



## 심사결과 통지서

신청인	사업장명	(주)KITO	사업장관리번호	2010E110010
	사업자등록번호	010-E1-10010	대표자 성명	KITO YOSHIO
	소재지	2000, Tsuijjarai, Showa-Cho, Nakakoma-Gun, Yamanashi, Japan		
안전인증대상기계·기구명 호이스트				
형식(규격)	KML-ER2-005		용량(등급)	0.5 ton

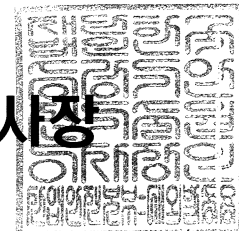
「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따라 실시한

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

2012년 09월 12일

인증심사원 최 창 일 (서명)  
오 태 화 (서명)

한국승강기안전기술원 이사장





제 CA-2012-0031 호

## 안 전 인 증 서

( 사업장명 ) (주)KITO

( 소재지 ) 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):	KML-ER2-005(0.5 ton)	_____
_____ 인증번호 :	12-CA4AC-0031	_____
_____ 인증기준 :	위험기계·기구 의무안전인증기준 (고용노동부고시 제2011-39호)	_____
_____ 인증조건 :	산업안전보건법 "제34조 준수"	_____

2012년 11월 30일

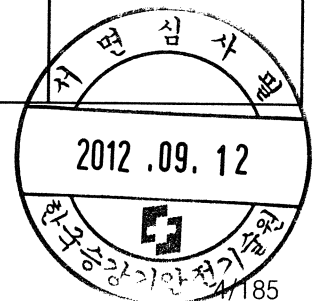
한국승강기안전기술원 이사장



【별지 제4호서식】

동 일 형 식 일 람 표

사업장명	KITO CORP.		개정일자 및 번호	2012.08.30	인증번호
형식 및 모델번호		동일형식 항목 및 내역			
형식번호	모델번호	동일형식 항목1	동일형식 항목2	동일형식 항목3	동일형식 항목4
KML-ER2-005	KITO-ER2-005L	Lift max 30m	권상모타 0.56kW	횡행모타 없음	Trolley고정형
	KITO-ER2-005IL		권상모타 0.56kW		Trolley 있음
	KITO-ER2SP005L		권상모타 0.56kW		Trolley + 수동체인
	KITO-ER2SP005IL				
	KITO-ER2SG005L				
	KITO-ER2SG005IL				
	KITO-ER2M005L-S				
	KITO-ER2M005L-L				
	KITO-ER2M005L-IS				
	KITO-ER2M005L-IL				
	KITO-ER2M005IL-S				
	KITO-ER2M005IL-L				
	KITO-ER2M005IL-IS				
	KITO-ER2M005IL-IL				
	KITO-C-ER2M005L-S				
	KITO-C-ER2M005L-L				
	KITO-C-ER2M005L-IS				
	KITO-C-ER2M005L-IL				
	KITO-C-ER2M005IL-S				
	KITO-C-ER2M005IL-L				
KITO-C-ER2M005IL-IS					
KITO-C-ER2M005IL-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  
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.

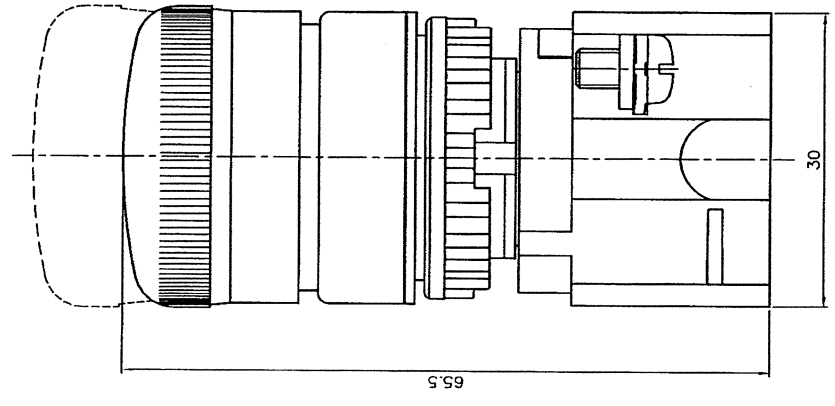
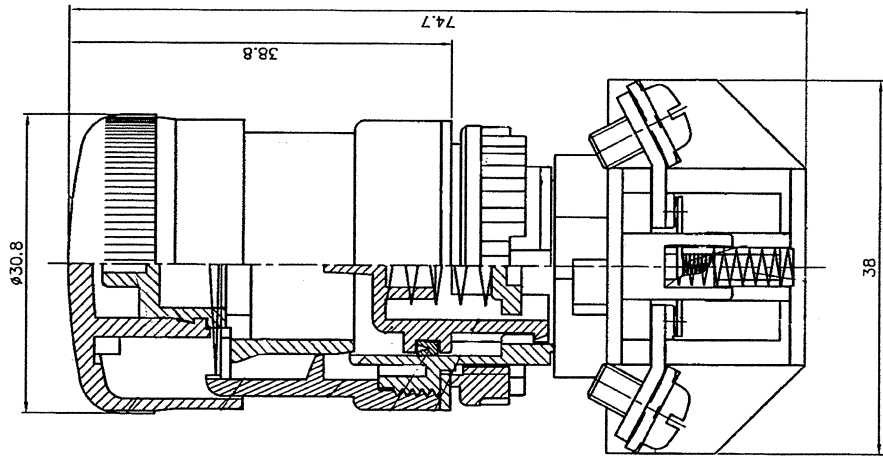
정호엔지니어링, 경기도 광명시 노온사동 440-5

2012년 06월 11일

한국산업안전보건공단 이사장



F E D C B A



圖號	T2-BKH
品名	T2 BKH 連鎖開關
材質	表面處理 顏色
單位	mm
比例	2:1
投影法	第一角法
繪圖	設計課 95.05.24 吳宗達
校對	研察部 95.05.24 周欽祥
核准	研察部 95.05.24 錢健誌
品保	品保部 95.05.24 林建宏
最新修正	
前次修正	

2012.09.11

台灣  
HONG KONG  
HONG KONG

最新修正  
前次修正

品保部  
95.05.24  
林建宏

研察部  
95.05.24  
錢健誌

研察部  
95.05.24  
周欽祥

設計課  
95.05.24  
吳宗達

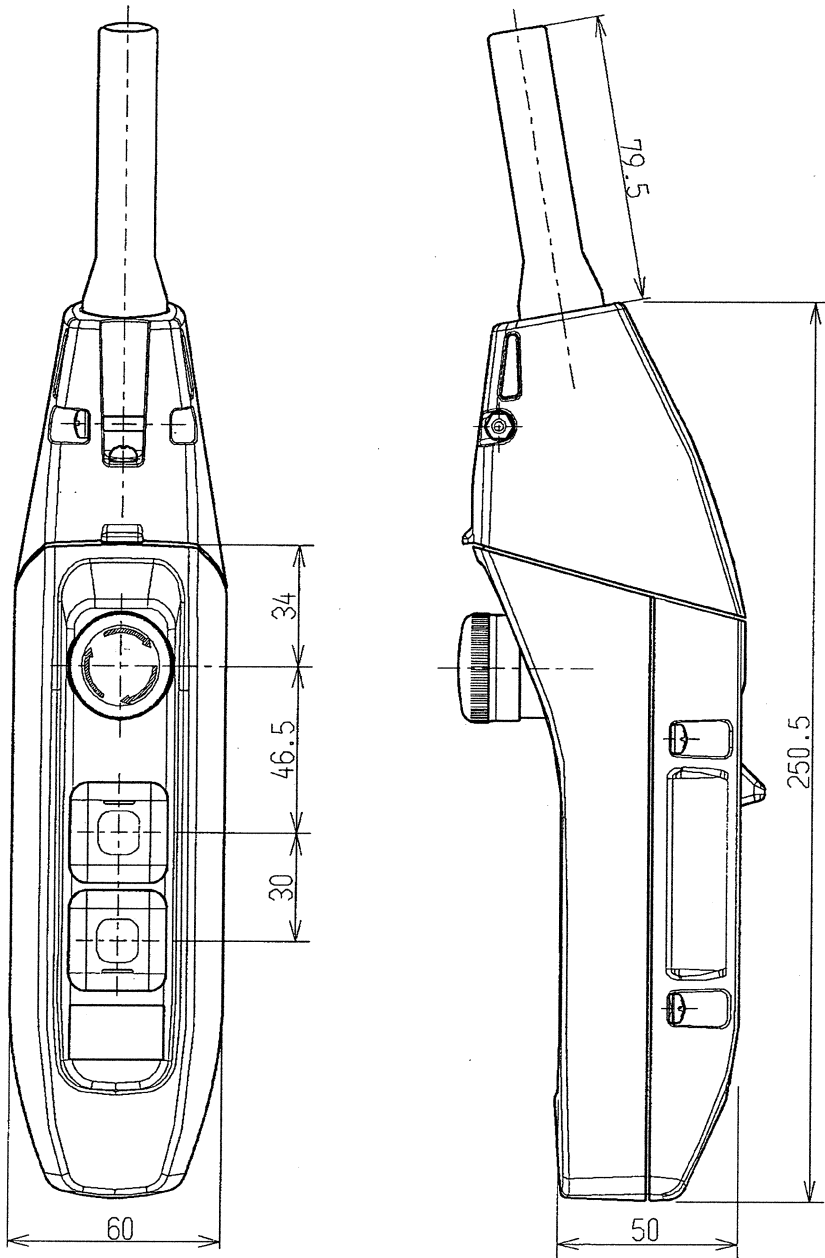
品保部  
95.05.24  
林建宏

研察部  
95.05.24  
錢健誌

研察部  
95.05.24  
周欽祥

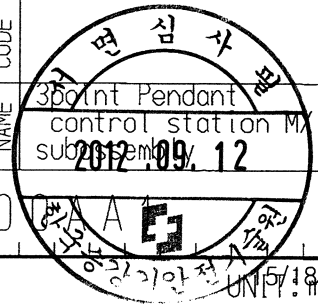
設計課  
95.05.24  
吳宗達

Revision	Incidence	Description	Date	Change	Approved

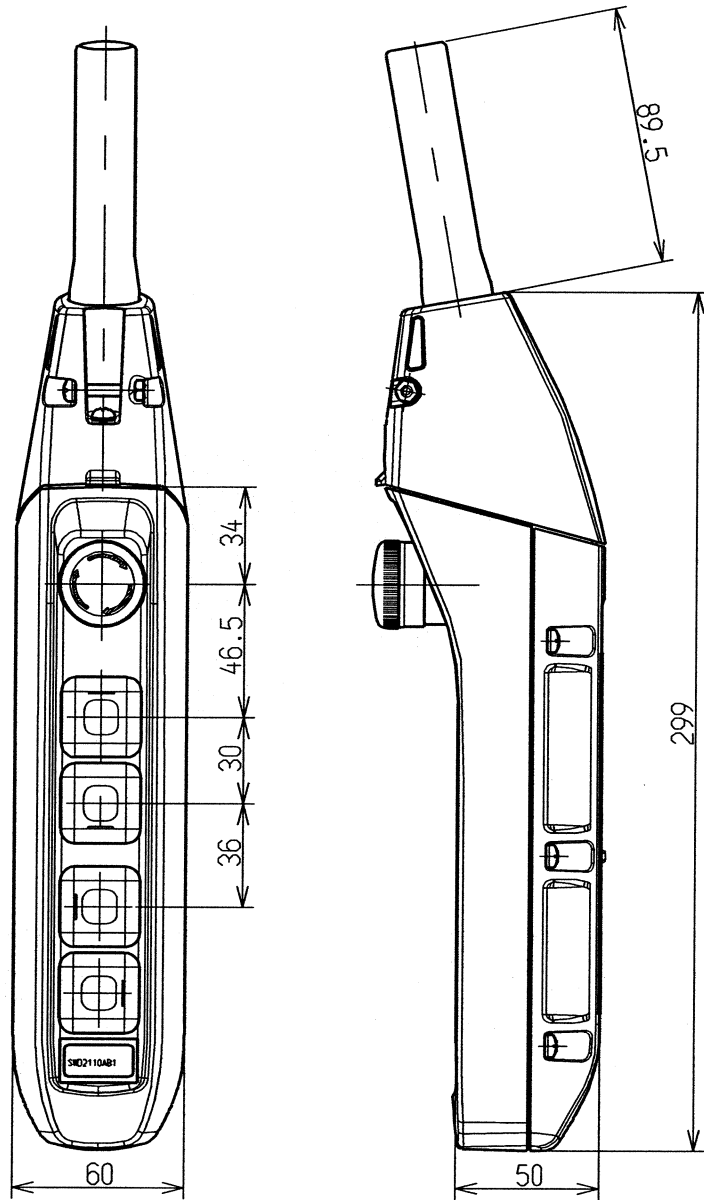


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⑤	
④	
③	
②	
①	

APPROVED		CHECKED		DESIGNED		DRAWN		SCALE		DWG. NO., NOS./UNIT MATERIAL		NAME CODE	
ISHIKAWA	FURIYA	KOBAYASHI	KOBAYASHI	-	SWD2X0	350mV Pendant		control station MX		substation		2012.09.12	
Date issued	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08								



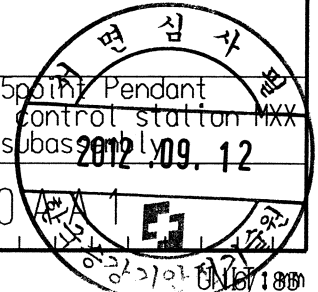
Revision	Incidence	Description	Date	Charge	Approved



The lifting and lowering push buttons are marked with  $\updownarrow$  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.

