

1	2	3	4	5	6	7	8	9	10
POWER CIRCUIT									ADDRESS NO.
TRAVELLING POWER SUPPLY SYSTEM									A1

TRAVELLING POWER SUPPLY SYSTEM
TB1(TROLLEY BAR)

E R S T
(B1/3)(B1/3)(B1/3)(B1/3)
HOISTING & TRAVERSING
POWER

COLLECTOR COL1

OWNER SCOPE

MCCB

TO

SO

RO

E

MAIN POWER SOURCE
AC 3Ø 60Hz 220V, 380V, 440V, 460V, 480V

—NOTE—

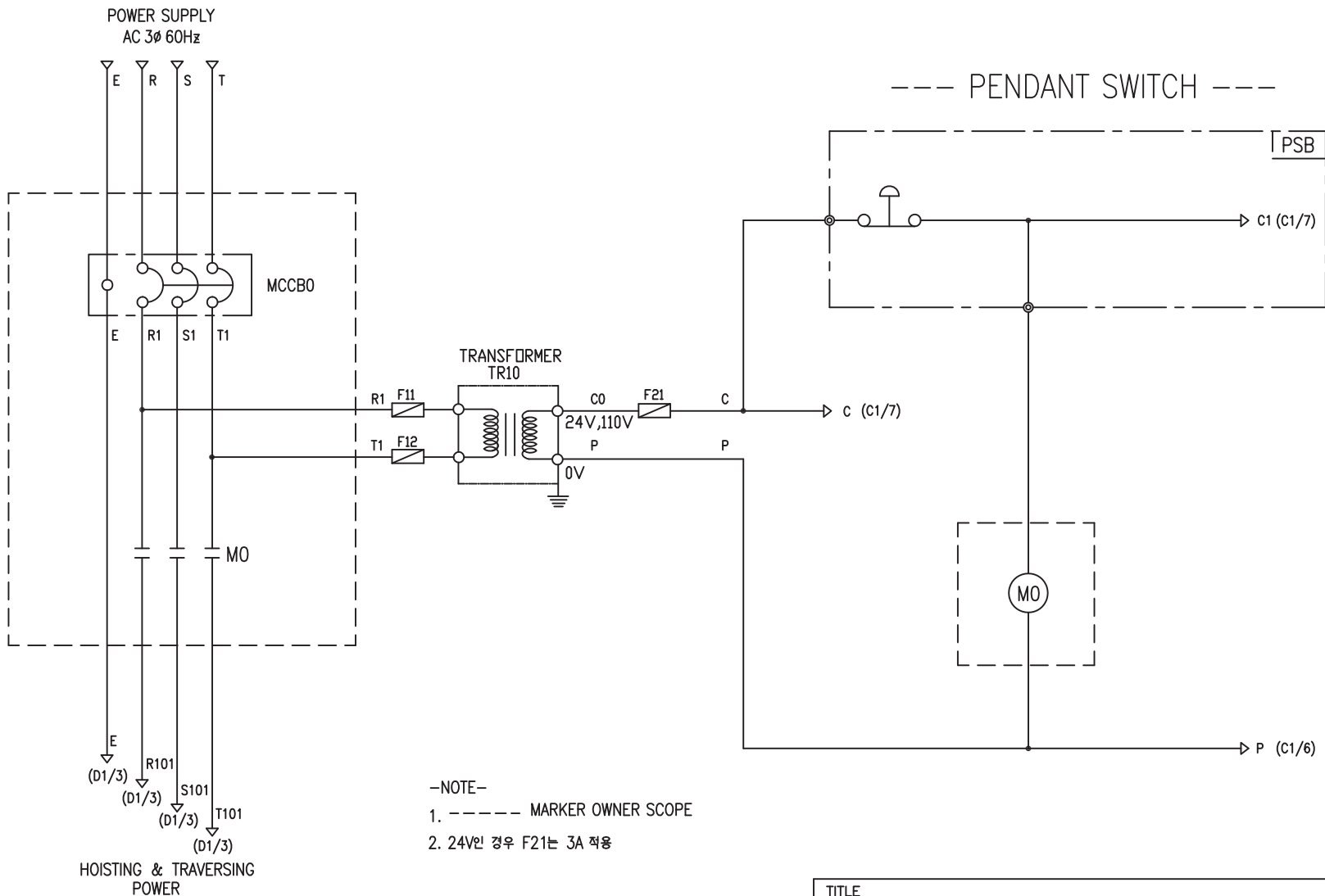
1. — — — — MARKED OWNER SCOPE

2. ————— MARKED CRANE MAKER SCOPE

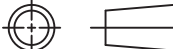
TITLE				PROJECTION	
MAIN POWER CIRCUIT DIAGRAM1					
WORK NO	WORK NAME			SCALE	Q' TY
601	DAM			1/1	1
220V, 380V, 440V, 460V, 480V					
DRAWN	CHECKED	REVIEWED	APPROVED	DRAWING NO	DAM
LEE G.H.				CODE NO	
2010.07.30					

