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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				
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1) △2	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C △2
	VOLTAGE	50 V DC	CURRENT	1 A

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	1A DC.	50 mΩ MAX.	—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	50 mΩ MAX.	—	—
INSULATION RESISTANCE	500 V DC	100 MΩ MIN.	×	—
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— ×	— —
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1 m/s^2 AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 100 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— — ×	— — —
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/s^2 AT 1 h .	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 100 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— — ×	— — —
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 100N MAX.	① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	× ×	— —
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ～ 95 %, 500 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— × ×	— — —
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-40→5 TO 35→105→5 TO 35°C △2 TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— × ×	— — —
DRY HEAT	EXPOSED AT 105°C, 300 h. △2	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— ×	— —
COLD	EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— ×	— —
RESISTANCE TO SO_2 GAS	EXPOSED IN 25 PPM FOR 96h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO HARMFUL CORROSION.	— —	— —

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△2	4	DIS-T-00003792	NK. IKUTA	MO. OKADA	20180927

REMARK
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.
(NOTE2) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 150mΩ MAX.

APPROVED	KI. HIROKAWA	20180307
CHECKED	KI. HIROKAWA	20180307
DESIGNED	KT. OKABE	20180307
DRAWN	GYEONGMIN LEE	20180307

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

DRAWING NO. ELC-372981-00-00

HRS	SPECIFICATION SHEET	PART NO.	GT43-1S-HU(A)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL753-1002-0-00 △2	1/1

FORM HD0011-2-1