

Mar.1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C	
	VOLTAGE	250 V DC	CURRENT	1A	
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(DC OR 1000Hz)		30 mΩ MAX	-	-
INSULATION RESISTANCE	500 V DC		100 MΩ MIN	-	-
VOLTAGE PROOF	500 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	-	-
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-
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: 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/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.	-	-
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MIN.		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: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-40→5 TO 35→105→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.	-	-
DRY HEAT	EXPOSED AT 105°C, 300 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-
COLD	EXPOSED AT -55°C , 120 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-
RESISTANCE TO SO ₂ GAS	EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	-	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	MO. OKADA	20181221
NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	MO. OKADA	20181221
NOTE2) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 120 mΩ.			DESIGNED	TK. SUZUKI	20181220
			DRAWN	TK. SUZUKI	20181220
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-377680-00-00
HRS	SPECIFICATION SHEET		PART NO.	GT21C-4D/1S-HU	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL771-0094-0-00	△ 1/1