

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICATION STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C
	VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY : 95 % MAX (NO DEW CONDENSATION IS PERMITTED)
	CURRENT	0.3 A		

  

SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENT	QT	AT		
CONSTRUCTION						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	X	X		
MARKING	CONFIRMED VISUALLY.		X	X		
ELECTRICAL CHARACTERISTICS						
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	60 mΩ MAX.	X	X		
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	X	—		
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X		
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 72 N MAX. WITHDRAWAL FORCE: 3.0 N MIN.	X	—		
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTION.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—		
VIBRATION	FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.75 mm, — m/s <sup>2</sup> WITH 10 CYCLES IN 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—		
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		X	—		
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90~95 %, 96 h.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN.	X	—		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→-15→35→85→15→35 °C TIME 30→2~3→30→2~3 min. UNDER 5 CYCLES.	3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—		
DRY HEAT	EXPOSED AT 85 °C, 96 h.	1) CONTACT RESISTANCE: 70 mΩ MAX.	X	—		
COLD	EXPOSED AT -55 °C, 96 h.	2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	—		
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION.	X	—		
RESISTANCE TO SOLDERING HEAT	REFLOW RECOMMENDED TEMPERATURE PROFILE  TO BE TESTED UNDER THE ABOVE CONDITIONS	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	X	—		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	X	—		
REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
		J. Takada	J. Takada	M. Ishida	T. Takahashi	
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.		00.01.13	00.01.13	00.01.13	00.01.14	
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST						
HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. FX10A - 120S - SV(21)		
CODE NO. (OLD) CL		DRAWING NO. ELC4 - 151985 - 01		CODE NO. CL 570 - 0242 - 1 - 21		1/1