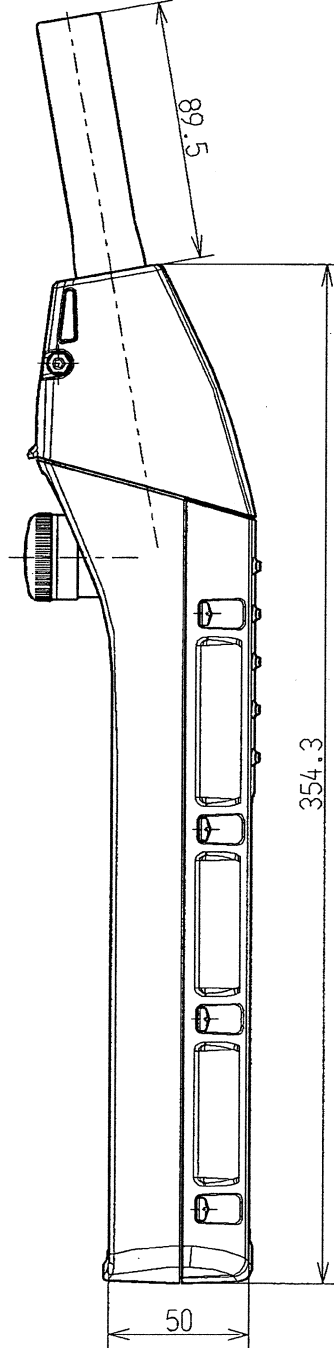
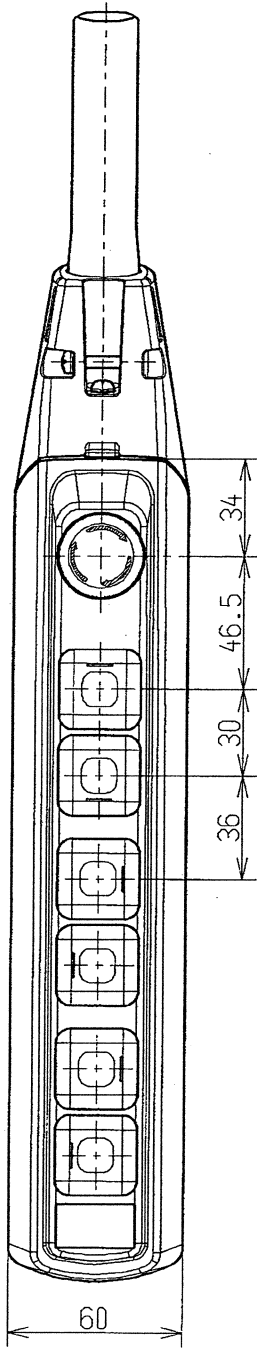
⑥
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Date issued

APPROVED		H.FURIYA		CHECKED		T.HATANO		DESIGNED		KOBAYASHI		DRAWN		KOBAYASHI		SCALE		-		DWG. NO.		S W D 2 X X 0	
DATE		09.04.21		DATE		09.04.21		DATE		09.04.21		DATE		09.04.21		DATE		DATE		DATE		DATE	
MATERIAL				MATERIAL				MATERIAL				MATERIAL				MATERIAL				MATERIAL			
NAME		CODE		NAME		CODE		NAME		CODE		NAME		CODE		NAME		CODE		NAME		CODE	
5point Pendant		control station MXX		subas		2012.09.12																	



Revision	Incidence	Description	Date	Charge	Approved
1					

E  
W  
S  
N



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②	
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NOTE

APPROVED	ISHIKAWA	CHECKED	FURIYA	DESIGNED	KOBAYASHI	DRAWN	KOBAYASHI	SCALE	-	DWG. NO.	SWD2XXX
Date issued	08.02.08		08.02.08		08.02.08		08.02.08			NOS./UNIT	MATERIAL

NAME CODE

Point Pendant  
control station MXXX  
subassembly

2012.09.12

사변심사부

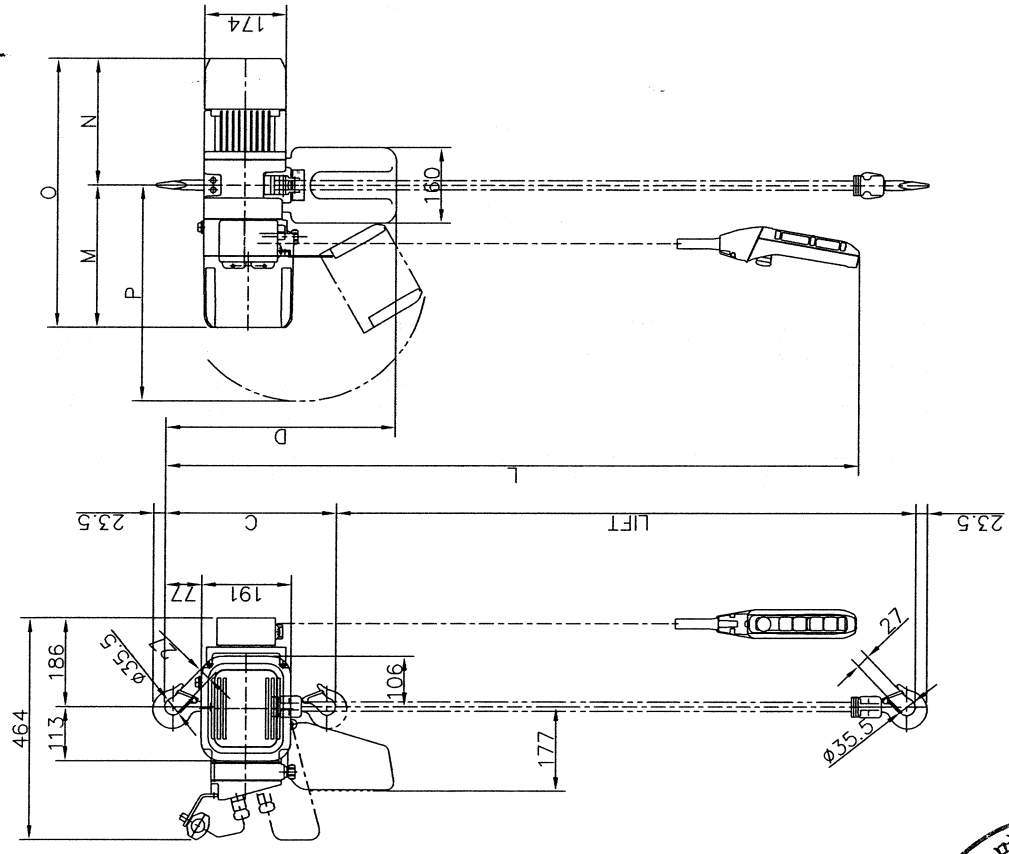
UN17185



1 2 3 4 5 6 7 8 9

형식번호: KML-ER2-005  
 Model number: KITO-ER2-005L  
 KITO-ER2-005IL

Dimensions		M	N	O	P
1속	242	271	513	427	
2속	300		571	455	



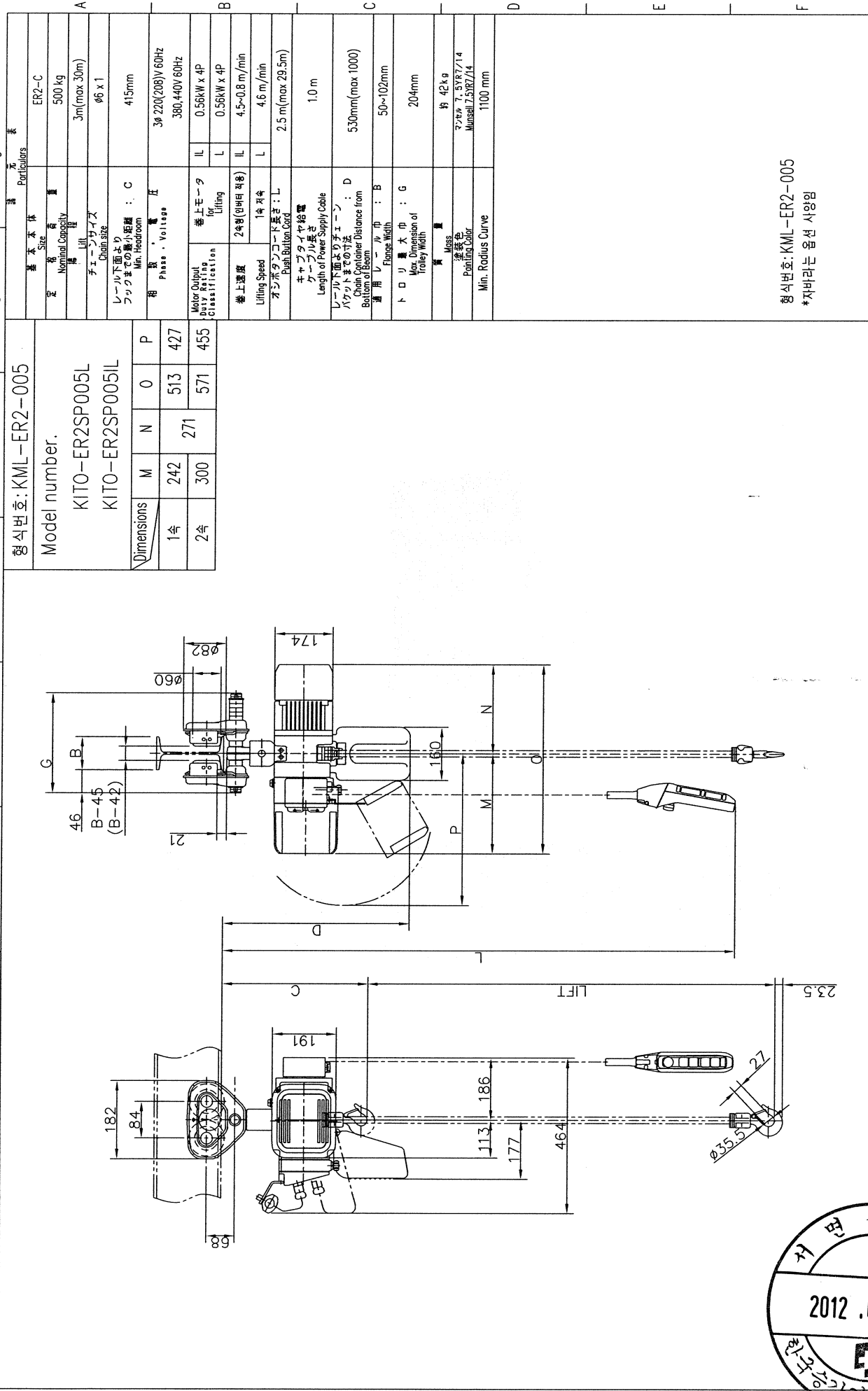
Particulars		
基本本体	ER2-C	
定常容量	500 kg	
昇降距離	3m(max 30m)	
チェーンサイズ	96 x 1	
レール下面よりフックまでの最小距離	370mm	
相電圧・電周波数	3φ 220(208)V 60Hz 380,440V 60Hz	
Motor Output for Lifting	IL	0.56kW x 4P
	L	0.56kW x 4P
巻上速度	IL	4.5-0.8 m/min
	L	4.6 m/min
押しボタンコード長さ	L	2.5 m(max 29.5m)
ケーブル長さ		1.0 m
レール下面よりチェーンパケットまでの寸法	D	490mm(max 1000)
質量		約 34kg
塗装色		7.59R7/14 Munsell 7.59R7/14

