

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾
	VOLTAGE	100 V AC		OPERATING HUMIDITY RANGE	40 % TO 80 %
	CURRENT	0.5 A		STORAGE HUMIDITY RANGE	60 % RH MAX ⁽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).		50 mΩ MAX.	× —
CONTACT RESISTANCE		20 mV MAX, 1 mA(DC OR 1000Hz)		60 mΩ MAX.	× —
MILLIVOLT LEVEL METHOD					× —
INSULATION RESISTANCE		250 V DC		100 MΩ MIN.	× —
VOLTAGE PROOF		300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	× —
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× —
VIBRATION		FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52mm, 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 FOR 3 TIMES IN 3 DIRECTIONS.			× —
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 hrs.		① CONTACT RESISTANCE: 60 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 5 CYCLES.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× —
DRY HEAT		EXPOSED AT 85 °C, 96 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART	× —
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	× —
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 hrs. (TEST STANDARD: JEIDA 39)			× —
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING : 240 °C MAX, : 200 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	× — × —
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
△					
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	06.10.04
			CHECKED	HS. OZAWA	06.10.04
			DESIGNED	KT. DOI	06.10.03
Unless otherwise specified, refer to JIS C 5402			DRAWN	KT. DOI	06.10.03
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-151389-21
HRS	SPECIFICATION SHEET		PART NO.	FX5-52P-SH3 (71)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-0046-5-71	△ 1/1