

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

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	°C TO °C
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	% TO %
	CURRENT	0.5 A	APPLICABLE CABLE	

SPECIFICATIONS

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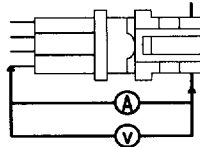
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○

ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz). 1	50 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.	14.7 N MIN. 53.9 N MAX.	○	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS. 1	① CONTACT RESISTANCE: 50 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.	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		○	—

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.	INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY.) 100 MΩ MIN. (AT DRY.)	○	—
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.	○	—

NOTE. 1 MEASUREMENT POINT OF CONTACT RESISTANCE



REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.	<i>T. Hamaya</i> 03.10.1	<i>T. Hamaya</i> 03.10.1	<i>Y. Enami</i> 03.10.06	<i>H. Miwa</i> 03.10.06	

Note QT:Qualification Test AT:Assurance Test ○:Applicable Test	
HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET
CODE NO.(OLD) CL	DRAWING NO. ELC4-044241-03
PART NO. DX20A-50S(50)	CODE NO. CL230-0272-9-50
1/1	

TO
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