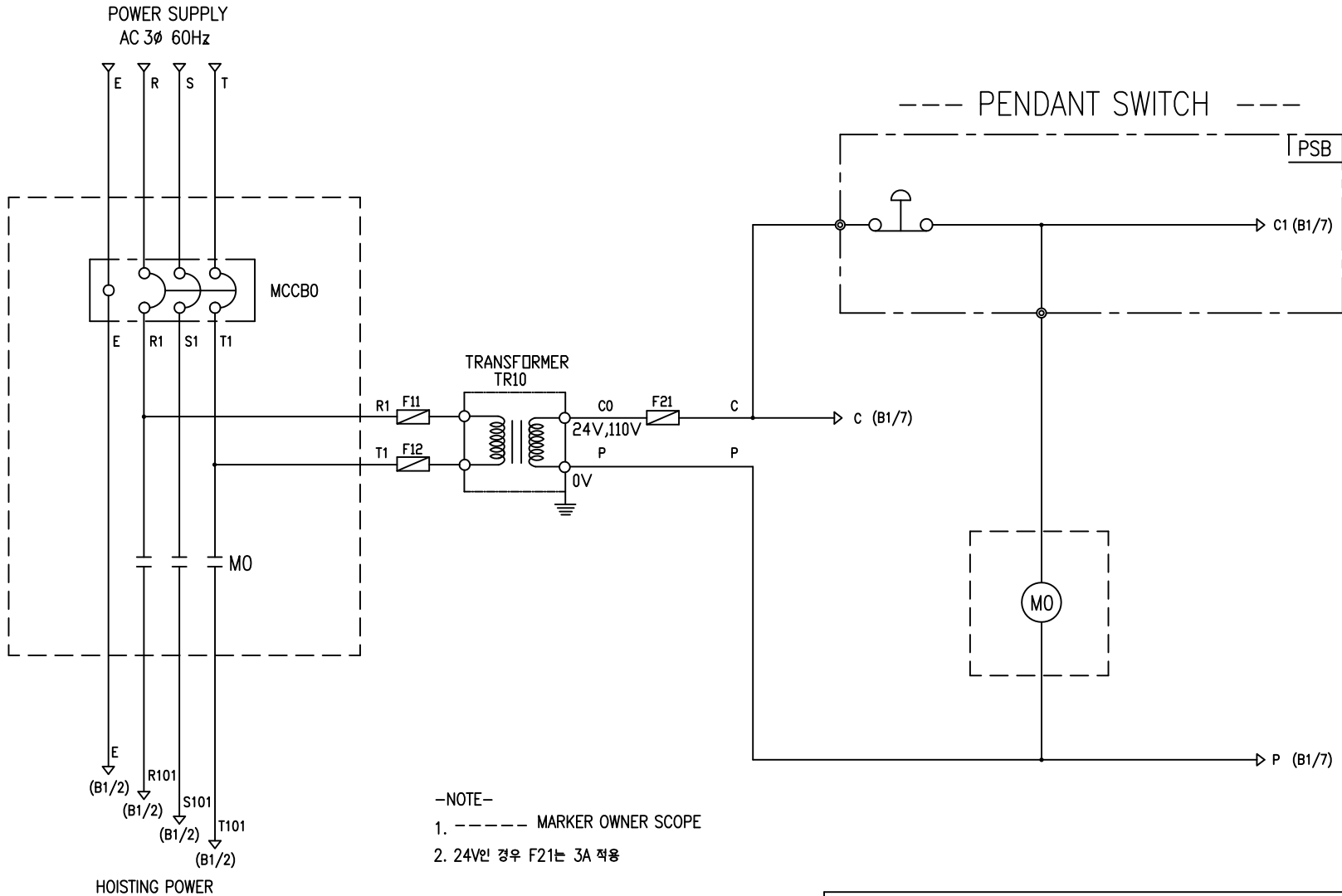


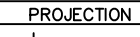
|               |   |   |   |   |                 |   |   |   |    |             |    |
|---------------|---|---|---|---|-----------------|---|---|---|----|-------------|----|
| 1             | 2 | 3 | 4 | 5 | 6               | 7 | 8 | 9 | 10 |             |    |
| POWER CIRCUIT |   |   |   |   | CONTROL CIRCUIT |   |   |   |    | ADDRESS NO. | A1 |



