

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	- 25 °C TO 60 °C	STORAGE TEMPERATURE RANGE	°C TO °C
	VOLTAGE	125 V AC , 175 V DC	OPERATING HUMIDITY RANGE	% TO %
	CURRENT	0.5 A	APPLICABLE CABLE	

SPECIFICATIONS

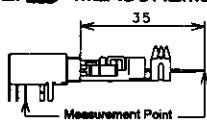
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
------	-------------	--------------	----	----

CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○

ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	1 mA (DC OR 1000 Hz). 1	35 mΩ MAX.	○	○
INSULATION RESISTANCE	100 V DC.	250 MΩ MIN.	○	○
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○	○

MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	3.5 N MIN. 14.3 N MAX.	○	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS. 1	① CONTACT RESISTANCE: 35 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① REMAIN ENGAGED WHILE THE FORCE IS APPLIED. ② NO DEFECT AT MATING AREA AFTER THE TEST.	○	—
LOCK RETENTION FORCE	APPLY 68.6 N PULL FORCE TO THE MATING DIRECTION.		○	—

ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → -5~35 → 85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90~95 %, 96 h.	① INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY.) 100 MΩ MIN. (AT DRY.) ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	○	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S.	NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.	○	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S.	MIN. 95 % OF SOLDER IMMersed AREA SHALL BE COVERED NEW SOLDER COATING.	○	—

REMARKS NOTE. 1 MEASUREMENT POINT OF CONTACT RESISTANCE	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
		<i>T. Hanaya</i>	<i>T. Hanaya</i>	<i>T. Watanabe</i>	<i>H. Minato</i>
(WITHOUT BULK RESISTANCE) Unless otherwise specified, refer to JIS C 5402.	03.12.10	03.12.10	03.12.11	03.12.12	

Note QT:Qualification Test AT:Assurance Test ○:Applicable Test				
HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. 3110-12S(50)
CODE NO.(OLD) CL	DRAWING NO. ELC4-045475-01	CODE NO. CL231-3008-3-50	1/1	

Apr.1.2017 Copyright 2017 HIROSE ELECTRIC CO., LTD. All Rights Reserved.

TO
Q