형식번호: KML-ER2-005  
 \*자바라는 옵션 사양임

Name		Title	
承認	APPROVED	製圖	DRAWN
檢査	CHECKED	設計	DESIGNED
承認	APPROVED	承認	APPROVED
年・月・日	DATE	担当者	DRAWN
数	QTY	R COMMENTS	
改訂	REV		
製造番号			
CODE			
ER2			
500kg ER2M SERIES ELECTRIC CHAIN HOIST STANDARD			
尺度			
SCALE			
変更回数			
REV			
KML-ER2-005-001			
接式 025P-19			
単位 : mm			



1 2 3 4 5 6 7 8 9



형식번호: KML-ER2-005  
 Model number.  
 KITO-ER2SP005L  
 KITO-ER2SP005IL

Dimensions		M	N	O	P
1속	242	271	513	427	
2속	300		571	455	

형식번호: KML-ER2-005  
 \*자바라는 옵션 사양임

基本仕様 Particulars		ER2-C	
定額容量 (Nominal Capacity)	500 kg	3m (max 30m)	415mm
チェーンサイズ (Chain size)	96 x 1	3φ 220(208)V 60Hz	380, 440V 60Hz
レール下面よりフックまでの中心距離 (Min. Headroom)	C	巻上モーター for Lifting	IL
相数・電圧 (Phase・Voltage)		0.56kW x 4P	L
		0.56kW x 4P	L
		4.5~0.8 m/min	IL
		4.6 m/min	L
		2.5 m (max 29.5m)	
Motor Output Duty Rating Classification		ケーブル長さ (Length of Power Supply Cable)	1.0 m
巻上速度 (Lifting Speed)		レール下面よりチェーンハケットまでの寸法 (Chain Coupler Distance from Bottom of Beam)	530mm (max 1000)
オンボタンコード長さ (Push Button Cord Length)		適用レール巾 (Flange Width)	50~102mm
キャブタイプや給電ケーブル長さ (Cable Length)		トロリ幅大巾 (Max. Dimension of Trolley Width)	204mm
質量 (Mass)	約 42kg	質量 (Mass)	
塗装色 (Painting Color)	マニッシュ 7.5YR7/14, ムンセル 7.5R7/14	質量 (Mass)	
Min. Radius Curve	1100 mm		

承認 APPROVED	検閲 CHECKED	設計 DESIGNED	製図 DRAWN	名称 TITLE
				500kg ER2M SERIES ELECTRIC CHAIN HOIST WITH PLAN TROLLEY
株式会社 KITO CORP				図番 DRAWING NO.
KITO CORP				KML-ER2-005-002
設計 REV.	数 QTY	内容 CONTENTS		尺度 SCALE
				変更図改 REV.
年 DATE	月 MONTH	日 DAY	承認 APPROVED	



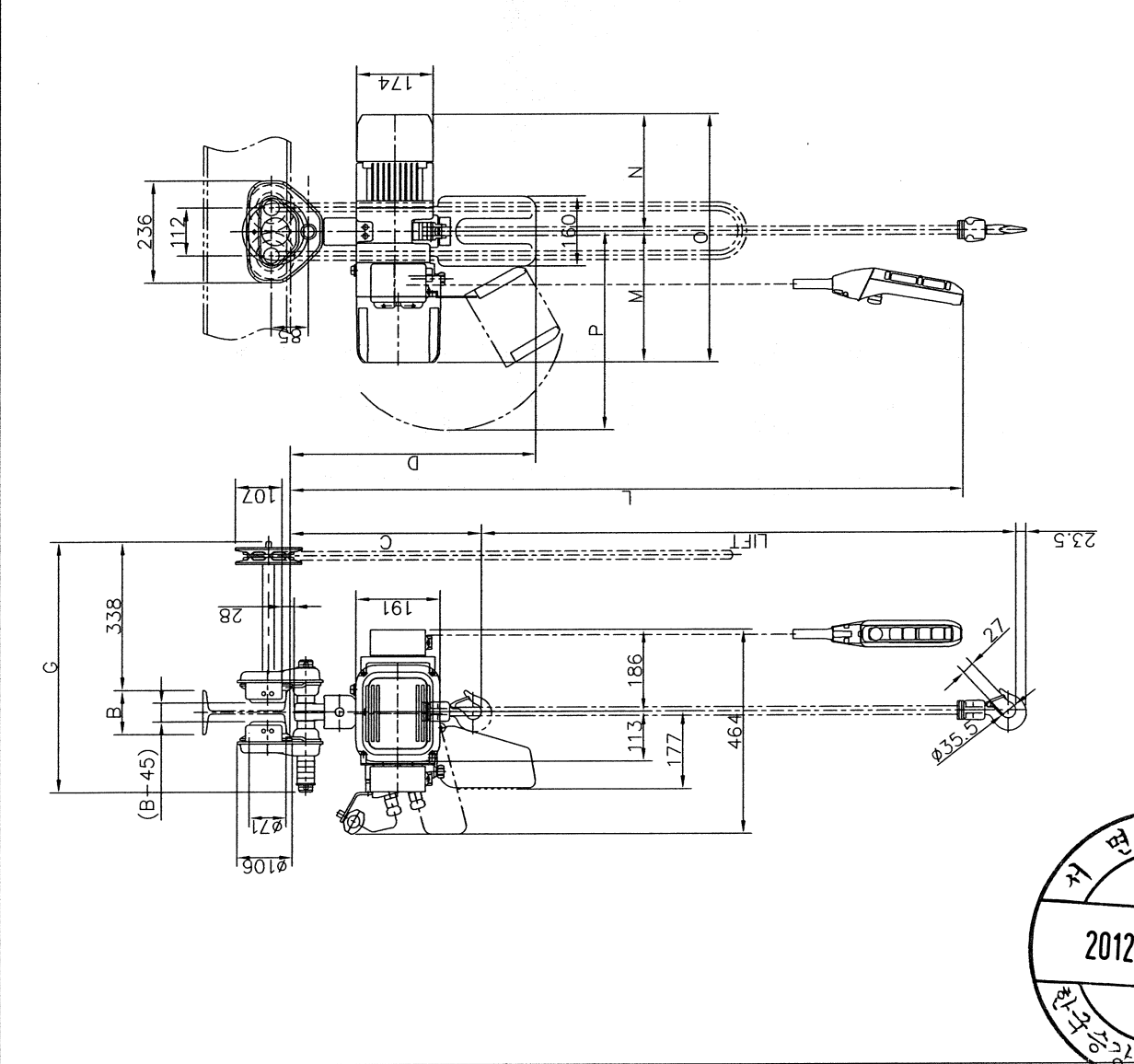
樣式 025P-19 三角法 單位 : mm

9 8 7 6 5 4 3 2 1

型式번호: KML-ER2-005 Model number. KITO-ER2SG005L KITO-ER2SG005IL		基本仕様 Size ER2-C 定常荷重 Normal Capacity 500 kg チェーンサイズ Chain size 3m(max 30m) レール下面よりフックまでの最小距離: C Min. Headroom 相電圧 Phase Voltage 3φ 220(208)V 60Hz 380,440V 60Hz		Motor Output Output Rating Classification 巻上速度 Lifting Speed 2段階(吊り上げ時) 1巻上速度 1巻上速度 オフロード速度 Push Button Load 長さ Length of Power Supply Cable レール下面までの寸法 Chain Container Distance from Bottom of Beam 適用レール巾 Flange Width トロリ最大巾 Max. Dimension of Trolley Width 質量 Mass 塗装色 Painting Color Min. Radius Curve		Particulars ER2-C 500 kg 3m(max 30m) φ6 x 1 435mm 3φ 220(208)V 60Hz 380,440V 60Hz IL 0.56kW x 4P L 0.56kW x 4P IL 4.5~0.8 m/min L 4.6 m/min 2.5 m(max 29.5m) 1.0 m 550mm(max 1000) 58~127mm 531mm 約 50kg Munsell 7.5YR7/14 Munsell 7.5YR7/14 1300 mm	
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名称 TITLE 500kg ER2M SERIES ELECTRIC CHAIN HOIST WITH GEAR TROLLEY	図番 DWG.NO. KML-ER2-005-003	尺度 SCALE 変更回数 REV.
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承認 APPROVED	検閲 CHECKED	設計 DESIGNED	製図 DRAWN	社名 株式会社 KITO CORP
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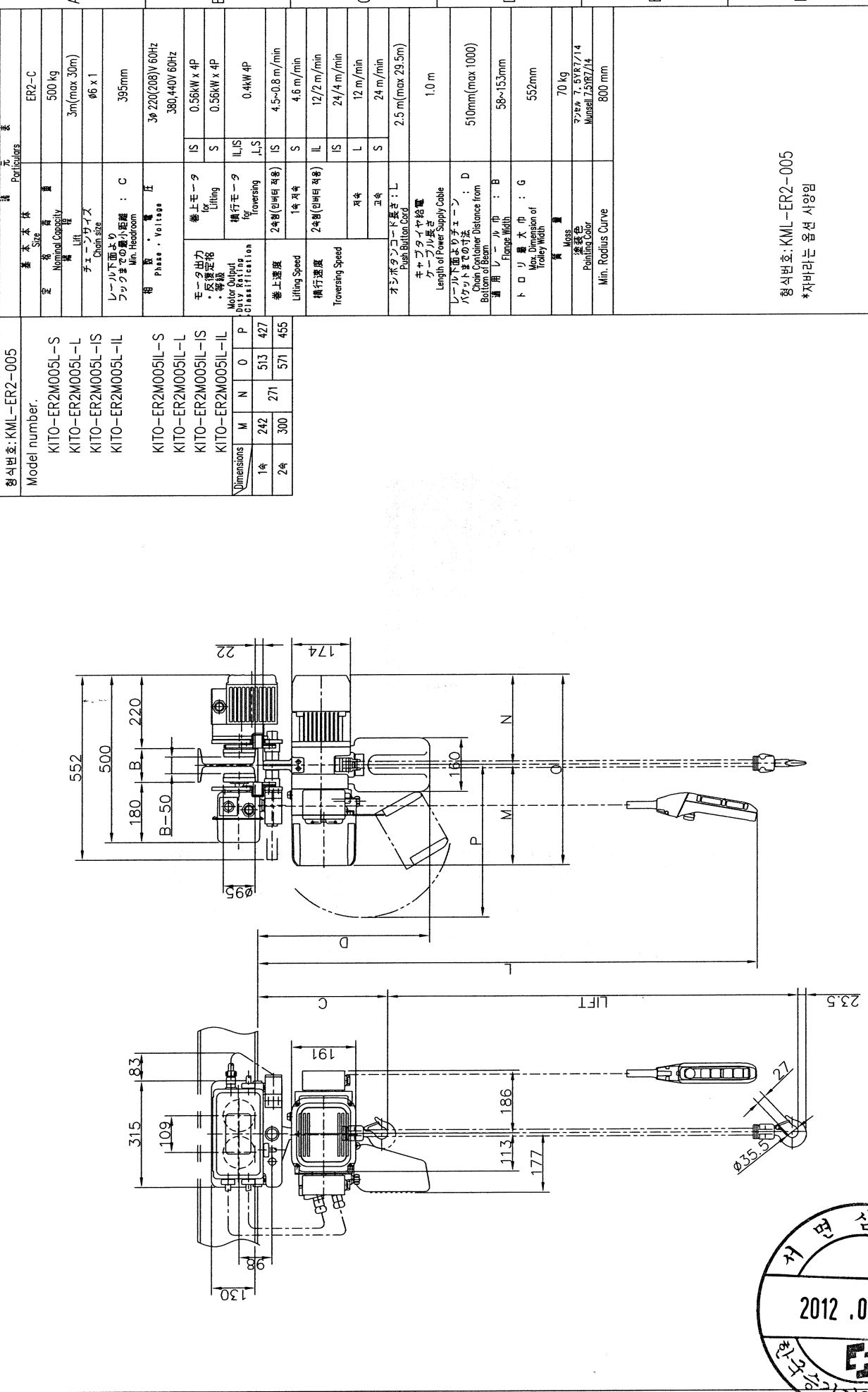
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訂 数 REV. QTY	内 容 CONTENTS	年 月 日 DATE	承認 APPROVED
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접식: 025P-19  
 単位: mm

