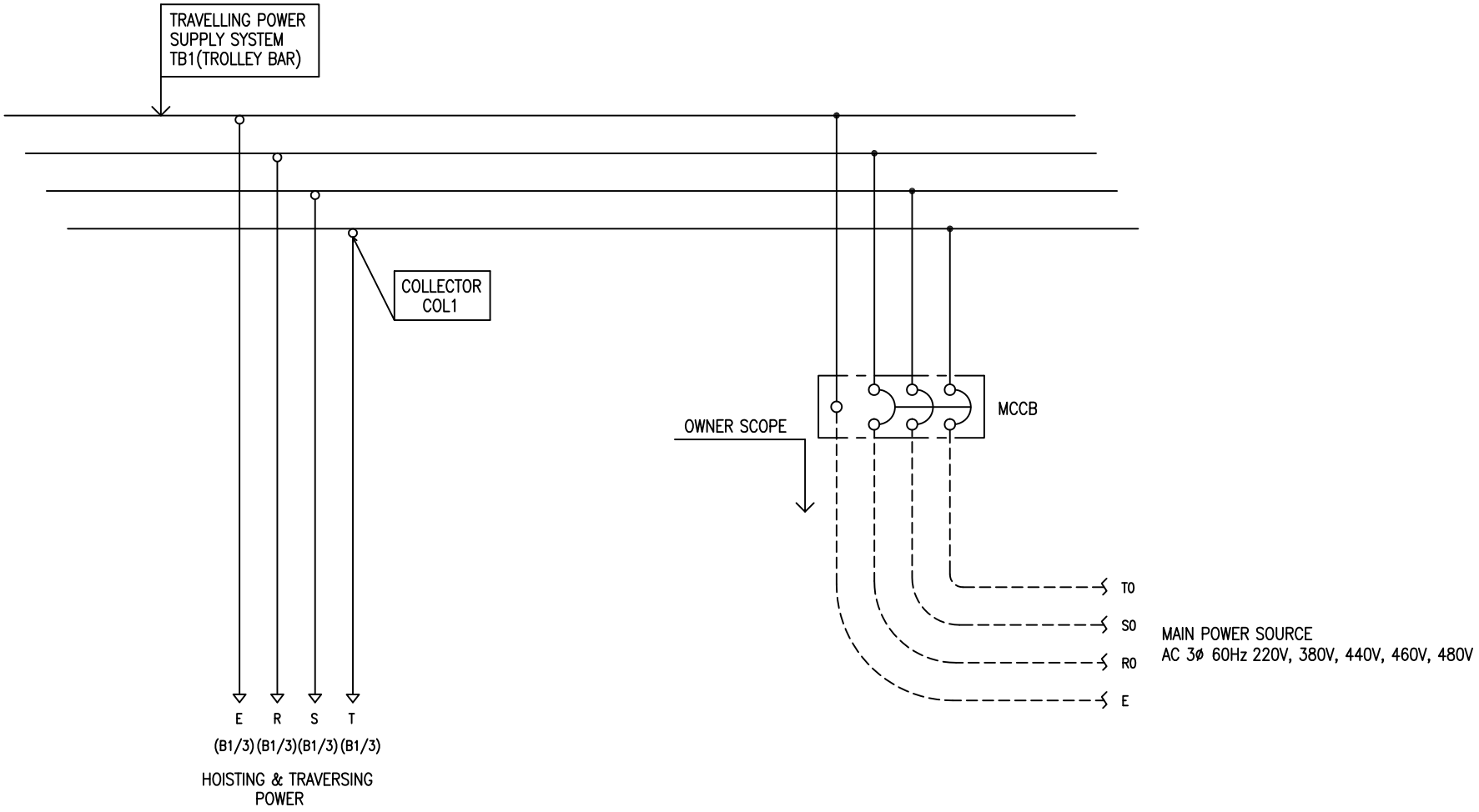
1	2	3	4	5	6	7	8	9	10

POWER CIRCUIT | ADDRESS NO.

