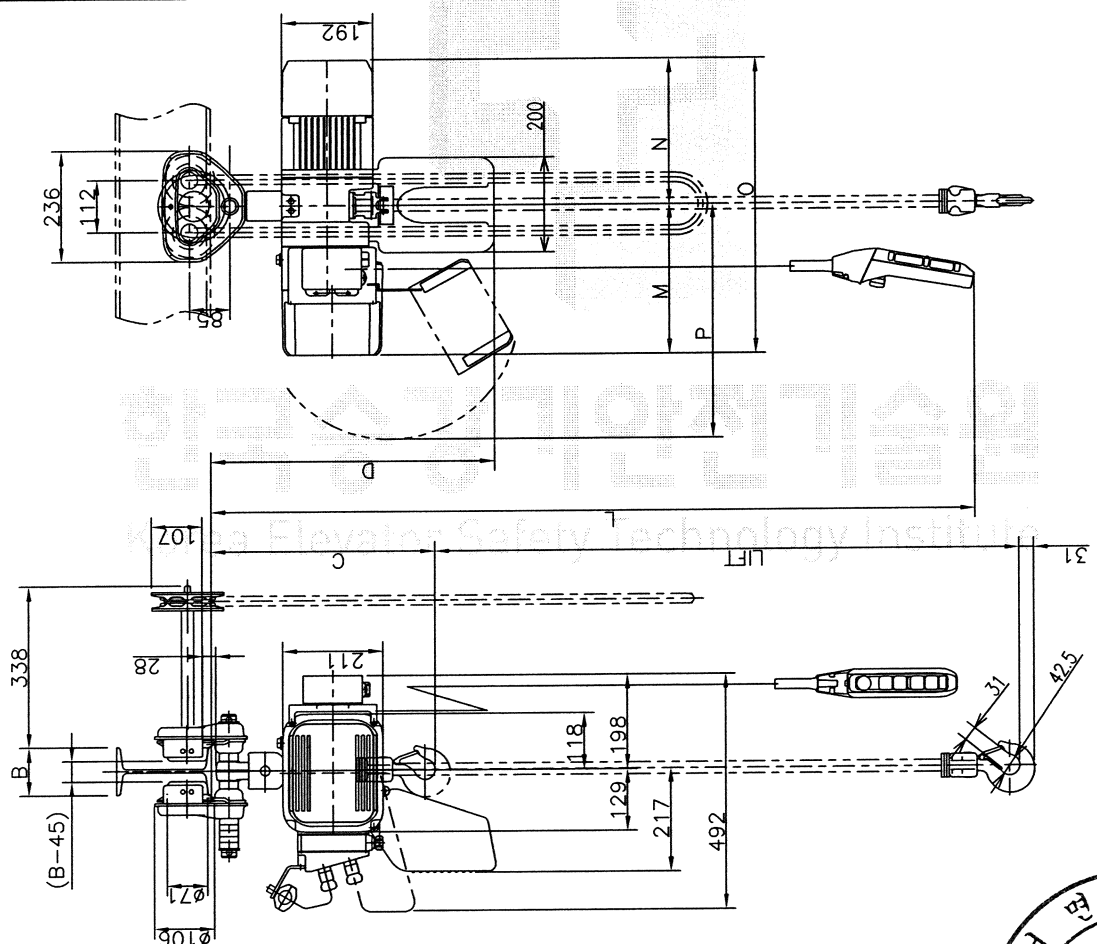
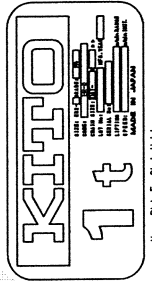
樣 式 025P-19



1 2 3 4 5 6 7 8 9

형식번호: KML-ER2-010		Particulars	
Model number.		ER2-D	
KITO-ER2SG010L		1t	
KITO-ER2SG010IL		3m(max 30m)	
Chain size		Ø7.7 x 1	
Min. Headroom		470mm	
Phase · Voltage		3φ 220(208)V 60Hz 380,440V 60Hz	
Motor Output		IL 0.9kW x 4P	
Classification		L 0.9kW x 4P	
Lifting Speed		IL 4.2(0.7 m/min)	
Lifting Speed		L 4.2 m/min	
Push Button Load		2.5 m(max 29.5m)	
Length of Power Supply Cable		1.0 m	
Chain Container Distance from Bottom of Beam		550mm(max 1000)	
Flange Width		58~153mm	
Max. Dimension of Trolley Width		587mm	
Mass		약 58kg	
Painting Color		7.5VRZ/14	
Painting Color		Munsell 7.5VRZ/14	

형식번호: KML-ER2-010		Model number.	
KITO-ER2SG010L		KITO-ER2SG010IL	
Dimensions		M	N
1속 저속	291	298	589
2속 저속	316	298	614
		P	444
			493



제명	1t ER2M SERIES ELECTRIC CHAIN HOIST WITH GEAR TROLLEY	
제명번호	ER2-SG	尺度 SCALE
제명	KML-ER2-010-003	製圖者 製圖者

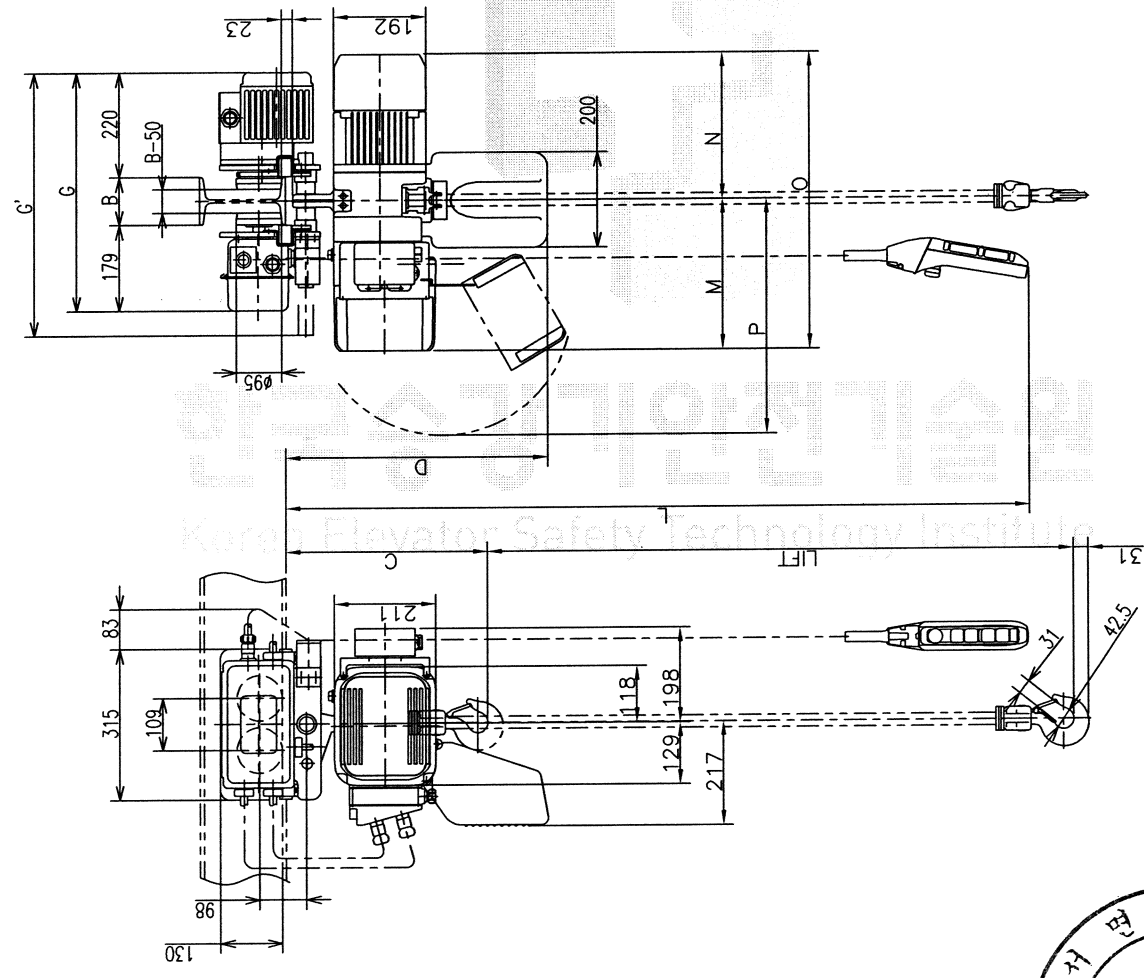
承認	DESIGNED	製圖	DRAWN
檢査	CHECKED	檢査	CHECKED
承認	APPROVED	承認	APPROVED

