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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

<b>APPLICABLE STANDARD</b>					
<b>RATING</b>	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C	
	VOLTAGE	250 V AC	CURRENT	1 A	
<b>SPECIFICATIONS</b>					
<b>ITEM</b>		<b>TEST METHOD</b>		<b>REQUIREMENTS</b>	
				<b>QT</b>	<b>AT</b>
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
MARKING		CONFIRMED VISUALLY.		X	X
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE		1A DC.	SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX.		X -
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX.		X -
INSULATION RESISTANCE		500 V DC	100 MΩ MIN.		X -
VOLTAGE PROOF		650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X -
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE, -.	INSERTION FORCE - N MAX. EXTRACTION FORCE - N MIN.		- -
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X -
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X - X -
SHOCK		FREQUENCY 20 TO 50 Hz, 66.6 m/s <sup>2</sup> AT 1 h .	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X - X -
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.		X - X -
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X - X -
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40→5 TO 35→85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X - X -
DRY HEAT		EXPOSED AT 105°C, 300 h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X -
COLD		EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X - X -
RESISTANCE TO SO <sub>2</sub> GAS		EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO HEAVY CORROSION.		X - X -
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	NH. NAKATA	14. 12. 24
			CHECKED	NH. NAKATA	14. 12. 24
			DESIGNED	TS. KUBOTA	14. 12. 23
			DRAWN	TS. KUBOTA	14. 12. 23
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-168691-00	
	SPECIFICATION SHEET		PART NO.	GT17HNF-4DS-2C (A)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL767-0259-8-00	
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