

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
APPLICATION STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C			STORAGE TEMPERATURE RANGE	--- °C TO --- °C			
	VOLTAGE	125 V AC			OPERATING HUMIDITY RANGE	--- % TO --- %			
	CURRENT	0.5 A			APPLICABLE CABLE	AWG28			
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)			45 mΩ MAX.			X	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA (DC OR 1000 Hz)			55 mΩ MAX.			X	-
INSULATION RESISTANCE		250 V DC			100 MΩ MIN.			X	-
VOLTAGE PROOF		300 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN			X	-
MECHANICAL CHARACTERISTICS									
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (EXCEPT FOR THE PART OF LOCK)			INSERTION FORCE: 46N MAX. WITHDRAWAL FORCE 5.1N MIN.			X	X
MECHANICAL OPERATION		500 TIMES INSERTION AND EXTRACTATIONS.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	-
VIBRATION		FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.76 mm AT 2 h FOR 3 DIRECTIONS.			1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	-
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.						X	-
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.			X	-
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 PART.			X	-
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO HEAVY CORROSION.			X	-
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)						X	-
REMARKS									
				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
				<i>H. Kiriya</i>	<i>J. Watanabe</i>	<i>H. Okawa</i>	<i>J. Yamamoto</i>		
				00.10.14	00.10.14	00.10.14	00.10.16		
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.									
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST									
HS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. FX2B-52SA-1.27R		
CODE NO.(OLD)			DRAWING NO.		CODE NO.			1	
CL			ELC4-150613		CL 572 - 0624 - 0			1	

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