年.月.日	DATE	承認	APPROVED
年.月.日	DATE	承認	APPROVED

訂	REV.	數	QTY	內	CONTENTS	等

樣式 025P-19	
單位 : mm	

1 2 3 4 5 6 7 8 9



형식번호: KML-ER2-010
Model number:

KITO-ER2M010L-S	
KITO-ER2M010L-L	
KITO-ER2M010L-IS	
KITO-ER2M010L-IL	
KITO-ER2M010L-S	
KITO-ER2M010L-L	
KITO-ER2M010L-IS	
KITO-ER2M010L-IL	

寸法	M	N	O	P
1속 직속	291	298	589	444
2속 직속	316	298	614	493

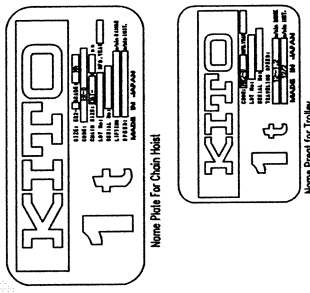
상속	IL
중속	L
고속	IS
초속	S

상속	IL
중속	L
고속	IS
초속	S

정격 용량	3m (max 30m)
체인 크기	Φ7.7 x 1
레일/하면 거리	435mm
상속 전압	3Φ 220(208)V 60Hz
중속 전압	380, 440V 60Hz
고속 전압	0.9kW x 4P
초속 전압	0.4kW 4P

상속 속도	4.2/0.7 m/min
중속 속도	4.2 m/min
고속 속도	12/2 m/min
초속 속도	24/4 m/min
총길이	2.5 m (max 29.5m)
케이블 길이	1.0 m
레일/하면 거리	550mm (max 1000)
플랜지 폭	58~153mm
트rolley 폭	587mm
질량	약 83kg
도색	중색 파우더 코팅
도색 색상	RAL 7035

형식번호: KML-ER2-010
차바라는 옵션 사양임



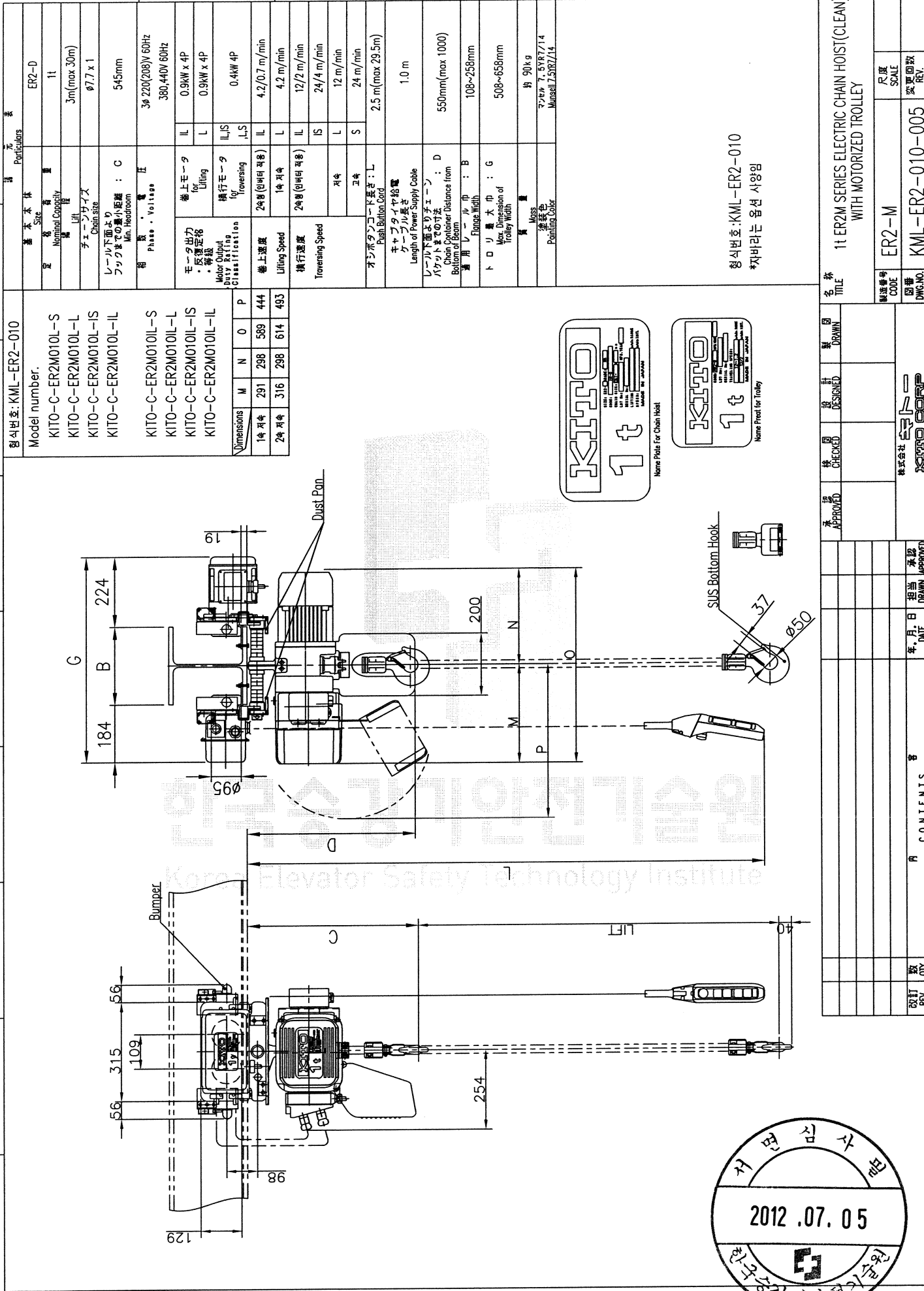
제조사	한국기어
모델명	ER2-M
도면번호	KML-ER2-010-004
변경번호	변경회수
도면명	사양도

제조사	한국기어
모델명	ER2-M
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수령	확인	확인	확인	확인	확인	확인
검사	확인	확인	확인	확인	확인	확인
제작	확인	확인	확인	확인	확인	확인
검토	확인	확인	확인	확인	확인	확인
명칭	1t ER2M SERIES ELECTRIC CHAIN HOIST WITH MOTORIZED TROLLEY					



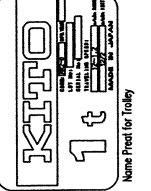
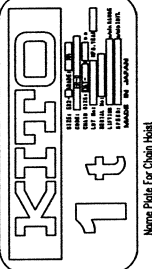
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型式番号: KML-ER2-010 Model number.
KITO-C-ER2M010L-S
KITO-C-ER2M010L-L
KITO-C-ER2M010L-IS
KITO-C-ER2M010L-IL
KITO-C-ER2M010L-S
KITO-C-ER2M010L-L
KITO-C-ER2M010L-IS
KITO-C-ER2M010L-IL

Dimensions	M	N	O	P
1号 寸法	291	298	589	444
2号 寸法	316	298	614	493

基本仕様	particulars
型式番号	ER2-D
定容積	1t
チェーンサイズ	3m(max 30m)
チェーンサイズ	φ7.7 x 1
ヘッド室の最小距離	545mm
相電圧	3φ 220(208)V 60Hz 380,440V 60Hz
モーター出力	0.9KW x 4P 0.9KW x 4P 0.4KW 4P
巻上速度	IL 4.2/0.7 m/min L 4.2 m/min
横行速度	IL 12/2 m/min IS 24/4 m/min L 12 m/min S 24 m/min
オンボタンコード長さ	L 2.5 m(max 29.5m)
ケーブル長さ	1.0 m
チェーンコネクタの寸法	550mm(max 1000)
チェーンコネクタの寸法	108~258mm
チェーンコネクタの寸法	508~658mm
質量	約 90kg
塗装色	ブルー 7-SYR1/14 Munsell 7.5R2/14



型式番号: KML-ER2-010
*자바라는 옵션 사양임

承認 APPROVED	検査 CHECKED	設計 DESIGNED	製図 DRAWN	名称 TITLE
				1t ER2M SERIES ELECTRIC CHAIN HOIST (CLEAN) WITH MOTORIZED TROLLEY
				製造番号 CODE
				ER2-M SCALE
				図番 DRG.NO.
				KML-ER2-010-005 変更回数 REV.

