

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>
	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
<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
<b>ELECTRIC CHARACTERISTICS</b>				
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.	×	×
<b>MECHANICAL CHARACTERISTICS</b>				
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 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, 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 <sup>2</sup> , DURATION OF PULSE 11 ms, 3 TIMES IN 3 DIRECTIONS.		×	
<b>ENVIRONMENTAL CHARACTERISTICS</b>				
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.	×	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 2 ~ 3 → 30 → 2 ~ 3 min. UNDER 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
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 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 <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED. <sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.		APPROVED	HS. OKAWA	06.04.18
		CHECKED	HS. OZAWA	06.04.18
		DESIGNED	KT.DOI	06.04.17
		DRAWN	KT.DOI	06.04.17
Unless otherwise specified, refer to JIS C 5402.				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-151971-25	
<b>HRS</b>	SPECIFICATION SHEET	PART NO.	FX10A-168P-SV1 (71)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL570-0144-2-71	△ 1/1