

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD		Note 1: -30 °C TO 105 °C		STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C
RATING	OPERATING TEMPERATURE RANGE	1 A		Voltage	250 V AC
	CURRENT				

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	1 A DC.	30 mΩ MAX.	○	-
CONTACT RESISTANCE	20 mV AC MAX, 0.1 mA(DC OR 1000 Hz).	30 mΩ MAX.	○	-
MILLIVOLT LEVEL METHOD				
INSULATION RESISTANCE	500 V DC.	100 MΩ MIN.	○	-
VOLTAGE PROOF	650 V AC, 1 min.	NO FLASHOVER OR BREAKDOWN.	○	-
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE, 4.6.	INSERTION FORCE 14.7 N MAX. EXTRACTION FORCE 4.9 N MIN.	○	-
MECHANICAL OPERATION	30 TIMES INSERTION AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	-
VIBRATION	FREQUENCY 20 TO 200 Hz, ACCELERATION 43.1 m/s ² FOR 3 h AT 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs OR MORE, ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	-
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/s ² FOR 1 h.	① FULL INSERTED DURING APPLYING FORCE. ② NO DEFECT AT CONNECTION PORTION AFTER APPLYING FORCE.	○	-
LOCK STRENGTH	PULL FORCE OF 98 N MAX WAS APPLIED AXIALLY.	① FULL INSERTED DURING APPLYING FORCE. ② NO DEFECT AT CONNECTION PORTION AFTER APPLYING FORCE.	○	-
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 TO 95 %, 500 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO BREAKAGE, CRACK OR LOOSENESS OF PART.	○	-
RAPID CHANGE OF TEMPERATURE	TEMP -40°C → AMBIENT TEMP → 85 °C → TIME 30 → 5 → 30 min TEMP AMBIENT TIME 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO BREAKAGE, CRACK OR LOOSENESS OF PART.	○	-
DRY HEAT	EXPOSED AT 105 °C, 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	-
COLD	EXPOSED AT -55 °C, 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	-
SALT MIST	IMMERSED IN 5 % SALT WATER, 96 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO EXCESSIVE CORROSION.	○	-
HYDROGEN SULPHIDE	EXPOSED IN 500 ppm, 8 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO EXCESSIVE CORROSION.	○	-
SOLDERING HEAT	SOLDER TEMPERATURE 260 °C FOR 10 sec.	① NO VISUAL DEFORMATION OR LOOSENESS OF CONTACT.	-	-

REMARKS
 Notes 1: Included temperature rise by current carrying.
 2: Applicable board: 1.6 ±0.2.

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

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. GT5-1PB-HU
CODE NO.(OLD) CL559-0112-9	DRAWING NO. SLC4-165635	PART NO. CL755-0089-0

FOR REFERENCE ONLY
Subject to change without notice

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