

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 ⁽²⁾
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		OPERATING HUMIDITY RANGE	40 % TO 80 %
	VOLTAGE	200 V AC		STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾
	CURRENT	3 A			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY.	ACCORDING TO DRAWING.	X	X	
MARKING			X	X	
ELECTRIC CHARACTERISTICS					
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	-	
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRactions.	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 ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	-	
ENVIRONMENTAL CHARACTERISTICS					
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	
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.	APPROVED	HS. OKAWA		07.02.01	
	CHECKED	HS. OZAWA		07.02.01	
	DESIGNED	KY. MAKAMURA		07.02.01	
	DRAWN	KY. MAKAMURA		07.02.01	
Unless otherwise specified, refer to MIL-STD-202.					
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-018133-21		
<h1 style="margin: 0;">HRS</h1>		SPECIFICATION SHEET		PART NO.	A1-20PA-2. 54DS (71)
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL619-0007-3-71
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