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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.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
VOLTAGE DROP	12 V DC,1A DC.	30 mV/A MAX .	×	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC , 1 mA AND 10 mA AC.	30 mΩ MAX .	×	—
INSULATION RESISTANCE	500 V DC FOR 30 sec.	100 MΩ MIN.	×	—
VOLTAGE PROOF	1000 V AC FOR 1 min.	NO BREAKDOWN.	×	—
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.	× ×	— —
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.	× × ×	— — —
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.	× ×	— —
LOCK STRENGTH	PULL BACK IN THE MATING DIRECTION AND MEASURE THE FORCE AT THE MOMENT OF THE LOCK IS BROKEN.	100 N MIN.	×	—
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.	× × ×	— — —
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.	× ×	— —
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.	× ×	— —
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.	× ×	— —
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.	×	—
RESISTANCE TO SOLDERING HEAT	SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES.	NO DEFORMATION OF CASE AND EXCESSIVE DISTORTION OF THE TERMINALS.	×	—
SOLDERABILITY	SOLDERED AT SPECIFIED TEMPERATURE PROFILE.	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) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.

APPROVED	AH. EDASHIGE	20250826
CHECKED	TY. MOGI	20250826
DESIGNED	YI. OGAWA	20250825
DRAWN	AN. SAIKI	20250825

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

DRAWING NO. ELC-358752-31-00

HRS	SPECIFICATION SHEET	PART NO.	GT25H2-24DP-2.2H(31)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0775-0081-2-31	△0 1/1

FORM HD0011-2-1