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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------|--------|------|
|                                                                                                                                                                                | COUNT                       | DESCRIPTION OF REVISIONS                                                                                     | BY                                               | CHKD | DATE                           |                                                                                                                                                                  | COUNT                                | DESCRIPTION OF REVISIONS       | BY                                                                                                | CHKD   | DATE |
|                                                                                                                                                                                |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| APPLICABLE STANDARD                                                                                                                                                            |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| RATING                                                                                                                                                                         | OPERATING TEMPERATURE RANGE |                                                                                                              | -55℃ TO +85℃(note1)                              |      |                                | STORAGE TEMPERATURE RANGE                                                                                                                                        |                                      | -10℃ TO +60℃                   |                                                                                                   |        |      |
|                                                                                                                                                                                | VOLTAGE                     |                                                                                                              | 30 V AC/DC                                       |      |                                | APPLICABLE CONNECTOR                                                                                                                                             |                                      | BK10C05-50DS/2-0.3V(**)        |                                                                                                   |        |      |
|                                                                                                                                                                                | CURRENT                     |                                                                                                              | SIGNAL CONTACT 0.3A(note2)<br>POWER CONTACT 5.0A |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| SPECIFICATIONS                                                                                                                                                                 |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| ITEM                                                                                                                                                                           |                             | TEST METHOD                                                                                                  |                                                  |      |                                | REQUIREMENTS                                                                                                                                                     |                                      |                                |                                                                                                   | QT     | AT   |
| CONSTRUCTION                                                                                                                                                                   |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| GENERAL EXAMINATION                                                                                                                                                            |                             | CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.                                                              |                                                  |      |                                | ACCORDING TO DRAWING.                                                                                                                                            |                                      |                                |                                                                                                   | X      | X    |
| MARKING                                                                                                                                                                        |                             | CONFIRMED VISUALLY.                                                                                          |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   | X      | X    |
| ELECTRICAL CHARACTERISTICS                                                                                                                                                     |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| CONTACT RESISTANCE                                                                                                                                                             |                             | 20mV AC OR LESS 1kHz, 1mA                                                                                    |                                                  |      |                                | SIGNAL CONTACT : 50mΩ MAX<br>POWER CONTACT : 30mΩ MAX                                                                                                            |                                      |                                |                                                                                                   | X      | -    |
| INSULATION RESISTANCE                                                                                                                                                          |                             | 100V DC                                                                                                      |                                                  |      |                                | 50MΩ MIN                                                                                                                                                         |                                      |                                |                                                                                                   | X      | -    |
| VOLTAGE PROOF                                                                                                                                                                  |                             | 100V AC FOR 1min.                                                                                            |                                                  |      |                                | NO FLASHOVER OR BREAKDOWN                                                                                                                                        |                                      |                                |                                                                                                   | X      | -    |
| MECHANICAL CHARACTERISTICS                                                                                                                                                     |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| MECHANICAL OPERATION                                                                                                                                                           |                             | 10 TIMES INSERTIONS AND EXTRACTIONS.                                                                         |                                                  |      |                                | ① CONTACT RESISTANCE:<br>SIGNAL CONTACT : 50mΩ MAX<br>POWER CONTACT : 50mΩ MAX<br>② NO DAMAGE, CRACK OR LOOSENESS OF PATRS.                                      |                                      |                                |                                                                                                   | X      | -    |
| VIBRATION                                                                                                                                                                      |                             | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min<br>SINGLE AMPLITUDE 0.75mm, 10CYCLES,<br>FOR 3 DIRECTIONS.          |                                                  |      |                                | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                                                               |                                      |                                |                                                                                                   | X      | -    |
| SHOCK                                                                                                                                                                          |                             | 490 m/s² DURATION OF PULSE 11ms AT 3 TIMES<br>FOR 3 DIRECTIONS.                                              |                                                  |      |                                | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                                                               |                                      |                                |                                                                                                   | X      | -    |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                  |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                    |                             | TEMPERATURE -55 → +85℃<br>TIME 30 → 30 min<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHAMBER: WITHIN2~3 MIN) |                                                  |      |                                | ① CONTACT RESISTANCE:<br>SIGNAL CONTACT : 50mΩ MAX<br>POWER CONTACT : 50mΩ MAX<br>② INSULATION RESISTANCE: 50MΩ MIN<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                                      |                                |                                                                                                   | X      | -    |
| DAMP HEAT (STEADY STATE)                                                                                                                                                       |                             | EXPOSED AT 40±2℃, 90 TO 95%, 96h.                                                                            |                                                  |      |                                | ① CONTACT RESISTANCE:<br>SIGNAL CONTACT : 50mΩ MAX<br>POWER CONTACT : 50mΩ MAX<br>② INSULATION RESISTANCE: 25MΩ MIN<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                                      |                                |                                                                                                   | X      | -    |
| SULPHUR DIOXIDE                                                                                                                                                                |                             | EXPOSED IN 25 PPM FOR 96h, 25℃, 75±5%RH.<br>(Test standard : JIS C 60068)                                    |                                                  |      |                                | ① CONTACT RESISTANCE:<br>SIGNAL CONTACT : 50mΩ MAX<br>POWER CONTACT : 50mΩ MAX<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                      |                                      |                                |                                                                                                   | X      | -    |
| REFERENCE DRAWING                                                                                                                                                              |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| REMARKS<br>Note 1 : INCLUDE THE TEMPERATURE RISING BY CURRENT.<br>Note 2 : MAX 12A AT TOTAL PIN CONTACTS.<br><br>Unless otherwise specified, refer to JIS C 5402 and IEC 60512 |                             |                                                                                                              |                                                  |      | DRAWN<br>D.W.JEONG<br>24.01.19 | DESIGNED<br>D.W.JEONG<br>24.01.19                                                                                                                                | CHECKED<br>Y.J.LEE<br>24.01.19       | APPROVED<br>H.W.JO<br>24.01.19 | RELEASED<br> |        |      |
| Note QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST                                                                                                              |                             |                                                                                                              |                                                  |      |                                |                                                                                                                                                                  |                                      |                                |                                                                                                   |        |      |
| HIROSE KOREA CO.,LTD.                                                                                                                                                          |                             |                                                                                                              | SPECIFICATION SHEET                              |      |                                |                                                                                                                                                                  | PART NO.<br>BK10C05-50DP/2-0.3V(895) |                                |                                                                                                   |        |      |
| CODE NO.(OLD)<br>CL                                                                                                                                                            |                             | DRAWING NO.<br>ELC4-633583-95                                                                                |                                                  |      | CODE NO.<br>CL 6666-0063-1-895 |                                                                                                                                                                  |                                      |                                |                                                                                                   | 1<br>1 |      |