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

APPLICABLE STANDARD		UL:UL1977				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾	
	VOLTAGE	300 V AC		OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX (NOT DEWED)	
	CURRENT	3 A		STORAGE HUMIDITY RANGE		
UL RATING	VOLTAGE	250 V AC				
	CURRENT	1 A				
SPECIFICATIONS						
ITEM	TEST METHOD			REQUIREMENTS	QT	AT
CONSTRUCTION						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.	x	x
MARKING	CONFIRMED VISUALLY.				x	x
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).			15 mΩ MAX.	x	-
INSULATION RESISTANCE	500 V DC			1000 MΩ MIN.	x	-
VOLTAGE PROOF	1000 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.	x	-
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND EXTRACTION FORCES	□0.635±0.002mm BY STEEL GAUGE.			INSERTION FORCE: 4.4 N MAX. EXTRACTION FORCE: 0.56 N MIN.	x	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.			①CONTACT RESISTANCE: 15 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTIONS.			①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				x	-
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.			①CONTACT RESISTANCE: 15 mΩ MAX. ②INSULATION RESISTANCE:1000 MΩ MIN.	x	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+15~+35→+125→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min. UNDER 5 CYCLES.			③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			①CONTACT RESISTANCE: 15 mΩ MAX. ②NO HEAVY CORROSION.	x	-
SULPHUR DIOXIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA - 38)				x	-
RESISTANCE TO SOLDERING HEAT	1) SOLDER BATH:SOLDER TEMPERATURE, 260±5°C FOR IMMERSION,DURATION,10±1s. 2) SOLDERING IRONS : 360°C FOR 5 s MAX.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±3°C, FOR IMMERSION DURATION, 2 s.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△	2	DIS-F-00005942	AK. IWAHORI	HT. YAMAGUCHI	20200313	
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.				APPROVED	HT. YAMAGUCHI	20181210
				CHECKED	HT. YAMAGUCHI	20181210
				DESIGNED	HR. NAGAYASU	20181207
Unless otherwise specified, refer to MIL-STD-202.				DRAWN	TS. HORI	20181207
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-386224-00-00		
HRS	SPECIFICATION SHEET		PART NO.	HIF3HA-*DA-2. 54DSA (61)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.		△	1/1