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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	100 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.	x	-
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.	x	-
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	-	-
		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.	x	-
		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.	- x x	- - -
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.	- x x	- - -
DRY HEAT	EXPOSED AT 105°C, 300h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	- x	- -
COLD	EXPOSED AT -40°C, 120h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	- x	- -
RESISTANCE TO SO ₂ GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	- x	- -
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△				
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.		APPROVED	AR. SHIRAI	15.02.17
		CHECKED	MO. OKADA	15.02.17
		DESIGNED	TK. SHISHIKURA	15.02.17
		DRAWN	TK. SHISHIKURA	15.02.17
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-169061-00-00	
HRS	SPECIFICATION SHEET	PART NO.	GT25-32DS-R	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL775-0043-3-00	△ 1/1