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

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

APPLICATION STANDARD

RATING	OPERATING TEMPERATURE RANGE	-55 ℃ TO +85 ℃	STORAGE TEMPERATURE RANGE	
	VOLTAGE	200 V AC	OPERATING HUMIDITY RANGE	
	CURRENT	3 A	STORAGE HUMIDITY RANGE	

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)	30mΩ MAX.	○	–
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, mA (DC OR 1000 Hz)	mΩ MAX.	–	–
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	○	–
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN	○	–
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE: 7.8N MAX. EXTRACTION FORCE: 0.4N MIN.	○	–
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: N MAX. WITHDRAWAL FORCE N MIN.	–	–
MECHANICAL OPERATION	100 TIMES INSERTION AND EXTRACTIONS.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	○	–
VIBRATION	FREQUENCY: 10 TO 55 Hz, AMPLITUDE: 1.5 mm, m/s² AT 2 h FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) CONTACT RESISTANCE: -- mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS	○	–
SHOCK	490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	OF PART.	○	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 ℃, 90~95 %, 96 h.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2)INSULATION RESISTANCE: 1000 MΩ MIN.	○	–
RAPID CHAGE OF TEMPERTURE	TEMPERTURE -55→+5~+35→+125→+5~+35℃ TIME 30 → MAX5 → 30 → MAX 5 min. UNDER 5 CYCLES.	3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	○	–
DAMP HEAT,CYCLIC	EXPOSED AT TO ℃, 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 ℃, 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: 30 mΩ MAX. 2) 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, ℃ FOR IMMERSION,DURATION, s.(MIL-STD-202)	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	–	–
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE, ℃ FOR IMMERSION DURATION, s.(MIL-STD-202)	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 MIL-STD-202. , REFER TO MIL-C-21097.	J.Takada '97.04.15	J.Takada '97.04.15	H.Okawa '97.04.15	M.Yamaguchi 97.04.15	

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST ○: APPLICABLE TEST

TO

HRS HIROSE ELECTRIC CO.,LTD. SPECIFICATION SHEET

PART NO. HIF3GA-2.54SP

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-17306	CL 562-0403-4	1

FORM NO. 231-1