

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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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.	<input type="radio"/>	<input type="radio"/>
MARKING	CONFIRMED VISUALLY.		<input type="radio"/>	<input type="radio"/>

ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	1 A DC.	CENTER CONTACT 30 mΩ MAX. OUTER CONTACT 60 mΩ MAX.	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>
INSULATION RESISTANCE	500 V DC	100 MΩ MIN.	<input type="radio"/>	<input type="radio"/>
VOLTAGE PROOF	650 V AC FOR 1 MIN	NO FLASHOVER OR BREAKDOWN.	<input type="radio"/>	<input type="radio"/>

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.	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1 m/S ² AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μ s. ② CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="radio"/>
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/S ² AT 1 h	① NO ELECTRICAL DISCONTINUITY OF 10 μ s. ② CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 ℃, 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.	<input type="radio"/>	<input type="radio"/>
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: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ② INSULATION RESISTANCE:100MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PART.	<input type="radio"/>	<input type="radio"/>
DRY HEAT	EXPOSED AT 105 ℃, 300 h.	① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.	<input type="radio"/>	<input type="radio"/>
COLD	EXPOSED AT -55 ℃, 120 h.	① CONTACT RESISTANCE: CENTER CONTACT 60 mΩ MAX. OUTER CONTACT 120 mΩ MAX. ② NO HEAVY CORROSION.	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>
RESISTANCE TO SOLDERING HEAT	TOP OF IRON 350 ℃ , 10 sec.	NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	<input type="radio"/>	<input type="radio"/>
SOLDERABILITY	TOP OF IRON 350 ℃ , 3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	<input type="radio"/>	<input type="radio"/>

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	K. <i>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