

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	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x	
MARKING	CONFIRMED VISUALLY.		x	x	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	1A DC.	SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX .	x	—	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX .	x	—	
INSULATION RESISTANCE	500 V DC	100 MΩ MIN.	x	—	
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	—	
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1 m/s ² AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 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 : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
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.	x	—	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
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 : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
DRY HEAT	EXPOSED AT 105°C, 1000 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
COLD	EXPOSED AT -40°C, 1000 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
RESISTANCE TO SO ₂ GAS	EXPOSED IN 500 PPM FOR 8 h.	① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO HEAVY CORROSION.	x	—	
RESISTANCE TO SOLDERING HEAT	SPECIFIED TEMPERATURE PROFILE FOR 2 TIMES.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	—	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△0					
REMARK		APPROVED	KI. HIROKAWA	20200409	
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.		CHECKED	EJ. WAKATSUKI	20200408	
(NOTE2) APPLICABLE BOARD : 1.6±0.2		DESIGNED	TS. KUBOTA	20200325	
		DRAWN	YK. MITSUISHI	20200319	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-167952-55-00	
HRS	SPECIFICATION SHEET	PART NO.	GT17HNC-4DP-2H (A) (55)		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL767-0243-8-55	△0	1/1