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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)	STORAGE TEMPERATURE RANGE	-40 °C TO +105 °C
	VOLTAGE	250 V AC	CURRENT	3 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	500 V DC	100 MΩ MIN.	×	—
VOLTAGE PROOF	1000 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
CONTACT MATING FORCE	100mm/min WITH CONTACT ITSELF	INSERTION FORCE : 4.9N MAX.	—	—
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 400 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 COMPLETELY. 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→120→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 −40℃, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	— ×	— —
RESISTANCE TO SO_2 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	AR. SHIRAI	17. 04. 20
CHECKED	HS. OZAWA	17. 04. 20
DESIGNED	TK. SHISHIKURA	17. 04. 20
DRAWN	TK. SHISHIKURA	17. 04. 20

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

DRAWING NO. ELC-168735-50-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. GT25-12DS-HU(50)

CODE NO. CL775-0037-0-50 △0 1/1

FORM HD0011-2-1