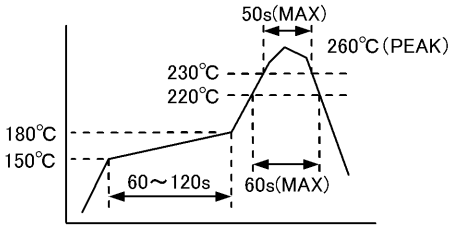
APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (2)
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % (2)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	60 mΩ MAX. (3)	×	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	×	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 18.6 N MAX. WITHDRAWAL FORCE: 1.55 N MIN.	×	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 80 mΩ MAX.(3) ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.76 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
SHOCK	490 m/s², DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		×	
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ～ 95 %, 96 h.	① CONTACT RESISTANCE: 80 mΩ MAX.(3) ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
DRY HEAT	EXPOSED AT 85±2 °C, 96 h			
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+5～+35→+85→+5～+35°C TIME 30→ 5 MAX→ 30→ 5 MAX min. UNDER 5 CYCLES.		×	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 80 mΩ MAX.(3) ② NO HEAVY CORROSION.	×	
SULFUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS-C-0090)		×	
RESISTANCE TO SOLDERING HEAT	1)REFLOW SOLDERING : REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW.  	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
	2) SOLDERING IRONS : 360℃ MAX. FOR 5 sec.		×	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3℃ 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
⚠0					

REMARKS (1) INCLUDE TEMPRERATURE RISE CAUSED BY CURRENT-CARRYING.
(2) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.
(3) INCLUDE CONDUCTOR RESISTANCE OF CABLE IN CASE THE MATED CONNECTOR IS CABLE TYPE.(L=12mm)

Unless otherwise specified, refer to JIS-C-5402.

APPROVED	HS. OKAWA	05. 08. 05
CHECKED	HT. YAMAGUCHI	05. 08. 05
DESIGNED	KN. SHIBUYA	05. 08. 05
DRAWN	KN. SHIBUYA	05. 08. 05

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-155934-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. FX15S-31S-0.5SH

CODE NO. CL575-2306-5-00 ⚠0

FORM HD0011-2-1