



**THE DATASHEET OF
A3-4PA-2SV(71)**



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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⁾		
	Operating Humidity Range	Relative humidity 85 % max (Not dewed)	Storage Humidity Range	Relative humidity 85 % max (Not dewed)		
	Voltage	200 V AC	Applicable Cable	—		
	Current	1 A	Insulation	—		
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						
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, single amplitude : 0.75 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 at 3 times for 3 both axial 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. 3) No damage, crack and looseness of parts.	×	—	
Rapid Change of Temperature	Temperature -55 → +5 TO +35 → +85 → +5 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	Reflow soldering :250 °C MAX, 220 °C MIN, for 60 s MAX		No deformation of case of excessive looseness of the terminals.	×	—	
	Soldering irons : 360°C FOR 5 s MAX.			×	—	
Solderability	Soldered at solder temperature, 245 ± 3 °C, for immersion duration, 3 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	
△	1	DIS-F-00004353	HR.NAGAYASU	HT.YAMAGUCHI	20190301	
REMARK			APPROVED	HS.OKAWA	20050723	
(1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.			CHECKED	HS.OZAWA	20050723	
Unless otherwise specified, refer to IEC-60512.			DESIGNED	TH.NODA	20050723	
Clerical corrections. △			DRAWN	AK.SUZUKAWA	20050723	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELCX-082599-71-21		
HRS	SPECIFICATION SHEET		PART NO.	A3-*PA-2SV(71)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL621	△ 1/1	

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