

Jan.1.2022 Copyright 2022 HIROSE ELECTRIC CO., LTD. All Rights Reserved. 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 150 V , DC 200 V							
	CURRENT	2 A			APPLICABLE CABLE				
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.			×	×	
	GROUND SHALL BE MEASURED AT DC 1A			30 mΩ MAX.			×	×	
INSULATION RESISTANCE	100 V DC.			1000 MΩ MIN.			×	×	
VOLTAGE PROOF	500 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 : 35 N MAX.			×	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.			CONTACT RESISTANCE: 20 mΩ MAX. GROUND RESISTANCE: 100 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 MΩMIN (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 MAX. 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					H.Kim	Kim	Kim	M. Sato	
Unless otherwise specified, refer to JIS C 5402.					05.05.		05.04.02	05.03.02	
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test									
HS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO.		
							HR10G-7R-4PB(73)		
CODE NO. (OLD)		DRAWING NO.			CODE NO.			1/1	
CL		ELC4-042749-73			CL110-1802-3-73			1/1	

TO
R

