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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 MATING FORCE	- BY STEEL PIN.	INSERTION FORCE -N MAX. EXTRACTION FORCE -N MIN.	-	-	
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 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	-	
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. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	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	-	
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	-	
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 -55°C , 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	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	-	
RESISTANCE TO SO ₂ GAS	EXPOSED IN 500 PPM FOR 8h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	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 IMMERSSED.	-	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK			APPROVED	AR. SHIRAI	17.05.31
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	AR. SHIRAI	17.05.31
(NOTE2) 120mΩ MAX, WHEN OVER 500 CYCLES.			DESIGNED	HS. OZAWA	17.05.31
			DRAWN	YP. SHEN	17.05.31
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-168266-00	
	SPECIFICATION SHEET		PART NO.	GT25-2024SC	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL775-0034-2-00	1/1