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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
			
			

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 ² 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 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.	<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 ³ 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



HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

PART NO.
GT5N-1PP-HU

CODE NO. (OLD)

DRAWING NO.

CODE NO.

ELC4-165658

CL755-0090-9

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