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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	-10 °C TO +60 °C(NOTE2)	
	CURRENT	3 A	STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX (NOT DEWED)	
	VOLTAGE	250 V AC			
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					
VOLTAGE DROP	12 V DC, 1A DC.	30 mV/A MAX.	x	-	
CONTACT RESISTANCE	20 mV AC, 1 mA AND 10 mA AC.	30 mΩ MAX.	x	-	
MILLIVOLT LEVEL METHOD					
INSULATION RESISTANCE	500 V DC FOR 30 sec.	100 MΩ MIN.	x	-	
VOLTAGE PROOF	1000 V AC FOR 1 min.	NO BREAKDOWN.	x	-	
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	50 TIMES OF INSERTION AND EXTRACTION.	① CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX. ② NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
VIBRATION	FREQUENCY AT 20 TO 600 Hz, ACCELERATION AT 1.0~43.1 m/s ² FOR 3 h ON EACH 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 7 Ω OR MORE FOR 1 μs. ② CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX. ③ NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
SHOCK	AFTER THE DRY HEAT TEST, APPLYING SHOCK 3 TIMES WITH ACCELERATION AT 981 m/s ² IN BOTH DIRECTIONS OF THE 3 AXES.	① NO ELECTRICAL DISCONTINUITY OF 7 Ω OR MORE FOR 1 μs. ② NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
LOCK STRENGTH	PULL BACK IN THE MATING DIRECTION AND MEASURE THE FORCE AT THE MOMENT OF THE LOCK IS BROKEN.	100 N MIN.	x	-	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT	EXPOSED AT 60 °C, 90 ~ 95 % RH FOR 96 h.	① CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
THERMAL SHOCK	TEMPERATURE- 40 → ROOM TEMP. →120 → ROOM TEMP. TIME 30 → 5 → 30 → 5 min UNDER 500 CYCLES.	① CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX. ② NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
DRY HEAT	EXPOSED AT 120 °C FOR 120 h.	① CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX. ② NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
COLD	EXPOSED AT -40°C FOR 120 h.	① CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX. ② NO DAMAGE, CRACK AND DISTORTION OF PARTS.	x	-	
RESISTANCE TO SO ₂ GAS	EXPOSED AT 40 °C, 90 ~ 95 % RH, 10 ppm FOR 24 h.	CONTACT RESISTANCE MILLIVOLT LEVEL METHOD : 60 mΩ MAX.	x	-	
RESISTANCE TO SOLDERING HEAT	SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.	NO DEFORMATION OF CASE AND EXCESSIVE DISTORTION OF THE TERMINALS.	x	-	
SOLDERABILITY	SOLDERED AT SPECIFIED TEMPERATURE PROFILE.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	x	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	△				
REMARK			APPROVED	AH. EDASHIGE	20250826
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	TY. MOGI	20250826
(NOTE2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			DESIGNED	YI. OGAWA	20250825
			DRAWN	AN. SAIKI	20250825
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC-358751-31-00
HRS	SPECIFICATION SHEET		PART NO.	GT25H2-20DP-2. 2H(31)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0775-0080-0-31	△ 1/1