SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

DRAWING NO. ELC4-016947
CODE NO. (OLD) CL
CODE NO. CL562-0493-7
PART NO. HIF3-2022SCf
FORM No.231-1(PC)

APPLICABLE STANDARD

MIL-STD-1344.

RATING

VOLTAGE	AC 250 V	
CURRENT	3 A	

OPERATING TEMPERATURE RANGE ℃ TO ℃
STORAGE TEMPERATURE RANGE ℃ TO ℃
OPERATING HUMIDITY RANGE %TO %

APPLICABLE CABLE: AWG 20~22, JACKET DIAMETER 1.5 TO 1.9 mm

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS
CONSTRUCTION		
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.
MARKING	CONFIRMED VISUALLY.	
ELECTRICAL CHARACTERISTICS		
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz). MEASURED BY MILLIVOLT LEVEL METHOD. 20 mV MAX.	15 mΩ MAX.
INSULATION RESISTANCE	V DC	MΩ MIN.
VOLTAGE PROOF	V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN.
MECHANICAL CHARACTERISTICS		
CONTACT INSERTION AND EXTRACTION FORCES	□ 0.635±0.002 BY STEEL GAUGE.	INSERTION FORCE 4.4 N MAX. EXTRACTION FORCE 0.36 N MIN.
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS	CONTACT RESISTANCE: 15 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.
VIBRATION	FREQUENCY TO Hz, SINGLE AMPLITUDE mm, m/s² AT FOR DIRECTIONS.	NO ELECTRICAL DISCONTINUITY OF μs. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.
SHOCK	m/s² DURATION OF PULSE ms AT TIMES FOR DIRECTION.	CONTACT RESISTANCE: mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.
ENVIRONMENTAL CHARACTERISTICS		
DAMP HEAT (STEADY STATE)	EXPOSED AT ℃ h.	CONTACT RESISTANCE: mΩ MAX. INSULATION RESISTANCE: MΩ MIN.
RAPID CHANGE OF TEMPERATURE	EXPOSED IN TEMPERATURE TIME UNDER CYCLES. ℃ min	CONTACT RESISTANCE: mΩ MIN. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.
DAMP HEAT. CYCLIC	EXPOSED AT ℃. TO ℃. % TOTAL CYCLES (h).	CONTACT RESISTANCE: mΩ MAX. INSULATION RESISTANCE: MIN. (AT HIGH HUMIDITY) INSULATION RESISTANCE: MIN. (AT DRY) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.
DRY HEAT	EXPOSED AT ℃, h.	CONTACT RESISTANCE: mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS.
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	CONTACT RESISTANCE: 15 mΩ MAX. NO HEAVY CORROSION.
HYDROGEN SULPHIDE	EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38)	
SULPHUR DIOXIDE	EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-39)	
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE. ℃ DURATION. s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF TERMINAL.
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE. ℃ FOR IMMERSION DURATION. s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.

REMARKS

CLIMP STRENGTH: 88.2N Min. (AWG 20)

Unless otherwise specified, refer to MIL-STD-1344.

Note QT: Qualification Test
AT: Assurance Test
○: Applicable Test

DRAWN / DESIGNED / CHECKED / APPROVED / RELEASED
95.2.20 / 95.2.20 / 95.2.22 / 95.2.22