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In case of consideration for using Automotive equipment/device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (2)
	VOLTAGE	200 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %.
	CURRENT	1 A	STORAGE HUMIDITY RANGE	40 % TO 70 % (2)

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	100 mA (DC OR 1000 Hz).	15 mΩ MAX.	×	–
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	×	–
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	–
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	□0.5±0.002mm BY STEEL GAUGE.	INSERTION FORCE: 2.45 N MAX. EXTRACTION FORCE: 0.25 N MIN.	×	–
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.	①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	–
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTIONS.	①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	–
SHOCK	490 m/s^2, DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		×	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ～ 95 %, 96 h.	①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE:1000 MΩ MIN.	×	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-65→+15～+35→+125→+15～+35°C TIME 30 → 10～15 → 30 → 10～15 min. UNDER 5 CYCLES.	③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	–
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	①CONTACT RESISTANCE: 20 mΩ MAX. ②NO HEAVY CORROSION.	×	–
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA - 39)		×	–
RESISTANCE TO SOLDERING HEAT	1) SOLDER BATH:SOLDER TEMPERATURE, 260±5℃ FOR IMMERSION,DURATION,10±1s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	–
	2) SOLDERING IRONS : 350℃ FOR 3 s MAX.		×	–
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±3°C, FOR IMMERSION DURATION, 2 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⓪					

REMARK (1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.

Unless otherwise specified, refer to MIL-STD-1344.

APPROVED	HS.OKAWA	06.05.20
CHECKED	HS.OZAWA	06.05.20
DESIGNED	KY.NAKAMURA	06.05.20
DRAWN	KY.NAKAMURA	06.05.20

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-081235-21

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. A3C-20DA-2DSA(71)

CODE NO. CL621-0509-8-71 ⓪ 1/1

FORM HD0011-2-1