



**THE DATASHEET OF
FX8-100S-SV(21)**



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| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|---|-----------------------------|--|------|-------------------------------|--|------------------------------|--------------------------------|----------|------|
| APPLICATION STANDARD | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C | | | STORAGE TEMPERATURE RANGE | — °C TO — °C | | | |
| | VOLTAGE | 100 V AC | | | OPERATING HUMIDITY RANGE | — % TO — % | | | |
| | CURRENT | 0.4 A | | | APPLICABLE CABLE | — | | | |
| SPECIFICATIONS | | | | | | | | | |
| ITEM | | TEST METHOD | | | REQUIREMENT | | | QT | AT |
| CONSTRUCTION | | | | | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | | | ACCORDING TO DRAWING | | | ○ | ○ |
| MARKING | | CONFIRMED VISUALLY | | | | | | ○ | - |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | |
| CONTACT RESISTANCE | | 100 mA (DC OR 1000 Hz) | | | 45 mΩ MAX. | | | ○ | - |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV MAX, 1 mA (DC OR 1000 Hz) | | | 55 mΩ MAX. | | | ○ | - |
| INSULATION RESISTANCE | | 250 V DC | | | 100 MΩ MIN. | | | ○ | - |
| VOLTAGE PROOF | | 300 V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN | | | ○ | - |
| MECHANICAL CHARACTERISTICS | | | | | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | | BY STEEL GAUGE. | | | INSERTION FORCE: N MAX. EXTRACTION FORCE: N MIN. | | | - | - |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | INSERTION FORCE: (0.7 × ※※) N MAX. WITHDRAWAL FORCE: (0.065 × ※※) N MIN. | | | ○ | - |
| MECHANICAL OPERATION | | 50 TIMES INSERTION AND EXTRACTIONS. | | | 1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | ○ | - |
| VIBRATION | | FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.75 mm, - m/s ² AT 2 h FOR 3 DIRECTIONS. | | | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) CONTACT RESISTANCE: 55 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | ○ | - |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | | | | ○ | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, 90~95 %, 96 h. | | | 1) CONTACT RESISTANCE: 55 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. | | | ○ | - |
| RAPID CHAGE OF TEMPERTURE | | TEMPERTURE -55→+5~+35→+85→+5~+35°C TIME 30→10~15→30→10~15 min. UNDER 5 CYCLES. | | | 3) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | ○ | - |
| DAMP HEAT,CYCLIC | | EXPOSED AT TO °C, TO % TOTAL CYCLES(h). | | | 1) CONTACT RESISTANCE: mΩ MAX. 2) INSULATION RESISTANCE: MΩ MIN.(AT HIGH HUMIDITY) 3) INSULATION RESISTANCE: MΩ MIN.(AT DRY) 4) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | - | - |
| DRY HEAT | | EXPOSED AT °C, h. | | | 1) CONTACT RESISTANCE: mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | - | - |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | | 1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO HEAVY CORROSION. | | | ○ | - |
| HYDROGEN SULPHIDE | | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD:JEIDA-38) | | | | | | ○ | - |
| SULPHUR DIOXIDE | | EXPOSED IN PPM FOR h. (TEST STANDARD:JEIDA-39) | | | | | | - | - |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, °C FOR IMMERSION,DURATION, s. | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | | | - | - |
| SOLDRABILITY | | SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s. | | | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | | - | - |
| REMARKS | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | |
| UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402. | | | | <i>S. Morita</i> '95.10.31 | <i>J. Matsukawa</i> '95.10.31 | <i>M. Tomita</i> '95.11.1 | <i>Y. Yamamura</i> '95.11.1 | | |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST ○: APPLICABLE TEST | | | | | | | | | |
| HR5 HIROSE ELECTRIC CO.,LTD. | | SPECIFICATION SHEET | | | PART NO. FX8-※※S-SV(21) | | | | |
| CODE NO.(OLD) CL | | DRAWING NO. SLC4-150730-01 | | | CODE NO. CL 578 - | | 1 1 | | |



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