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	X	–
CONTACT RESISTANCE UNDER LOW VOLTAGE AND LOW CURRENT CONDITION	MEASURE AT 20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX	X	–
INSULATION RESISTANCE	MEASURE AT 500 V DC	100 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 LOOSENESS OF PARTS.	X X	– –
VIBRATION RESISTANCE	FREQUENCY AT 20 TO 200 Hz, ACCELERATION AT 43.1 m/s^2 ON EACH 3 DIRECTIONS 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 X 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 X X	– – –
LOCK STRENGTH	APPLY A PULL FORCE WITH 98N MAX ON THE DIRECTION OF MATING AXIS.	① MATING COMPLETELY DURING THE TEST. ② NO DEFECT ON MATING PARTS AFTER EVALUATION.	X X	– –
ENVIRONMENTAL CHARACTERISTICS				
HUMIDITY RESISTANCE (STEADY STATE)	EXPOSE AT 60 °C, RH:90 ～ 95 % FOR 96h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X X X	– – –
THERMAL SHOCK	TEMPERATURE: -40°C (30min) → ROOM TEMP (5min)→105°C (30min)→ ROOM TEMP (5min) UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X X X	– – –
HEAT RESISTANCE	EXPOSE AT 105°C FOR 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X X	– –
COLD RESISTANCE	EXPOSE AT -40°C FOR 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK OR DISTORTION OF PARTS.	X X	– –
RESISTANCE TO SO_2 GAS △1	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 X	– –
RESISTANCE TO SOLDERING HEAT	PASS THROUGH THE SPECIFIED TEMPERATURE PROFILE FOR 2 TIMES.	NO DEFORMATION OF APPEARANCE, WITHOUT EXCESSIVE LOOSENESS OF TERMINALS.	X	–
SODERABILITY	SOLDERING AT 245°C FOR 3sec.	NEW SOLDERING SURFACE SHALL COVER AT LEAST 95% OF THE SURFACE BEING IMMERSED.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△1	1	DIS-T-00002748	TK. SHISHIKURA	HS. OZAWA	17. 12. 01

REMARK
(NOTE1) INCLUDING TEMPERATURE RISING DUE TO CURRENT FLOW.

APPROVED	AR. SHIRAI	11. 12. 22
CHECKED	AR. SHIRAI	11. 12. 22
DESIGNED	NA. HARUBAYASHI	11. 12. 22
DRAWN	NA. HARUBAYASHI	11. 12. 22

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

DRAWING NO. ELC-168823-01-01

HRS	SPECIFICATION SHEET	PART NO.	GT8EH-14DP-2V(01)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL758-0225-5-01 △1	1/1

FORM HD0011-2-1