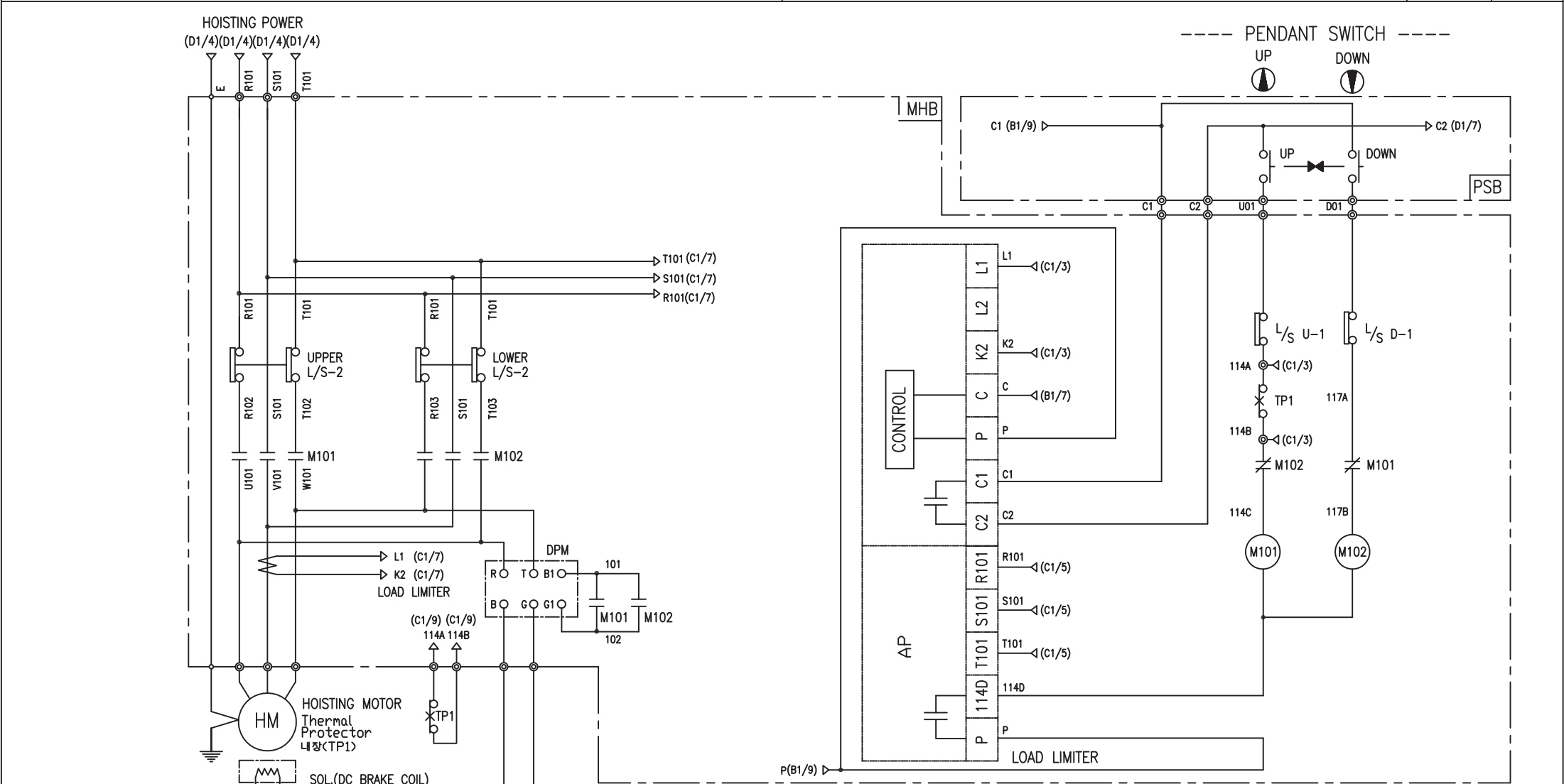
L K HOIST CO., LTD.

