

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURES RANGE	-30℃ TO 105℃ (NOTE1)			STORAGE TEMPERATURE RANGE	-40℃ TO +105℃			
	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 μs. 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 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.			○	—
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 ℃, 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 ℃ 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 ℃, 300 h.			① CONTACT RESISTANCE:60 mΩ MAX. ② NO HEAVY CORROSION.			—	—
COLD		EXPOSED AT -55 ℃, 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 ℃ FOR IMMERSION, DURATION, 10 s.			NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			—	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 230 ℃ 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℃ 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. Obado '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) CL			DRAWING NO. ELC4-165492			CODE NO. CL755-0070-1			1/1