

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

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	- 40 °C TO 85 °C	STORAGE TEMPERATURE RANGE	°C TO °C
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	% TO %
	CURRENT	1 A	APPLICABLE CABLE	AWG No.28(7/0.127) UL20276 INSULATOR DIA. φ0.58 CABLE DIA. φ5.9

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○

<b>ELECTRIC CHARACTERISTICS</b>				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	40 mΩ MAX.	○	○
INSULATION RESISTANCE	250 V DC.	1000 MΩ MIN.	○	—
VOLTAGE PROOF	350 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○	○

<b>MECHANICAL CHARACTERISTICS</b>				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 29.4 N MAX. EXTRACTION FORCE 29.4 N MAX.	○	—
MECHANICAL OPERATION	20000 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX.	○	—
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—

<b>ENVIRONMENTAL CHARACTERISTICS</b>				
DRY HEAT	EXPOSED AT 85 °C, 500 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 15~35 → 85 → 15~35 °C TIME 30 → 10~15 → 30 → 10~15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. (AT DRY.) ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	○	—
MIXED GAS CORROSION	EXPOSED IN SO <sub>2</sub> 10 ppm, H <sub>2</sub> S 3 ppm, 70 ~ 80 % RH, 96 h.		○	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>T. Kanagawa</i>	<i>T. Kanagawa</i>	<i>Y. Enami</i>	<i>H. Miura</i>	
	03.10.29	03.10.29	03.10.30	03.10.30	

Unless otherwise specified, refer to JIS C 5402.  
Note QT: Qualification Test AT: Assurance Test O: Applicable Test

<b>HRS</b> HIROSE ELECTRIC CO., LTD.	<b>SPECIFICATION SHEET</b>	PART NO. 3530A-16P-CV(50)
CODE NO.(OLD) CL	DRAWING NO. ELC4-120419-01	CODE NO. CL235-0003-9-50
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