


Jul.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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 | BM23FR0.8-18DS-0.35V(**) | | | |
| | CURRENT | 0.3A | | | | | | | |
| 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 | | | 100mΩ 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: 100mΩ MAX ② NO DAMAGE, CRACK OR LOOSENESS OF PATRS. | | | X | - |
| VIBRATION | | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min SINGLE AMPLITUDE 0.75mm, 10CYCLES, FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | X | - |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55 → +85℃ TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN2~3 MIN) | | | ① CONTACT RESISTANCE: 100mΩ MAX ② INSULATION RESISTANCE: 50MΩ MIN ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | X | - |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2℃, 90 TO 95%, 96h. | | | ① CONTACT RESISTANCE: 100mΩ MAX ② INSULATION RESISTANCE: 25MΩ MIN ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | X | - |
| SULPHUR DIOXIDE | | EXPOSED IN 25 PPM FOR 96h, 25℃, 75±5%RH. (Test standard : JIS C 60068) | | | ① CONTACT RESISTANCE: 100mΩ MAX | | | X | - |
| REMARKS | | | | | | | | | |
| Note 1 ; INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | |
| | | | | S.H.JUNG | S.H.JUNG | H.W.JO | T.S.KANG |  | |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512 | | | | 16.09.09 | 16.09.09 | 16.09.09 | 16.09.09 | | |
| Note QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST | | | | | | | | | |
| HIROSE KOREA CO.,LTD. | | | SPECIFICATION SHEET | | | PART NO. | | | |
| | | | | | | BM23FR0.8-18DP-0.35V(51) | | | |
| CODE NO.(OLD) | | DRAWING NO. | | | CODE NO. | | | 1 | |
| CL | | SLC4-632354 | | | CL 6644-0090-7-051 | | | 1 | |