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 : 86.4 N MAX. WITHDRAWAL FORCE: 3.6 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. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: −55 → +85 °C TIME : 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER:WITHIN 2 TO 3 min)		×	—
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
△0					

REMARKS
(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.
(3) NON-CONDENSING.
Unless otherwise specified, refer to IEC-60512.

APPROVED	NH. NAKATA	17.05.17
CHECKED	HT. YAMAGUCHI	17.05.17
DESIGNED	MT. ITANO	17.05.17
DRAWN	MT. ITANO	17.05.17

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-362075-83-00

HRS	SPECIFICATION SHEET	PART NO.	FX10A-144P-SV4(83)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL570-0058-2-83	△0 1/1

FORM HD0011-2-1