

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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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			

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	— 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 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. Matsune	D. Matsune	E. Kumi	M. Sato	
Unless otherwise specified, refer to JIS C 5402.		05.10.01	05.10.01	05.10.03	05.10.14	
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test						

HS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. HR10A-13TPD-20P(73)	
CODE NO. (OLD) CL	DRAWING NO. ELC4-042375-73	CODE NO. CL110-1015-9-73		1 1	