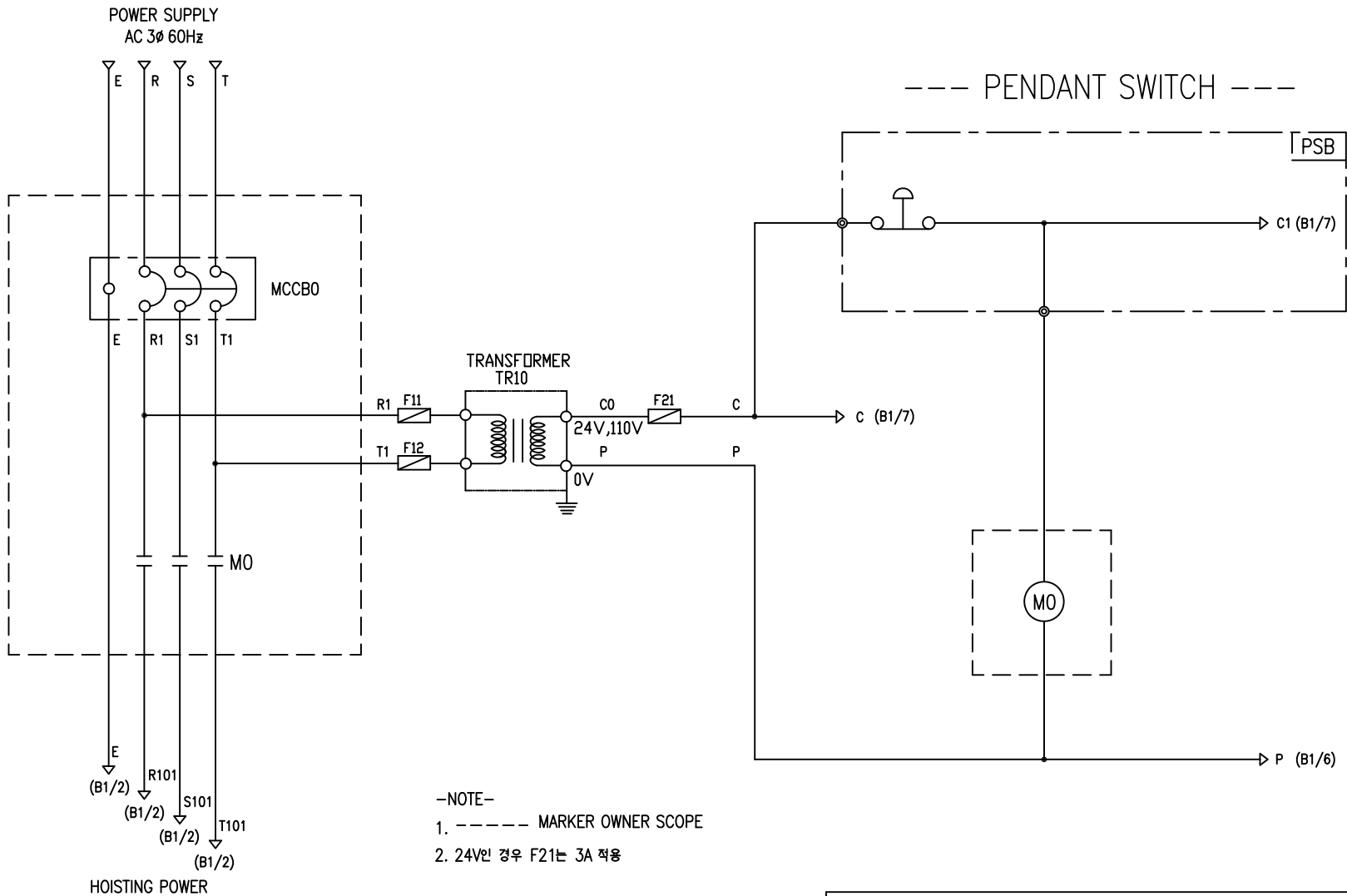


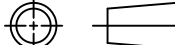
|               |   |   |   |   |                 |   |   |   |    |             |    |
|---------------|---|---|---|---|-----------------|---|---|---|----|-------------|----|
| 1             | 2 | 3 | 4 | 5 | 6               | 7 | 8 | 9 | 10 |             |    |
| POWER CIRCUIT |   |   |   |   | CONTROL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