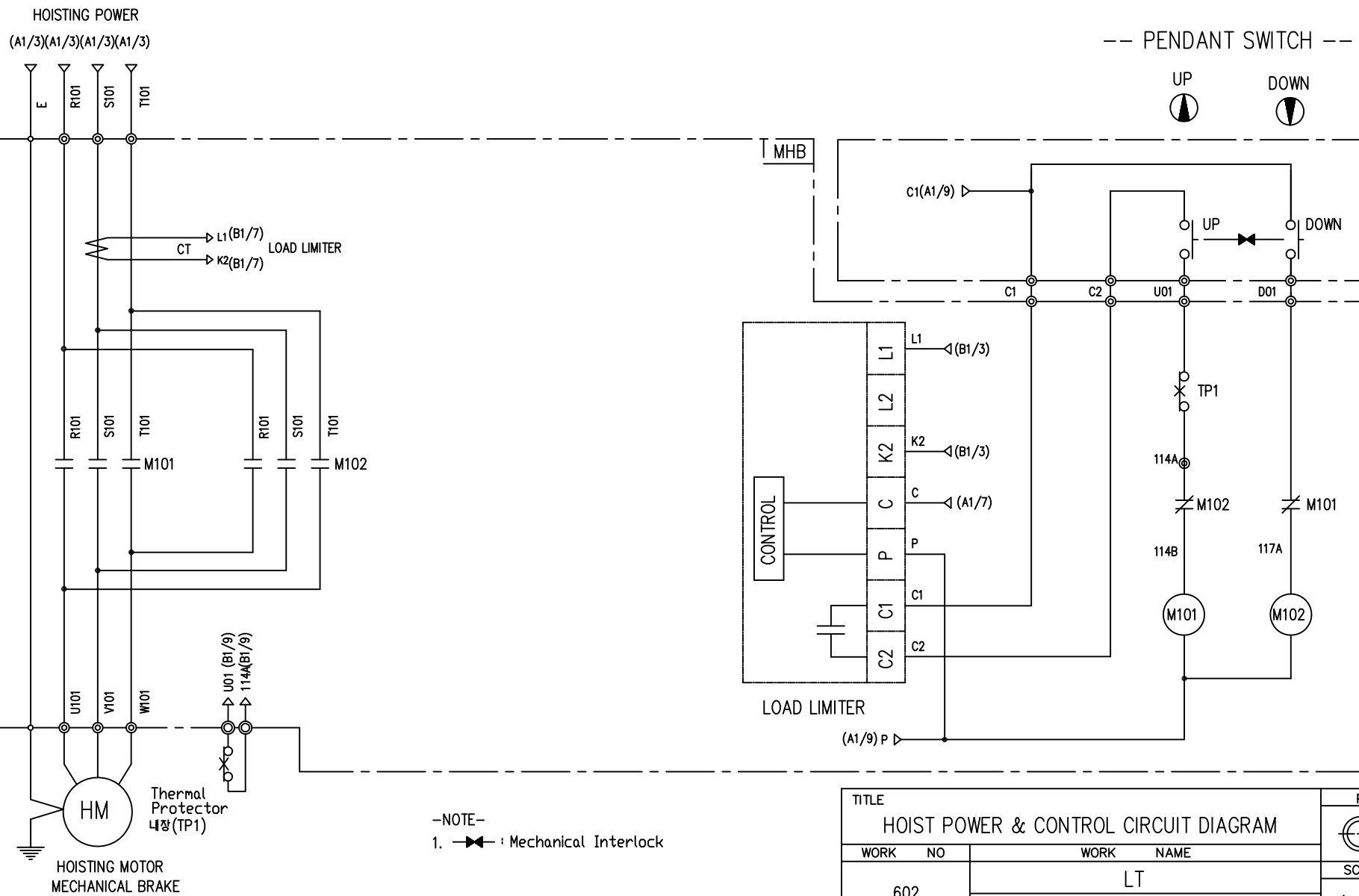
-NOTE-

1. ----- MARKER OWNER SCOPE
2. 24V인 경우 F21는 3A 적용

| SPECIFICATION | NO FUSE BREAKER |     | MAGNET CONTACT |       | TRANSFORMER | FUSE          |
|---------------|-----------------|-----|----------------|-------|-------------|---------------|
| SYMBOLS       | MCCB0           |     | M0             |       | TR10        | F11, F12, F21 |
| DESCRIPTION   | 220V            | 20A | GMC18          | DMC18 | 30VA        | 1A            |
|               | 380V            | 10A |                |       |             |               |
|               | 440V            | 10A |                |       |             |               |
|               | 460V            | 10A |                |       |             |               |
|               | 480V            | 10A |                |       |             |               |
| MAKER         | LS              |     | LS             | DONGA | LK          | —             |

