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| COUNT | DESCRIPTION OF REVISIONS | BY  | CHKD | DATE     | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|-----|------|----------|-------|--------------------------|----|------|------|
| △ 1   | RE-6-0915                | LYJ | JHW  | 17.06.23 |       |                          |    |      |      |

**APPLICABLE STANDARD**

|        |                             |  |                           |                          |
|--------|-----------------------------|--|---------------------------|--------------------------|
| RATING | OPERATING TEMPERATURE RANGE | -55℃ TO +85℃(note1)                                | STORAGE TEMPERATURE RANGE | -10℃ TO +60℃             |
|        | VOLTAGE                     | 30 V AC/DC   | APPLICABLE CONNECTOR      | BM23PF0.8-42DS-0.35V(**) |
|        | 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 : 90mΩ 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 : 90mΩ MAX<br>POWER CONTACT : 30mΩ 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/s <sup>2</sup> 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 : 90mΩ MAX<br>POWER CONTACT : 30mΩ 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 : 90mΩ MAX<br>POWER CONTACT : 30mΩ 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 : 90mΩ MAX<br>POWER CONTACT : 30mΩ 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>Unless otherwise specified, refer to JIS C 5402 and IEC 60512 | DRAWN<br>Y.J.LEE<br>16.01.21 | DESIGNED<br>Y.J.LEE<br>16.01.21 | CHECKED<br>H.W.JO<br>16.01.21 | APPROVED<br>T.S.KANG<br>16.01.21 | RELEASED<br> |
|--|------------------------------|---------------------------------|-------------------------------|----------------------------------|---|

Note QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST

|                       |                     |                                      |
|-----------------------|---------------------|--------------------------------------|
| HIROSE KOREA CO.,LTD. | SPECIFICATION SHEET | PART NO.<br>BM23PF0.8-42DP-0.35V(51) |
|-----------------------|---------------------|--------------------------------------|

|                     |                            |                                |     |
|---------------------|----------------------------|--------------------------------|-----|
| CODE NO.(OLD)<br>CL | DRAWING NO.<br>SLC4-632162 | CODE NO.<br>CL 6644-0080-3-051 | 1/1 |
|---------------------|----------------------------|--------------------------------|-----|