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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.	30 mΩ MAX.	x	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(OR 1kHz)	30 mΩ MAX.	x	-	
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	φ 4.5 BY STEEL GAUGE.	INSERTION FORCE 29.4 N MAX. WITHDRAWAL FORCE 2.9 N MIN.	x	-	
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX.. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
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.	x	-	
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.	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 TO 95%, 500h.	① CONTACT RESISTANCE: 60 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: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
DRY HEAT	EXPOSED AT 105°C, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
COLD	EXPOSED AT -40°C, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	x	-	
RESISTANCE TO HSO ₃ GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	x	-	
RESISTANCE TO SOLDERING HEAT	EXPOSE 2 TIMES AT SPECIFIED TEMPERATURE PROFILE.	NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	-	
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 IMMersed.	x	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	AR. SHIRAI	10. 09. 03
			CHECKED	NH. NAKATA	10. 09. 03
			DESIGNED	TK. SHISHIKURA	10. 09. 03
			DRAWN	TK. SHISHIKURA	10. 09. 03
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-168292-00	
HRS	SPECIFICATION SHEET		PART NO.	GT16C-1P-H(B)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	GL766-0107-3-00	△ 1/1