|                                                                                                                                   |  |                              |          |          |                                                                                                                                         |    |
|-----------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----|
| TITLE                                                                                                                             |  |                              |          |          | MAIN POWER & CONTROL CIRCUIT DIAGRAM <div>  </div> |    |
| WORK NO                                                                                                                           |  | WORK NAME                    |          |          | <div>SCALE</div> <div>Q' TY</div>                                                                                                       |    |
| 601                                                                                                                               |  | LT                           |          |          | SCALE                                                                                                                                   |    |
|                                                                                                                                   |  | 220V, 380V, 440V, 460V, 480V |          |          | Q' TY                                                                                                                                   |    |
| DRAWN                                                                                                                             |  | CHECKED                      | REVIEWED | APPROVED | DRAWING NO                                                                                                                              | LT |
| LEE.G.H                                                                                                                           |  |                              |          |          | CODE NO                                                                                                                                 |    |
| 2010.07.20                                                                                                                        |  |                              |          |          |                                                                                                                                         |    |
| <div>  <div>L K HOIST CO., LTD.</div> </div> |  |                              |          |          |                                                                                                                                         |    |

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



|               |                |       |              |                   |             |            |
|---------------|----------------|-------|--------------|-------------------|-------------|------------|
| SPECIFICATION | MAGNET CONTACT |       | LOAD LIMITER | Thermal Protector | HOIST MOTOR |            |
| SYMBOLS       | M101, M102     |       | —            | TP1               | HM          |            |
| DESCRIPTION   | GMC12          | DMC12 | LKDL-501     | 17AM032           | 1.8Kw * 4P  | 1.2Kw * 6P |
| MAKER         | LS             | DONGA | LK           | Texas Instruments | LK          |            |

|                                                                                                                  |         |                              |          |         |    |  |            |       |
|------------------------------------------------------------------------------------------------------------------|---------|------------------------------|----------|---------|----|--|------------|-------|
| TITLE                                                                                                            |         |                              |          |         |    |  | PROJECTION |       |
| HOIST POWER & CONTROL CIRCUIT DIAGRAM                                                                            |         |                              |          |         |    |  |            |       |
| WORK NO                                                                                                          |         | WORK NAME                    |          |         |    |  | SCALE      | Q' TY |
| 602                                                                                                              |         | LT                           |          |         |    |  | 1/1        | 1     |
|                                                                                                                  |         | 220V, 380V, 440V, 460V, 480V |          |         |    |  |            |       |
| DRAWN                                                                                                            | CHECKED | REVIEWED                     | APPROVED | MODEL   | LT |  |            |       |
| LEE.G.H                                                                                                          |         |                              |          | CODE NO |    |  |            |       |
| 2010.07.20                                                                                                       |         |                              |          |         |    |  |            |       |
|  <b>L K HOIST CO., LTD.</b> |         |                              |          |         |    |  |            |       |

|                                             |                             |                 |
|---------------------------------------------|-----------------------------|-----------------|
| SPECIFICATION FOR<br>ELECTRIC MOTORS        | INTERNAL IDENTIFICATION NO. | PAGE :<br>REV : |
| SCHEDULE OF TECHNICAL DATA                  |                             |                 |
| 1. SERVICE                                  | HOISTING                    |                 |
| 2. MANUFACTURE                              | LK HOIST CO. LTD            |                 |
| 3. MOTOR MODEL NO                           | 1.8 - 4 - 38                |                 |
| 4. RATED POWER                              | 1.8 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                         | 1720 RPM                    |                 |
| 12. FULL LOAD CURRENT                       | 4.9 A                       |                 |
| 13. STARTING CURRENT AT RATED VOLTAGE       | 24.1 A                      |                 |
| 14. MINIMUM STARTING VOLTAGE                | 342 V                       |                 |
| 15. EFFICIENCY AT 100% RATED LOAD           | 69.8 %                      |                 |
| 16. POWER FACTOR AT 100% RATED LOAD         | 67.3 %                      |                 |
| 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<br>ELECTRIC MOTORS        | INTERNAL IDENTIFICATION NO. | PAGE :<br>REV : |
| SCHEDULE OF TECHNICAL DATA                  |                             |                 |
| 1. SERVICE                                  | HOISTING                    |                 |
| 2. MANUFACTURE                              | LK HOIST CO. LTD            |                 |
| 3. MOTOR MODEL NO                           | 1.2 - 6 - 38                |                 |
| 4. RATED POWER                              | 1.2 KW × 6 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                         | 1150 RPM                    |                 |
| 12. FULL LOAD CURRENT                       | 5.2 A                       |                 |
| 13. STARTING CURRENT AT RATED VOLTAGE       | 23.4 A                      |                 |
| 14. MINIMUM STARTING VOLTAGE                | 347 V                       |                 |
| 15. EFFICIENCY AT 100% RATED LOAD           | 68.5 %                      |                 |
| 16. POWER FACTOR AT 100% RATED LOAD         | 64 %                        |                 |
| 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                |                 |