1	2	3	4	5	6	7	8	9	10		
POWER CIRCUIT					CONTROL CIRCUIT					ADDRESS NO.	B1



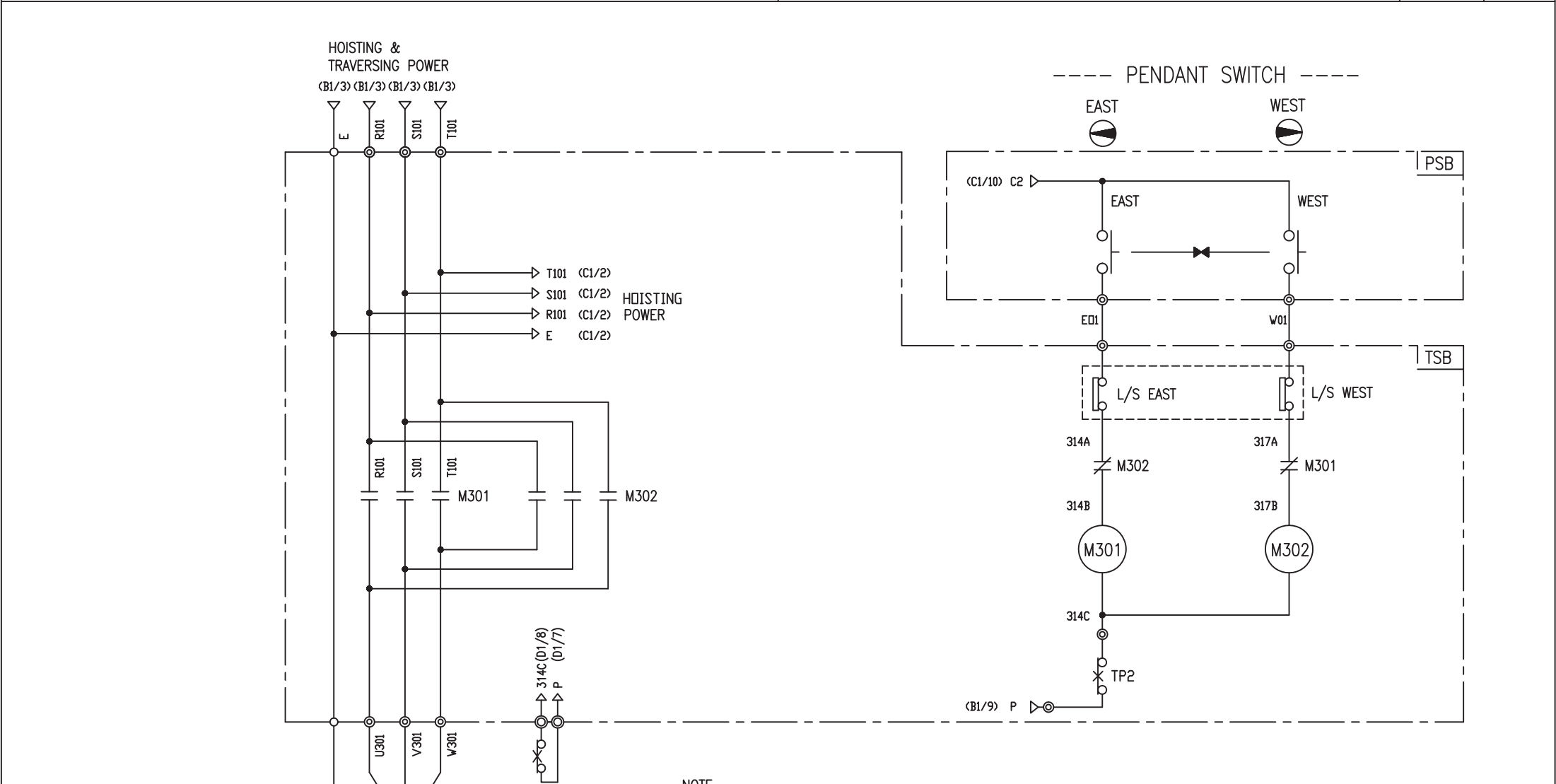
SPECIFICATION	NO FUSE BREAKER		MAGNET CONTACT		TRANSFORMER	FUSE
SYMBOLS	MCCB0		M0		TR10	F11, F12, F21
DESCRIPTION	220V	30A	GMC22	DMC-22	30VA	1A
	380V	15A				
	440V	15A				
	460V	15A				
	480V	15A				
MAKER	LS		LS	DONGA	LK	—

TITLE					PROJECTION	
MAIN POWER & CONTROL CIRCUIT DIAGRAM						
WORK	NO	WORK			NAME	
602		DAM			SCALE	Q' TY
		220V, 380V, 440V, 460V, 480V			1/1	1
DRAWN	CHECKED	REVIEWED	APPROVED	MODEL	DAM	
LEE.G.H				CODE	NO	
2010.07.30						
 L K HOIST CO., LTD.						



