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

APPLICABLE STANDARD					
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	95 % RH MAX. (NO DEW CONDENSATION IS PERMITTED)	
	CURRENT	0.3 A			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×	
MARKING	CONFIRMED VISUALLY.		×	×	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	60 mΩ MAX.	×	-	
INSULATION RESISTANCE	100 V DC	100 MΩ MIN.	×	-	
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 48 N MAX. WITHDRAWAL FORCE: 5.2 N MIN.	×	-	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		×	-	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 hrs.	① CONTACT RESISTANCE: 70 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	×	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 2~3 → 30 → 2~3 min. 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-	
DRY HEAT	EXPOSED AT 85 °C, 96 hrs.	① CONTACT RESISTANCE: 70 mΩ MAX.	×	-	
COLD	EXPOSED AT -55 °C, 96 hrs.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.	① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION.	×	-	
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 hrs. (TEST STANDARD: JIS C 0090)		×	-	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	×	-	
	2) SOLDERING IRONS : 360 °C, FOR 5 s		×	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 °C, FOR IMMERSION DURATION, 3 sec.	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	×	-	
	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.			APPROVED	HS. OKAWA	05.09.26
			CHECKED	HS. OZAWA	05.09.26
			DESIGNED	TH. NODA	05.09.25
Unless otherwise specified, refer to JIS C 5402.			DRAWN	TH. NODA	05.09.25
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELG4-151944-21
HRS	SPECIFICATION SHEET		PART NO.	FX10A-80P/8-SV (91)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0001-5-91	△ 1/1