1 2 3 4 5 6 7 8 9



형식번호: KML-ER2-005	Model number.
KITO-ER2M005L-S	
KITO-ER2M005L-L	
KITO-ER2M005L-IS	
KITO-ER2M005L-IL	
KITO-ER2M005IL-S	
KITO-ER2M005IL-L	
KITO-ER2M005IL-IS	
KITO-ER2M005IL-IL	

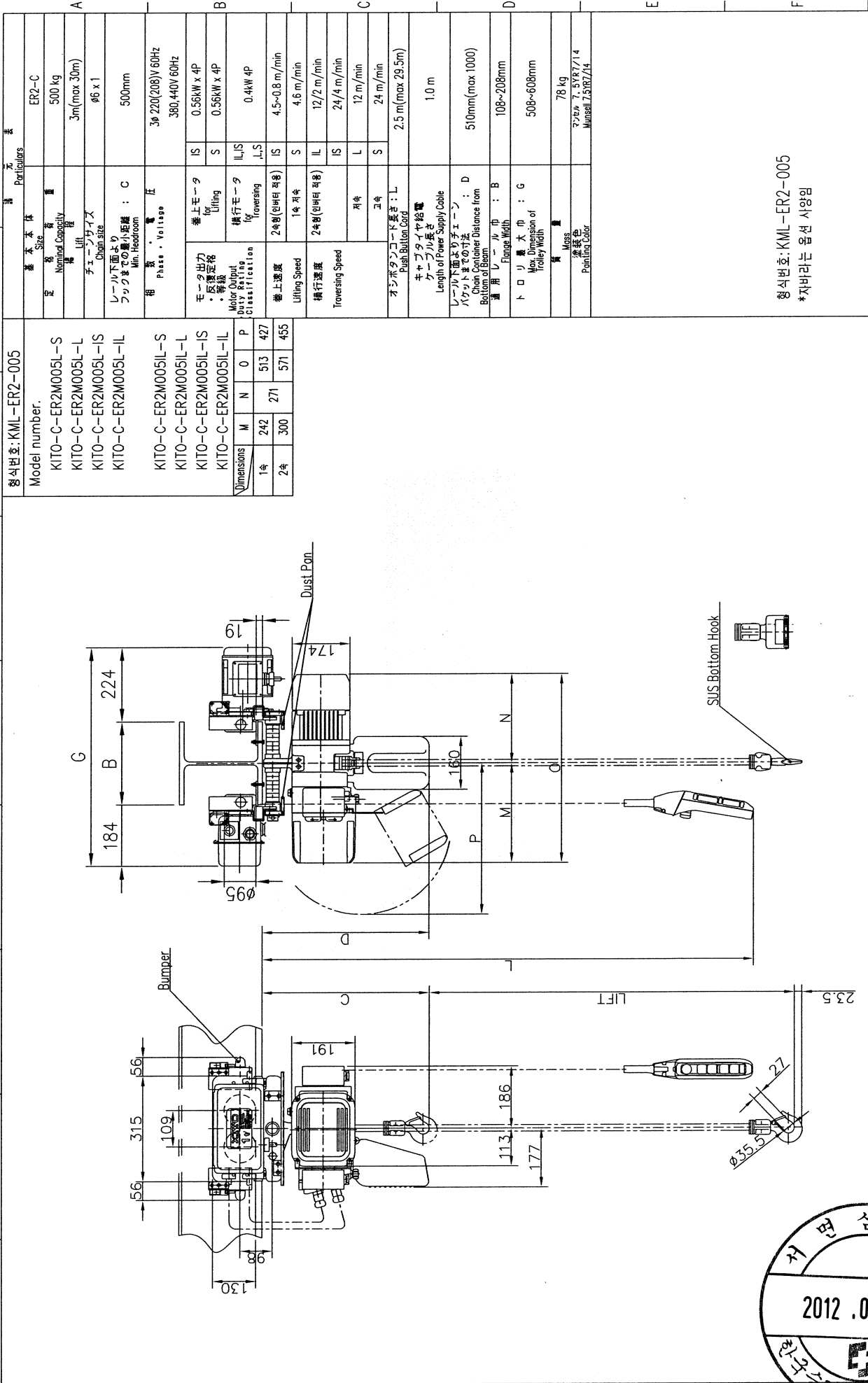
Dimensions	M	N	O	P
1축	242	271	513	427
2축	300		571	455

基本仕様 Nominal Capacity	500 kg
チェーンサイズ Chain size	3m(max 30m)
レール下面よりフックまでの最小距離 Min. Headroom	395mm
電圧 Voltage	3φ 220/208V 60Hz 380.440V 60Hz
モーター出力 ・反巻定格 ・等級 Motor Output Duty Rating Classification	IS 0.56kW x 4P S 0.56kW x 4P IL, IS 0.4kW x 4P L, S
巻上速度 Lifting Speed	24m/min(10m/min) 15m/min 4.6 m/min
横行速度 Traversing Speed	12m/min 24/4 m/min 12 m/min 24 m/min
オンボタンのコード長さ L ケーブル長 Length of Power Supply Cable	2.5 m(max 29.5m) 1.0 m
レール下面よりチェーン ボトムまでの寸法 Chain Container Distance from Bottom of Beam	510mm(max 1000)
通孔レールの寸法 Flange Width	58~153mm
トロリ器大巾 Max. Dimension of Trolley Width	552mm
質量 Mass	70 kg
塗装色 Painting Color	マゼンタ 7.5YR7/14 Munsell 7.5R7/14
Min. Radius Curve	800 mm

형식번호: KML-ER2-005  
\*자바리는 음션 사양임

명칭 TITLE	500kg ER2M SERIES ELECTRIC CHAIN HOIST WITH MOTORIZED TROLLEY	
製 DRAWN		
設 DESIGNED		
検 CHECKED		
認 APPROVED		
製造番号 CODE	ER2-M	
図番 DWG. NO.	KML-ER2-005-004	
尺度 SCALE		
変更回数 REV.		
承認 APPROVED		
担当 DRAWN		
年月日 DATE		
承認 APPROVED		
数量 QTY		
内容 CONTENTS		
会社 COMPANY	KOTO CORP	





형식번호: KML-ER2-005		Model number:	
1차	242	1차	427
2차	300	2차	455

Dimensions	M	N	O	P
1차	242	271	513	427
2차	300	371	571	455

基本仕様		Particulars	
定常荷重	500kg	規格	ER2-C
チェーンサイズ	3m(max.30m)	チェーン	500mm
チェーン径	φ6 x 1	チェーン	500mm
チェーン下よりフックまでの最小距離	500mm	チェーン	500mm
相電圧	3φ 220V(208V) 60Hz	相電圧	380,440V 60Hz
モータ出力	0.56kW x 4P	モータ出力	0.56kW x 4P
反巻定格	0.56kW x 4P	反巻定格	0.56kW x 4P
モータ出力	0.4kW 4P	モータ出力	0.4kW 4P
モータ出力	4.5~0.8 m/min	モータ出力	4.5~0.8 m/min
モータ出力	4.6 m/min	モータ出力	4.6 m/min
モータ出力	12/2 m/min	モータ出力	12/2 m/min
モータ出力	24/4 m/min	モータ出力	24/4 m/min
モータ出力	12 m/min	モータ出力	12 m/min
モータ出力	24 m/min	モータ出力	24 m/min
モータ出力	2.5 m(max.29.5m)	モータ出力	2.5 m(max.29.5m)
モータ出力	1.0 m	モータ出力	1.0 m
モータ出力	510mm(max.1000)	モータ出力	510mm(max.1000)
モータ出力	108~208mm	モータ出力	108~208mm
モータ出力	508~608mm	モータ出力	508~608mm
モータ出力	78 kg	モータ出力	78 kg
モータ出力	7.5YR7/14	モータ出力	7.5YR7/14
モータ出力	Munsell 7.5YR7/14	モータ出力	Munsell 7.5YR7/14

형식번호: KML-ER2-005  
\*자바라는 옵션 사양임

명칭		TITLE	
500kg ER2M SERIES ELECTRIC CHAIN HOIST(CLEAN)		500kg ER2M SERIES ELECTRIC CHAIN HOIST(CLEAN)	
WITH MOTORIZED TROLLEY		WITH MOTORIZED TROLLEY	
製圖	DESIGNED	製圖	DESIGNED
檢査	CHECKED	檢査	CHECKED
承認	APPROVED	承認	APPROVED
年 月 日	DATE	年 月 日	DATE
相 当	DRAWN	相 当	DRAWN
承認	APPROVED	承認	APPROVED
製 社	SEPO CORP	製 社	SEPO CORP
製 式	KML-ER2-005-005	製 式	KML-ER2-005-005
尺 度	SCALE	尺 度	SCALE
圖 番	DWG.NO	圖 番	DWG.NO
製 圖 者	REV.	製 圖 者	REV.



# LOAD SUMMARY 1 – INVERTER사양

\*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	4 (A)	3 (A)	0.5 (A)

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

\*\*\* NOMAL 전류값 \*\*\*

권상과 횡행시 : HOISTING + TRAVERSING + CONTROL CIRCUIT = 7.5 A

\*\*\* PEAK 전류값 \*\*\*

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

NOMAL 전류값 \* K = 7.5 \* 1.25 = 9.375 A

\*POWER SOURCE : AC-3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	2.7 (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 = 5.7 A

\*\*\* PEAK 전류값 \*\*\*

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

NOMAL 전류값 \* K = 5.7 \* 1.25 = 7.125 A



# LOAD SUMMARY 2 – INVERTER 사양

\*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	-	
FULL LOAD CURRENT	4 (A)	0 (A)	0.5 (A)

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

\*\*\* NOMAL 전류값 \*\*\*

권상시 : HOISTING + CONTROL CIRCUIT = 4.5 A

\*\*\* PEAK 전류값 \*\*\*

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

NOMAL 전류값 \* K = 4.5 \* 1.25 = 5.625 A

\*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	-	
FULL LOAD CURRENT	2.7 (A)	0 (A)	0.5 (A)

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

\*\*\* NOMAL 전류값 \*\*\*

권상시 : HOISTING + CONTROL CIRCUIT = 3.2 A

\*\*\* PEAK 전류값 \*\*\*

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

NOMAL 전류값 \* K = 3.2 \* 1.25 = 4 A



# LOAD SUMMARY 3 - 1속형사양

\*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	3.6 (A)	3 (A)	0.5 (A)

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

\*\*\* NOMAL 전류값 \*\*\*

권상과 횡행시 : HOISTING + TRAVERSING + 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

\*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	0.4KW x 4P	
FULL LOAD CURRENT	1.8 (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 = 4.5 A

