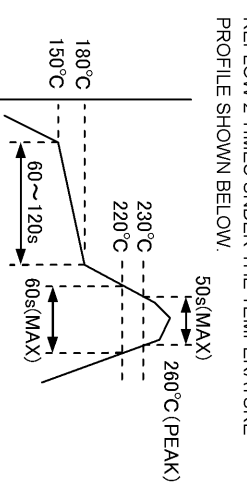


In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C <sup>(3)</sup>		
OPERATING TEMPERATURE RANGE		-55 °C TO 85 °C <sup>(1)(2)</sup>		STORAGE HUMIDITY RANGE		
OPERATING HUMIDITY RANGE		RH 85 % MAX <sup>(2)(4)</sup>		RH 70 % MAX <sup>(3)(4)</sup>		
VOLTAGE		60 V AC		CURRENT		
				0.5 A		
<b>SPECIFICATIONS</b>						
ITEM	TEST METHOD	REQUIREMENTS		QT	AT	
GENERAL EXAMINATION		ACCORDING TO DRAWING.		X	X	
MARKING	CONFIRMED VISUALLY.			X	X	
<b>ELECTRIC CHARACTERISTICS</b>						
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	80 mΩ MAX <sup>(5)</sup>		X		
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.		X		
VOLTAGE PROOF	200 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X		
<b>MECHANICAL CHARACTERISTICS</b>						
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE: 15.5 N MAX WITHDRAWAL FORCE: 1.55 N MIN.		X		
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPITUDE : 0.75 mm, FOR 2 h IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X		
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.			X		
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.		X		
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +5~+35 → +85 → +5~+35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.		X		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	② NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.		X		
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)	① NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DERECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.		X		
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.		X		
SOLDERABILITY	2) SOLDERING IRONS : 360°C MAX. FOR 5 sec. 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 IMMERSERD.		X		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△						
<b>REMARKS</b>						
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.						
(2) OPERATING TEMPERATURE SHOULD BE 55 TO 40°C WHEN HUMIDITY EXCEEDS 80% RH.						
(3) *STORAGE* MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.						
(4) THERE MUST NOT BE DEWFALL.						
(5) DON'T INCLUDE CONDUCTOR RESISTANCE OF THE CABLE OF THE COMBINATION CONNECTOR.						
Unless otherwise specified, refer to JIS-C-5402.						
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-157330-02			
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	FX16-31S-0.5SV (30)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	GL575-3402-4-30	
				APPROVED	HS. OKAWA	11.09.15
				CHECKED	HT. YAMAGUCHI	11.09.15
		DESIGNED	TS. MIYAKI	11.09.15		
		DRAWN	TS. MIYAKI	11.09.15		