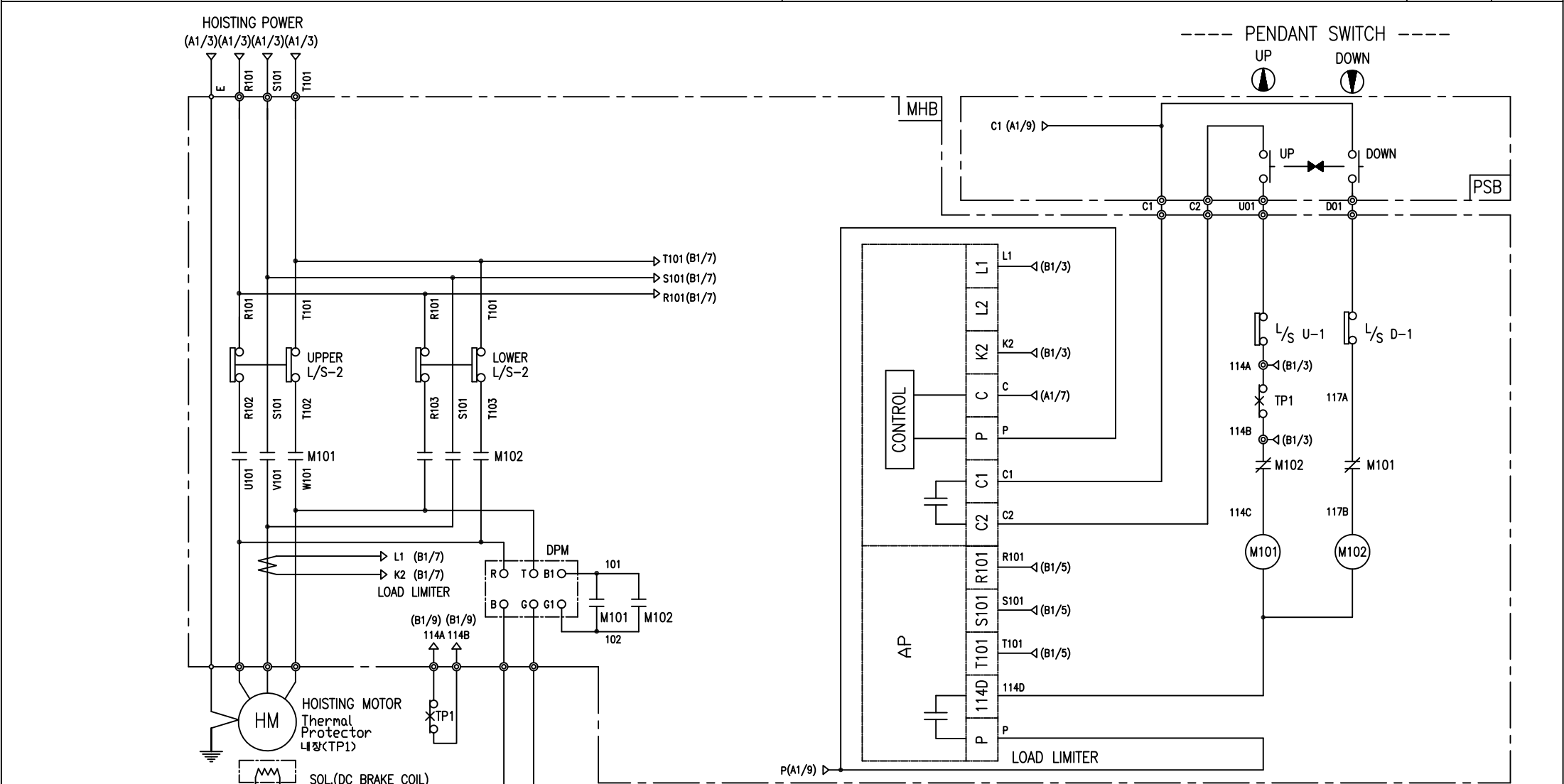


-NOTE-

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            | 30A | GMC18          | DMC-18 | 60VA        | 1A            |
|               | 380V            | 20A |                |        |             |               |
|               | 440V            | 20A |                |        |             |               |
|               | 460V            | 20A |                |        |             |               |
|               | 480V            | 20A |                |        |             |               |
| MAKER         | LS              |     | LS             | DONGA  | LK          | -             |

|                                                                                                                  |         |                              |          |       |                                                                                       |       |
|------------------------------------------------------------------------------------------------------------------|---------|------------------------------|----------|-------|---------------------------------------------------------------------------------------|-------|
| TITLE                                                                                                            |         |                              |          |       | PROJECTION                                                                            |       |
| MAIN POWER & CONTROL CIRCUIT DIAGRAM                                                                             |         |                              |          |       |  |       |
| WORK                                                                                                             | NO      | WORK                         |          |       | NAME                                                                                  |       |
| 601                                                                                                              |         | DA                           |          |       | SCALE                                                                                 | Q' TY |
|                                                                                                                  |         | 220V, 380V, 440V, 460V, 480V |          |       | 1/1                                                                                   | 1     |
| DRAWN                                                                                                            | CHECKED | REVISED                      | APPROVED | MODEL | DA                                                                                    |       |
| LEE.G.H                                                                                                          |         |                              |          | CODE  | NO                                                                                    |       |
