

Jul.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 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 FORCE	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 60 N MAX. WITHDRAWAL FORCE: 6.5 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, WITH 10 CYCLES IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms, 3 TIMES IN 3 DIRECTIONS.			×	
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.	×	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 2 ~ 3 → 30 → 2 ~ 3 min. UNDER 5 CYCLES.			×	
DRY HEAT	EXPOSED AT 85 °C, 96h.		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
COLD	EXPOSED AT -55 °C, 96h.			×	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.	×	
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION.	×	
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 COMPORNENT.	×	
	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	05.09.03
			CHECKED	HS. OZAWA	05.09.02
			DESIGNED	TH. NODA	05.09.02
Unless otherwise specified, refer to JIS C 5402.			DRAWN	TH. NODA	05.09.02
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-151945-25
HRS	SPECIFICATION SHEET		PART NO.	FX10A-100P/10-SV (71)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0002-8-71	△ 1/1