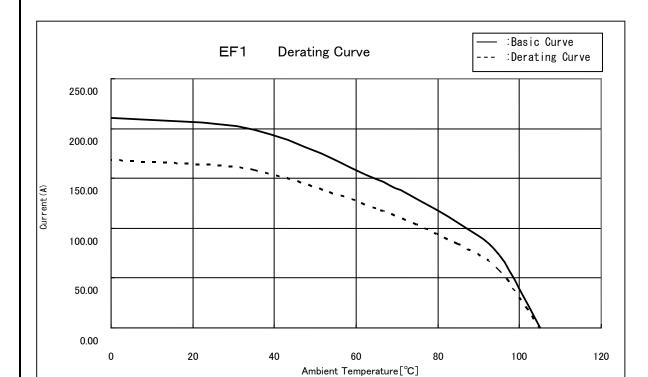
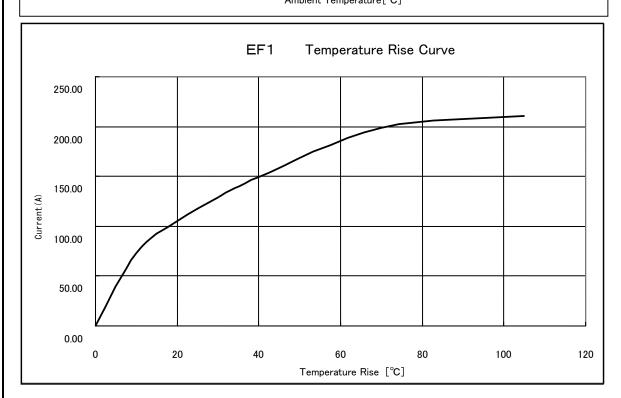
| APPLICAB | LE STAN | DARD | TÜV approved(J 50240903 | B), UL app | oroved(E | 52653) | | | | | |
|----------------------------------|--|--|--|------------|----------|---|---|--|------------|-----------------|--|
| RATING | Operating Temperature Range Voltage | | -25°C T0 +105°C (1) Store | | | rage perature | e Range | -10°C T0 +6 |)°C | | |
| | | | AC, DC 600 V (UL, TÜV) — — — — — — — — — — — — — — — — — — — | | | | _ | | | | |
| Current 1 | | 1 | | | | 1 AWG #2 | | 38 (26.66 TO 42.4 ΛWG #2 Outer diameter : Φ1 | | | |
| | • | | SPEC | CIFICA | TION | S | • | | | | |
| רו | ГЕМ | | TEST METHOD | | | | REQ | UIREMENTS | QT | АТ | |
| CONSTRU | CTION | | | | | 1 | | | Тх | X | |
| General Examination Ex | | Examined | Examined visually and with a measuring instrument. | | | | According to the drawing. | | | | |
| Marking | | | Confirmed visually. | | | | | | | Х | |
| ELECTRICAL CHARAC | | | | | | | 0.5 0. MAY | | | | |
| Contact Resistance | | weasur ed | Measured at 1 A DC. | | | 0.5 mΩ MAX. | | | | Х | |
| Insuration Resistance | | Measured | Measured at 500 V DC. | | | 100 | O MΩ MIN. | | X | Х | |
| Voltage Proof | | | 3310 V AC applied for 1 min. | | | No flashover or breakdown. | | | | Х | |
| | | Current I | eakage 2 mA MAX. | | | | | | | | |
| Mating and Ur | | | | without | locking | Mating | and unmating | force : 100 N MAY | | 1 | |
| mating and or | illiating Ford | device. | | | | | Mating and unmating force : 100 N MAX. (Initial measurement) | | | _ | |
| Contact Reter | ntion Forces | | Subjected to a tensile force of 150N MAX. | | | | ge. | , | | | |
| | | Mated and | Mated and unmated 30 times. | | | No damage, cracks or looseness of parts. Contact resistance : 1 mΩ MAX. | | | X | <u>-</u> _ | |
| | | | | | | ③ Ma | 1 - | | | | |
| | | Single am Accelerat Performed | Frequency: 10 Hz to 55 Hz, Single amplitude: 0.75 mm, Acceleration: 98 m/s ² Performed over 10 cycles in each of three mutually perpendicular directions. | | | No electrical discontinuity of more than 10 µs. (2)No damage, cracks or looseness of parts. | | | X | _ | |
| Shock Acc Hall Per | | Accelerat Half sine Performed direction | Acceleration : 490 m/s ² Half sine wave pulses of 11 ms. Performed 3 times in each of 6 mutually perpendicular directions. | | | | | | Х | - | |
| | | | | D/T °C | | ① Ins | uration radio | atanaa : 1000 MO MIN | | | |
| | | | Tenperature : $-55 \rightarrow R/T^{(2)} \rightarrow +105 \rightarrow R/T$ °C Time : $30 \rightarrow 2$ TO $3 \rightarrow 30 \rightarrow 2$ TO 3 min for 5 cycles. | | | Insuration resistance : 1000 MΩ MIN. No damage, cracks or looseness of parts. | | | X | - | |
