

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

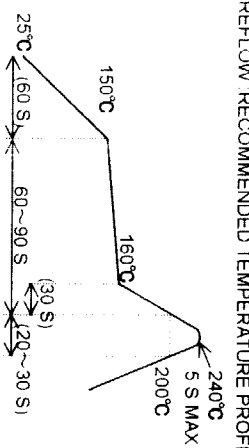
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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<b>APPLICATION STANDARD</b>			
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C
RATING VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE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

**SPECIFICATIONS**

ITEM	TEST METHOD	REQUIREMENT	Q	T	A
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING	X	X	X
MARKING	CONFIRMED VISUALLY.		X	X	X
<b>ELECTRICAL CHARACTERISTICS</b>					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	70 mΩ MAX	X	X	X
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN	X	X	X
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN	X	X	X
<b>MECHANICAL CHARACTERISTICS</b>					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 60 N MAX. WITHDRAWAL FORCE: 2.5 N MIN.	X	—	—
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTIONS.	1) CONTACT RESISTANCE: 80 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> AT 10 CYCLES FOR 3 DIRECTIONS. 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—	—
SHOCK			X	—	—

<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90~95 %, 96 h.	1) CONTACT RESISTANCE: 80 mΩ MAX 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55→-15→35→85→15→35°C TIME: 30→2~3→30→2~3 min. UNDER 5 CYCLES.		X	—	—
DRY HEAT	EXPOSED AT 85 °C, 96 h.	1) CONTACT RESISTANCE: 80 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	—	—
COLD	EXPOSED AT -55 °C, 96 h.		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: 80 mΩ MAX 2) NO HEAVY CORROSION.	X	—	—
RESISTANCE TO SOLDERING HEAT	REFLOW RECOMMENDED TEMPERATURE PROFILE	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	X	—	—



SOLDERABILITY	TO BE TESTED UNDER THE ABOVE CONDITIONS. SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	X	—	—
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REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
		<i>M. Sakurai</i>	<i>M. Sakurai</i>	<i>M. Sakurai</i>	<i>M. Sakurai</i>	
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.		09.01.15	09.01.15	09.01.17	09.01.17	
NOTE	QT. QUALIFICATION TEST AT ASSURANCE TEST	X: APPLICABLE TEST				

<b>HRS</b>	HIROSE ELECTRIC CO. LTD.	<b>SPECIFICATION SHEET</b>	PART NO.	<b>FX11B - 100S - SV</b>
CODE NO. (OLD)	DRAWING NO.	ELC4 - 152645 -	CODE NO.	CL 573 - 0753 - 0 -
CL				1 / 1

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