

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.			OUTER CONTACT 60 mΩ MAX.			○	—
CONTACT RASISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000 Hz)			OUTER CONTACT 60 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		φ 4.5 BY STEEL GAUGE.			INSERTION FORCE 29.4 N MAX. EXTRACTION FORCE 2.9 N MIN.			○	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: OUTER CONTACT 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
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: OUTER CONTACT 120 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 OF 10 μs. ② CONTACT RESISTANCE: OUTER CONTACT 120 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 98 N 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: OUTER CONTACT 120 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: OUTER CONTACT 120 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: OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.			○	—
COLD		EXPOSED AT -55 °C, 120 h.			① CONTACT RESISTANCE: OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.			○	—
RESISTANCE TO HSO ³ GAS		EXPOSED IN 500 PPM FOR 8 h.			① CONTACT RESISTANCE OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.			○	—
RESISTANCE TO SOLDERING HEAT		TOP OF IRON 350 °C , 10 sec.			NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			—	—
SOLDERABILITY		TOP OF IRON 350 °C , 3 sec.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.			—	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.					T. SHISHIKURA '03.8.5	T. SHISHIKURA '03.8.5	N. Haru- Chayashi '03.8.5	K. Aoki '03.8.7	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO. GT16C- / 1. 6-2. 9PC	
CODE NO. (OLD)			DRAWING NO. ELC4-165923			CODE NO. CL766-0019-8			1/1

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