Mar.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.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
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.	×	—
VOLTAGE PROOF	650 V AC FOR 1 MIN.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	φ4.5 BY STEEL GAUGE.	INSERTION FORCE 29.4 N MAX. WITHDRAWAL FORCE 2.9 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 OMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	×	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60℃, 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℃ 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℃, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
COLD	EXPOSED AT −40℃, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
RESISTANCE TO HSO_3 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 ℃ FOR IMMERSION DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARK
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.

APPROVED	AR. SHIRAI	09. 08. 08
CHECKED	MO. OKADA	09. 08. 08
DESIGNED	YS. OCHI	09. 08. 07
DRAWN	YS. OCHI	09. 08. 07

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-167724-00

HRS	SPECIFICATION SHEET	PART NO.	GT16C-1P-H	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL766-0102-0-00 △0	1/1

FORM HD0011-2-1