

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.			
MARKING		CONFIRMED VISUALLY. X 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: 40 N MAX. WITHDRAWAL FORCE: 4 N MIN.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRactions.		① CONTACT RESISTANCE: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 mΩ MAX.	X	-
			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		
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.	X	-
SHOCK	490 ms ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	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.	X	-
SULFUR DIOXIDE	EXPOSED AT 25±2°C, 75±5%RH, 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	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	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
REMARKS	△ 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.				
	Unless otherwise specified, refer to JIS-C-5402.				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-334391-00		
HRS	SPECIFICATION SHEET	PART NO.	FX18-60S-0.8SV20		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL579-0031-3-00		
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