

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

APPLICABLE STANDARD				STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>		OPERATING HUMIDITY RANGE	40 % TO 80 %
	VOLTAGE	200 V AC		STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>
	CURRENT	3 A			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY.	ACCORDING TO DRAWING.	X	X	X
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	15 mΩ MAX.	X	-	-
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	X	-	-
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	-
<b>MECHANICAL CHARACTERISTICS</b>					
500 TIMES INSERTIONS AND EXTRactions.					
MECHANICAL OPERATION		① CONTACT RESISTANCE: 15 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	-
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5mm, AT 2 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	-
SHOCK	490 ms <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	-	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95%, 96 h.	① CONTACT RESISTANCE: 15 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN.	X	-	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: 65→+15~+35→+125→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min UNDER 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 15 mΩ MAX. ② NO HEAVY CORROSION.	X	-	-
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38)		X	-	-
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	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-	-
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.	X	-	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△					
<b>REMARK</b> <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED. <sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.					
Unless otherwise specified, refer to MIL-STD-202.					
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-018140-21		
<b>HRS</b>		SPECIFICATION SHEET			
		HIROSE ELECTRIC CO., LTD.			
		PART NO.	A1-50PA-2, 54DS (71)		
		CODE NO.	CL619-0013-6-71		
		APPROVED	HS. OKAWA	07.02.01	
		CHECKED	HS. OZAWA	07.02.01	
		DESIGNED	KY. MAKAMURA	07.02.01	
		DRAWN	KY. MAKAMURA	07.02.01	
		DRAWING NO. ELC4-018140-21			
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