TRAVELLING POWER SUPPLY SYSTEM | A1



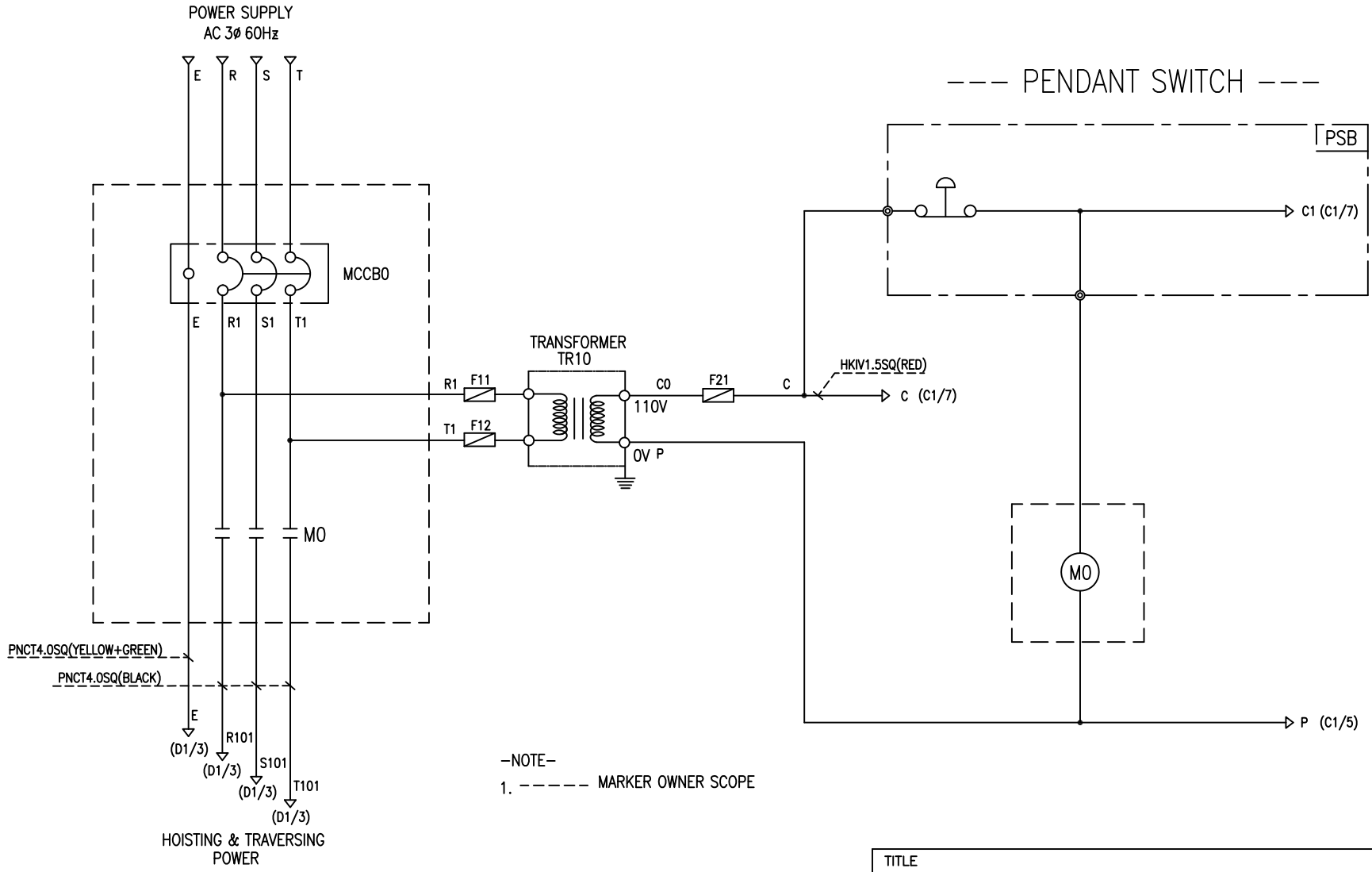
–NOTE–

1. — — — — MARKED OWNER SCOPE
2. ———— MARKED CRAIN MAKER SCOPE

TITLE				PROJECTION
MAIN POWER CIRCUIT DIAGRAM1				
WORK NO	WORK NAME			SCALE / Q'TY
601	EDAM 220V, 380V, 440V, 460V, 480V			N/S / 1
DRAWN	CHECKED	REVIEWED	APPROVED	DRAWING NO: EDAM
LEE G.H.				CODE NO:
2023.12.07				

L K HOIST CO., LTD.

