

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 1000Hz)	30 mΩ MAX.	—	—
INSULATION RESISTANCE		500 V DC	1000 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 <sup>2</sup> , 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 <sup>2</sup> 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. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	x 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 <sub>2</sub> 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	17.05.31
			CHECKED	AR.SHIRAI	17.05.31
			DESIGNED	HS.OZAWA	17.05.30
			DRAWN	YP.SHEN	17.05.30
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-354619-00-00
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	GT25-20DS-HU	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL775-0075-0-00	△ 1/1