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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 <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C <sup>(2)</sup>	
	OPERATING HUMIDITY RANGE	40 % TO 80 %	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>	
	VOLTAGE	200 V AC	APPLICABLE CABLE	—	
	CURRENT	1 A	INSULATION	—	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<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).	15 mΩ MAX .	×	—	
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	×	—	
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—	
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND EXTRACTION FORCES	□0.5 ± 0.002 mm BY STEEL GAUGE.	INSERTION FORCE : 2.45 N MAX. EXTRACTION FORCE: 0.25 N MIN.	×	—	
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 20 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, 2 h IN 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		×	—	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.	1) CONTACT RESISTANCE: 20 mΩ MAX. 2) INSULATION RESISTANCE: 1000 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 → +15 TO +35 → +125 → +15 TO +35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min. UNDER 5 CYCLES.		×	—	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE: 20 mΩ MAX. 2) NO 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°C FOR IMMERSION, DURATION, 10±1s. 2) SOLDERING IRONS : 350°C FOR 3 s MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—	
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
REMARK			APPROVED	HS. OKAWA	15.06.04
(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.			CHECKED	HT. YAMAGUCHI	15.06.04
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.			DESIGNED	MT. ITANO	15.06.04
Unless otherwise specified, refer to MIL-STD-1344.			DRAWN	MT. ITANO	15.06.04
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-083492-71-21	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	A3C-50DA-2DSC (71)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL621-0554-2-71	△ 1/1