

May.1.2022 Copyright 2022 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	-30 °C TO +105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO +105 °C	
	VOLTAGE	250 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.	-	-	
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	650 V AC FOR 1 MIN.	NO FLASHOVER OR BREAKDOWN.	x	-	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES	- BY STEEL GAUGE.	INSERTION FORCE - N MAX. WITHDRAWAL FORCE - N MIN.	-	-	
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, 43.1m/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.	-	-	
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.	-	-	
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 TO 95%, 500h.	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→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.	-	-	
DRY HEAT	EXPOSED AT 105°C, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	-	-	
COLD	EXPOSED AT -55°C, 120h.	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.	-	-	
RESISTANCE TO SOLDERING HEAT	EXPOSE 2 TIMES AT SPECIFIED TEMPERATURE PROFILE.	NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	-	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	-	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	AR. SHIRAI	11.03.23
			CHECKED	NH. NAKATA	11.03.23
			DESIGNED	TK. SHISHIKURA	11.03.23
			DRAWN	TK. SHISHIKURA	11.03.23
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-166306-00
HRS	SPECIFICATION SHEET		PART NO.	GT16C-1S-HU (A)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL766-0060-1-00	△ 1/1