株式会社 KITO CORPORATION
名称 CONTENTS

訂 REV. 数 QTY

年 月 日 承認 承認
DATE DRAWN APPROVED



LOAD SUMMARY 1 – 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + 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

*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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + 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 2 – 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 6.2 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 6.2 * 1.25 = 7.75 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 4.1 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 4.1 * 1.25 = 5.125 A



LOAD SUMMARY 3 – 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 8.2 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 8.2 * 1.25 = 10.25 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 5.3 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 5.3 * 1.25 = 6.625 A



LOAD SUMMARY 4 – 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 5.2 A

*** PEAK 전류값 ***

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

NOMAL 전류값 * K = 5.2 * 1.25 = 6.5 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)	0.5 (A)

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

*** NOMAL 전류값 ***

권상시 : HOISTING + CONTROL CIRCUIT = 3.1 A




*** PEAK 전류값 ***

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





NOMAL 전류값 * K = 3.1 * 1.25 = 3.875 A






ROTATING MACHINE

-  SYNCHRONOUS GENERATOR, 3-PHASE
-  AC INDUCTION MOTOR, 3-PHASE
-  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

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)

-  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

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 CIRCUIT BREAKER, BUILT IN ELECTRONIC OVER-CURRENT RELAY WITH ADJUSTABLE TRIP RATING
-  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

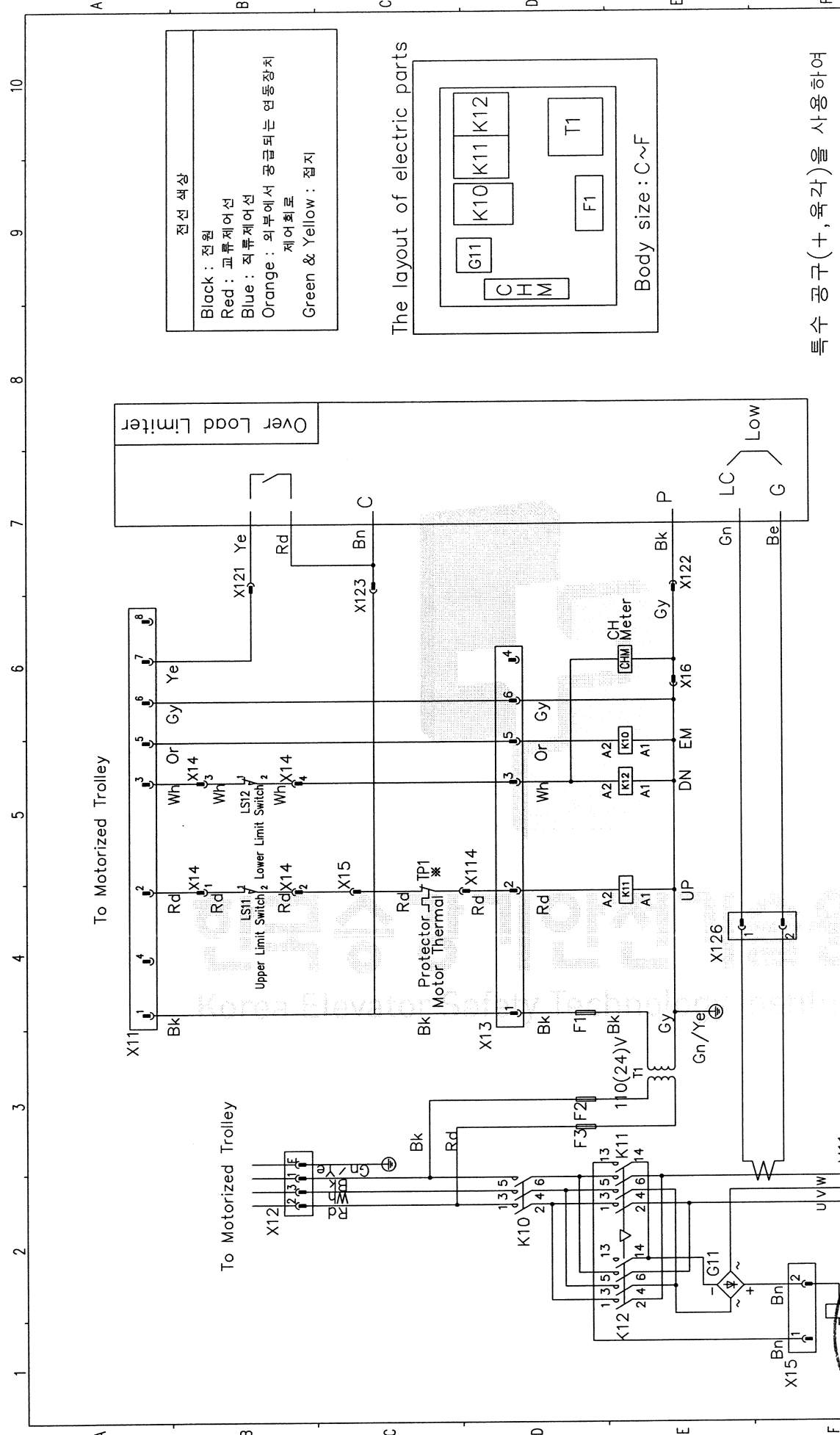
GRAPHIC SYMBOLS

-  GENERAL OPERATING COIL
-  CAPACITOR
-  CAPACITOR VOLTAGE TRANSFORMER (CVT)
-  RESISTOR
-  DIODE
-  BUS DUCT
-  SPB : SEGREGATED PHASE BUS DUCT
-  IPB : ISOLATED PHASE BUS DUCT
-  CABLE HEAD AND CABLE CONNECTION
-  AMMETER SWITCH
-  VOLTMETER SWITCH
-  SIGNAL LAMP
-  Y = YELLOW
-  R = RED
-  B = BLUE
-  G = GREEN
-  W = WHITE
-  A = AMBER
-  C = CYAN