\*\*\* PEAK 전류값 \*\*\*

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

NOMAL 전류값 \* K = 4.5 \* 1.25 = 5.625 A





# LOAD SUMMARY 4 - 1속 형사양

\*POWER SOURCE : AC 3Φ 220(208)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW 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= NAMAL 전류치가 50A미만일때 1.25, 50A이상일때 1.1적용

NOMAL 전류값 \* K = 4.1 \* 1.25 = 5.125 A

\*POWER SOURCE : AC 3Φ 380(440)V

OBJECT	HOISTING	TRAVERSING	CONTROL CIRCUIT
MOTOR OUTPUT	0.56KW x 4P	-	
FULL LOAD CURRENT	1.8 (A)	0 (A)	0.5 (A)

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

\*\*\* NOMAL 전류값 \*\*\*

권상시 : HOISTING + CONTROL CIRCUIT = 2.3 A




\*\*\* PEAK 전류값 \*\*\*

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





NOMAL 전류값 \* K = 2.3 \* 1.25 = 2.875 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

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 CONTACTS, 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 CONTACTS, WITH MAGNETIC MOTOR CIRCUIT BREAKER, BUILT IN THERMAL OVER-CURRENT RELAY WITH ADJUSTABLE TRIP RATING

GRAPHIC SYMBOLS

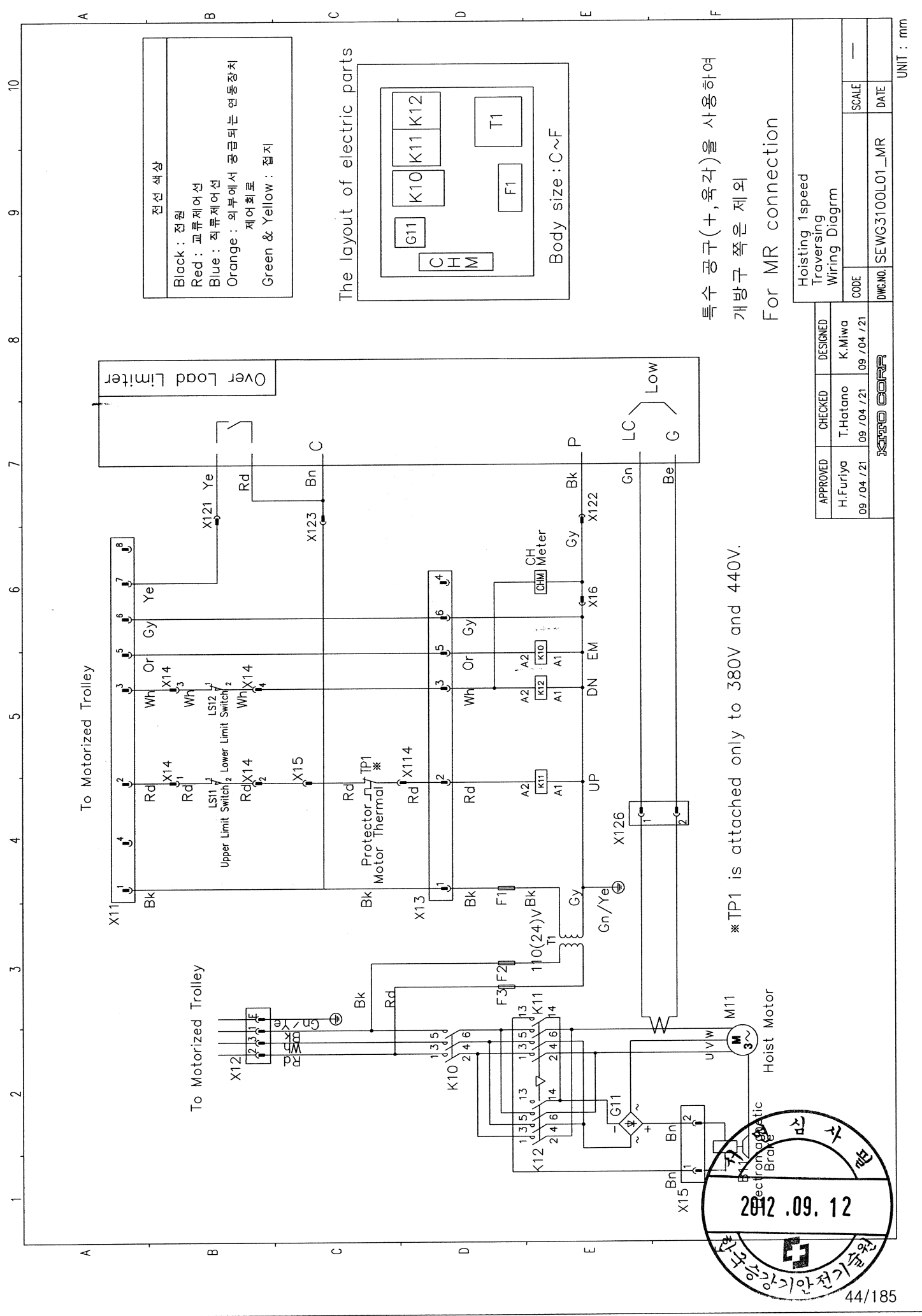
-  GENERAL OPERATING COIL
-  CAPACITOR
-  CAPACITOR VOLTAGE TRANSFORMER(CVT)
-  RESISTOR
-  DIODE
-  CONTROLLED RECTIFIER
-  DC-DC CONVERTER
-  RECTIFIER, BATTERY CHARGER
-  DC-AC INVERTER
-  BATTERY BANK
-  ELECTRIC HEATER, INDICATE 1\* OR 3\* AND KW RATING, UNLESS OTHERWISE SPECIFIED, TO BE REGARDED AS 1\*.
-  EARTHING CONNECTION
-  DISCONNECTION LINK
-  CROSSING OF CONDUCTORS NOT CONNECTED
-  JUNCTION OF CONDUCTORS OR WIRES
-  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
- W = WHITE
- A = AMBER
- C = CYAN

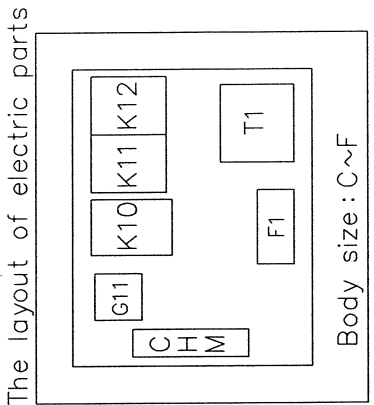
SYMBOL LIST

APPROVED	CHECKED	DESIGNED	SCALE
			---
DWG. NO. SYMBOL LIST			DATE
<b>KOTO CORP.</b>			





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



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

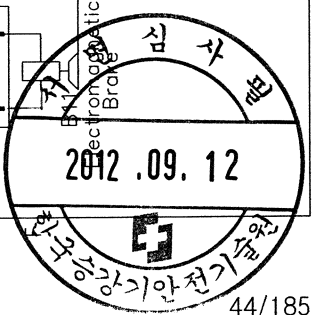
\* TP1 is attached only to 380V and 440V.

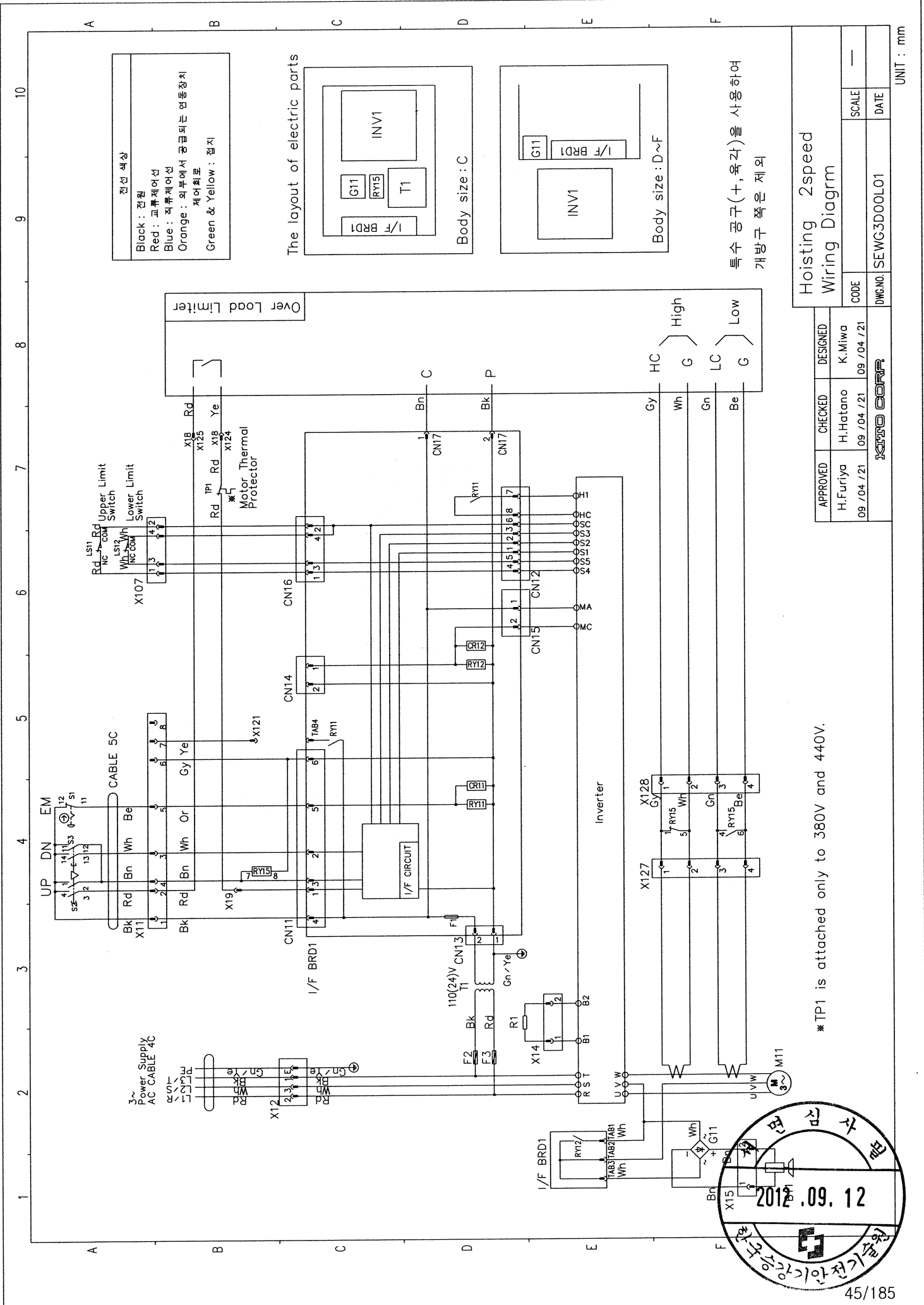
APPROVED		CHECKED	DESIGNED
H.Furiya	T.Hatano	K.Miwa	
09 / 04 / 21	09 / 04 / 21	09 / 04 / 21	

**KATO CORP.**

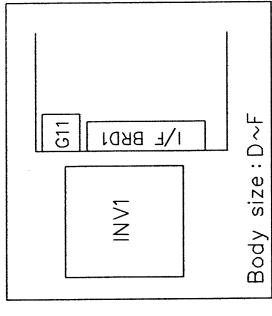
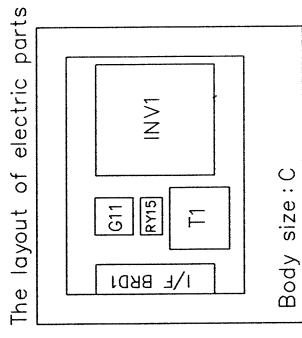
CODE	SCALE	DATE
DMG.NO. SEWG3100L01_MR	—	—

