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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °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	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	1A DC.	30 mΩ MAX.	-	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX.	-	-	
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	-	-	
VOLTAGE PROOF	1000 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	-	-	
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT MATING FORCE	100mm/min WITH CONTACT ITSELF	INSERTION FORCE : 4.9N MAX	-	-	
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
VIBRATION	FREQUENCY 20 TO 400 Hz, 43.1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	-	-	
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/s <sup>2</sup> AT 3 h.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.	① DURING APPLYING, MATING COMPLETELY. ② AFTER APPLYING, NO DEFECT OF MATING PARTS.	-	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
HEAT SHOCK	TEMPERATURE-40→5 TO 35→120→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
DRY HEAT	EXPOSED AT 105°C, 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
COLD	EXPOSED AT -40°C, 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
RESISTANCE TO H <sub>2</sub> O GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	X	-	
RESISTANCE TO SOLDERING HEAT	SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	-	-	
SOLDERABILITY	SOLDERED AT SPECIFIED TEMPERATURE PROFILE.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	-	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK (NOTE1)		INCLUDE THE TEMPERATURE RISING BY CURRENT.	APPROVED	AR. SHIRAI	11.12.20
			CHECKED	TY. TAKAHASHI	11.12.20
			DESIGNED	TY. SAKASHITA	11.12.20
			DRAWN	TY. SAKASHITA	11.12.20
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-169044-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	GT25-12DS-R	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL775-0041-8-00	△ 1/1