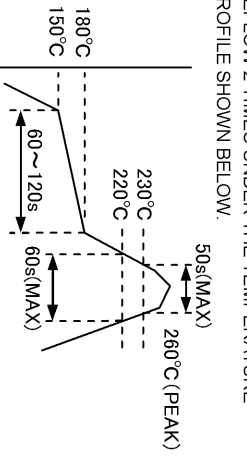


In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD				STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C (3)	
△	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)(2)		STORAGE HUMIDITY RANGE		RH 70 % MAX (3)(4)	
	OPERATING HUMIDITY RANGE	RH 85 % MAX (2)(4)		CURRENT		0.5 A	
SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS		QT	AT		
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING	CONFIRMED VISUALLY.					X X	
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	80 mΩ MAX (5)		X		X	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.		X		X	
VOLTAGE PROOF	200 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X		X	
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE: 15.5 N MAX WITHDRAWAL FORCE: 1.55 N MIN.		X		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		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		X	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.			X		X	
ENVIRONMENTAL CHARACTERISTICS							
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		X	
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.			X		X	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +5~+35 → +85 → +5~+35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.	② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X		X	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.		X		X	
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)	② NO DERECTION SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.		X		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		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		X	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
△	2	DIS-F-004353	KN, SHI BUYA	HT, YAMAUCHI	09.12.15		
REMARKS							
(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 DEWFAUL.							
(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.		ELC4-157330-00			
HRS		SPECIFICATION SHEET		PART NO.		FX16-31S-0.5SV	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL575-3402-4-00	
						△ 1/1	