

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT	
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾			
	VOLTAGE	125 V AC		OPERATING HUMIDITY RANGE	40 % TO 80 %			
	CURRENT	0.5 A		STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾			
SPECIFICATIONS								
ITEM	TEST METHOD			REQUIREMENTS			QT	AT
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	-
MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)			55 mΩ MAX.			x	-
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: 53.0 N MAX. WITHDRAWAL FORCE: 5.9 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 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: 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) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 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, 2s.		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		
△				APPROVED	HS. OKAWA	07.10.19		
				CHECKED	HS. OZAWA	07.10.19		
				DESIGNED	SY. KAMIGA	07.10.19		
				DRAWN	HK. SUMADORI	07.10.19		
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.								
Unless otherwise specified, refer to MIL-STD-1344.								
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-082419-21				
HRS		SPECIFICATION SHEET		PART NO.		FX2-60S-1.27SVL (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL572-2155-2-71		
						△ 1/1		