SYMBOL LIST

APPROVED	CHECKED	DESIGNED
KOTO CORP		
CODE	SCALE	DATE
INVENTOR	SYMBOL LIST	DATE



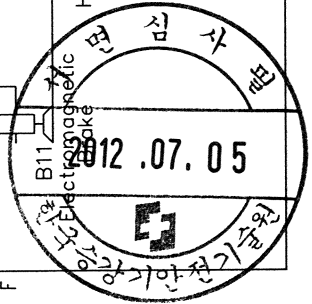


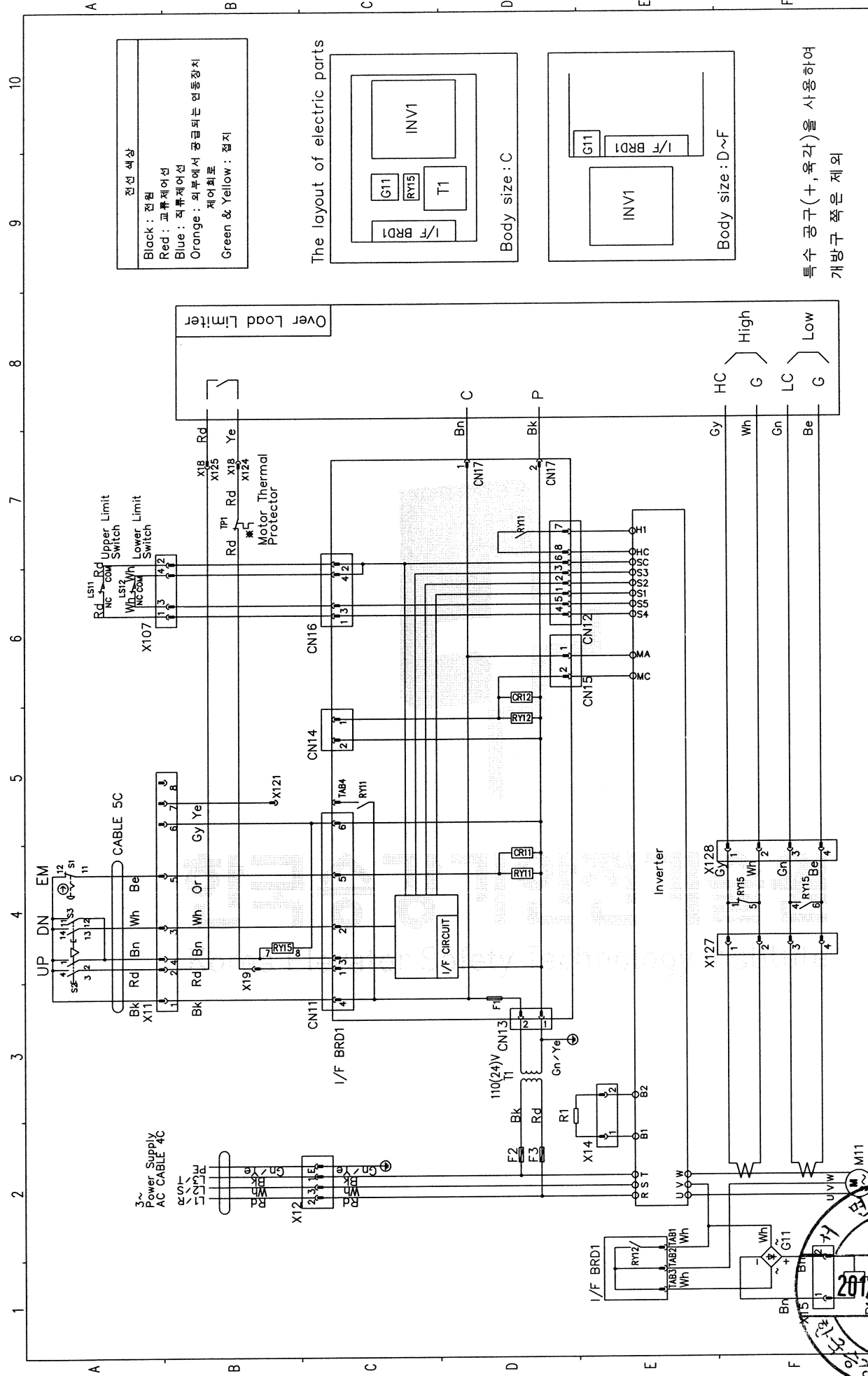
특수 공구(+, 육각)을 사용하여
개방구 쪽은 제외
For MR connection

APPROVED	CHECKED	DESIGNED	Hoisting 1speed Traversing Wiring Diagram	
H.Furiya 09 / 04 / 21	T.Hatano 09 / 04 / 21	K.Miwa 09 / 04 / 21	CODE	SCALE
KOTO CORP			DWG.NO. SEWG3100L01_MR	DATE

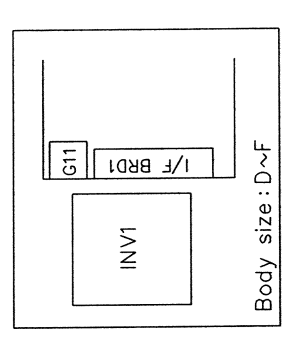
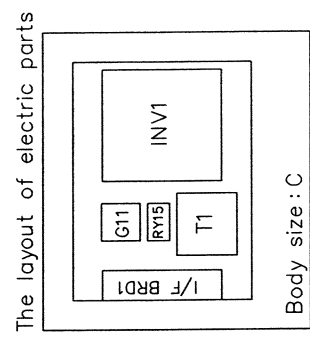
UNIT : mm

