

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.				CENTER CONTACT 30 mΩ MAX. OUTER CONTACT 60 mΩ MAX.				☐	—
CONTACT RASISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA (DC OR 1000 Hz)				CENTER CONTACT 30 mΩ MAX. 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: CENTER CONTACT 60 mΩ MAX. 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: CENTER CONTACT 60 mΩ MAX. 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: CENTER CONTACT 60 mΩ MAX. 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: CENTER CONTACT 60 mΩ MAX. 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: CENTER CONTACT 60 mΩ MAX. 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: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.				☐	—
COLD	EXPOSED AT -55 °C, 120 h.				① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.				☐	—
RESISTANCE TO HSO ³ GAS	EXPOSED IN 500 PPM FOR 8 h.				① CONTACT RESISTANCE CENTER CONTACT 60 mΩ MAX. 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 IMMersed.				☐	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED	
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE2 APPLICABLE BOARD:1.6±0.2.					T. SHISHIKURA '03.7.31	T. SHISHIKURA '03.7.31	<i>R. Harada</i> '03.7.31	<i>K. Sato</i> '03.7.31		
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test										
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET					PART NO. GT16C-1P-DS
CODE NO. (OLD)			DRAWING NO. ELC4-165888			CODE NO. CL766-0013-1			1/1	