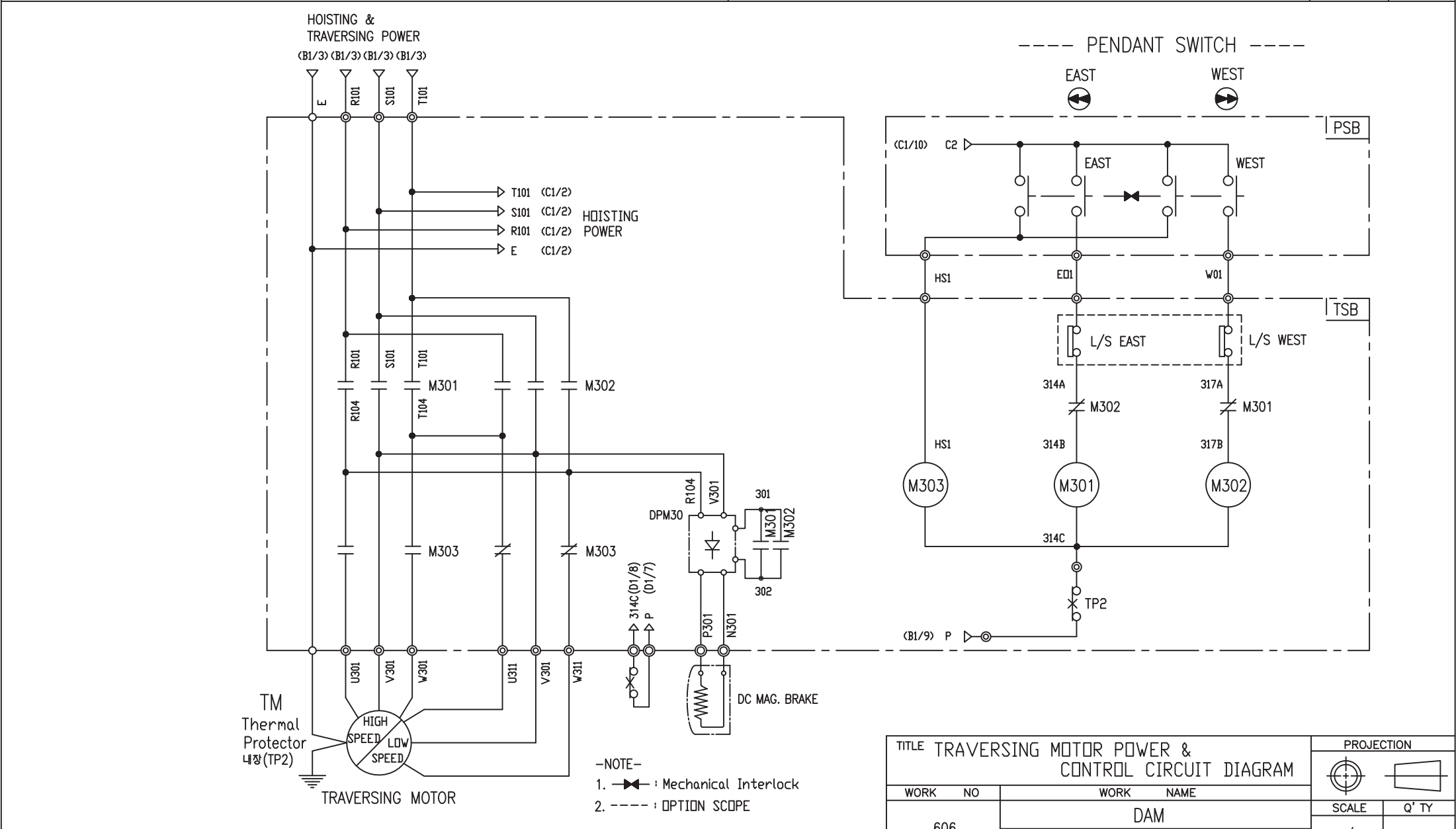
SPECIFICATION	MAGNET CONTACT		LOAD LIMITER	SILICON RECTIFIER				Thermal Protector	HOIST MOTOR
SYMBOLS	M101, M102		-	DPM				TP1	HM
DESCRIPTION	DMC-12	GMC-12	LKDL-601	AC220V	AC440V	AC460V	AC480V	17AM032	1.8Kw * 4P
				DC99V	DC198V	DC207V	DC216V		
MAKER	DONG-A	LS	LK	LK				Texas Instruments	LK