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





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

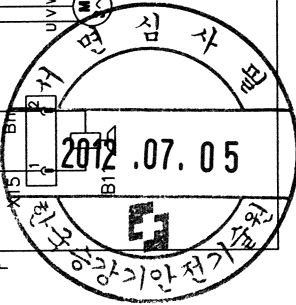


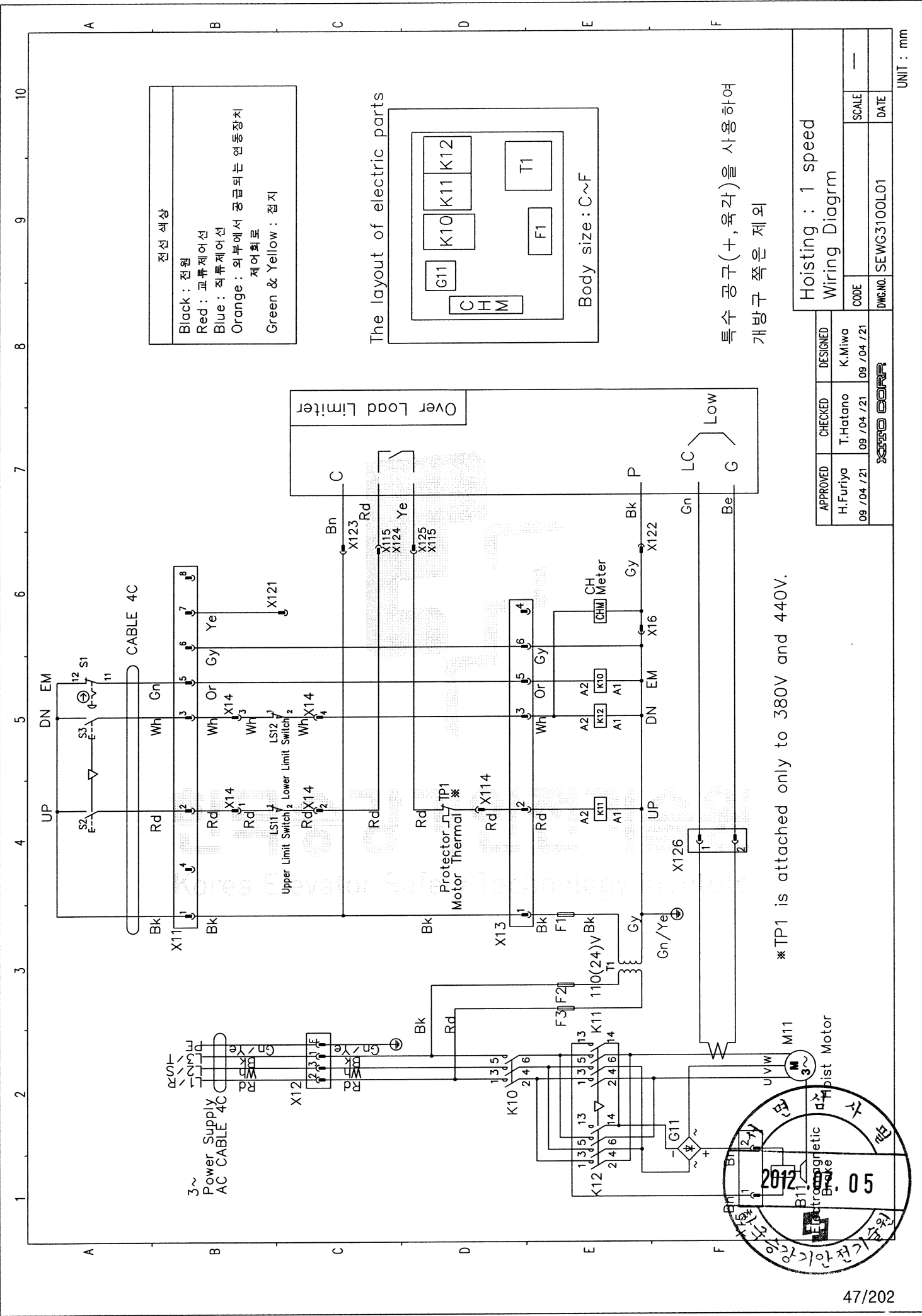
특수 공구(+, 육각)를 사용하여
 개방구 쪽은 제외

Hoisting 2speed
 Wiring Diagram

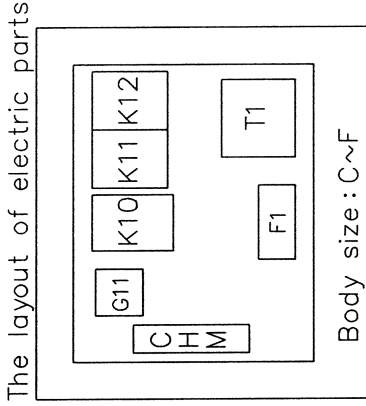
APPROVED	CHECKED	DESIGNED
H.Furiya 09 / 04 / 21	H.Hatano 09 / 04 / 21	K.Miwa 09 / 04 / 21
CODE	SCALE	DATE
DWG.NO. SEWG3D00L01	---	---

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





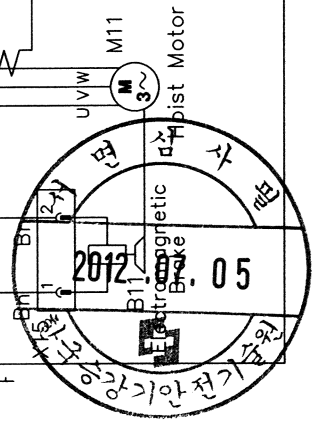
전선 색상
 Black : 전원
 Red : 교류제어선
 Blue : 직류제어선
 Orange : 외부에서 공급되는 연동장치 제어회로
 Green & Yellow : 접지

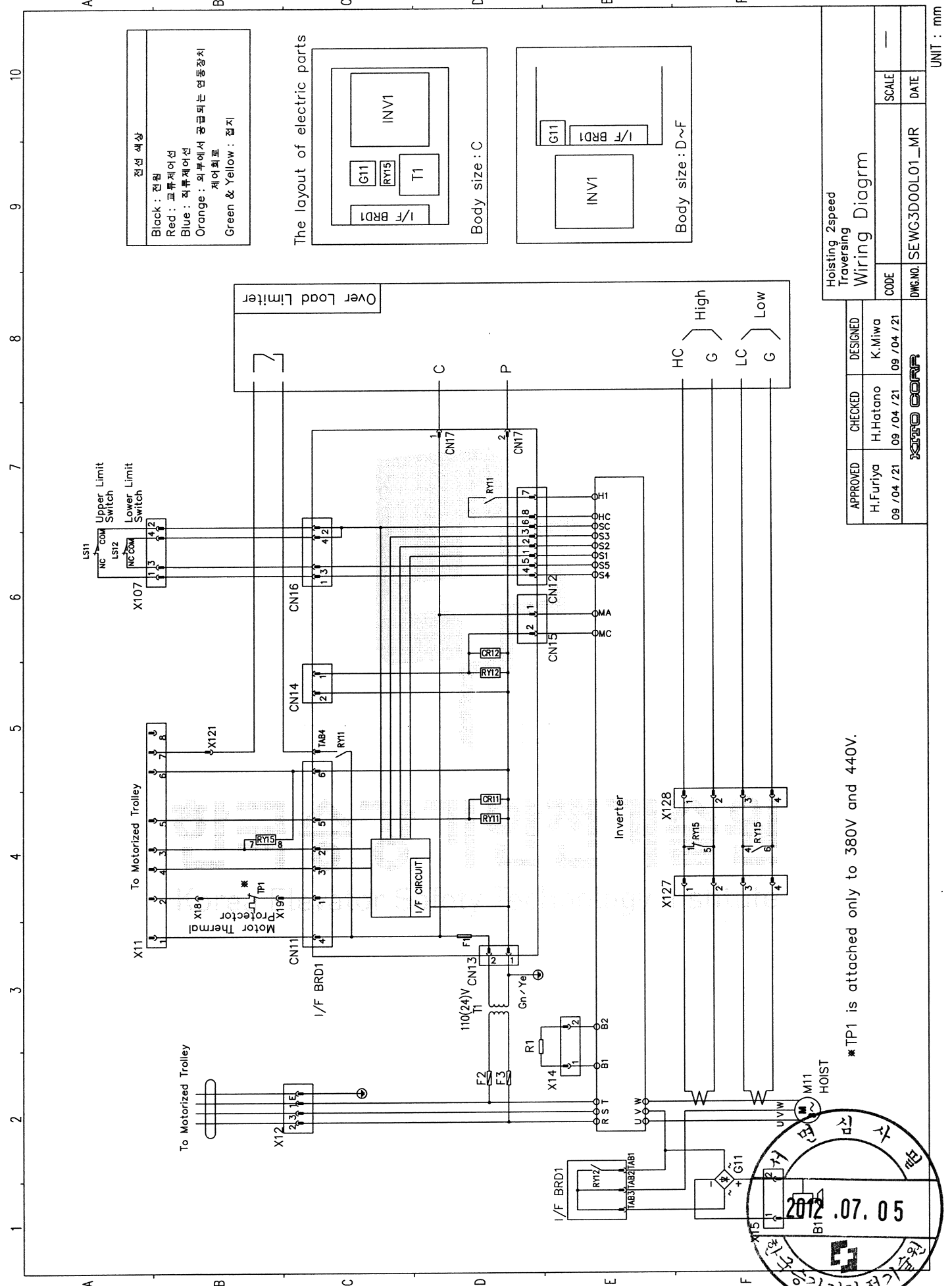


특수 공구(+, 육각)을 사용하여
 개방구 쪽은 제외

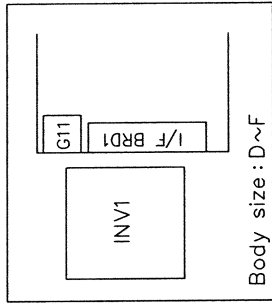
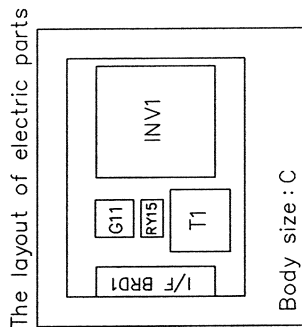
APPROVED	CHECKED	DESIGNED
H.Furiya	T.Hatano	K.Miwa
09 /04 /21	09 /04 /21	09 /04 /21
KOREA CO., LTD.		
Hoisting : 1 speed		
Wiring Diagram		
CODE	SCALE	DATE
09W3100L01	—	—

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





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



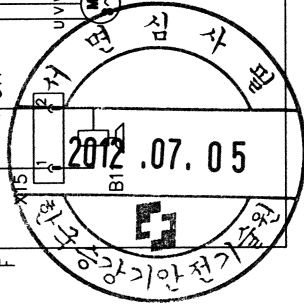
Hoisting 2speed
 Traversing
 Wiring Diagram

