


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	3A		
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X
MARKING		CONFIRMED VISUALLY.				X	X
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		1A DC.		30 mΩ MAX.		X	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		30 mΩ MAX.		X	—
INSULATION RESISTANCE		— V DC		— MΩ MIN.		—	—
VOLTAGE PROOF		— V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		—	—
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCE		MEASURING BY OPPOSITE CONTACT		INSERTION FORCE: 4.9 N MAX EXTRACTION FORCE: 4.9 N MAX		X	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
VIBRATION		FREQUENCY 20 TO 400 Hz, 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.		X	—
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.		X	—
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT —N MAX.		① DURING APPLYING, MATING COMPLETELY. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		—	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: — MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
THERMAL SHOCK		TEMPERATURE -40→5 TO 35→120→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 60 mΩ MAX. (NOTE2) ② INSULATION RESISTANCE: — MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
DRY HEAT		EXPOSED AT 120°C, 300 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
COLD		EXPOSED AT -40°C, 120 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
RESISTANCE TO SO ₂ GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X	—
RESISTANCE TO SOLDERING HEAT		SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		—	—
SOLDERABILITY		SOLDERED AT SPECIFIED TEMPERATURE PROFILE.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.		—	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△		DIS-T-004195		HH. TSUKUMO		HS. OZAWA	14. 12. 12
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	HS. OZAWA	14. 12. 12	
				CHECKED	HS. OZAWA	14. 12. 12	
				DESIGNED	HH. TSUKUMO	14. 12. 12	
				DRAWN	TT. YOSHIDA	14. 12. 12	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-169605-00	
		SPECIFICATION SHEET		PART NO.		GT25HB-2428SCF	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL775-0070-6-00	
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