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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	-30 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C
	VOLTAGE	250 V AC	CURRENT	1A

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.	X	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 0.1 mA(DC OR 1000Hz)	30 mΩ MAX.	X	—
INSULATION RESISTANCE	— V DC	100 MΩ MIN.	—	—
VOLTAGE PROOF	— V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	—	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCE	MEASURING BY STEEL PIN GAUGE.	INSERTION FORCE: N MAX EXTRACTION FORCE: N MAX	— —	— —
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X X	— —
VIBRATION	FREQUENCY 20 TO 200 Hz, 43.1 m/s^2 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.	X X X	— — —
SHOCK	FREQUENCY 20 TO 50 Hz, 66.6 m/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.	X X X	— — —
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT —N MAX.	① DURING APPLYING,MATING COMPLETELY. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	— —	— —
ENVIRONMENTAL CHARACTERISTICS				
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 — X	— — —
THERMAL SHOCK	TEMPERATURE-40→5 TO 35→85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX.(NOTE2) ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X — X	— — —
DRY HEAT	EXPOSED AT 105°C, 300 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X X	— —
COLD	EXPOSED AT -55°C , 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X X	— —
SALT WATER SPRAY	EXPOSED TO SALT WATER WITH CONCENTRATION OF 5% FOR 96 HOURS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	X X	— —
RESISTANCE TO SO_2 GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	X X	— —
RESISTANCE TO SOLDERING HEAT	IMMERSED IN SOLDER WITH TEMPERATURE 260°C, FOR 10 SEC.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	—	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 230°C FOR IMMERSION DURATION 3SEC.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	—	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⓪					

REMARK
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.
(NOTE2) 120mΩ MAX, WHEN OVER 500 CYCLES.

APPROVED	AR. SHIRAI	12. 08. 28
CHECKED	TK. SHISHIKURA	12. 08. 28
DESIGNED	Chinaik. Ng	12. 08. 24
DRAWN	Chinaik. Ng	12. 08. 24

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-166303-01

HRS	SPECIFICATION SHEET	PART NO.	GT25-2024SCF	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL775-0002-6-00 ⓪	1/1

FORM HD0011-2-1