

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	φ0.53±0.003 BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : 0.15 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 CORROSIN.	×	—		
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 E. Huni 05.10.14	DESIGNED E. Huni 05.10.14	CHECKED /	APPROVED M. Sato 05.10.17	RELEASED
Unless otherwise specified, refer to JIS C 5402.							
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test							
HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. HR30-6R-6SD (71)			
CODE NO. (OLD) CL		DRAWING NO. ELC4-113559-71		CODE NO. CL130-1021-6-71		1 1	