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



-NOTE-

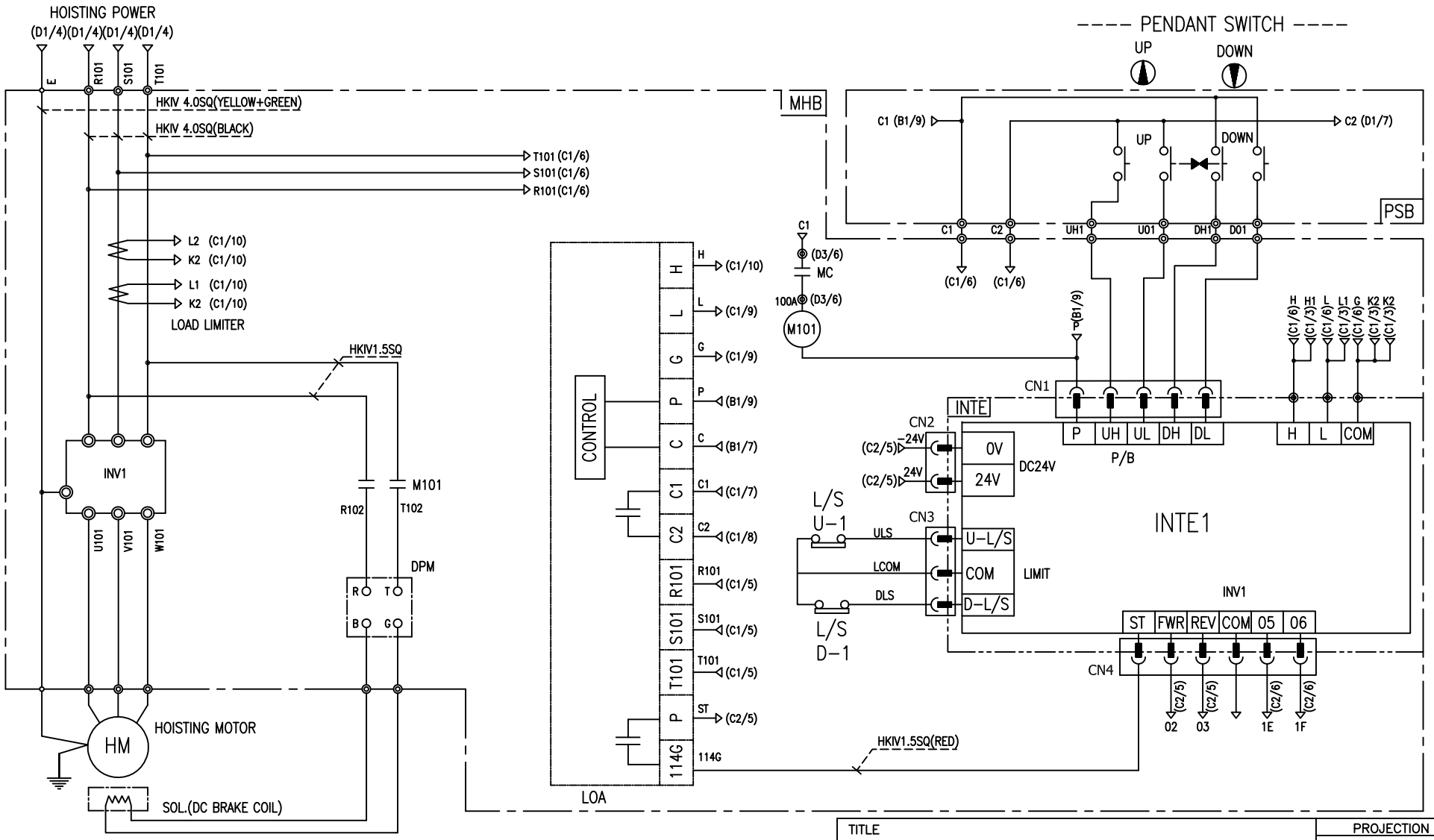
1. ----- MARKER OWNER SCOPE

SPECIFICATION	NO FUSE BREAKER		MAGNET CONTACT		TRANSFORMER	FUSE
SYMBOLS	MCCB0		M0		TR10	F11, F12, F21
DESCRIPTION	220V	50A	GMC22	DMC-22	30VA	1A
	380V	30A				
	440V	20A				
	460V	20A				
	480V	20A				
MAKER	LS		LS	DONGA	YEONG DONG	-

