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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	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		30 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 LOOK.		INSERTION AND WITHDRAWAL FORCES : 30 N MAX.		×	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 60 mΩ MAX.		×	—
			— RESISTANCE: — mΩ MAX.		—	—
VIBRATION	FREQUENCY 10 TO 55 Hz (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION ALAXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO 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 OF CONNECTOR.		×	—

ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		①INSULATION RESISTANCE: 10 MΩMIN (AT HIGH HUMIDITY). ②INSULATION RESISTANCE: 100 MΩMIN (AT DRY). ③NO 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.		①INSULATION RESISTANCE: 100 MΩMIN. ②NO 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 ₀ ⁺¹ s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		×	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 ~ 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 NOTE(1) R/T : ROOM TEMPERATURE	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	E. Kunii	E. Kunii	/	M. Sato	
	'05.10.14	'05.10.14		05.10.17	

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test ×:Applicable Test

HR HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET	PART NO. HR30-6R-6PD (71)
CODE NO. (OLD) CL	DRAWING NO. ELC4-113558-71	CODE NO. CL130-1020-3-71	1 1

