
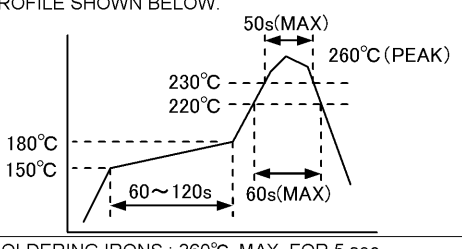






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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | | | |
|--|--|---|---------------------------|--------------------------------|---|----------|
|  RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ^{(1) (2)} | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽³⁾ | | |
| | OPERATING HUMIDITY RANGE | RH 85 % MAX ^{(2) (4)} | STORAGE HUMIDITY RANGE | RH 70 % MAX ^{(3) (4)} | | |
| | VOLTAGE | 60 V AC | CURRENT | 0.5 A | | |
| | SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT | | |
| CONSTRUCTION | | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | x | x | | |
| MARKING | CONFIRMED VISUALLY. | | x | x | | |
| ELECTRIC CHARACTERISTICS | | | | | | |
| CONTACT RESISTANCE | 20 mV MAX, 1 mA(DC OR 1000Hz) | 80 mΩ MAX. ⁽⁵⁾ | x | | | |
| INSULATION RESISTANCE | 100 V DC. | 500 MΩ MIN. | x | | | |
| VOLTAGE PROOF | 200 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | x | | | |
| MECHANICAL CHARACTERISTICS | | | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE: 10.5 N MAX. WITHDRAWAL FORCE: 1.05 N MIN. | x | | | |
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | | | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.75 mm, FOR 2 h IN 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | | | |
| SHOCK | 490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS. | | x | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h. | ① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | | | |
| DRY HEAT | EXPOSED AT 85±2 °C, 96 h | | x | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → +5~+35 → +85 → +5~+35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES. | ① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DERECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. | x | | | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | x | | | |
| SULFUR DIOXIDE | EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068) | | x | | | |
| RESISTANCE TO SOLDERING HEAT | 1)REFLOW SOLDERING : REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW.  2) SOLDERING IRONS : 360°C MAX. FOR 5 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | x | | | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3 sec. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | x | | | |
|  | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | |
| | 2 | DIS-F-004353 | KN. SHIBUYA | HT. YAMAGUCHI | 09.12.15 | |
|  | REMARKS | | | APPROVED | HS. OKAWA | 08.02.13 |
| | (1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. (2) OPERATING TEMPERATURE SHOULD BE -55 TO 40°C WHEN HUMIDITY EXCEEDS 80% RH. (3) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB. (4) THERE MUST NOT BE DEWFALL. (5) DON'T INCLUDE CONDUCTOR RESISTANCE OF THE CABLE OF THE COMBINATION CONNECTOR. | | | CHECKED | HT. YAMAGUCHI | 08.02.13 |
| | Unless otherwise specified, refer to JIS-C-5402. | | | DESIGNED | KN. SHIBUYA | 08.02.13 |
| | Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWN | KN. SHIBUYA | 08.02.13 |
| | DRAWING NO. | | ELC4-157339-00 | | | |
|  | SPECIFICATION SHEET | | PART NO. | FX16-21S-0.5SH | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL575-3411-5-00 |  1/1 | |