TITLE				PROJECTION
MAIN POWER & CONTROL CIRCUIT DIAGRAM				
WORK NO	WORK NAME			SCALE / Q'TY
602	EDAM			N/S / 1
	220V, 380V, 440V, 460V, 480V			
DRAWN	CHECKED	REVIEWED	APPROVED	MODEL: EDAM
LEE.G.H				CODE NO:
2023.12.07				

L K HOIST CO., LTD.

1	2	3	4	5	6	7	8	9	10	
HOIST POWER CIRCUIT					HOIST CONTROL CIRCUIT				ADDRESS NO.	C1



-NOTE-

1. ⟶⧓⟵ : Mechanical Interlock

SPECIFICATION	RELAY	LOAD LIMITER	SILICON RECTIFIER					HOIST MOTOR
SYMBOLS	M101	LOA	DPM					HM
DESCRIPTION	2A2B	LKDL-80	AC220V	AC380V	AC440V	AC460V	AC480V	3.5Kw * 4P
			DC99V	DC171V	DC198V	DC207V	DC216V	
MAKER	DAE-IL	YANG YEONG	SAMMUSCO					LK

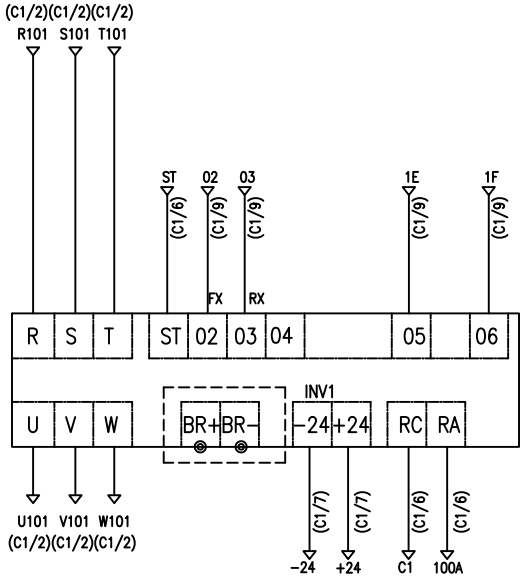
TITLE		PROJECTION
HOIST POWER & CONTROL CIRCUIT DIAGRAM		
WORK NO	WORK NAME	SCALE / Q'TY
603	EDAM 220V, 380V, 440V, 460V, 480V	N/S / 1

DRAWN	CHECKED	REVIEWED	APPROVED	MODEL	EDAM
LEE.G.H				CODE NO	
2023.12.07					

LK L K HOIST CO., LTD.

