

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 ℃ to 105 ℃ (NOTE1)	STORAGE TEMPERATURE RANGE	-40 ℃ to 105 ℃	
	VOLTAGE	50 V DC	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.	50mΩ max.	x	—
Contact Resistance		20 mV AC max, 0.1 mA (DC or 1000Hz).	50mΩ max.	x	—
Millivolt Level Method					
Insulation Resistance		500 V DC.	100MΩ min.	x	—
Voltage Proof		500 V AC for 1 min.	No flashover or breakdown.	x	—
MECHANICAL CHARACTERISTICS					
Mechanical Operation		30 times insertions and extractions.	① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.	x x	— —
Vibration		Frequency 20 to 200 Hz, 43.1 m/s ² at 3 h for 3 directions.	① No electrical discontinuity of 10μs. ② Contact resistance: 100mΩ max. ③ No damage, crack and looseness of parts.	x x x	— — —
Shock		Frequency 20 to 50 Hz, 66.6 m/s ² at 1 h.	① No electrical discontinuity of 10μs. ② Contact resistance: 100mΩ max. ③ No damage, crack and looseness of parts.	x x x	— — —
Lock Strength		Applying a pull force the mating axially at 100N max.	① During applying, mating completely. ② After applying, no defect of mating parts.	— —	— —
ENVIRONMENTAL CHARACTERISTICS					
Damp Heat (Steady State)		Exposed at 60℃, 90 ~ 95 %, 500 h.	① Contact resistance: 100mΩ max. ② Insulation resistance:100MΩ min. ③ No damage, crack and looseness of parts.	x x x	— — —
Rapid Change Of Temperature		Temperature -40 → 5 to 35 → 85→ 5 to 35℃ Time 30 → 5 → 30 → 5 min under 1000 cycles.	① Contact resistance: 100mΩ max. ② Insulation resistance:100MΩ min. ③ No damage, crack and looseness of parts.	x x x	— — —
Dry Heat		Exposed at 105℃, 300 h.	① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.	x x	— —
Cold		Exposed at -40℃, 120 h.	① Contact resistance: 100mΩ max. ② No damage, crack and looseness of parts.	x x	— —
Resistance To SO ₂ Gas		Exposed in 25 ppm for 96 h.	Contact resistance: 100mΩ max.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					
REMARK			APPROVED	KI. HIROKAWA	20191101
(Note1) Include the temperature rising by current.			CHECKED	MO. OKADA	20191101
(Note2) Contact resistance of outer conductor after environmental and durability test shall be 150mΩ max.			DESIGNED	NK. IKUTA	20191101
			DRAWN	DS. HIROWATARI	20191101
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-373852-00-00	
HRS	SPECIFICATION SHEET		PART NO.	GT43-2428/1. 6-2. 9PCF	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL753-1004-0-00	△ 1/1