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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	-25 °C TO +85 °C			
	VOLTAGE	AC 100 V, DC 140 V							
	CURRENT	5 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			5 mΩ MAX.			○	○
		CONTACT SHALL BE MEASURED AT DC — A			— 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. LOCKING DEVICE WITH LOCK.			INSERTION AND WITHDRAWAL FORCES : 30 N MAX.			○	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.			CONTACT RESISTANCE: 10 mΩ MAX.			○	—
					— RESISTANCE: — mΩ MAX.			—	—
VIBRATION		FREQUENCY 10 TO 55 Hz (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—
SHOCK		IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AL AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	—
BREAKING STRENGTH		MAX 30N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.			NO BREAKAGE MAX 30N.			○	—
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 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: 100 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 IMMERSION DURATION, 3 ⁺¹ ₀ s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			○	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s.			SOLDER SURFACE TO BE FREE FROM PIN-HOLE, NO WETTING AND OTHER DEFECTS.			○	—
SEALING		EXPOSED AT A DEPTH OF 1 m FOR 0.5 h.			NO WATER PENETRATION INSIDE CONNECTOR.			○	—
AIRTIGHTNESS		APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.			NO AIR BUBBLES INSIDE CONNECTOR.			○	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
(1) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR. NOTE(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402.					AL HAYASHI	H. Nagano		AL HAYASHI	
					05.08.10	05.08.10	05.08.10	05.08.10	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HS		HIROSE ELECTRIC CO., LTD.			SPECIFICATION SHEET			PART NO. HR30-6R-3P (71)	
CODE NO. (OLD) CL		DRAWING NO. ELC4-112017-71			CODE NO. CL130-1003-4-71			1 1	