UNIT : mm





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



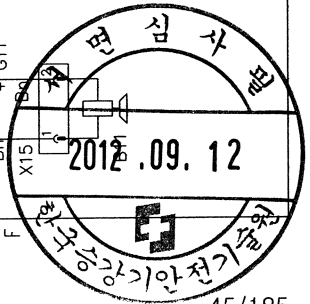
특수 공구(+, 육각)를 사용하여  
 개방구 쪽은 제외

Hoisting 2speed  
 Wiring Diagram

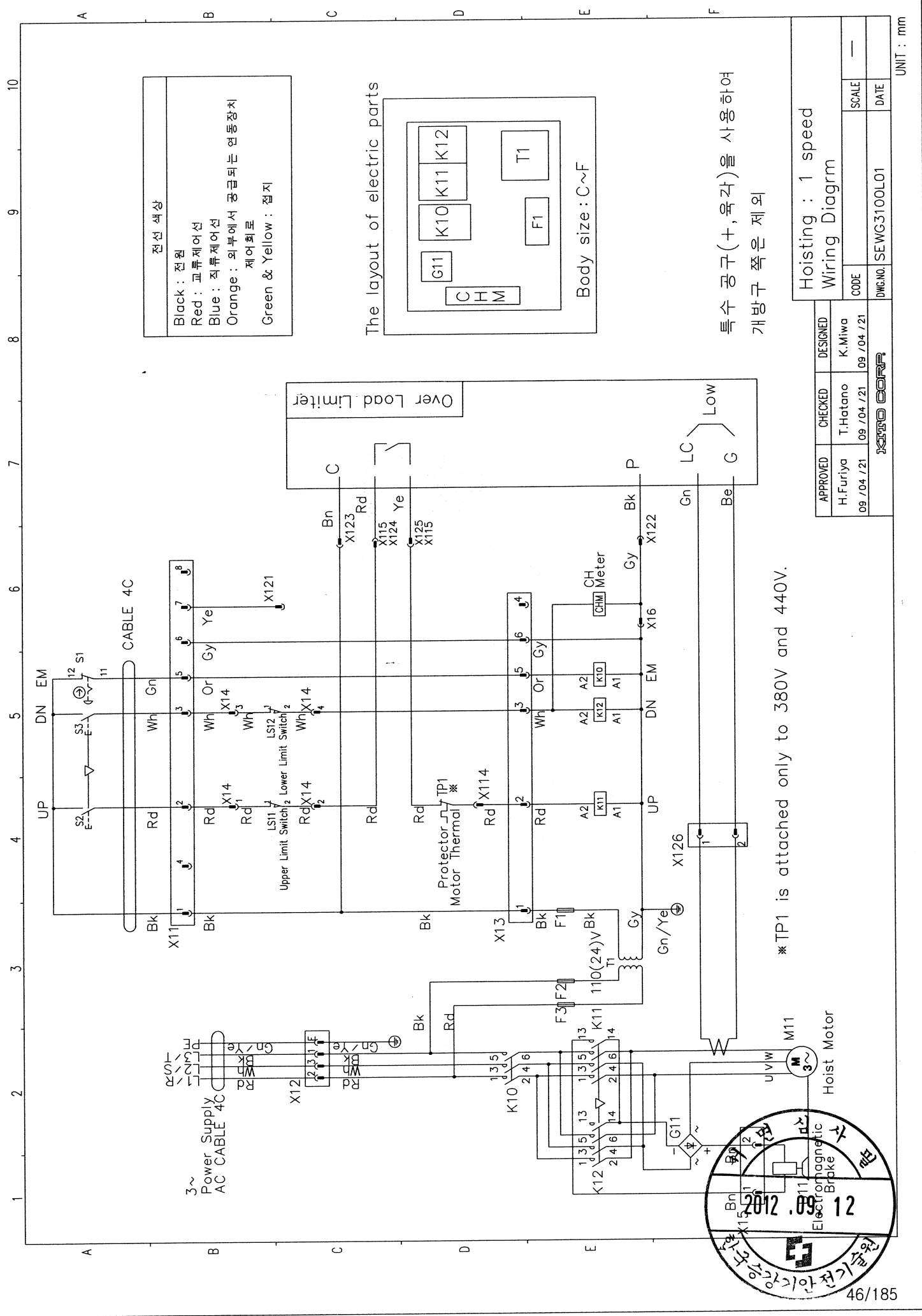
APPROVED	CHECKED	DESIGNED
H.Furiya 09 / 04 / 21	H.Hatano 09 / 04 / 21	K.Miwa 09 / 04 / 21

CODE	SCALE	DATE
DMC NO. SEWC3D00L01	---	---

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

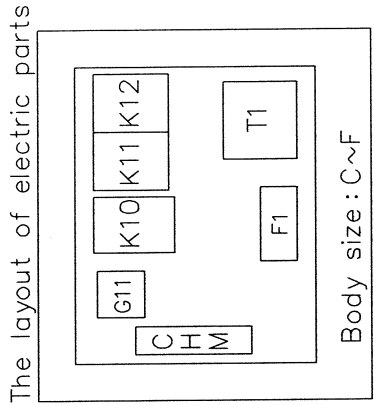


UNIT : mm



전선 색상

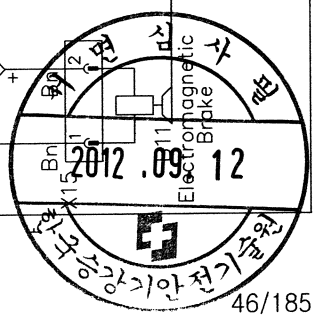
Black : 전원  
 Red : 교류제어선  
 Blue : 직류제어선  
 Orange : 외부에서 공급되는 연동장치 제어회로  
 Green & Yellow : 접지

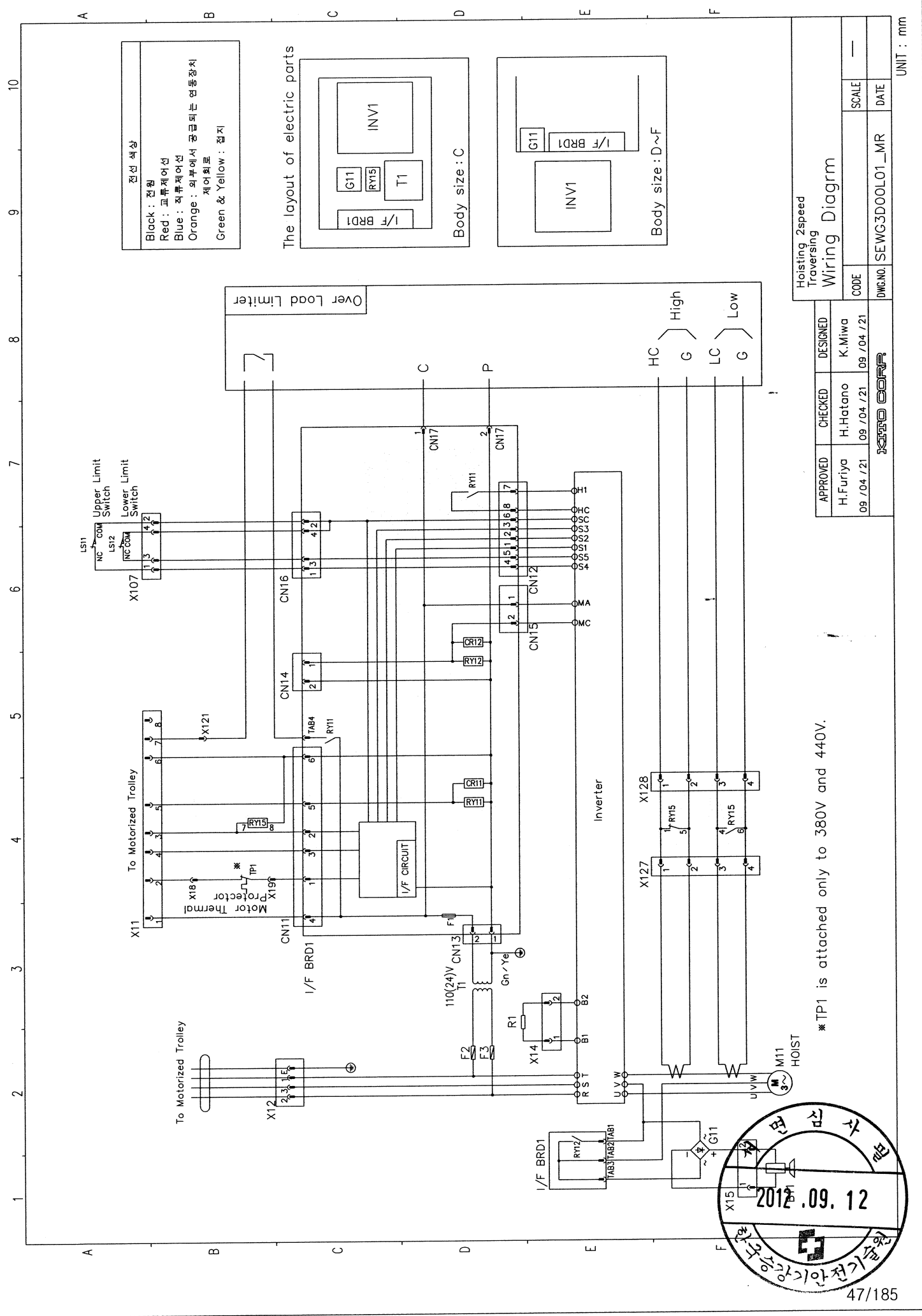


특수 공구 (+, 육각)을 사용하여  
 개방구 쪽은 제외

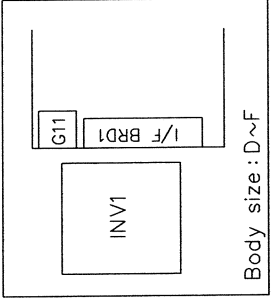
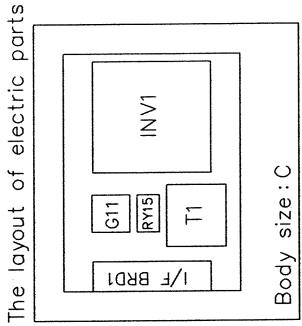
※TP1 is attached only to 380V and 440V.

APPROVED	CHECKED	DESIGNED
H.Furiya	T.Hatano	K.Miwa
09 / 04 / 21	09 / 04 / 21	09 / 04 / 21
<b>KATO CORP.</b>		
Hoisting : 1 speed		SCALE
Wiring Diagram		DATE
DMGNO. SEWG3100L01		UNIT : mm



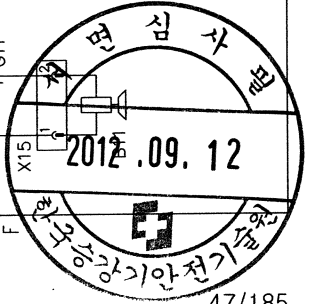


진선 색상  
 Black : 진선  
 Red : 교류제어선  
 Blue : 열부재어선  
 Orange : 외부에서 공급되는 연동장치 제어회로  
 Green & Yellow : 접지

