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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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				. .					. .

### APPLICABLE STANDARD

RATING	OPERATING TEMPERATURES 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
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### CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	<input type="radio"/>	<input type="radio"/>
MARKING	CONFIRMED VISUALLY.		<input type="radio"/>	<input type="radio"/>

### ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	1 A DC.	30 mΩ MAX.	<input type="radio"/>	<input type="checkbox"/>
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000 Hz)	30 mΩ MAX.	<input type="radio"/>	<input type="checkbox"/>
INSULATION RESISTANCE	500 V DC	100 MΩ MIN.	<input type="radio"/>	<input type="checkbox"/>
VOLTAGE PROOF	650 V AC FOR 1 MIN	NO FLASHOVER OR BREAKDOWN.	<input type="radio"/>	<input type="checkbox"/>

### MECHANICAL CHARACTERISTICS

CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE, □4.6	INSERTION FORCE 14.7 N MAX. EXTRACTION FORCE 4.9 N MIN.	<input type="radio"/>	<input type="checkbox"/>
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE:60 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="checkbox"/>
VIBRATION	FREQUENCY 20 TO 200 Hz, AMPLITUDE - mm, 43.1 m/S <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="checkbox"/>
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:60 mΩ MAX. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="checkbox"/>
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.	<input type="radio"/>	<input type="checkbox"/>

### ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 TO 95 %, 500 h.	① CONTACT RESISTANCE:60 mΩ MAX. ② INSULATION RESISTANCE:100MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="checkbox"/>
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:60 mΩ MAX. ② INSULATION RESISTANCE:100MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PART.	<input type="radio"/>	<input type="checkbox"/>
DRY HEAT	EXPOSED AT 105 °C, 300 h.	① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.	<input type="radio"/>	<input type="checkbox"/>
COLD	EXPOSED AT -55 °C, 120 h.	① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.	<input type="radio"/>	<input type="checkbox"/>
CORROSION, SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.	<input type="radio"/>	<input type="checkbox"/>
RESISTANCE TO HSO <sup>3</sup> GAS	EXPOSED IN 500 PPM FOR 8 h.	① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.	<input type="radio"/>	<input type="checkbox"/>
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s.	NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	<input type="checkbox"/>	<input type="checkbox"/>
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3 S	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	<input type="checkbox"/>	<input type="checkbox"/>

### REMARKS

NOTE: INCLUDE THE TEMPERATURE RISING BY CURRENT.	DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED
	T. IKEDA '02.03.22	T. IKEDA '02.03.22	<i>m. Akada</i> 02.3.22	<i>K. Aoto</i> 02.3.23	

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

TO

<b>HRS</b> HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. GT5N-1PP-HU
CODE NO. (OLD)	DRAWING NO. ELC4-165658	CODE NO. CL755-0090-9
		1/1