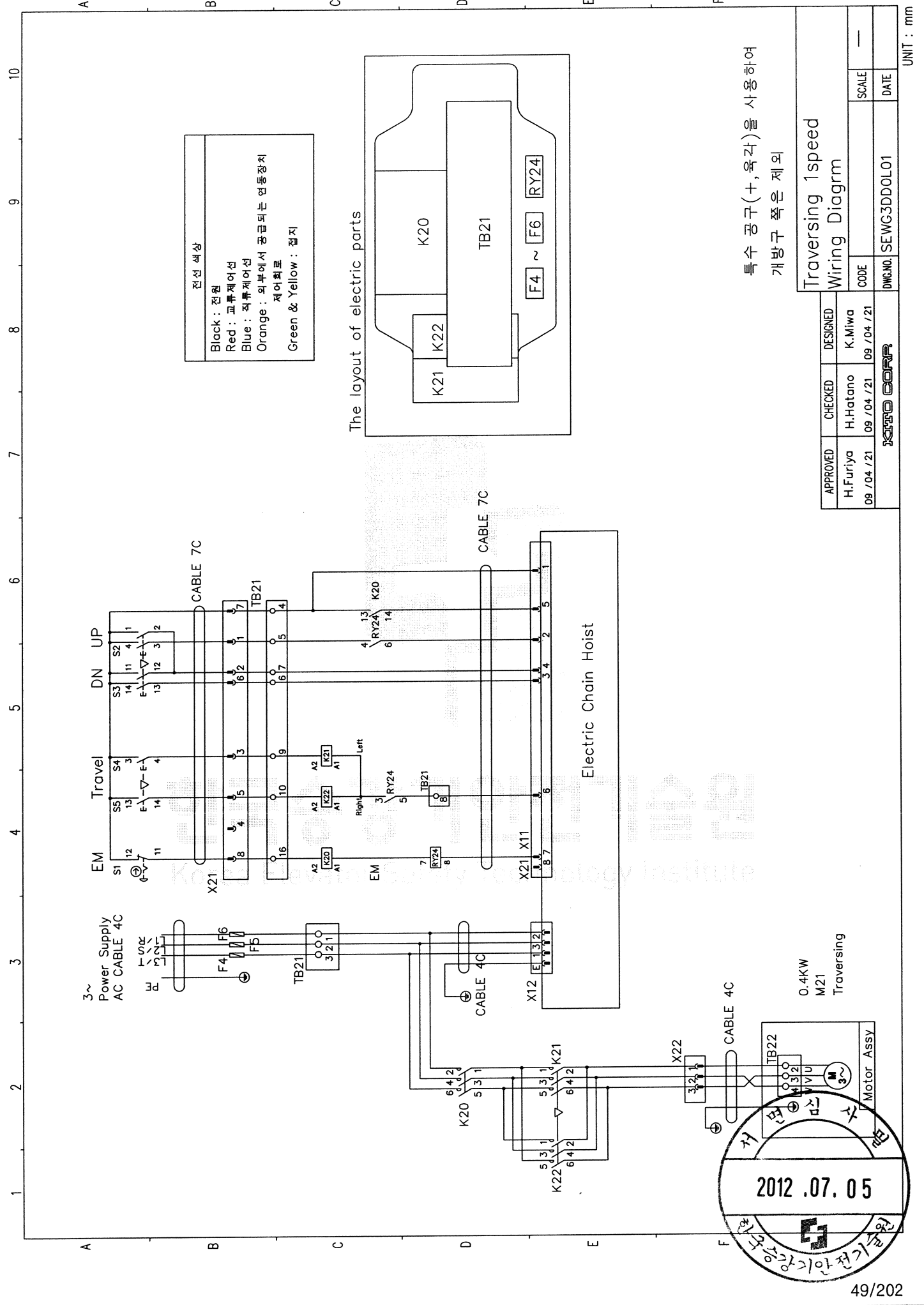
APPROVED	CHECKED	DESIGNED
H.Furiya	H.Hatano	K.Miwa
09 / 04 / 21	09 / 04 / 21	09 / 04 / 21

