

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: 86.4 N MAX. WITHDRAWAL FORCE: 3.6 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 ² 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 ² 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.				
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. Sakai	T. Yoshimura		
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									
HS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. FX10B - 144S - SV(21)		
CODE NO.(OLD)		DRAWING NO.		CODE NO.		1		1	
CL		ELC4 - 151990 - 01		CL 570 - 0253 - 8 - 21					