


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.		×	×
Marking		Confirmed visually.				×	×
ELECTRIC CHARACTERISTICS							
Contact resistance		1A DC.		Signal: 30 mΩ MAX, Shield: 60 mΩ MAX .		×	—
Contact resistance		20 mV AC max, 0.1 mA(DC or 1000Hz)		Signal: 30 mΩ MAX, Shield: 60 mΩ MAX .		×	—
Millivolt level method							
Insulation resistance		500 V DC		100MΩ MIN		×	—
Voltage proof		650 V AC for 1 min.		No flashover or breakdown.		×	—
MECHANICAL CHARACTERISTICS							
Mechanical operation		30 times insertions and extractions.		① Signal:60m Ω MAX, Shield:120m Ω MAX . ② No damage, crack and looseness of parts.		×	—
Vibration		Frequency 20 to 200 Hz, 43.1 m/s <sup>2</sup> at 3 h for 3 directions.		① No electrical discontinuity of 10 μs. ② Signal:60mΩ MAX, Shield:120mΩ MAX . ③ No damage, crack and looseness of parts.		×	—
Shock		Frequency 20 to 50 Hz, 66.6 m/s <sup>2</sup> at 1 h.		① No electrical discontinuity of 10 μs. ② Signal:60mΩ MAX, Shield:120mΩ MAX . ③ No damage, crack and looseness of parts.		×	—
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.		×	—
ENVIRONMENTAL CHARACTERISTICS							
Damp heat (Steady state)		Exposed at 60 °C, 90 ~ 95 %, 500 h.		① Signal:60mΩ MAX, Shield:120mΩ MAX. ② Insulation resistance:100 MΩ MIN. ③ No damage, crack and looseness of parts.		×	—
Thermal shock		Temperature-40→5 to 35→ 85→5 to 35°C Time 30 → 5 → 30 → 5 min Under 1000 cycles.		① Signal:60mΩ MAX, Shield:120mΩ MAX . ② Insulation resistance:100 MΩ MIN. ③ No damage, crack and looseness of parts.		×	—
Dry heat		Exposed at 105°C, 1000 h.		① Signal:60mΩ MAX, Shield:120mΩ MAX. ② No damage, crack and looseness of parts.		×	—
Cold		Exposed at -40°C , 1000 h.		① Signal:60mΩ MAX, Shield:120mΩ MAX . ② No damage, crack and looseness of parts.		×	—
Resistance to SO <sub>2</sub>		Exposed in 500 ppm for 8h.		Signal:60mΩ MAX, Shield:120mΩ MAX.		×	—
Resistance to soldering heat		Soldered at specified temperature profile 2 times.		No deformation of case of excessive looseness of the terminals.		×	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△							
REMARK <small>Note 1)</small> Include the temperature rising by current.				APPROVED	KI. HIROKAWA	20200326	
				CHECKED	EJ. WAKATSUKI	20200325	
				DESIGNED	TS. KUBOTA	20200325	
				DRAWN	YK. MITSUIISHI	20200221	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-169398-56-00	
	SPECIFICATION SHEET			PART NO.	GT17HN2-4DP-2H (C) (56)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL767-0295-1-56	△	1/1