1	2	3	4	5	6	7	8	9	10

HOIST CONTROL CIRCUIT | ADDRESS NO. C2



-NOTE-

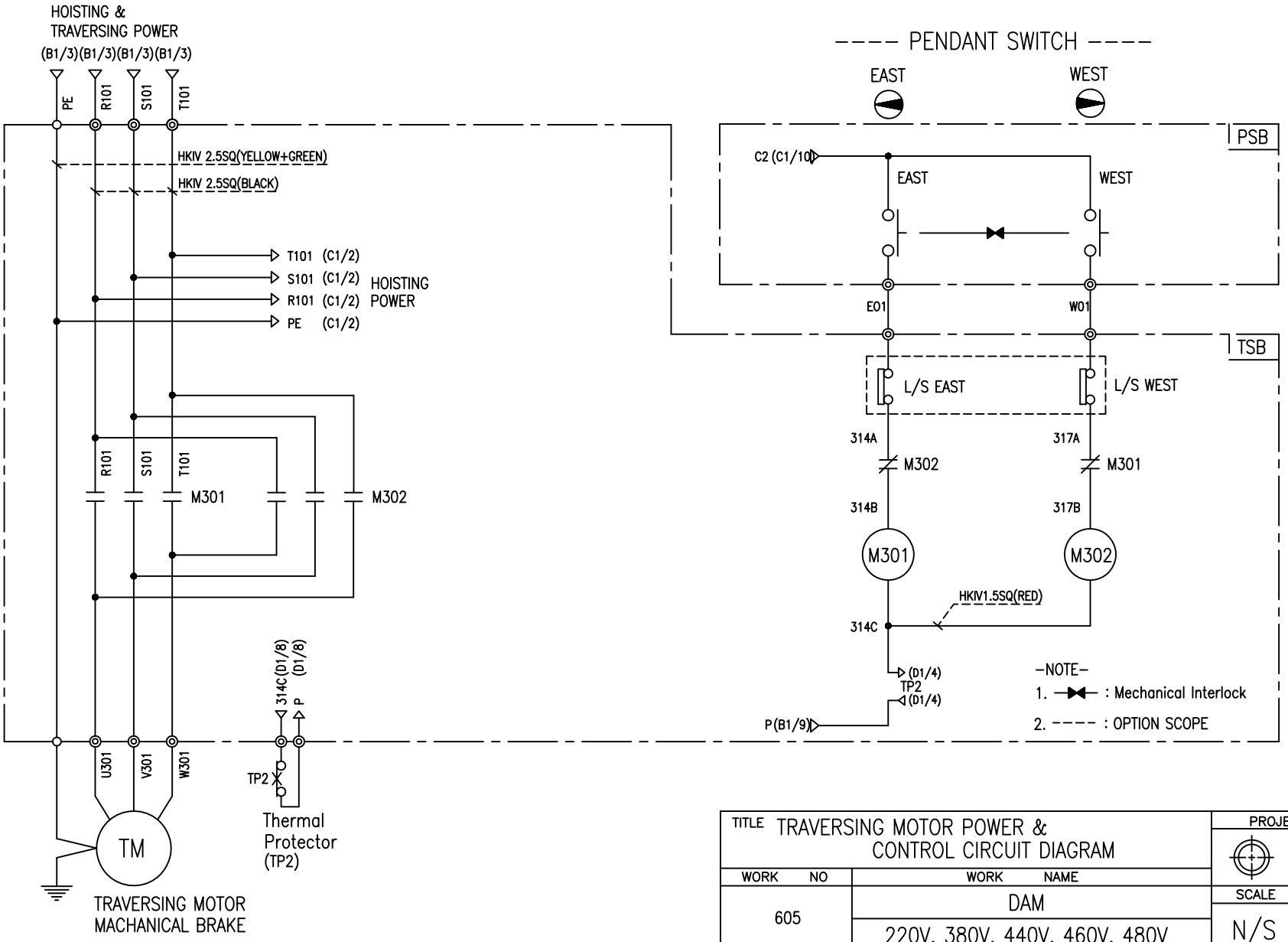
1. ---- : OPTION SCOPE

SPECIFICATION	INVERTER	BRAKING RESISTOR	
SYMBOLS	INV1	BR	
DESCRIPTION	LSLV-0040S100 4.0KW	200V	600W 33 OHM
		400V	600W 130 OHM
MAKER	LS	-	

TITLE				PROJECTION
INVERTER CONTROL CIRCUIT DIAGRAM				
WORK NO	WORK NAME			SCALE / Q'TY
604	HOISTING 220V, 380V, 440V, 460V, 480V			N/S / 1
DRAWN	CHECKED	REVIEWED	APPROVED	MODEL: EDAM
LEE.G.H				CODE NO:
2023.12.07				

L K HOIST CO., LTD.

