

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		-25 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
RATING	OPERATING TEMPERATURE RANGE	AC 100 V, DC 140 V			—	—
	VOLTAGE	2 A			APPLICABLE CABLE	φ7
CURRENT						
SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS		QT	AT	
CONSTRUCTION				ACCORDING TO DRAWING.		
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.					
MARKING	CONFIRMED VISUALLY.					
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A		10 mΩ MAX.	X	X	
INSULATION RESISTANCE	100 V DC.		1000 MΩ MIN.	X	X	
VOLTAGE PROOF	300 V AC, FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X	
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND WITHDRAWAL FORCES	— BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : — N MIN.		—	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 55 N MAX. LOCKING DEVICE WITH LOCK : — N MAX.		X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 15 mΩ MAX.		X	—
VIBRATION	FREQUENCY: 10 TO 55 HZ, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2h, FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 5 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.		① INSULATION RESISTANCE: 1000 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION RUIN THE FUNCTION.		X	—
DRY HEAT	EXPOSED AT + 85 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
COLD	EXPOSED AT - 55 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE: + 380±10°C, FOR SOLDERING DURATION, 3 ⁰ s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, + 350±10°C FOR SOLDERING DURATION, 2 TO 3 s.		WETTING ON SOLDER SURFACE, NO SOLDER CLUSTER.		X	—
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
REMARK	NOTE (1) R/T : ROOM TEMPERATURE	APPROVED	EJ. KUNII	07.05.08		
		CHECKED	YH. YAMADA	07.05.08		
		DESIGNED	HS. KAWASHIMA	07.05.08		
		DRAWN	MK. SATO	07.04.24		
Unless otherwise specified, refer to JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-041531-73			
HRS		SPECIFICATION SHEET		PART NO.	HR10A-10TPA-12P (73)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL110-0447-8-73	
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