

In case of consideration for using Autom otive equipm ent/device which dem and high re liability, kindly contact our sales w indow correspondents.

TO	
PCK	

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
		-55 °C TO 85 °C ⁽¹⁾		-10 °C TO 60 °C ⁽²⁾	
RATING		VOLTAGE		OPERATING HUMIDITY RANGE	
		125 V AC		40 % TO 80 %	
CURRENT		0.5 A		STORAGE HUMIDITY RANGE	
				40 % TO 70 % ⁽²⁾	

SPECIFICATIONS

ITEM

TEST METHOD

REQUIREMENTS

QT AT

CONSTRUCTION	TEST METHOD	REQUIREMENTS	QT	AT
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	45 mΩ MAX.	×	
MILLIVOLT LEVEL	20 mV MAX, 1 mA(DC OR 1000Hz)	55 mΩ MAX.	×	
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: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
SHOCK	490 ms ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		×	

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °c, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	×	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: 55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min UNDER 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.	×	
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)		×	
RESISTANCE TO SOLDERING HEAT	1) SOLDER BATH: SOLDER TEMPERATURE, 260 ± 5 °C. FOR IMMERSION DURATION, 10 ± 1 s. 2) SOLDERING IRONS : 360 °C FOR 5 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240 ± 3 °C FOR IMMERSION DURATION, 2s.	A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	×	

REMARKS

1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.

Unless otherwise specified, refer to MIL-STD-1344.

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

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
I. OKAYAMA	K. NAKAMURA	<i>H. Okawa</i>	<i>H. Okawa</i>	
04.06.09	04.06.09	04.06.09	04.06.09	

HRS HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

PART NO.

FX2C1-**-P-1, 27DSA (71)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4 - 083047-21	CL 572	1/1