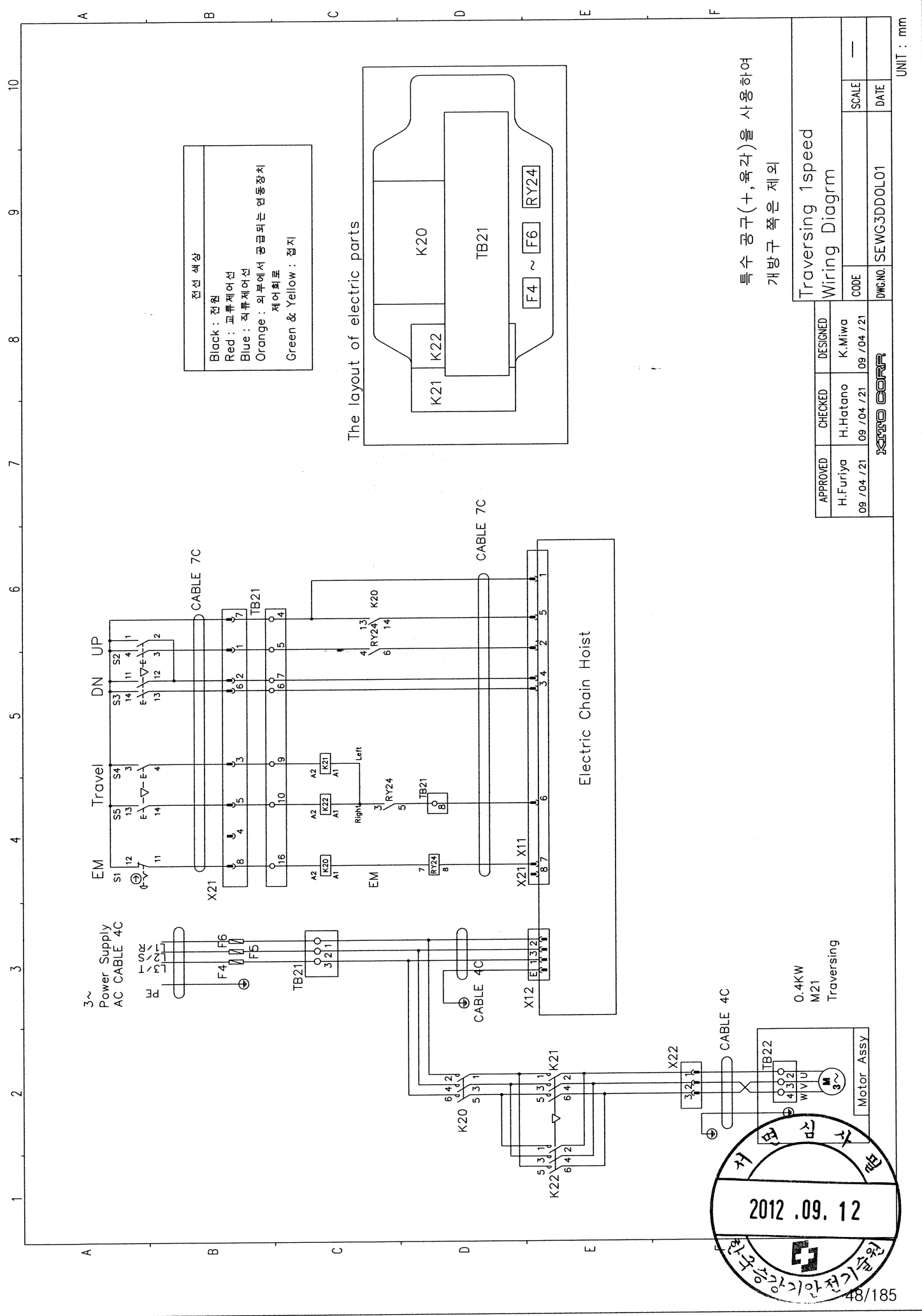


Hoisting 2speed Traversing		DESIGNED	
Wiring Diagram		K. Miwa	
APPROVED	CHECKED	DESIGNED	CODE
H. Furiya	H. Hatano	K. Miwa	—
09 / 04 / 21	09 / 04 / 21	09 / 04 / 21	—
KATO CORP		DWG. NO.	SEWG3D00L01_MR
		DATE	

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

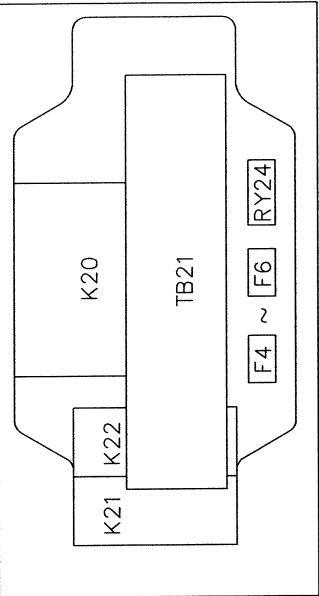


UNIT : mm



전선 색상  
 Black : 권선  
 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	H.Hatano	K.Miwa
09 / 04 / 21	09 / 04 / 21	09 / 04 / 21

CODE	SCALE
DMG.NO.	DATE

SEWG3DDOL01

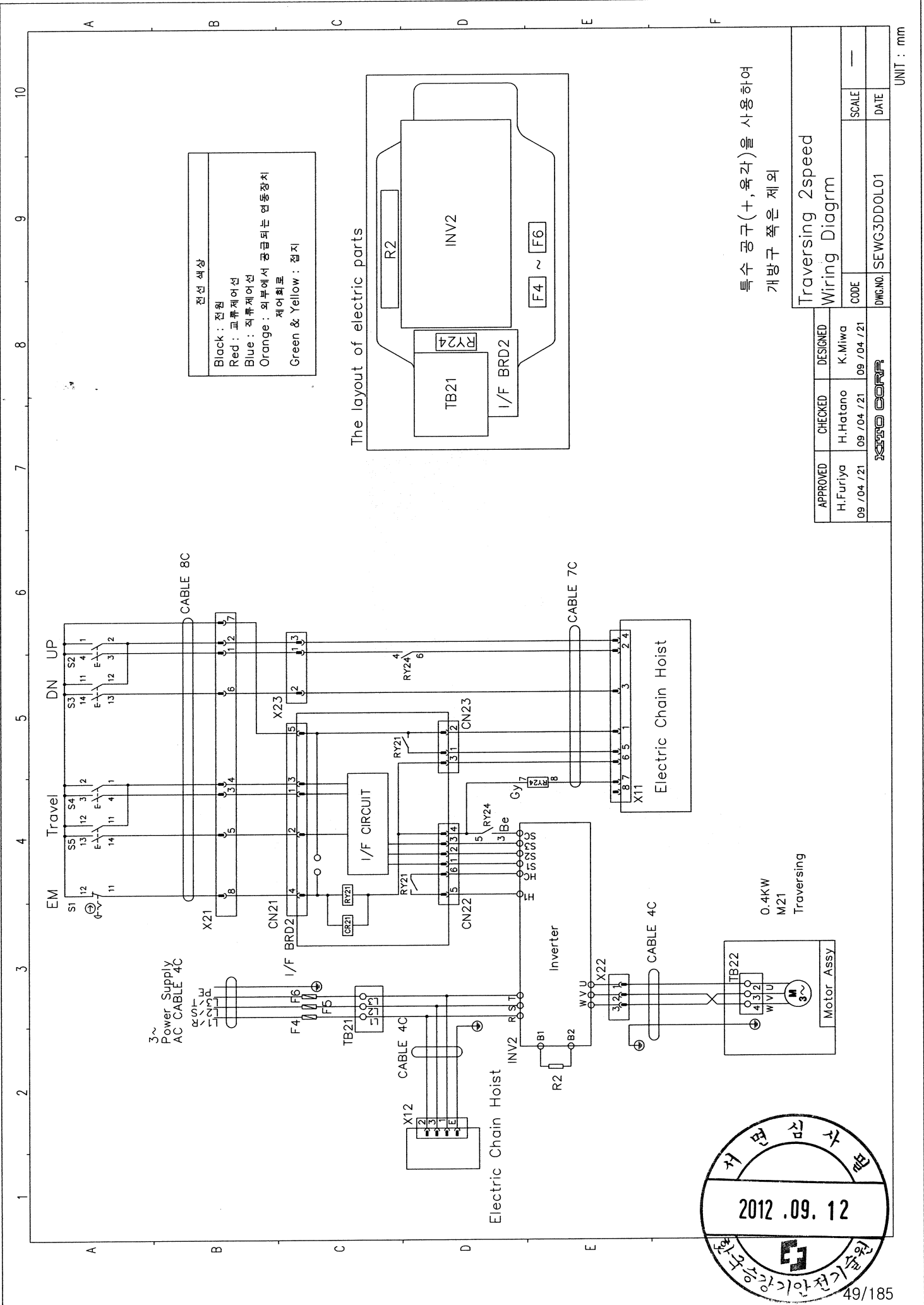
UNIT : mm

2012 . 09 . 12

0.4KW M21 Traversing

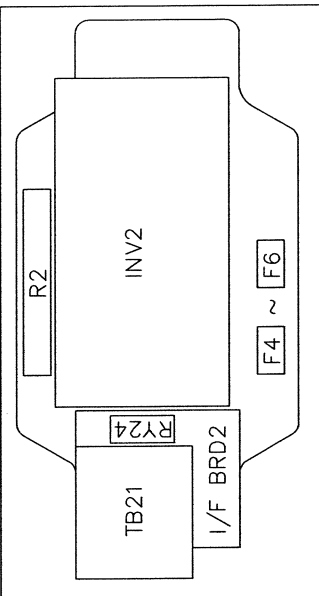
Motor Assy

사  
 2012.09.12  
 48/185



전선 색상  
 Black : 전원  
 Red : 교류제어선  
 Blue : 직류제어선  
 Orange : 외부에서 공급되는 운동장치 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	H.Hatano	K.Miwa
09 / 04 / 21	09 / 04 / 21	09 / 04 / 21

CODE	SCALE	DATE
—	—	—

DWG.NO. SEWG3DD0L01

UNIT : mm





CABLE 구성도 및 사양 - 권상 용량 0.56kW

CABLE SPECIFICATION FOR ER2M

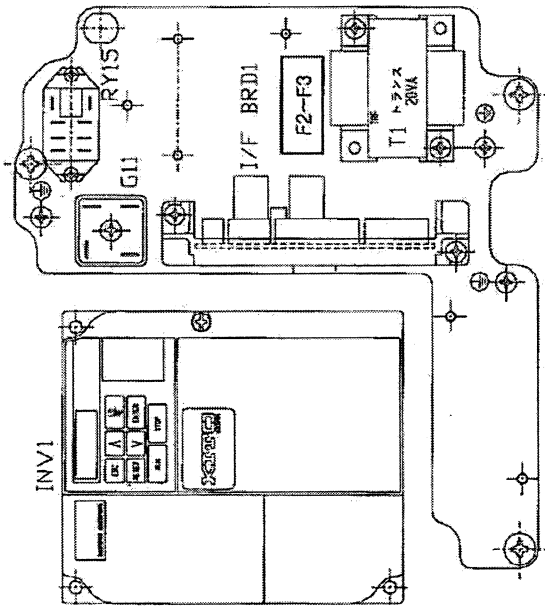
NO	ITEM	TYPE	ER2M10	
			SIZE	
①	Power Line	VCT	4sq x 4C	
②	Push Button Switch	VCT	1.25sq x 8C	
③	Loas Limit	VCT	0.75sq x 8C	
④	Power Line for ER	VCT	2sq x 4C	
⑤	Control Line for ER	VCT	1.25sq x 6C	
⑥	Traversing Motor With Earth	VCT	1.25sq x 4C	

(3Φ 220(208)V / 380V / 440V 60Hz)

