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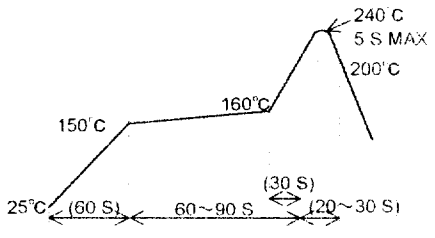
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					. .	△					. .
△					. .	△					. .

APPLICATION STANDARD

RATING	OPERATING TEMPERATURE RANGE	-55 ℃ TO 85 ℃	STORAGE TEMPERATURE RANGE	-10 ℃ TO 60 ℃
	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: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 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 ℃, 90~95 %, 96 h.	1)CONTACT RESISTANCE: 70 mΩ MAX. 2)INSULATION RESISTANCE: 100 MΩ MIN.	X	—
RAPID CHANGE OF TEMPERTURE	TEMPERTURE -55→15~35→ 85→15~35 ℃ 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 ℃. 96 h.	1)CONTACT RESISTANCE: 70 mΩ MAX. 2)NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—
COLD	EXPOSED AT -55 ℃. 96 h.			
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 PROFIL  TO BE TESTED UNDER THE ABOVE CONDITIONS	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	X	—
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 ℃ FOR IMMERSION DURATION, 2 s.	NO PINHOLE OR DEWETTING ON SOLDERE SURFACE.	X	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTERWISE SPECIFIED ,REFER TO JIS C 5402.	J. Takada 00.01.13	J Takada 00 01 13	M. Ishida 00.01.13	H.Yoshimura 00.01.13	

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST

HRS HIROSE ELECTRIC CO.,LTD.	SPECIFICATION SHEET	PART NO. FX10A - 168S - SV(21)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4 - 151987 - 01	CL 570 - 0244 - 7 - 21	1/1

FORM NO. 231-1

TO
PCK