

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	3 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.			SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX			○	—
CONTACT RASISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000 Hz)			SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX			○	—
INSULATION RESISTANCE		500 V DC			1000 MΩ MIN.			○	—
VOLTAGE PROOF		650 V AC FOR 1 MIN			NO FLASHOVER OR BREAKDOWN.			○	—
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND EXTRACTION FORCES		8.3×9.0 BY STEEL GAUGE.			INSERTION FORCE 6.5 N MAX. EXTRACTION FORCE 0.1~6.5 N MIN.			○	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF			○	—
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/S <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○	—
SHOCK		FREQUENCY 20 TO 50 Hz, 66.6 m/S <sup>2</sup> AT 1 h			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: SIGNAL:30 mΩ MAX, SHIELD:60mΩ 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: SIGNAL:60 mΩ MAX, SHIELD:120mΩ 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: SIGNAL:60 mΩ MAX, SHIELD:120mΩ 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: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX ② NO HEAVY CORROSION.			○	—
COLD		EXPOSED AT -55 °C, 120 h.			① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX ② NO HEAVY CORROSION.			○	—
CORROSION, SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.			① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX ② NO HEAVY CORROSION.			○	—
RESISTANCE TO HSO <sup>3</sup> GAS		EXPOSED IN 500 PPM FOR 8 h.			① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ 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.			○	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.					S. KURIYA	T. SHISHI	K. Aoto	K. Aoto	
NOTE2 APPLICABLE BOARD:1.6±0.2.					06.4.14	KURA			
NOTE3 OVER 500 CYCLES:120mΩ MAX. (OUTER CONTACT ONLY)						99.6.17	06.4.18	06.4.18	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HRS HIROSE ELECTRIC CO.,LTD.		SPECIFICATION SHEET			PART NO. GT17VB-6DP-DS (70)				
CODE NO. (OLD)		DRAWING NO. ELC4-165530-01			CODE NO. CL767-0032-2-70			1/1	