| APPLICAB | LE STANDA | RD | TÜV approved(R5020490 | 09), UL ap | proved(| (E52653 | 3) | | | | |
|---|-------------------------------------|---|--|---------------------------|---------------------|--|------------------------|------------------------|-------------|----------|----------|
| | Operating Temperature Range Voltage | | -40°C to +125° | | Storage Temperature | | е | -10°C to +60°C | | | |
| Rating | | | AC, DC 500 V(UL,TÜV) AC, DC 1000V | | | _ | | | _ | | |
| | Current | | , | | | plicable Cable | | | _ | | |
| | | | | | | | | | | | |
| | | | (EM-PC-143(**) UL,T | | | | | | | | |
| | | | 70A(EM-PC-143(**)) | | | | | | | | |
| | | | SPEC | CIFICAT | TIONS | S | | | | | |
| IT | EM | | TEST METHOD | | | | F | REQU | JIREMENTS | QT | А٦ |
| CONSTRU | CTION | • | | | | | | | | • | |
| General Exami | ination | Examined visually and with a measuring instrument. According to the drawing. | | | | | | | | | Х |
| Marking | | Confirmed visually. | | | | | | | | Χ | X |
| | AL CHARAC | 1 | | | | 1 m 0 M | A V | | | | |
| Contact Resist | | Measured at DC 1A. Measured at 500 V DC. | | | | 1 mΩ MAX. | | | | | _ |
| Insulation Resistance Voltage Proof | | 4260 V AC applied for 1 min. | | | | 5000 MΩ MIN. No flashover or breakdown. | | | | X | X |
| MECHANIC | CAL CHARA | CTERIST | ICS | | | | | | | | |
| Contact Insertic | | Measured with a ϕ steel gauge. | | | | Insertion and extraction forces: - N MIN. | | | | _ | _ |
| Mating and | | Measured with an applicable connector | | | | Mating and unmating forces: 100 N MAX. | | | | X | |
| Unmating Force | | Outries days 50N feet () if your | | | | | | | | ^ | _ |
| Contact Retent | | Subjected to a 50N force from the wiring side. | | | | No movement of contact. | | | | X | _ |
| Mechanical Op | eration | Mated and unmated 100 times. | | | | No damage, cracks or looseness of parts. | | | | ^ | |
| Vibration | | Frequency: 10 Hz to 55 to 10 Hz every cycle. 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. No damage, cracks or looseness of parts. | | | | Х | - |
| Shock | | Acceleration: 490 m/s², Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular directions. | | | | 1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts. | | | | х | _ |
| ENVIRON | /IENTAL CH | | RISTICS | | | | | | | <u> </u> | <u> </u> |
| Rapid Change | of Temperature | Temperature: -55 \rightarrow R/T ⁽¹⁾ \rightarrow +125 \rightarrow R/T °C Time: 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min for 5 cycles. | | | | 1) Insulation resistance: 500 MΩ MIN. 2) No damage, cracks or looseness of parts. X | | | | _ | |
| Damp Heat, Steady State | | Subjected to a temperature of+40°C, at a humidity of 90 to 95% for 96 hours. | | | | 1) Insulation resistance: 50 MΩ MIN. (At high humidity) 2) Insulation resistance: 500 MΩ MIN. (When dry) 3) No damage, cracks or looseness of parts. | | | | Х | _ |
| | | | | | | | | | | | |
| | | | ON OF REVISIONS | DESIGN | | | NED | | CHECKED | DATE | |
| <u>10</u> NOTES | | | | | | | A DDD | WED | TD KOMATOU | 0000 | 100 |
| | Room Tempera | | s show the values in assembled condition with applicable | | | | APPRO | , ∧ ⊏ D | TP. KOMATSU | 2020 | 122 |
| crim | p contacts.(EM-l | | | | | DESIGNED | | KED | TP. KOMATSU | | |
| | compliant. ling temperature | rise due to | | | | | | NED | TY. SUZUKI | | |
| Jnless oth | nerwise spe | cified re | fer to IEC 60512(.IIS C | to IEC 60512(JIS C 5402). | | | DRAWN | | TY. SUZUKI | 20201222 | |
| Unless otherwise specified, refer to IEC 60512(JIS C 540) Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | | DRAWING | | IG NO. | G NO. ELC-117594-81-00 | | |) |
| | SPECIFICATION SHEET | | | | PART NO. | | EM35MRA-4PC (81) | | | | |
| HS | HIROSE ELECTRIC CO., LTD. | | | | CODE NO. | | | | | <u>^</u> | 1/1 |
| | 1111 | COL LLLOTRIO CO., LTD. | | | CODE NO. | | ULU130-UUZ0-U-01 ZU\ 1 | | | | 1/ |