

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C to 85 °C ⁽¹⁾	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % MAX ⁽³⁾		
	VOLTAGE	50 V AC	STORAGE TEMPERATURE RANGE	-10 °C to 60 °C ⁽²⁾		
	CURRENT	0.3 A	STORAGE HUMIDITY RANGE	40 % to 70 % ⁽²⁾		
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 : 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 TO 10 Hz, SINGLE AMPLITUDE: 0.75 mm, 10 CYCLES FOR 3 AXIAL 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 AT 3 TIMES FOR 3 BOTH AXIAL DIRECTIONS.		×	—	
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN.	×	—	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE: -55 → +85 °C TIME : 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 TO 3 min)	3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
COLD		EXPOSED AT -55 °C, 96 h	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
DRY HEAT		EXPOSED AT +85 °C, 96 h		×	—	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO HEAVY CORROSION.	×	—	
SULFUR DIOXIDE		EXPOSED 10 ppm FOR 96 h. (TEST STANDARD: JIS C 60068)		×	—	
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING: PEAK TMP : 250 °C MAX REFLOW TMP: 220 °C MIN FOR 60sec 2) SOLDERING IRONS: 360 °C MAX FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	—	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE 240 °C FOR IMMERSION DURATION, 3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△						
REMARKS	(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.			APPROVED	NH. NAKATA	16.11.10
	(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.			CHECKED	HT. YAMAGUCHI	16.11.10
	(3) NON-CONDENSING.			DESIGNED	MT. ITANO	16.11.10
	Unless otherwise specified, refer to IEC-60512.			DRAWN	MT. ITANO	16.11.10
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC-330881-85-00	
HRS	SPECIFICATION SHEET		PART NO.	FX10A-168P-SV3 (85)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0304-7-85		
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