1	2	3	4	5	6	7	8	9	10	
TRAVERSING POWER CIRCUIT					TRAVERSING CONTROL CIRCUIT				ADDRESS NO.	D1



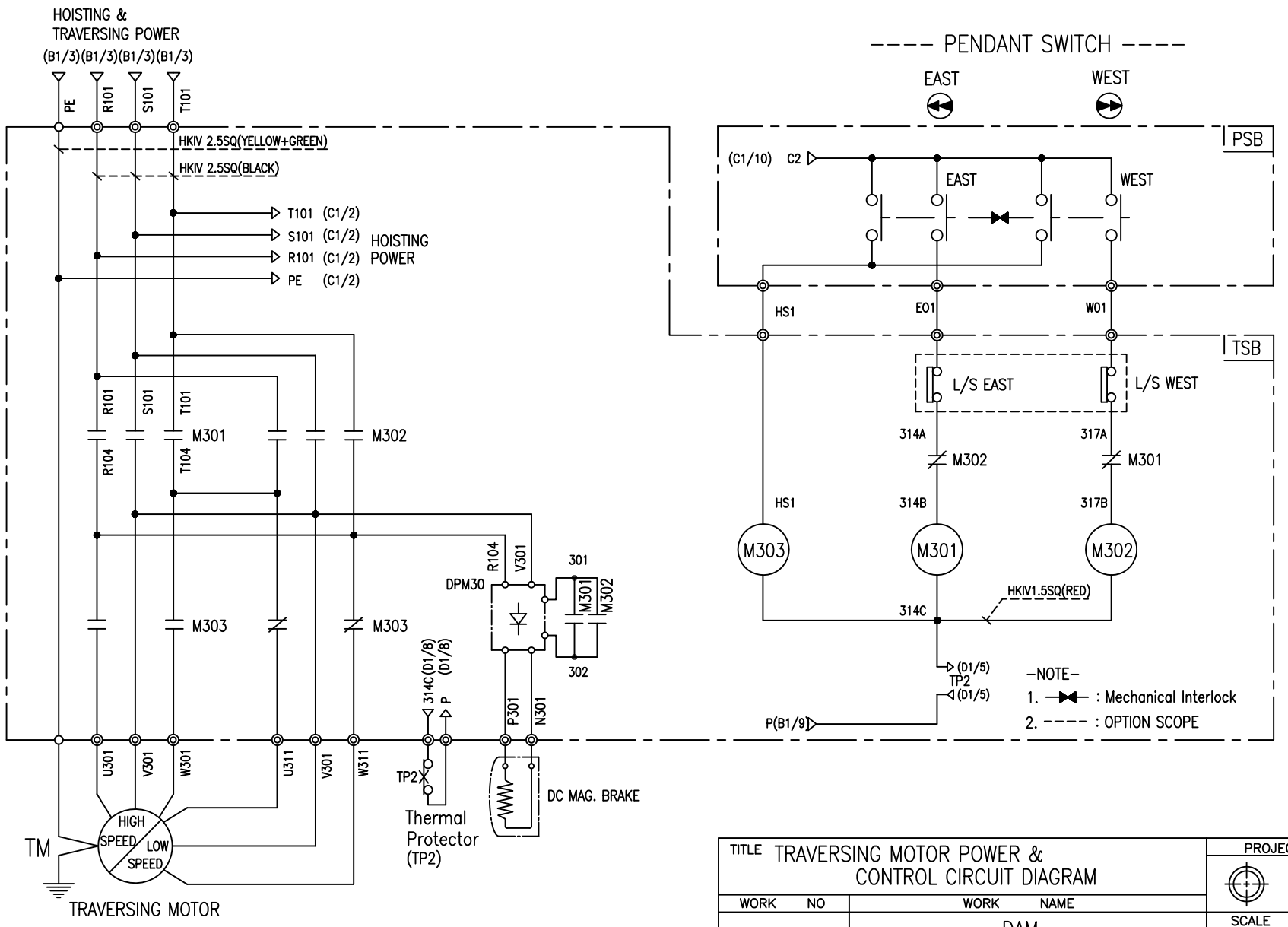
SPECIFICATION	MAGNET CONTACT	Thermal Protector	TRAVERSING MOTOR	
SYMBOLS	M301, M302	TP2	TM	
DESCRIPTION	DMC-12	17AM032	0.75KW*4P	0.4KW*6P
MAKER	DONG-A	Texas Instruments	LK	

TITLE	TRAVERSING MOTOR POWER & CONTROL CIRCUIT DIAGRAM		PROJECTION
WORK NO	WORK NAME		SCALE / Q'TY
605	DAM 220V, 380V, 440V, 460V, 480V		N/S / 1

DRAWN	CHECKED	REVIEWED	APPROVED	MODEL	DAM
LEE.G.H					
2023.12.07					

LK L K HOIST CO., LTD.

