

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		
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<b>APPLICABLE STANDARD</b>											
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>			STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>					
	VOLTAGE	125 V AC			OPERATING HUMIDITY RANGE	40 % TO 80 %					
	CURRENT	0.5 A			STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>					
<b>SPECIFICATIONS</b>											
ITEM		TEST METHOD			REQUIREMENTS			QT	AT		
<b>CONSTRUCTION</b>											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×		
MARKING		CONFIRMED VISUALLY.						×	×		
<b>ELECTRICAL CHARACTERISTICS</b>											
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			45 mΩ MAX.			×			
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA(DC OR 1000Hz)			55 mΩ MAX.			×			
INSULATION RESISTANCE		250 V DC.			100 MΩ MIN.			×			
VOLTAGE PROOF		300 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×			
<b>MECHANICAL CHARACTERISTICS</b>											
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR			INSERTION FORCE : (0.882 × ** ) N MAX WITHDRAWAL FORCE : (0.098 × ** ) N MIN			×			
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×			
VIBRATION		FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTION.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×			
SHOCK		490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.						×			
<b>ENVIRONMENTAL CHARACTERISTICS</b>											
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.			×			
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.			×			
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.			×			
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)						×			
RESISTANCE TO SOLDERING HEAT		1) SOLDER BATH: SOLDER TEMPERATURE, 260±5°C FOR IMMERSION, DURATION, 10±1s. 2) SOLDERING IRONS : 360°C FOR 5 s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.			×			
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 2s.			A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.			×			
<b>REMARKS</b>											
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.				DRAWN A.SUZUKAWA 05.03.24		DESIGNED H. Doi 05.03.25		CHECKED K. Ozawa 05.03.25		APPROVED K. Ozawa 05.03.25	
Released											
Unless otherwise specified, refer to MIL-STD-1344.											
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test											
<b>HRS</b> HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET				PART NO. FX2-**-S-1. 27DSL (71)			
CODE NO.(OLD) CL		DRAWING NO. ELC4 - 083296-21			CODE NO. CL 572			1 1			

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