CODE	SCALE	DATE
—	—	—

UNIT : mm

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

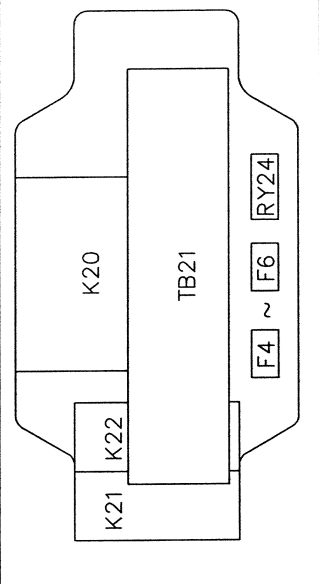




전선 색상

Black : 전령
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

Traversing 1speed
Wiring Diagram

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

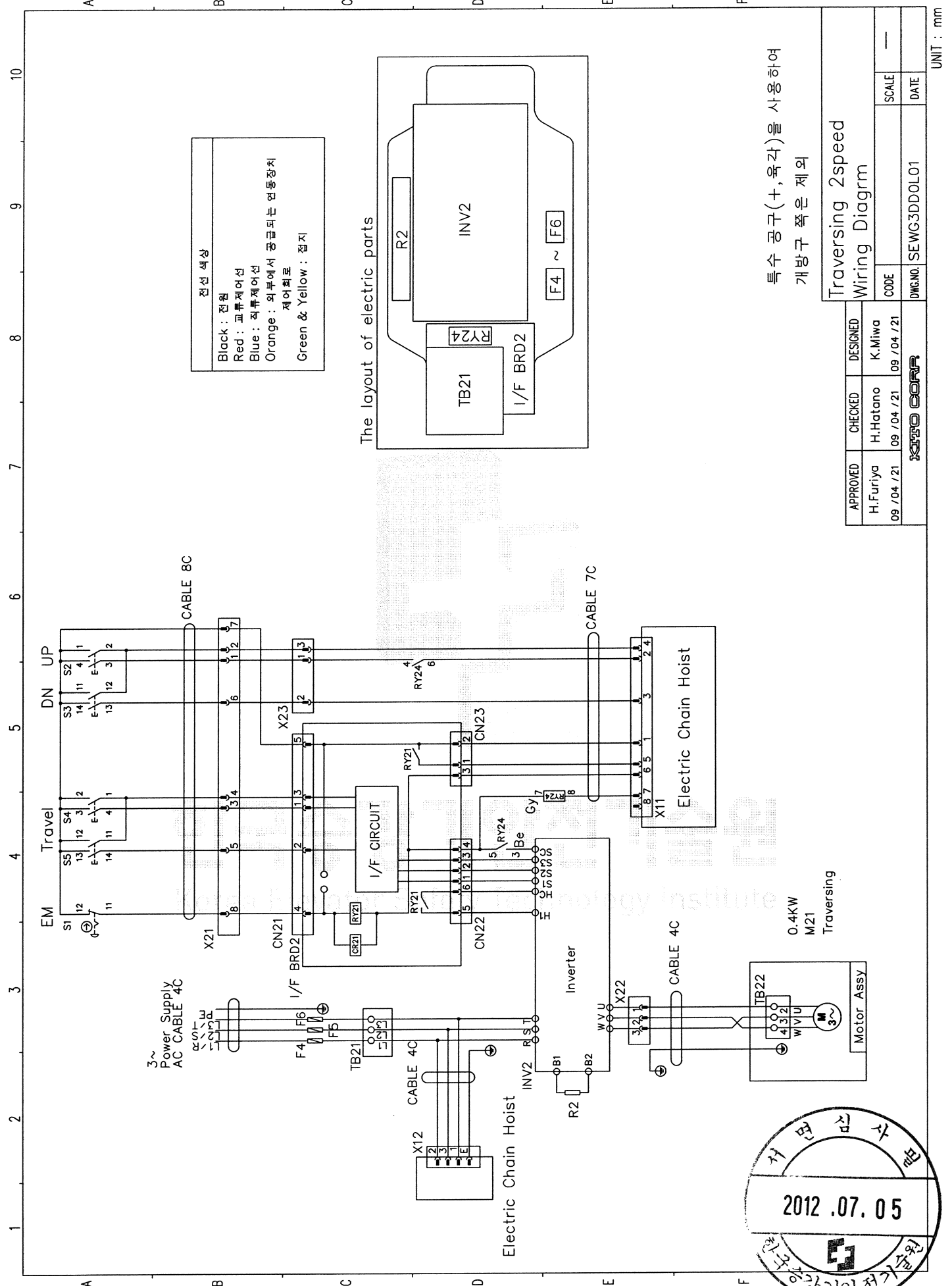
CODE	SCALE	DATE
DWG.NO. SEWG3DD0L01	—	—

UNIT : mm

2012 .07. 05

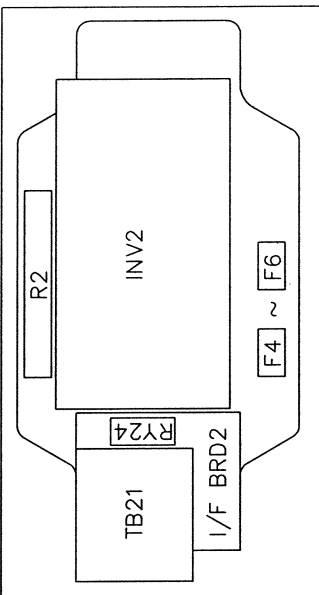
0.4KW
M21
Traversing

Motor ASSY



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

The layout of electric parts



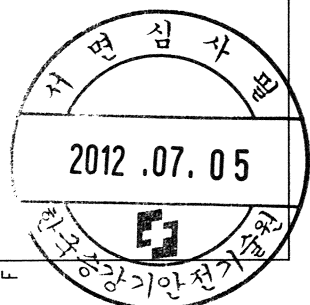
특수 공구(+, 육각)를 사용하여
 개방구 쪽은 제외

Traversing 2speed
 Wiring Diagram

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

CODE	SCALE	DATE
DWG.NO. SEWG3DD0L01	—	—

UNIT : mm



CABLE 구성도 및 사양 - 권상 용량 0.9kW

CABLE SPECIFICATION FOR ER2M

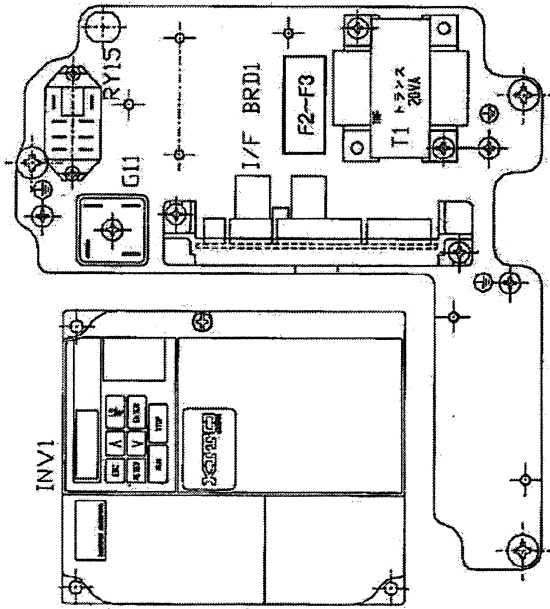
NO	ITEM	TYPE	ER2M10	
			SIZE	
①	Power Line	VCT	3.5sq x 4C	
②	Push Button Switch	VCT	1.25sq x 8C	
③	Loas Limit	VCT	0.75sq x 8C	
④	Power Line for ER	VCT	2sq x 4C	
⑤	Control Line for ER	VCT	1.25sq x 6C	
⑥	Traversing Motor With Earth	VCT	1.25sq x 4C	

(3Φ 220(208)V / 380V / 440V 60Hz)

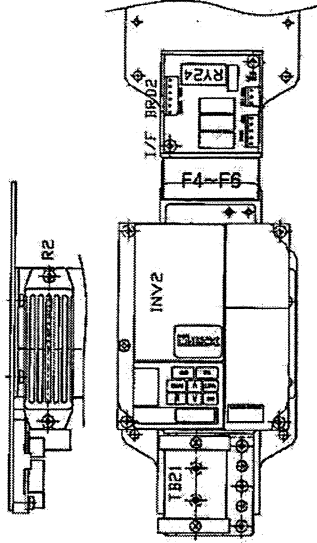


호이스트 CONTROL BOX 배치도

HOISTING CONTROL BOX

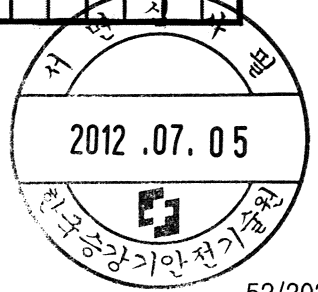


TRAVERSING CONTROL BOX

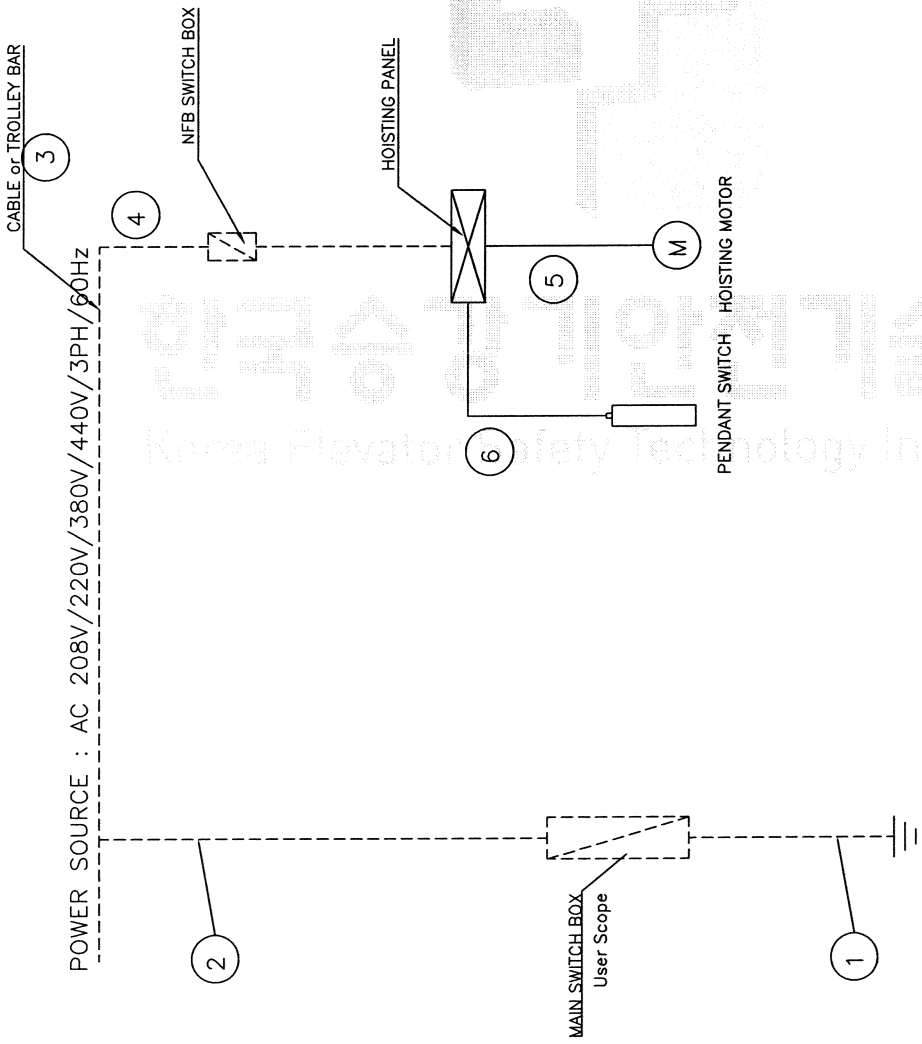


ENCLOSURE : HOIST BODY - IP55
PUSH BUTTON - IP65

MARK	DESCRIPTION	TYPE OF MODEL			QTY	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	S15VB80	S15VB60	S15VB60	1	SHINDENGEN	
1/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
1/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	



1 2 3 4 5 6 7 8 9



- 접지설비 시공방법
1. 전동기의 외함, 제어반 등은 접지를 해야 하며 그 접지 저항은 다음의 규정을 따른다.

