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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	-40 °C TO +100 °C			STORAGE TEMPERATURE RANGE	-40 °C TO +85 °C			
	VOLTAGE	AC 250 V , DC 350 V							
	CURRENT	12 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	500 V DC.	1000 MΩ MIN.	×	×
VOLTAGE PROOF	2000 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×
IMPULSE VOLTAGE PROOF	4kV STANDARD WAVE(1.2/50μs VOLTAGE WAVE) FOR POSITIVE VOLTAGE 3 TIMES AND NEGATIVE VOLTAGE 3 TIMES.	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 : 5~50 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 3DIRECTION	①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSIONAL AXIS FOR 3 TIMES AT 490m/s ² DURATION OF PULSE 11ms.	①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	①INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ②INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → R/T ⁽¹⁾ → +100 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	①INSULATION RESISTANCE: 1000 MΩ MIN. 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 +100°C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
COLD	EXPOSED AT -40 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RESISTANCE TO SOLDERING HEAT	① SOLDERING IRON TEMPERATURE, +350 °C ,FOR SOLDERING DURATION, 3 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—
	② SOLDER TEMPERATURE, +260 °C ,FOR SOLDERING DURATION, 10 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +245 °C FOR IMMERSION DURATION, 3 s.	NO DEFECT AS PINHOLE, NON-WETTING AND DE-WETTING OF SOLDER EXIS OR NOT ON THE SURFACE IMMersed.	×	—

REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
(1) RESISTANCE TO SOLDERING HEAT SHALL BE TESTED IN MOUNTED CONDITION WITH BOARD OF 1.6mm.		M. Ishii 06.08.24	D. Motome 06.08.24	E. Kurui 06.08.25	M. Sato 06.08.25	
(2) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.						
NOTES(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test						

HS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.
				HR31-5. 08R-5PDL (72)
CODE NO. (OLD)	DRAWING NO.	CODE NO.		
CL	ELC4-112082-72	CL131-0001-0-72	1/1	

