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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 30 V , DC 42 V								
	CURRENT		2 A			APPLICABLE CABLE		φ6.2 ~ φ7.0			
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				15 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 : 50 N MAX.				×	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.				CONTACT RESISTANCE: 30 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 AL AXIS FOR 3 TIMES AT 490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms.				①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.				×	—
CONTACT RETENTION FORCE		APPLYING A PULL FORCE THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED THE BODY.				20 N MIN.				×	—
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 <sup>①</sup> → +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.				×	—
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) ABOVE SPECIFICATIONS SHOWS THE VELVE IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACT.						E. Kunita 05.10.14	E. Kunita 05.10.14		M. Sato 05.10.17		
(2) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.											
(3) 2 A RATE CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. THE CURRENT CAPACITY OF WHOLE CONNECTOR IS 20.4 A MAX.											
NOTE(1) R/T : ROOM TEMPERATURE 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. HR30-8J-12SC(71)	
CODE NO. (OLD) CL		DRAWING NO. ELC4-112267-71				CODE NO. CL130-2016-1-71				1 1	

