


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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT		
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾				
	VOLTAGE	50 V AC		OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % RH MAX. ⁽³⁾				
	CURRENT	0.3 A		STORAGE HUMIDITY RANGE	40 °C TO 70 °C ⁽²⁾				
SPECIFICATIONS									
ITEM	TEST METHOD			REQUIREMENTS			QT	AT	
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			X	X	
MARKING		CONFIRMED VISUALLY.					X	X	
ELECTRIC CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).		60 mΩ MAX.		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 INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		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: 70 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		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, 96h.		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
COLD		EXPOSED AT -55 °C, 96h.				X	—		
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION.		X	—		
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)				X	—		
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING: 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.		X	—		
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 240 °C, FOR IMMERSION DURATION, 3 s.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.		X	—		
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED		DATE			
△									
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. ⁽³⁾ NO DEW CONDENSATION IS PERMITTED. Unless otherwise specified, refer to JIS C 5402.									
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-151959-21					
 SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.		PART NO.		FX10B-168P-SV(91)					
		CODE NO.		CL570-0054-1-91					
		APPROVED		HS. OKAWA		07.07.17			
		CHECKED		HS. OZAWA		07.07.17			
DESIGNED		SY. KAMIIGA		07.07.17					
DRAWN		HK. SUWADORI		07.07.10					