TITLE							PROJECTION	
HOIST POWER & CONTROL CIRCUIT DIAGRAM								
WORK NO		WORK NAME					SCALE	Q' TY
603		DAM					1/1	1
		220V, 440V, 460V, 480V						
DRAWN	CHECKED	REVIEWED	APPROVED	MODEL		DAM		
LEE.G.H				CODE NO				
2010.07.30								
L K HOIST CO., LTD.								



TITLE TRAVERSING MOTOR POWER & CONTROL CIRCUIT DIAGRAM				PROJECTION	
WORK NO		WORK NAME			
605		DAM		SCALE	Q' TY
		220V, 380V, 440V, 460V, 480V		1/1	1
DRAWN	CHECKED	REVIEWED	APPROVED	MODEL	DAM
LEE.G.H				CODE NO	
2010.07.30					
L K HOIST CO., LTD.					

SPECIFICATION		MAGNET CONTACT		Thermal Protector		TRAVERSING MOTOR	
SYMBOLS		M301, M302		TP2		TM	
DESCRIPTION		GMC12	DMC12	17AM032		0.4KW *4P	0.3KW *6P
MAKER		LS	DONGA	Texas Instruments		LK	



SPECIFICATION	MAGNET CONTACT		Thermal Protector	SILICON RECTIFIER					TRAVERSING MOTOR
SYMBOLS	M301, M302, M303		TP2	DPM30					TM
DESCRIPTION	GMC12	DMC12	17AM032	AC220V	AC380V	AC440V	AC460V	AC480V	0.4/0.14KW ※4/12P
				DC99V	DC171V	DC198V	DC207V	DC216V	
MAKER	LS	DONGA	Texas Instruments	LK					LK

TITLE TRAVERSING MOTOR POWER & CONTROL CIRCUIT DIAGRAM

WORK NO606

WORK NAMEDAMDAM

220V, 380V, 440V, 460V, 480V

PROJECTION

SCALE1/1

Q' TY1

DRAWNLEE.G.H

CHECKED

REVIEWED

APPROVED

MODEL

DAM

2010.07.30

CODE

NO

L K HOIST CO., LTD.

SPECIFICATION FOR ELECTRIC MOTORS	INTERNAL IDENTIFICATION NO.	PAGE : REV :
SCHEDULE OF TECHNICAL DATA		
1. SERVICE	HOISTING	
2. MANUFACTURE	LK HOIST CO. LTD	
3. MOTOR MODEL NO	1.8 - 4 - 48	
4. RATED POWER	1.8 KW × 4 P	
5. RATED VOLTAGE AND FREQUENCY	480 V 60HZ	
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE	
7. RATING	30 MIN	
8. LOCATION	IN-DOOR , OUTDOOR	
9. INSULATION CLASS	B	
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	80℃	
11. FULL LOAD SPEED	1740 RPM	
12. FULL LOAD CURRENT	4.3 A	
13. STARTING CURRENT AT RATED VOLTAGE	21.5 A	
14. MINIMUM STARTING VOLTAGE	397 V	
15. EFFICIENCY AT 100% RATED LOAD	72.3 %	
16. POWER FACTOR AT 100% RATED LOAD	69.6 %	
17. STARTING TORQUE	244 %	
18. TYPE OF ENCLOSURE	전폐형	
19. TYPE OF BEARING	PL : 6008DD OPL : 6207ZZ	
20. MOUNTING	VERTICAL	
21. MAXIMUM AMBIENT TEMPURE	40℃	
22. BEARING LUBRICATION	GREASE	
23. STARTING METHOD	FULL VOLTAGE	

