

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	0.4 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).			* 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: 120.0 N MAX. WITHDRAWAL FORCE: 10.0 N MIN.			X	—
MECHANICAL OPERATION		20 TIMES INSERTION AND EXTRACTION.			1)CONTACT RESISTANCE: * 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 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, 3 TIMES IN 3 DIRECTIONS.						X	—
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90~95 %, 96 h.			1)CONTACT RESISTANCE: * 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: * 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: * mΩ MAX. 2)NO HEAVY CORROSION.			X	—
RESISTANCE TO SOLDERING HEAT		REFLOW: RECOMMENDED TEMPERATURE PROFIL 25°C (60 S) 150°C 160°C 240°C 5 S MAX 200°C (60~90 S) (30 S) (20~30 S)			NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.			X	—
SOLDRABILITY		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	
*) PLEASE REFER TO THE COUNTER PART'S SPEC.FOR ITS CONTACT RESISTANCE.				J. Sakada	J. Sakada	M. Sakada	T. Yashima		
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.				00.08.24	00.08.24	00.08.24	00.08.24		
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST									
HS HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET			PART NO.		
							IT1 - 168S - SV		
CODE NO.(OLD)		DRAWING NO.		CODE NO.				1	
CL		ELC4 - 152893		CL 641 - 0002 - 0				1	