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

	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(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
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				
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/s², 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℃ FOR IMMERSION,DURATION,10±1s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
	2) SOLDERING IRONS : 360℃ FOR 5 s.		×	
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3℃ 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.

Unless otherwise specified, refer to MIL-STD-1344.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
A.SUZUKAWA 05.03.24	K. Doi 05.03.25	K. Ozawa '05.03.25	K. Ozawa '05.03.25	

Note QT:Qualification Test AT:Assurance Test ×:Applicable Test

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

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