

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURES RANGE	-40°C TO +85°C (NOTE1)			STORAGE TEMPERATURE RANGE	-40°C TO +85°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.			<input type="radio"/>	<input type="radio"/>
MARKING		CONFIRMED VISUALLY.						<input type="radio"/>	<input type="radio"/>
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		1 A DC.			30 mΩ MAX.			<input type="radio"/>	<input type="radio"/>
CONTACT RASISTANCE		20 mV AC MAX, 0.1 mA(DC OR 1000 Hz)			30 mΩ MAX.			<input type="radio"/>	<input type="radio"/>
MILLIVOLT LEVEL METHOD								<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									
INSERTION AND WITHDRAWAL FORCES		MEASURED WITH MATING PAIR CONNECTORS.			INSERTION FORCE 29.4 N MAX. WITHDRAWAL FORCE 7.5 N MIN.			<input type="radio"/>	<input type="radio"/>
MECHANICAL OPERATION		200 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			<input type="radio"/>	<input type="radio"/>
VIBRATION		FREQUENCY 8.3 TO 200 Hz, 43.2 m/S <sup>2</sup> AT 20 MIN UNDER 12 CYCLES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			<input type="radio"/>	<input type="radio"/>
SHOCK		981 m/S <sup>2</sup> AT 6 msec UNDER 10 CYCLES FOR 6 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE 60 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 78.4 N MAX.			① DURING APPLYING, MATING COMPLETELY. ② AFTER APPLYING, NO DEFECT OF MATING PARTS.			<input type="radio"/>	<input type="radio"/>
LANCE STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 78.4 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 °C, 90 TO 95 %, 4 h.			① CONTACT RESISTANCE 60 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 → +85 °C TIME 15 → 15 MIN UNDER 500 CYCLES.			① CONTACT RESISTANCE 60 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 +85 °C, 192 h.			① CONTACT RESISTANCE 60 mΩ MAX. ② NO HEAVY CORROSION.			<input type="radio"/>	<input type="radio"/>
COLD		EXPOSED AT -40 °C, 192 h.			① CONTACT RESISTANCE 60 mΩ MAX. ② NO HEAVY CORROSION.			<input type="radio"/>	<input type="radio"/>
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 sec.			NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			<input type="radio"/>	<input type="radio"/>
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 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									
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.					DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED
					T. SHISHIKURA 07.9.10	T. SHISHIKURA 07.9.10	N. MATSUDA 107.9.10	K. Kato 07.9.10	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET			PART NO. GT16F-1S-HU (B)		
CODE NO. (OLD)		DRAWING NO. ELC4-166684			CODE NO. CL766-0083-7		1 1		

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