

Aug. 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.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	OPERATING HUMIDITY RANGE	40 TO 80 % MAX <sup>(3)</sup>	
	VOLTAGE	100 V AC	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>	
	CURRENT	0.4 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×	
MARKING	CONFIRMED VISUALLY.		×	×	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz)	45 mΩ MAX .	×	—	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA (DC or 1000Hz)	55 mΩ MAX.	×	—	
INSULATION RESISTANCE	250 V DC.	100 MΩ MIN.	×	—	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×	
<b>MECHANICAL CHARACTERISTICS</b>					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 84.0 N MAX. WITHDRAWAL FORCE: 7.8 N MIN.	×	—	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, SINGLE AMPLITUDE: 0.75 mm, AT 2 h FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) CONTACT RESISTANCE: 55 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 BOTH AXIAL DIRECTIONS.		×	—	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	1) CONTACT RESISTANCE : 55 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +85 °C TIME : 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 TO 3 min)		×	—	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE : 55 mΩ MAX. 2) NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	×	—	
HYDROGEN SULPHIDE	EXPOSED 3 ppm FOR 96 h. (TEST STANDARD: JEIDA-38)		×	—	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP : 250 °C MAX REFLOW TMP: 220 °C MIN FOR 60sec 2) SOLDERING IRONS: 360 °C MAX FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	—	
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.	×	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARKS	(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. (3) NON-CONDENSING. Unless otherwise specified, refer to IEC-60512.		APPROVED	NH. NAKATA	18.02.28
			CHECKED	HT. YAMAGUCHI	18.02.28
			DESIGNED	TY. EDAGAWA	18.02.28
			DRAWN	MK. INOUE	18.02.23
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-150884-68-00
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FX8C-120S-SV (68)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL578-0806-6-68	△ 1/1