

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

APPLICABLE STANDARD		SPECIFICATIONS	
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾
VOLTAGE	200 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %
CURRENT	3 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾

ITEM	TEST METHOD	REQUIREMENTS	Q/T	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		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				
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 2h 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 ± 1 s. 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 IMMERSSED.	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	06.04.12
			CHECKED	HS. OZAWA	06.04.12
			DESIGNED	K.Y. NAKAMURA	06.04.11
			DRAWN	AK. SUZUKAWA	06.04.11

Note QT: Qualification Test AT: Assurance Test X: Applicable Test
DRAWING NO. **ELC4-084168-21**

HRS	SPECIFICATION SHEET	PART NO.	A2-*PA-2.54DS (71)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL620