

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		
△					△						
△					△						
APPLICABLE STANDARD											
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>					
SPECIFICATIONS											
ITEM	TEST METHOD				REQUIREMENTS				QT	AT	
CONSTRUCTION											
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.				×	×	
MARKING	CONFIRMED VISUALLY.								×	×	
ELECTRICAL CHARACTERISTICS											
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.				×		
MECHANICAL CHARACTERISTICS											
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.								×		
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.				×		
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.				×		
SOLDABILITY	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 IMMERSED.				×		
REMARKS											
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 K.Sato 05.03.25	CHECKED T.Ogawa 05.03.25	APPROVED T.Ogawa 05.03.25	RELEASED			
Unless otherwise specified, refer to MIL-STD-1344.											
Note QT: Qualification Test AT: Assurance Test ×: Applicable Test											
<b>HS</b> HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET				PART NO. FX2-**P-1. 27DSL (71)					
CODE NO.(OLD) CL		DRAWING NO. ELC4 – 083294-21				CODE NO. CL 572					
										1	1