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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	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x	
MARKING	CONFIRMED VISUALLY.		x	x	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	1A DC.	30 mΩ MAX.	-	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(OR 1kHz)	30 mΩ MAX.	-	-	
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	x	-	
VOLTAGE PROOF	1000 V AC FOR 1 MIN.	NO FLASHOVER OR BREAKDOWN.	x	-	
MECHANICAL CHARACTERISTICS					
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, 43.1m/s ² , AT 3h 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,66.6m/ s ² AT 1 h.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	-	-	
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.	① DURINGAPPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.	x	-	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 60°C, 90 TO 95%, 500h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	-	-	
RAPID CHANGE OF TEMPERATURE	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.	-	-	
DRY HEAT	EXPOSED AT 105°C, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	-	-	
COLD	EXPOSED AT -40°C, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	-	-	
RESISTANCE TO SO ₂ GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	-	-	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△					
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.		APPROVED	AR. SHIRAI	17.05.31	
		CHECKED	AR. SHIRAI	17.05.31	
		DESIGNED	HS. OZAWA	17.05.30	
		DRAWN	YP. SHEN	17.05.30	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-354620-00-00		
HRS	SPECIFICATION SHEET	PART NO.	GT25-20DS-R		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL775-0076-2-00	△	1/1