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

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△							△				
△							△				
APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-25 °C TO +85 °C			STORAGE TEMPERATURE RANGE		-10 °C TO +60 °C			
	VOLTAGE		AC 100 V , DC 140 V								
	CURRENT		2 A			APPLICABLE CABLE		φ 7 ±0.2			
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS				QT	AT
CONSTRUCTION											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.				×	×
MARKING		CONFIRMED VISUALLY.								×	×
ELECTRIC CHARACTERISTICS											
CONTACT RESISTANCE		CONTACT SHALL BE MEASURED AT DC 1 A				10 mΩ MAX.				×	×
INSULATION RESISTANCE		100 V DC.				1000 MΩ MIN.				×	×
VOLTAGE PROOF		300 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				×	×
MECHANICAL CHARACTERISTICS											
CONTACT INSERTION AND WITHDRAWAL FORCES		φ 0.53 ± 0.003 BY STEEL GAUGE.				INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN.				×	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.				INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH LOCK : 70 N MAX.				×	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.				CONTACT RESISTANCE: 15 mΩ MAX.				×	—
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2 h, FOR 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.				×	—
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.				×	—
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.				① INSULATION RESISTANCE: 5 MΩMIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	—
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.				×	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				NO HEAVY CORROSION.				×	—
DRY HEAT		EXPOSED AT + 85 °C , 96 h.				NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	—
COLD		EXPOSED AT - 55 °C , 96 h.				NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	—
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, + 380 ± 10 °C ,FOR SOLDERING DURATION, 3 ~ 4 s.				NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.				×	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, + 350 ± 10 °C FOR SOLDERING DURATION, 2 ~ 3 s.				WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.				×	—
REMARKS						DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
NOTE (1) R/T : ROOM TEMPERATURE						D. Matsume '05.10.01	D. Matsume '05.10.01	E. Kunita '05.10.03	M. Sato '05.10.14		
Unless otherwise specified, refer to JIS C 5402.											
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test											
HS		HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET		PART NO. HR10A-13P-20S(73)			
CODE NO. (OLD)		DRAWING NO.		CODE NO.						1/1	
CL		ELC4-046520-73		CL110-0716-8-73							