접지공사	
3중 접지공사	400V이하 100Ω이하
특3중 접지공사	400V이상 10Ω이하

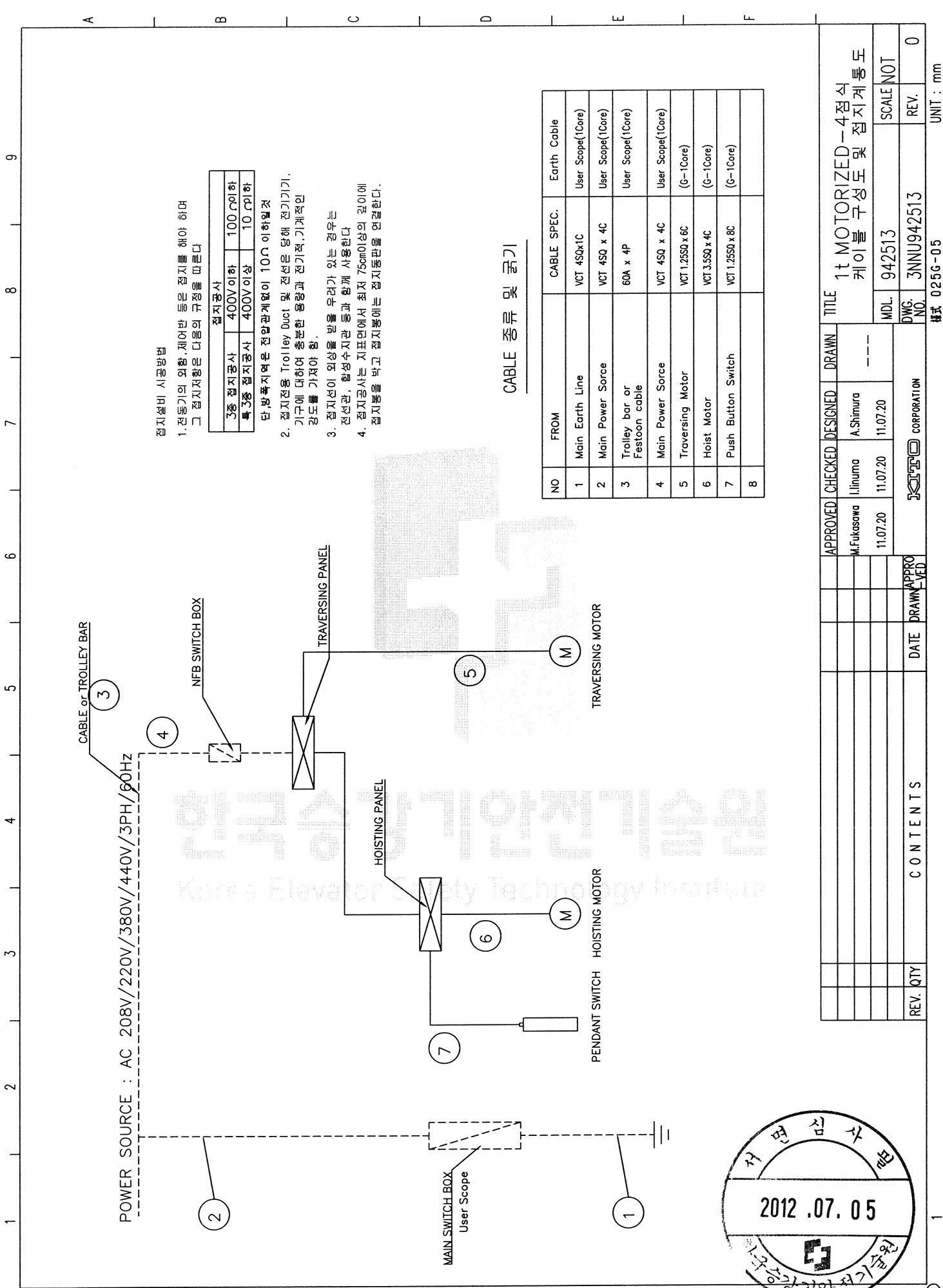
 단, 방폭지역은 전압관계없이 10Ω 이하일것
 2. 접지 전용 Trolley Duct 및 전선은 당해 전기기기, 기구에 대하여 충분한 용량과 전기적, 기계적인 강도를 가져야 함.
 3. 접지선이 외상을 받을 우려가 있는 경우는 전선관, 합성수지관 등과 함께 사용한다
 4. 접지공사는 지표면에서 최저 75cm이상의 깊이에 접지봉을 박고 접지봉에는 접지용판을 연결한다.

CABLE 종류 및 굵기

NO	FROM	CABLE SPEC.	Earth Cable
1	Main Earth Line	VCT 450x1C	User Scope(1Core)
2	Main Power Sorce	VCT 450 x 4C	User Scope(1Core)
3	Trolley bar or Festoon cable	60A x 4P	User Scope(1Core)
4	Main Power Sorce	VCT 450 x 4C	User Scope(1Core)
5	Hoist Motor	VCT3.550 x 4C	(G-1Core)
6	Push Button Switch	VCT 1.2550 x 8C	(G-1Core)
7			
8			

REV.	QTY	CONTENTS	DATE	DRAWN	APPROVED	CHECKED	DESIGNED	DRAWN	TITLE
									1t MOTORIZED-2점식 케이블 구성도 및 접지계통도
									MDL. 942513
									DWG. NO. 3NNU942513
									SCALE NOT
									REV. 0





접지설비 시공방법

- 전동기의 외함, 제어반 등은 접지를 해야 하며 그 접지 저항은 다음의 규정을 따른다

접지공사		
3중 접지공사	400V이하	100Ω이하
특3중 접지공사	400V이상	10Ω이하

단, 반복지역은 전압관계없이 10Ω 이하일 것

- 접지전용 Trolley Duct 및 전선은 당해 전기기기, 기구에 대하여 충분한 용량과 전기적, 기계적인 강도를 가져야 함.
- 접지선이 외상을 받을 우려가 있는 경우는 전선관, 합성수지관 등과 함께 사용한다
- 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	DESIGNED	DRAWN	TITLE
								1t MOTORIZED-4점식 케이블 구성도 및 접지계통도
								MDL. 942513
								DWG. NO. 3NNU942513
								SCALE NOT
								REV. 0



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".

한국승강기안전기술원
Korea Elevator Safety Technology Institute

Technical Control Group

Test Certificate

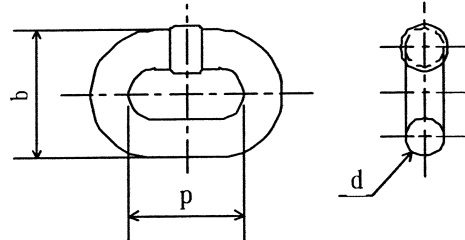
Messrs.

Commodity: NC Load Chain

Code: KER077

Lot No.: —

Quantity: — line(s)



1. Material: Manganese Alloy Steel

2. Dimensions

	d	p	b
Specified	7.7mm ± 0.3	21.4mm $\begin{matrix} +0.46 \\ 0 \end{matrix}$	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 Department
Development & Technology Division

K. Kishimoto (Manager)

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

(Manager)

K. Kishimoto

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

(Manager)

R. Kishimoto

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara (Manager)

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



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

Quality Assurance Group
Quality Assurance Department
Development & Technology Division

(Manager)

K. Kishimoto

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



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Quality Assurance Group
Quality Assurance Department
Development & Technology Division

(Manager)

K. Kishimoto

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



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M. Ogihara (Manager)

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



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Quality Assurance Group
Quality Assurance Department
Development & Technology Division

M. Ogihara

(Manager)

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



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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



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