

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 105 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾	
	VOLTAGE	250 V AC/DC	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	
	CURRENT	10A	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 85% max (NOT DEWED)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	x	x
MARKING	CONFIRMED VISUALLY.			x	x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	10 mA(DC OR 1000Hz)		2 mΩ MAX.	x	—
INSULATION RESISTANCE	250 V DC.		1000 MΩ MIN.	x	—
VOLTAGE PROOF	750 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	—
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 20 N MAX. WITHDRAWAL FORCE: 0.8 N MIN.	x	—
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
VIBRATION	FREQUENCY 10 TO 55 TO 10Hz, APPROX 5min SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			x	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 ±4h.		① CONTACT RESISTANCE: 5mΩ MAX.	x	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +105 °C TIME 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2~3 MIN)		② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
DRY HEAT	EXPOSED AT 105±2°C FOR 96±4 h.		① CONTACT RESISTANCE: 5mΩ MAX.	x	—
COLD	EXPOSED AT -55±2°C FOR 96±4 h.		② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	x	—
SULFUR DIOXIDE	EXPOSED AT 25±2°C, 75±5%RH, 25 PPM FOR 96±4 h.			x	—
RESISTANCE TO SOLDERING HEAT	SOLDER BATH : SOLDER TEMPERATURE, 260±5°C FOR IMMERSION,DURATION,10±1s. SOLDERING IRONS : 360°C MAX. FOR 5 sec.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	x	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARKS ⁽¹⁾ INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ⁽²⁾ *STORAGE* MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.			APPROVED	HS. OKAWA	12. 06. 13
			CHECKED	KI. HIROKAWA	12. 06. 13
			DESIGNED	DK. AIMOTO	12. 06. 12
			DRAWN	DK. AIMOTO	12. 06. 12
Unless otherwise specified, refer to JIS-C-5402,IEC60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-341814-00	
	SPECIFICATION SHEET		PART NO.	FX30A-4P-3. 81DSA20	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-2102-3-00	1/1