

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C ⁽²⁾	
	OPERATING HUMIDITY RANGE	40 % TO 80 %	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	
	VOLTAGE	200 V AC	APPLICABLE CABLE	—	
	CURRENT	1 A	INSULATION	—	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	
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 ± 0.002 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 ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.			
ENVIRONMENTAL CHARACTERISTICS					
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.	
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.		3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		1) CONTACT RESISTANCE: 20 mΩ MAX.	
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA - 39)		2) NO HEAVY CORROSION.	
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 IMMERSSED.	
	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-081246-71-21
HRS	SPECIFICATION SHEET		PART NO.	A3C-18DA-2DSC (71)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL621-0538-6-71	△ 1/1