

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	3 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.	30 mΩ MAX.	—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(OR 1kHz)	30 mΩ MAX.	—	—
INSULATION RESISTANCE		500 V DC	100 MΩ MIN.	x	—
VOLTAGE PROOF		1000 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x	—
MECHANICAL CHARACTERISTICS					
CONTACT MATING FORCE		100mm/min WITH CONTACT ITSELF	INSERTION FORCE : 4.9N MAX.	—	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX..	—	—
			② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	—
VIBRATION		FREQUENCY 20 TO 400 Hz, 43.1m/s ² , AT 3h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs.	—	—
			② CONTACT RESISTANCE:60 mΩ MAX	—	—
			③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	—
SHOCK		FREQUENCY 20 TO 50 Hz,66.6m/ s ² AT 1 h.	① NO ELECTRICAL DISCONTINUITY OF 10 μs.	—	—
			② CONTACT RESISTANCE:60 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.	x	—
			② AFTER APPLYING,NO DEFECT OF MATING PARTS.	x	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 60°C, 90 TO 95%, 500h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	— x x	— — —
RAPID CHANGE OF TEMPERATURE		TEMPERATURE:-40→5 TO 35→120→5 TO 35°C TIME: 30→5→30→5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	— x x	— — —
DRY HEAT		EXPOSED AT 105°C, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	— x	— —
COLD		EXPOSED AT -40°C, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	— x	— —
RESISTANCE TO SO ₂ GAS		EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	— x	— —
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	AR. SHIRAI	17. 04. 20
			CHECKED	HS. OZAWA	17. 04. 20
			DESIGNED	TK. SHISHIKURA	17. 04. 20
			DRAWN	TK. SHISHIKURA	17. 04. 20
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-169556-50-00	
HRS	SPECIFICATION SHEET		PART NO.	GT25-12DS-HU/R (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL775-0062-8-50	△ 1/1