1	2	3	4	5	6	7	8	9	10	
TRAVERSING POWER CIRCUIT					TRAVERSING CONTROL CIRCUIT				ADDRESS NO.	D1



SPECIFICATION	MAGNET CONTACT		Thermal Protector	SILICON RECTIFIER					TRAVERSING MOTOR
SYMBOLS	M301, M302	M303	TP2	DPM30					TM
DESCRIPTION	DMC-12	DMC-12 (2A2B)	17AM032	AC220V	AC380V	AC440V	AC460V	AC480V	0.75/0.25KW*4/12P
				DC99V	DC171V	DC198V	DC207V	DC216V	
MAKER	DONG-A		Texas Instruments	YANG YEONG					LK

TITLE	TRAVERSING MOTOR POWER & CONTROL CIRCUIT DIAGRAM		PROJECTION
WORK NO	WORK NAME		SCALE / Q'TY
606	DAM		N/S / 1
	220V, 380V, 440V, 460V, 480V		

DRAWN	CHECKED	REVIEWED	APPROVED	MODEL	DAM
LEE.G.H					
2023.12.07					

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	3.5 - 4 - 38
4. RATED POWER	3.5 KW × 4 P
5. RATED VOLTAGE AND FREQUENCY	380 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	10 A
13. STARTING CURRENT AT RATED VOLTAGE	49.2 A
14. MINIMUM STARTING VOLTAGE	342 V
15. EFFICIENCY AT 100% RATED LOAD	73 %
16. POWER FACTOR AT 100% RATED LOAD	72.8 %
17. STARTING TORQUE	242 %
18. TYPE OF ENCLOSURE	전폐형(IP-54)
19. TYPE OF BEARING	PL : 6205DD OPL : 6008ZZ
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	0.75 - 4 - 38
4. RATED POWER	0.75 KW × 4 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60HZ
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. RATING	15 MIN
8. LOCATION	OUTDOOR
9. INSULATION CLASS	B
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	100℃
11. FULL LOAD SPEED	1670 RPM
12. FULL LOAD CURRENT	2.77 A
13. STARTING CURRENT AT RATED VOLTAGE	15.2 A
14. MINIMUM STARTING VOLTAGE	342 V
15. EFFICIENCY AT 100% RATED LOAD	65 %
16. POWER FACTOR AT 100% RATED LOAD	63 %
17. STARTING TORQUE	250 %
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 - 6 - 38
4. RATED POWER	0.4 KW × 6 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60HZ
6. ROTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. RATING	15 MIN
8. LOCATION	OUTDOOR
9. INSULATION CLASS	B
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	80 ℃
11. FULL LOAD SPEED	1140 RPM
12. FULL LOAD CURRENT	1.85 A
13. STARTING CURRENT AT RATED VOLTAGE	10.5 A
14. MINIMUM STARTING VOLTAGE	342 V
15. EFFICIENCY AT 100% RATED LOAD	65 %
16. POWER FACTOR AT 100% RATED LOAD	63 %
17. STARTING TORQUE	249 %
18. TYPE OF ENCLOSURE	TENV
19. TYPE OF BEARING	PL : 6202DD OPL : 6204DD
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	0.75/0.25 - 4/12 - 38
4. RATED POWER	0.75/0.25 KW × 4/12 P
5. RATED VOLTAGE AND FREQUENCY	380 V 60HZ
6. MOTOR TYPE	SQUIRREL CAGE ROTOR TYPE
7. RATING	15 MIN
8. LOCATION	OUTDOOR
9. INSULATION CLASS	B
10. DESIGN TEMPERATURE RISE (BY RESISTANCE)	90 ℃
11. FULL LOAD SPEED	1670 / 550 RPM
12. FULL LOAD CURRENT	2.77 / 1.74 A
13. STARTING CURRENT AT RATED VOLTAGE	15.3 / 9.57 A
14. MINIMUM STARTING VOLTAGE	342 V
15. EFFICIENCY AT 100% RATED LOAD	65 / 48 %
16. POWER FACTOR AT 100% RATED LOAD	63 / 46 %
17. STARTING TORQUE	249/ 245 %
18. TYPE OF ENCLOSURE	TENV
19. TYPE OF BEARING	PL : 6204DD OPL : 6205ZZ
20. MOUNTING	VERTICAL
21. MAXIMUM AMBIENT TEMPERATURE	40℃
22. BEARING LUBRICATION	GREASE
23. STARTING METHOD	FULL VOLTAGE