

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)		STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C
	VOLTAGE	30 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.		SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX.	x -
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX.	x -
INSULATION RESISTANCE		500 V DC		100 MΩ MIN.	x -
VOLTAGE PROOF		500 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x -
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES		— BY STEEL GAUGE.		INSERTION FORCE — N MAX. EXTRACTION FORCE — N.	- -
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x -
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/s ² AT 3 h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x -
SHOCK		ACCELERATION 981m/s ² ,6ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 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 -
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.		① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 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 : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX. ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x -
DRY HEAT		EXPOSED AT 105°C, 1000 h.		① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x -
COLD		EXPOSED AT -40°C, 1000 h.		① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x -
RESISTANCE TO SO ₂ GAS		EXPOSED IN 500 PPM FOR 8 h.		① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX.	x -
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	NH. NAKATA	14. 02. 28
			CHECKED	TS. KUBOTA	14. 02. 28
			DESIGNED	MH. SHOUJI	14. 02. 28
			DRAWN	MH. SHOUJI	14. 02. 28
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-169595-00
HRS	SPECIFICATION SHEET		PART NO.	GT32-19DP-7CF	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL782-0033-8-00	△ 1/1