

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO +105 °C (NOTE1)		STORAGE TEMPERATURE RANGE	-40 °C TO +105 °C
	VOLTAGE	125 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.		30 mΩ MAX.	x —
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(OR 1kHz)		30 mΩ MAX.	x —
INSULATION RESISTANCE		DC 500 V		100 MΩ MIN.	x —
VOLTAGE PROOF		AC 375 V FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x —
MECHANICAL CHARACTERISTICS					
CENTER CONTACT INSERTION AND EXTRACTION FORCES		0.5 × 1.2 BY STEEL GAUGE.		INSERTION FORCE 2.2 N MAX. EXTRACTION FORCE 0.6 N MIN.	x —
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 49N 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 TO 95%, 96h.		① CONTACT RESISTANCE: 60 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: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x —
DRY HEAT		EXPOSED AT 105°C, 300h.		① CONTACT RESISTANCE: 60 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x —
COLD		EXPOSED AT -40°C, 120h.		① CONTACT RESISTANCE: 60 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x —
RESISTANCE TO HSO ₃ GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	x —
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s.		NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3 s.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	x
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	AR. SHIRAI	09. 04. 21
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	MO. OKADA	09. 04. 21
(NOTE2) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 120 mΩ.			DESIGNED	MH. YAMAGUCHI	09. 04. 21
			DRAWN	YS. OCHI	09. 04. 21
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-166853-00
HRS	SPECIFICATION SHEET		PART NO.	GT19SA-1P-V	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL769-0022-1-00	△ 1/1