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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURES 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.			○	○
MARKING		CONFIRMED VISUALLY.						○	○
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		1 A DC.			30 mΩ MAX.			-	-
CONTACT RASISTANCE		20 mV AC MAX, 0.1 mA(DC OR 1000 Hz)			30 mΩ MAX.			-	-
MILLIVOLT LEVEL METHOD								-	-
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:60 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.			○	-
VIBRATION		FREQUENCY 20 TO 200 Hz, AMPLITUDE - mm, 43.1 m/S ² AT 3 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μ s. 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 OF10 μ s. 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.			○	-
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 TO 95 %, 500 h.			① CONTACT RESISTANCE:60 mΩ MAX. ② INSULATION RESISTANCE:100MΩ 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:100MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PART.			-	-
DRY HEAT		EXPOSED AT 105 °C, 300 h.			① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.			-	-
COLD		EXPOSED AT -55 °C, 120 h.			① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.			-	-
CORROSION, SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.			① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.			-	-
RESISTANCE TO HSO ³ GAS		EXPOSED IN 500 PPM FOR 8 h.			① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.			-	-
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s.			NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			-	-
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3 S			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.			-	-
RESISTANCE TO WATER		①EXPOSED TO 80°C ENVIROMENT FOR 1h, ②IMMERSED IN THE WATER TO THE DEPTH 100mm FOR 0.5h, ③LEFT IN THE AMBIENT TEMPERATURE FOR 2h, STEPS ② AND ③ ARE 1 CYCLE, 10CYCLES PERFORMED.			NO WATER PENETRATION PERMITTED.			○	-
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED	
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.				S. KURIYA '02.10.10	S. KURIYA '02.10.10	M. Abada '02.10.18	K. Sato '02.10.18		
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.				SPECILICATION SHEET			PART NO. GT5W-1PP-HU		
CODE NO. (OLD)		DRAWING NO.			CODE NO.			1	
CL		ELC4-165492			CL755-0070-1			1	