APPLICABLE STANDARD				
Rating	Operating Temperature Range	-40°C to +105°C (Note 1)	Storage Temperature Range	-55°C to +85°C (Note 2)
	Voltage	—	—	—
	Current	—	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
MECHANICAL CHARACTERISTICS				
Mechanical Operation	500 times insertions and extractions.	No damage, crack and looseness of parts.	X	-
Vibration	Frequency : 10 to 55 hz, singe amplitude 0.75 mm, at 2 h, for 3 axial directions. (refer to an attached figure)	1) No electrical discontinuity of 10 μs. 2) No damage, crack and looseness of parts.	X	-
Vibration (Railway Random Vibration Test)	JIS E 4031 category 1 class B frequency:5～150H condition m/s^2 asd level $(m/s^2)^2/Hz$ 7.90 1.857 3 axial directions, 5 h each.	1) No electrical discontinuity of 10 μs. 2) No damage, crack and looseness of parts.	X	-
Shock	490 m/s^2 duration of pulse 11 ms at 3 times in 3 both axial directions. Half-sine wave.	1) No electrical discontinuity of 10 μs. 2) No damage, crack and looseness of parts.	X	-
Shock (Railway)	JIS E 4031 category 1 class B Peak acceleration m/s^2 nominal time ms 50 30 3 both axial directions, 3 times each.	1) No electrical discontinuity of 10 μs. 2) No damage, crack and looseness of parts.	X	-
ENVIRONMENTAL CHARACTERISTICS				
Rapid Change Of Temperature	Temperature -40 → 15 to 35 → 105 → 15 to 35 °C time 30 → 2 to 3 → 30 → 2 to 3 min. under 5 cycles.	No damage, crack and looseness of parts.	X	-
Heat Resistance	Exposed at 105 ± 2 °C, 96 h. combining the applicable connectors.	1) Insulation resistance : 1000 MΩ min. 2) No damage, crack and looseness of parts.	X	-
Cold Resistance	Exposed at -55 ± 3 °C, 96 h. combining the applicable connectors.	1) Insulation resistance : 1000 MΩ min. 2) No damage, crack and looseness of parts.	X	-
Humidity	Exposed at 60 ± 2 °C, 95 ± 3 %, 96 h. combining the applicable connectors.	1) Insulation resistance : 1000 MΩ min.(at dry) 2) No damage, crack and looseness of parts.	X	-
Mixed Flowing Gus	Exposed in H_2S 0.1 ± 0.02 ppm, SO_2 0.5 ± 0.1 ppm, 25 ± 2 °C, 75± 3 %, 96 h. Combining the applicable connectors.	No heavy corrosin ruin the function.	X	-
Corrosion Salt Mist	Exposed in 5 % salt water spray for 48 h. Combining the applicable connectors.	No heavy corrosin ruin the function.	X	-

Note 1 ① The product performance is guaranteed only in the temperature adequate people's activities.
② Include temperature rise caused by current-carrying.
③ Specifications for assembled item with applicable housing.

Note 2 Packing materials are not included.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK
Above spesification shows the values in assembled condition with applicable crimp contacts.
Unless otherwise specified, refer to IEC 60512.

APPROVED	NM.NISHIMATSU	16.03.08
CHECKED	NM.NISHIMATSU	16.03.08
DESIGNED	MO.SHIMOYAMA	16.03.07
DRAWN	MO.SHIMOYAMA	16.03.07

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

DRAWING NO. ELC-128054-02-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. TJ50A-41S-U-CV(02)

CODE NO. CL236-3101-0-02 A 1/1

FORM HD0011-2-1