

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		Q	AT
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>			
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %			
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>			
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD		REQUIREMENTS		Q	AT	
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X
GENERAL EXAMINATION		CONFIRMED VISUALLY.				X	X
<b>ELECTRIC CHARACTERISTICS</b>							
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.				X	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.				X	
<b>MECHANICAL CHARACTERISTICS</b>							
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRactions.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.76 mm, AT 2 h FOR 3 DIRECTION.					X	
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.					X	
LOCK STRENGTH	MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.		30 N MIN.			X	
LANCE STRENGTH	INSERT APPLICABLE CONTACT AND PULL CABLE.		4 N MIN.			X	
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 ~ 95 %, 96 h.		① INSULATION RESISTANCE: 500 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	
DRY HEAT	EXPOSED AT 85 °C, 96 h						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +5 ~ +35 → +85 → +5 ~ +35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.					X	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.				X	
SULFUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS-C-0090)					X	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
△							
<b>REMARKS</b> ① INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ② "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.							
Unless otherwise specified, refer to JIS-C-5402.		APPROVED	HS. OKAWA	06.11.13			
		CHECKED	HT. YAMAGUCHI	06.11.10			
		DESIGNED	KN. SHIBUYA	06.11.10			
		DRAWN	TH. KAMAI	06.11.08			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-155943-00				
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		FX15M-21P-C	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL575-2109-4-00	
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