

May.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
APPLICATION STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C			STORAGE TEMPERATURE RANGE	-- °C TO -- °C			
	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: 71 N MAX.		○	-	
					WITHDRAWAL FORCE 7.8 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.				
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			3) NO DAMAGE, CRACK AND LOOSENESS OF PART.		○	-	
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90~95 %, 96 h.			1) CONTACT RESISTANCE: 55 mΩ MAX.		○	-	
					2) INSULATION RESISTANCE: 100 MΩ MIN.				
RAPID CHAGE OF TEMPERTURE		TEMPERTURE-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 PART.		○	-	
DAMP HEAT,CYCLIC		EXPOSED AT TO °C, 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 °C, 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, °C 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	
				J. Takada	J. Takada	H. Okawa	M. Yamaguchi		
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.				97.7.3	97.7.3	97.07.03	97.07.04		
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST									
HRS HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET			PART NO. FX2BA-80SA-1.27R		
CODE NO.(OLD)		DRAWING NO.		CODE NO.				1	
CL		ELC4- 150664		CL 572 - 0677 - 7				1	

TO
PCM
USA

