

Jun.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 ⁽¹⁾		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾	
	VOLTAGE	100 V AC		STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	
	CURRENT	0.5 A (SIGNAL CONTACT) ⁽³⁾ 3 A (MF CONTACT)		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	100 mA(DC OR 1000Hz)		SIGNAL CONTACT : 90 mΩ MAX. MF CONTACT : 30 mΩ MAX.		x	—
INSULATION RESISTANCE	250 V DC.		1000 MΩ MIN.		x	—
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		x	—
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 50 N MAX. WITHDRAWAL FORCE: 5 N MIN.		x	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 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 h.		① CONTACT RESISTANCE: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 mΩ MAX.		x	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85 °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	—
SULFUR DIOXIDE	EXPOSED AT 25±2°C, 75±5%RH, 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		NO HEAVY CORROSION.		x	—
RESISTANCE TO SOLDERING HEAT	1)REFLOW SOLDERING : PEAK TMP : 260°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.		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	—
REVISIONS						
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. ⁽³⁾ THE RATED CURRENT APPLIES TO PER CONTACT.			APPROVED	HS. OKAWA	11.08.30	
			CHECKED	KI. HIROKAWA	11.08.30	
			DESIGNED	TH. SAN0	11.08.30	
Unless otherwise specified, refer to JIS-C-5402.			DRAWN	TH. SAN0	11.08.30	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-334392-00	
		SPECIFICATION SHEET		PART NO. FX18-80S-0.8SV20		
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL579-0032-6-00	1/1	