| 2010.07.30                                                                                                       |         |                              |          |       |                                                                                       |       |
|  <b>L K HOIST CO., LTD.</b> |         |                              |          |       |                                                                                       |       |



|               |                |        |              |                   |        |        |        |                   |             |
|---------------|----------------|--------|--------------|-------------------|--------|--------|--------|-------------------|-------------|
| SPECIFICATION | MAGNET CONTACT |        | LOAD LIMITER | SILICON RECTIFIER |        |        |        | Thermal Protector | HOIST MOTOR |
| SYMBOLS       | M101, M102     |        | —            | DPM               |        |        |        | TP1               | HM          |
| DESCRIPTION   | DMC-22         | GMC-22 | LKDL-601     | AC220V            | AC440V | AC460V | AC480V | 17AM032           | 3.5Kw * 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 |
| 602                                   |         | DA        |          |         |  | 1/1        | 1     |
| 220V, 440V, 460V, 480V                |         |           |          |         |  |            |       |
| DRAWN                                 | CHECKED | REVIEWED  | APPROVED | MODEL   |  | DA         |       |
| LEE.G.H                               |         |           |          | CODE NO |  |            |       |
| 2010.07.30                            |         |           |          |         |  |            |       |
| L K HOIST CO., LTD.                   |         |           |          |         |  |            |       |

|                                             |                             |                 |
|---------------------------------------------|-----------------------------|-----------------|
| 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                           | 3.5 - 4 - 48                |                 |
| 4. RATED POWER                              | 3.5 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                       | 7.9 A                       |                 |
| 13. STARTING CURRENT AT RATED VOLTAGE       | 38.5 A                      |                 |
| 14. MINIMUM STARTING VOLTAGE                | 432 V                       |                 |
| 15. EFFICIENCY AT 100% RATED LOAD           | 73.5 %                      |                 |
| 16. POWER FACTOR AT 100% RATED LOAD         | 73.0 %                      |                 |
| 17. STARTING TORQUE                         | 247 %                       |                 |
| 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                |                 |