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

APPLICATION STANDARD

RATING	OPERATING TEMPERATURE RANGE	-55 ℃ TO +85 ℃	STORAGE TEMPERATURE RANGE	--- ℃ TO --- ℃
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	--- % TO --- %
	CURRENT	0.5 A	APPLICABLE CABLE	AWG# 2 8

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENT	QT	AT
CONSTRUCTION				
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.	○	–
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA (DC OR 1000 Hz)	55 mΩ MAX.	○	–
INSULATION RESISTANCE	250 V DC	100 MΩ MIN.	○	–
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN	○	–
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE: N MAX. EXTRACTION FORCE: N MIN.	–	–
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. (IN THE UNLOCKED STATE)	INSERTION FORCE: 35 N MAX. WITHDRAWAL FORCE 3.9 N MIN.	○	–
MECHANICAL OPERATION	500 TIMES INSERTION AND EXTRACTIONS.	1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	○	–
VIBRATION	FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.76 mm, - m/s^2 FOR 2 h IN 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) CONTACT RESISTANCE: -- mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	○	–
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		○	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ℃, 90～95 %, 96 h.	1) CONTACT RESISTANCE: 55 mΩ MAX. 2)INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	○	–
RAPID CHAGE OF TEMPERTURE	TEMPERTURE-55→15～35→ 85→15～35℃ TIME 30→10～15 → 30 →10～15 min. UNDER 5 CYCLES.			
DAMP HEAT,CYCLIC	EXPOSED AT TO ℃, TO %,TOTAL CYCLES(h).	1) CONTACT RESISTANCE: mΩ MAX. 2)INSULATION RESISTANCE: MΩ MIN.(AT HIGH HUMIDITY) 3)INSULATION RESISTANCE: MΩ MIN.(AT DRY) 4) NO DAMAGE, CRACK AND LOOSENESS OF PART.	–	–
DRY HEAT	EXPOSED AT ℃, h.	1) CONTACT RESISTANCE: mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	–	–
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)		○	–
SULPHUR DIOXIDE	EXPOSED IN PPM FOR h. (TEST STANDARD:JEIDA-39)		–	–
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, FOR IMMERSION,DURATION, s.(MIL-STD-202)	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	–	–
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE, ℃ FOR IMMERSION DURATION, s.(MIL_STD_202)	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	–	–

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.	J. Takada '97. 5. 9	J. Takada '97. 5. 9	H. Okawa 97.05.09	M. Yamaguchi 97.05.09	

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST ○: APPLICABLE TEST

HRS HIROSE ELECTRIC CO.,LTD. SPECIFICATION SHEET PART NO. FX2B-40SA-1.27R

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4- 150612	CL 572 - 0623 - 8	1 1

FORM NO. 231-1

TO
PCM