

In case of consideration for using Autom otive equipm ent/device which dem and high re liability, kindly contactour sales w indow correspondents.

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ②
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ①	
	VOLTAGE	125 V AC	40 % TO 80 %
	CURRENT	0.5 A	40 % TO 70 % ②

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	Q/T	AT
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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).	45 mΩ MAX.	X	-
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)		X	-
MILLIVOLT LEVEL METHOD		55 mΩ MAX.		
INSULATION RESISTANCE	250 V DC	100 MΩ MIN.	X	-
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: (0.882 × * *) N MAX. WITHDRAWAL FORCE: (0.098 × * *) N MIN.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, 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: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +15 ~ +35 → +85 → +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: 55 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 : 360 °C FOR 5 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 ± 3 °C, FOR IMMERSION DURATION, 2 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARK ① TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ② THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. ③ * * INDICATES THE NUMBER OF CONTACTS.				
Unless otherwise specified, refer to MIL-STD-1344.				
Note	Q1: Qualification Test	AT: Assurance Test	X: Applicable Test	

DRAWING NO.	ELC4-083295-21
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HRS		HIROSE ELECTRIC CO., LTD.	
SPECIFICATION SHEET	PART NO.	FX2-*S-1. 27DS (71)	
	CODE NO.	QL572	