SPECIFICATION FOR ELECTRIC MOTORS	INTERNAL IDENTIFICATION NO.	PAGE : REV :
SCHEDULE OF TECHNICAL DATA		
1. SERVICE	TRAVERSING	
2. MANUFACTURE	LK HOIST CO. LTD	
3. MOTOR MODEL NO	0.4 - 4 - 48	
4. RATED POWER	0.4 KW × 4 P	
5. RATED VOLTAGE AND FREQUENCY	480 V	60HZ
6. ROTOR TYPE	SQUIRREL CAGE ROTOR TYPE	
7. RATING	15 MIN	
8. LOCATION	IN-DOOR , OUTDOOR	
9. INSULATION CLASS	B	
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	100℃	
11. FULL LOAD SPEED	1710 RPM	
12. FULL LOAD CURRENT	1.38 A	
13. STARTING CURRENT AT RATED VOLTAGE	6.5 A	
14. MINIMUM STARTING VOLTAGE	432 V	
15. EFFICIENCY AT 100% RATED LOAD	60 %	
16. POWER FACTOR AT 100% RATED LOAD	58 %	
17. STARTING TORQUE	249 %	
18. TYPE OF ENCLOSURE	전폐형	
19. TYPE OF BEARING	PL : 6202DD OPL : 6004ZZ	
20. MOUNTING	VERTICAL	
21. MAXIMUM AMBIENT TEMPERATURE	40℃	
22. BEARING LUBRICATION	GREASE	
23. STARTING METHOD	FULL VOLTAGE	

SPECIFICATION FOR ELECTRIC MOTORS	INTERNAL IDENTIFICATION NO.	PAGE : REV :
SCHEDULE OF TECHNICAL DATA		
1. SERVICE	TRAVERSING	
2. MANUFACTURE	LK HOIST CO. LTD	
3. MOTOR MODEL NO	0.3 - 6 - 48	
4. RATED POWER	0.3 KW × 6 P	
5. RATED VOLTAGE AND FREQUENCY	480 V	60HZ
6. ROTOR TYPE	SQUIRREL CAGE ROTOR TYPE	
7. RATING	15 MIN	
8. LOCATION	IN-DOOR , OUTDOOR	
9. INSULATION CLASS	B	
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	100℃	
11. FULL LOAD SPEED	1140 RPM	
12. FULL LOAD CURRENT	1.2 A	
13. STARTING CURRENT AT RATED VOLTAGE	6.57 A	
14. MINIMUM STARTING VOLTAGE	432 V	
15. EFFICIENCY AT 100% RATED LOAD	56 %	
16. POWER FACTOR AT 100% RATED LOAD	53 %	
17. STARTING TORQUE	249 %	
18. TYPE OF ENCLOSURE	전폐형	
19. TYPE OF BEARING	PL : 6008DD OPL : 6207ZZ	
20. MOUNTING	VERTICAL	
21. MAXIMUM AMBIENT TEMPERATURE	40℃	
22. BEARING LUBRICATION	GREASE	
23. STARTING METHOD	FULL VOLTAGE	

SPECIFICATION FOR ELECTRIC MOTORS	INTERNAL IDENTIFICATION NO.	PAGE : REV :
SCHEDULE OF TECHNICAL DATA		
1. SERVICE	TRAVERSING	
2. MANUFACTURE	LK HOIST CO. LTD	
3. MOTOR MODEL NO	0.4/0.14 - 4/12 - 48	
4. RATED POWER	0.4/0.14 KW × 4/12 P	
5. RATED VOLTAGE AND FREQUENCY	480 V 60HZ	
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE	
7. RATING	15 MIN	
8. LOCATION	IN-DOOR , OUTDOOR	
9. INSULATION CLASS	B	
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	100℃	
11. FULL LOAD SPEED	1710 / 550 RPM	
12. FULL LOAD CURRENT	1.38 / 0.9 A	
13. STARTING CURRENT AT RATED VOLTAGE	6.9 / 4.5 A	
14. MINIMUM STARTING VOLTAGE	432 V	
15. EFFICIENCY AT 100% RATED LOAD	61 / 48.3 %	
16. POWER FACTOR AT 100% RATED LOAD	57 / 41.3 %	
17. STARTING TORQUE	233 / 230 %	
18. TYPE OF ENCLOSURE	전폐형	
19. TYPE OF BEARING	PL : 6008DD OPL : 6207ZZ	
20. MOUNTING	VERTICAL	
21. MAXIMUM AMBIENT TEMPURE	40℃	
22. BEARING LUBRICATION	GREASE	
23. STARTING METHOD	FULL VOLTAGE	