APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +70 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 130 V , DC 180 V	————	————
	CURRENT	5 A	APPLICABLE CABLE	————

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	CONTACT SHALL BE MEASURED AT DC 1 A	5 mΩ MAX.	X	X
	CONTACT SHALL BE MEASURED AT DC 0.1 A	5 mΩ MAX.	X	X
INSULATION RESISTANCE	500 V DC.	1000 MΩ MIN.	X	X
VOLTAGE PROOF	AC 1400 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND WITHDRAWAL FORCES	———— BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : — N MIN.	–	–
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 60 N MAX. LOCKING DEVICE WITH LOCK : — N MAX.	X	–
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 10 mΩ MAX.	X	–
		CONTACT RESISTANCE: — mΩ MAX.	–	–
VIBRATION	FREQUENCY: 10 TO 55 Hz,SINGLE AMPLITUDE 0.75 mm, — m/s2 AT 2h, FOR 3 DIRECTIONS.	①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	–
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 10 MΩ MIN. (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100MΩ MIN. (AT DRY). ③ NO DAMAGE.CRACK AND LOOSENESS OF PARTS.	X	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T(1) → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 100 MΩ MIN.. ② NO DAMAGE.CRACK AND LOOSENESS OF PARTS.	X	–
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSIN RUIN THE FUNCTION.	X	–
DRY HEAT	EXPOSED AT + 85 °C , 96 h.	NO DAMAGE,CRACK AND LOOSENESS OF PARTS.	X	–
COLD	EXPOSED AT - 55 °C , 96 h.	NO DAMAGE,CRACK AND LOOSENESS OF PARTS.	X	–
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, +380±10°C ,FOR IMMERSION DURATION, 3^{+1}_{0} s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	–
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

NOTE(1) R/T : ROOM TEMPERATURE.

Unless otherwise specified, refer to JIS C 5402.

APPROVED	MO.SATOH	06.08.23
CHECKED	EJ.KUNII	06.08.21
DESIGNED	HS.NAGANO	06.08.21
DRAWN	MK.SATO	06.08.11

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

DRAWING NO. ELC4-021424-77

HRS	SPECIFICATION SHEET	PART NO.	HA16RA-4P(77)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL104-0408-4-77	1/1

FORM HD0011-2-1