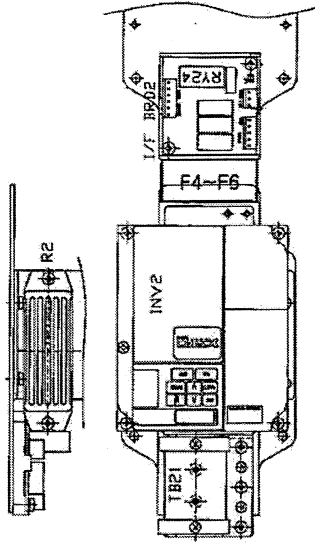


# 호이스트 CONTROL BOX 배치도

HOISTING CONTROL BOX

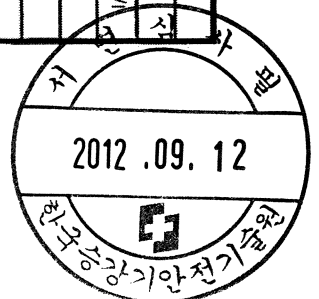


TRAVERING CONTROL BOX

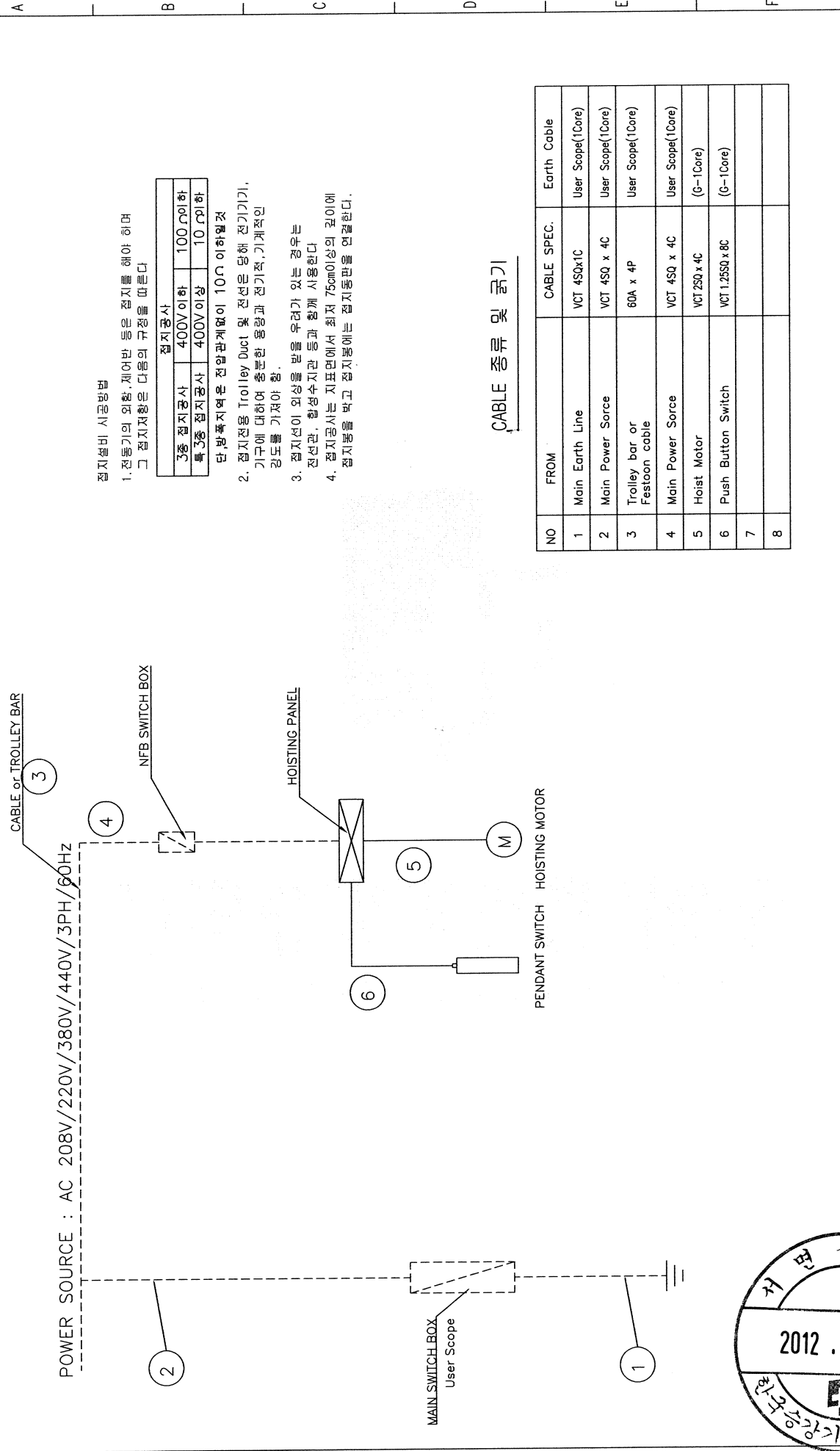


ENCLOSURE : HOIST BODY - IP55  
PUSH BUTTON - IP65

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	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	



1 2 3 4 5 6 7 8 9



접지설비 시공방법

- 전동기의 외함, 제어반 등은 접지를 해야 하며 그 접지사항은 다음의 규정을 따른다.

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

- 방폭지역은 전압관계없이 10Ω 이하일것 단, 방폭지역 Trolley Duct 및 전선은 당해 전기기기, 기구에 대하여 충분한 용량과 전기적, 기계적인 강도를 가져야 함.
- 접지선인 외상을 받을 우려가 있는 경우는 전선관, 합성수지관 등과 함께 사용한다
- 접지공사는 지표면에서 최저 75cm이상의 깊이에 접지봉을 박고 접지봉에는 접지동판을 연결한다.

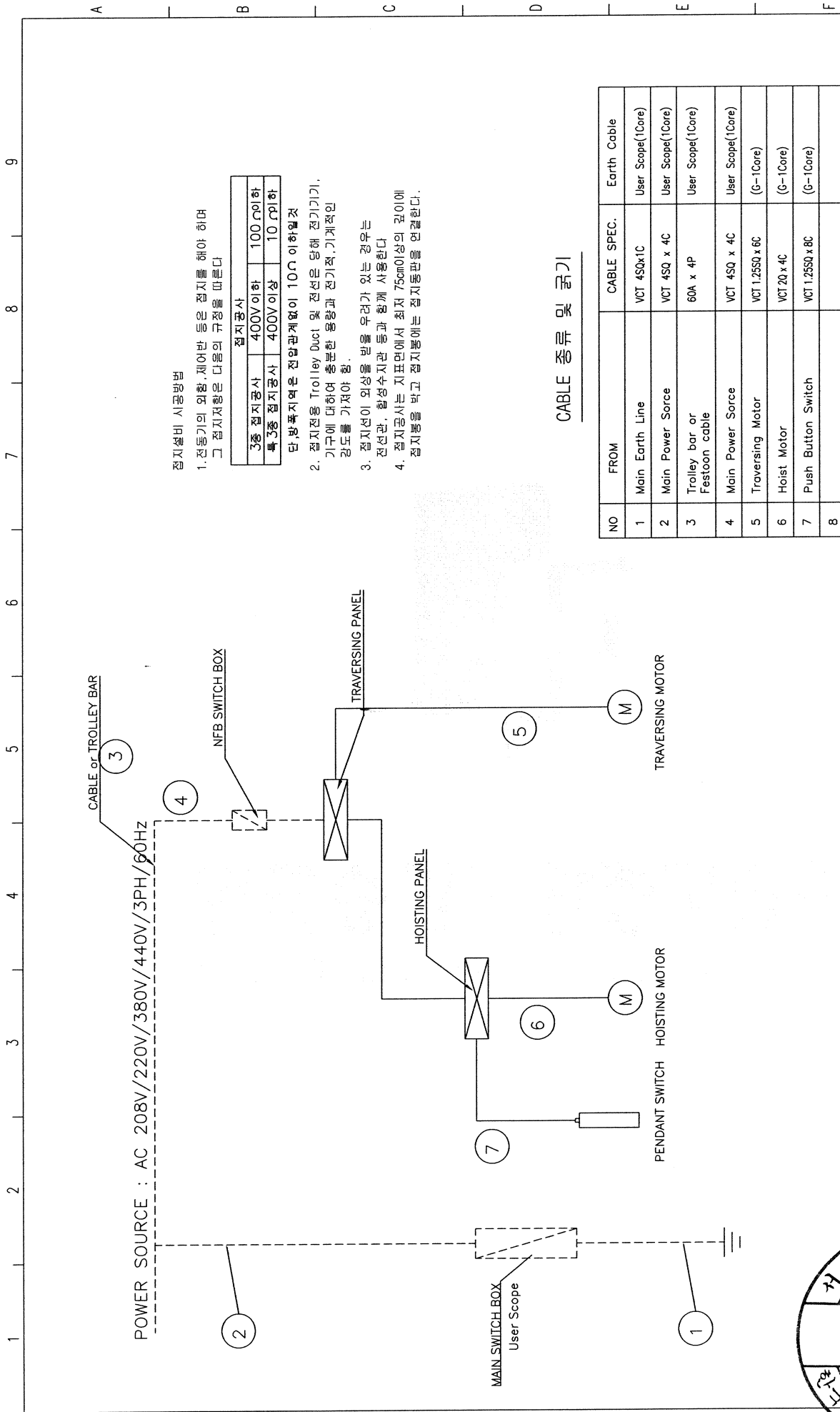
CABLE 종류 및 굵기

NO	FROM	CABLE SPEC.	Earth Cable
1	Main Earth Line	VCT 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	VCT 250 x 4C	(G-1Core)
6	Push Button Switch	VCT1.2550 x 8C	(G-1Core)
7			
8			

REV.	QTY	CONTENTS	DATE	DRAWN	APPROVED	CHECKED	DESIGNED	DRAWN	TITLE
									0.5t MOTORIZED-2점식 케이블 구성도 및 접지계통도
									MDL. 942513
									DWG. NO. 3NNU942513
									SCALE NOT
									REV. 0

UNIT : mm  
樣式 025G-05





접지설비 시공방법

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

접지공사		
3중 접지공사	400V이하	100 Ω이하
복3중 접지공사	400V이상	10 Ω이하

단, 방폭지역은 전압관계없이 10Ω 이하일 것

- 접지선용 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 450x1C	User Scope(1Core)
2	Main Power Source	VCT 450 x 4C	User Scope(1Core)
3	Trolley bar or Festoon cable	60A x 4P	User Scope(1Core)
4	Main Power Source	VCT 450 x 4C	User Scope(1Core)
5	Traversing Motor	VCT 1.2550 x 6C	(0-1Core)
6	Hoist Motor	VCT 20 x 4C	(0-1Core)
7	Push Button Switch	VCT 1.2550 x 8C	(0-1Core)
8			



REV.	QTY	CONTENTS	DATE	DRAWN	APPROVED	CHECKED	DESIGNED	DRAWN	TITLE
									0.5t MOTORIZED-4점식 케이블 구성도 및 접지계통도
					M.Fukasawa	Ilimura	A.Shimura	---	
					11.07.20	11.07.20	11.07.20		MDL: 942513
									DWG. NO. 3NNU942513
									SCALE NOT
									REV. 0

UNIT : mm

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

# Test Certificate

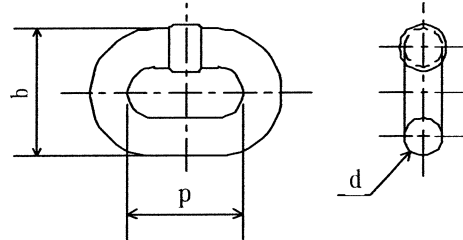
Messrs.

Commodity: NC Load Chain

Code : KER060

Lot No. : —

Quantity: — line(s)



1. Material: Manganese Alloy Steel

2. Dimensions

	d	p	b
Specified	6.0mm $\pm 0.2$	16.7mm $\begin{matrix} +0.33 \\ 0 \end{matrix}$	Max. 21.0mm
Result	Good	Good	Good

3. Breaking test

	Breaking load	Total ultimate elongation
Specified	Min. 45.5 (kN)	Min. 10 (%)
Result	Good	Good

4. Manufacturing Proof force test (Test load: 28.3 kN)

	Permanent elongation
Specified	0.25 (%)
Result	Good

**General judgment: Satisfactory**



2000 Tsuijjarai, 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	0.56kW	4P	60%ED	220V	60Hz

## Full load characteristics

Voltage Frequency		220V 60Hz
Load	%	100
Current	A	3.6
Speed	rpm	1700

## 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	0.56kW	4P	60%ED	380 - 440V	60Hz

## Full load characteristics

Voltage	Frequency	380 - 440V 60Hz
Load	%	100
Current	A	1.8
Speed	rpm	1690

## 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	0.56kW	4P	40/20%ED	220V	Speed Control by Inverter

## Full load characteristics

Voltage	Frequency	220V	Speed Control by Inverter
Load	%		100
Current	A		4.0
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 Tsuijjarai, 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	0.56kW	4P	60%ED	380 - 440V	Speed Control by Inverter

## Full load characteristics

Voltage Frequency		380 - 440V	Speed Control by Inverter
Load	%	100	
Current	A	2.7	
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 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 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



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 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 Department  
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*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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(Manager)

*K. Kishimoto*

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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1) 과부하 방지장치

