





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	1 A	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
STRUCTURE					
EXAMINATION OF APPEARANCE, STRUCTURE AND FINISHING		MEASUREMENT VIA VISUAL CHECK AND MEASURING INSTRUMENT	BE CONSISTENT WITH DRAWING.	X	X
MARKING		VISUAL CONFIRMATION		X	X
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE		MEASURE AT 1A DC.	30 mΩ MAX	—	—
CONTACT RESISTANCE UNDER LOW VOLTAGE AND LOW CURRENT CONDITION		MEASURE AT 20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX	—	—
INSULATION RESISTANCE		MEASURE AT 500 V DC	1000 MΩ MIN.	X	—
VOLTAGE RESISTANCE		APPLY 650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS					
REPEATED MECHANICAL OPERATION		30 TIMES FOR EACH INSERTION AND WITHDRAWAL.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— X	— —
VIBRATION RESISTANCE		FREQUENCY AT 20 TO 200 Hz, ACCELERATION AT 43.1 m/s ² ON EACH X,Y,Z DIRECTION FOR 3h.	① ELECTRICAL INSTANTANEOUS INTERRUPTION IS BELOW 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— — X	— — —
IMPACT RESISTANCE		FREQUENCY AT 20 TO 50 Hz, ACCELERATION AT 66.6 m/s ² FOR 1h.	① ELECTRICAL INSTANTANEOUS INTERRUPTION IS BELOW 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— — X	— — —
LOCK STRENGTH		APPLY A PULL FORCE WITH 98N MAX ON THE DIRECTION OF MATING AXIS.	① MATING COMPLETELY DURING THE TEST. ② AFTER APPLYING,NO DEFECT ON MATING PARTS.	X X	— —
ENVIRONMENTAL CHARACTERISTICS					
HUMIDITY RESISTANCE (STEADY STATE)		EXPOSE AT 60 °C, RH:90 ~ 95 % FOR 500h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— — X	— — —
THERMAL SHOCK		TEMPERATURE: -40°C (30min) → ROOM TEMP (5min)→85°C (30min)→ ROOM TEMP (5min) FOR 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— — X	— — —
HEAT RESISTANCE		EXPOSE AT 80°C FOR 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— X	— —
COLD RESISTANCE		EXPOSE AT -55°C FOR 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	— X	— —
RESISTANCE TO SO ₂ GAS 		EXPOSE TO THE GAS WITH CONCENTRATION OF 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. (WITHOUT AFFECTING THE ELECTRICAL CHARACTERISTICS.)	— X	— —
RESISTANCE TO SOLDERING HEAT		IMMERSE IN SOLDERING AT 260 °C FOR 10sec.	NO DEFORMATION OF APPEARANCE, WITHOUT EXCESSIVE LOOSENESS OF TERMINALS.	—	—
SODERABILITY		SOLDERING AT 230°C FOR 3sec.	NEW SOLDERING SURFACE SHALL COVER AT LEAST 95% OF THE SURFACE BEING IMMERSED.	—	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-T-00002748	TK. SHISHIKURA	HS. OZAWA	17. 12. 01
REMARK (NOTE1) INCLUDING TEMPERATURE RISING DUE TO CURRENT FLOW.			APPROVED	AR. SHIRAI	10. 09. 14
			CHECKED	AR. SHIRAI	10. 09. 14
			DESIGNED	NA. HARUBAYASHI	10. 09. 14
			DRAWN	Chinaik. Ng	10. 09. 07
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-166397-00-01	
	SPECIFICATION SHEET		PART NO.	GT8E-8S-2C	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL758-0029-7-00	 1/1