

In case of consideration for using Autom otive equipm ent/device which dem and high rel ability, kindly contactour sales w indow correspondents.

APPLICABLE STANDARD			
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: 70 N MAX. WITHDRAWAL FORCE: 7 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 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. 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	-

Δ	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. APPLY 0.4A WHEN ALL THE CONTACTS ARE USED FOR CURRENT CARRYING. Unless otherwise specified, refer to JIS-C-5402.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELG4-349391-00

HRS		PART NO.	FX18-120S-0.8SV10
SPECIFICATION SHEET		CODE NO.	CL579-0059-2-00
HIROSE ELECTRIC CO., LTD.			
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