

May.1.2024 Copyright 2024 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 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.	60mΩ MAX.	X	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	60mΩ MAX.	X	-	
INSULATION RESISTANCE	500 V DC	100 MΩ MIN.	-	-	
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	-	-	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE, -.	INSERTION FORCE - N MAX. EXTRACTION FORCE - N MIN.	-	-	
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: SHIELD:120mΩ 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: SHIELD:120mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 1 h .	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SHIELD:120mΩ 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.	-	-	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE: SHIELD:120mΩ 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: SHIELD:120mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
DRY HEAT	EXPOSED AT 105°C, 300 h.	① CONTACT RESISTANCE: SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
COLD	EXPOSED AT -55°C , 120 h.	① CONTACT RESISTANCE: SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
CORROSION, SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE: SHIELD:120mΩ MAX. ② NO HEAVY CORROSION.	X	-	
RESISTANCE TO HSO ³ GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: SHIELD:120mΩ MAX. ② NO HEAVY CORROSION.	X	-	
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	-	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	-	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	KS. SATOH	08.07.28
			CHECKED	NA. HARUBAYASHI	08.07.28
			DESIGNED	MH. SHOUJI	08.07.24
			DRAWN	MH. SHOUJI	08.07.24
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-166840-00	
HRS	SPECIFICATION SHEET		PART NO.	GT17HNS-4DS-5CF	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL767-0151-1-00	△ 1/1