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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	-30 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C
	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.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	1A DC.	30 mΩ MAX.	×	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(OR 1kHz)	30 mΩ MAX.	×	—
INSULATION RESISTANCE	DC 500 V	100 MΩ MIN.	×	—
VOLTAGE PROOF	AC 650 V FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	0.64 × 1.1 BY STEEL GAUGE.	INSERTION FORCE 3.4 N MAX. EXTRACTION FORCE 0.4 N MIN.	×	—
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX.. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1m/s^2, AT 3h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6m/ s^2 AT 1 h.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.	① DURING APPLYING,MATING OMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	—	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60℃, 90 TO 95%, 500h.	① CONTACT RESISTANCE: 60 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→85→5 TO 35℃ TIME: 30→5→30→5 MIN UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
DRY HEAT	EXPOSED AT 105℃, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
COLD	EXPOSED AT −55℃, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
CORROSION, SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	×	—
RESISTANCE TO HSO_3 GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⓪					

REMARK
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.

APPROVED	KS. SATOH	08. 08. 26
CHECKED	MO. OKADA	08. 08. 26
DESIGNED	MH. YAMAGUCHI	08. 08. 26
DRAWN	MH. YAMAGUCHI	08. 08. 26

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

DRAWING NO. ELC4-166792-00

HRS	SPECIFICATION SHEET	PART NO.	GT5-2428/1.1-2.2SCF
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL755-0123-6-00 ⓪ 1/1

FORM HD0011-2-1