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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	STORAGE TEMPERATURE RANGE	-40 °C TO 60 °C (1)
	VOLTAGE	50 V AC	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % RH MAX. (2)
	STORAGE HUMIDITY RANGE	40 % TO 70 % (1)		
	CURRENT	REFER TO FX10-168pin DERATING CURVES FROM TEST REPORTS TR570E-20587		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRM VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE [EIA-364-23]	100 mA and 20 mv OPEN CIRCUIT MAX.	60 mΩ MAX.	×	—
INSULATION RESISTANCE [EIA-364-21]	100 V DC.	100 MΩ MIN.	×	—
VOLTAGE PROOF [EIA-364-20]	150 V AC FOR 1 MINUTE.	NO FLASHOVER OR BREAKDOWN.	×	×
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED BY APPLICABLE CONNECTORS.	INSERTION FORCE: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 N MIN.	×	—
MECHANICAL OPERATION [EIA-364-09]	50 TIMES INSERTIONS AND EXTRACTION.	① CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RANDOM VIBRATION [EIA-364-28]	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G^2/Hz OVERALL rms G: 3.1 Grms FOR 15 MINUTES IN THREE DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	×	—
SHOCK [EIA-364-27]	490 m/s^2, DURATION OF PULSE: 11 ms 3 EACH DIRECTION, 3 AXIS.		×	—
ENVIRONMENTAL CHARACTERISTICS				
THERMAL SHOCK [EIA-364-32]	TEMPERATURE: -55 →15 ~ 35 → 85 →15 ~ 35 °C TIME: 30 → 5 → 30 → 5 min. UNDER 10 CYCLES	1) CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	×	—
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME UNDER 24 CYCLES.		×	—
DRY HEAT [EIA-364-17]	EXPOSED AT 105 °C, 1000 hr.		×	—
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30 °C, 70% Cl_2 : 10 ppb, NO_2 : 200 ppb, H_2S : 10 ppb, SO_2 : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS.	1) CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS 2) NO HEAVY CORROSION.	×	—
REFLOW TEMPERATURE CONDITION [IPC / JEDEC J-STD-020C]	REFLOW PEAK TEMPERATURE : 260 °C AT CONNETOR SURFACE.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⓪					

REMARK (1) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.
(2) NO DEW CONDENSATION IS PERMITTED.

APPROVED	HS. OKAWA	11.01.24
CHECKED	HT. YAMAGUCHI	11.01.21
DESIGNED	AH. EDASHIGE	11.01.21
DRAWN	AH. EDASHIGE	11.01.21

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

DRAWING NO. ELC4-151971-23

HRS	SPECIFICATION SHEET	PART NO.	FX10A-168P-SV1(83)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL570-0144-2-83 ⓪	1/1

FORM HD0011-2-1