| Damp Heat (Steady State) | | | Subjected to +40 °C, at a humidity of 90% TO 95% for | | | Insuration resistance : 10 MΩ MIN. (At high humidity) Insuration resistance : 100 MΩ MIN. (When dry) No damage, cracks or looseness of parts. | | | х | - | |
| Corrosion Sa | lt Mist | Subjected | Subjected to 5% salt spray for 48 h. | | | | No heavy corrosion which impairs functionality. | | | | |
| Dry Heat | | Sub iected | Subjected to +105°C for 96 h. | | | No damage, cracks or looseness of parts. | | | | _ | |
| | | | • | | | | | | | _ | |
| Cold Sub. | | | ubjected to -55°C for 96 h. | | | No damage, cracks or looseness of parts. | | | Х | - | |
| COUN | IT | DESCRIPTI | ON OF REVISIONS | | DESIG | ENED | | CHECKED | DA | \TE | |
| 1 5 | | | -C-00001410 | TH. KA | | MEYA | | HY. KOBAYASHI | 17. 0 | 17. 01. 30 | |
| Notes 1 | 1 | | range includes the temperature rise by | | | | APPROVE | EJ. KUNII | | | |
| curren | ting tempe t Carrying oom temper | ;. | | | | | CHECKED | EJ. KUNI I | 15. 1 | 15. 10. 07 | |
| • | | | o be used under stationary conditions. that vibration is applied. | | | DESIGNE | | TP. KOMATSU | 15. 10. 07 | | |
| Unless oth | nerwise s | pecified, re | efer to IEC 60512. | | | DRAWN | | SY. KONDO | 15. 10. 07 | | |
| Note QT:Qualification Test AT:As | | | surance Test X:Applicable Test D | | | RAWING NO. ELC-1 | | ELC-118251- | 8251-20-00 | | |
| | | SPECIFICATION SHEET | | | PART NO. | | EF1-38R-1SCB (20) | | | Ι | |
| KS | | IROSE E | LECTRIC CO., LTD. | | CODE NO. | | CL142-0009-5-20 | | Δ | 1/2 | |

[Reference]





- 4) The derating curve is derived from the basic curve multiplied by the derating factor of 0.8.
- 5) The value of rated current varies with the ambient temperature. It is recommended to use the product within the derating curve zone. When using a UL or TÜV approved product, please use the product within the specified range as well as the derating curve area.
- 6) The measurement method of the derating curve is shown below.
 - Test specimen: This product, unused prior to testing.
 - Test cable conductor cross sectional area: AWG #2 (38mm²)
 - Test condition: Power supplied while the specimen is in a stationary state and then measured.

| Note QT:Q | ualification Test AT:Assurance Test X:Applicable Test | DRAWIN | IG NO. | ELC-118251-20-00 | | |
|-----------|---|----------|-------------------|------------------|---|-----|
| HRS | SPECIFICATION SHEET | PART NO. | EF1-38R-1SCB (20) | | | |
| 11.0 | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL142 | 2-0009-5-20 | Δ | 2/2 |