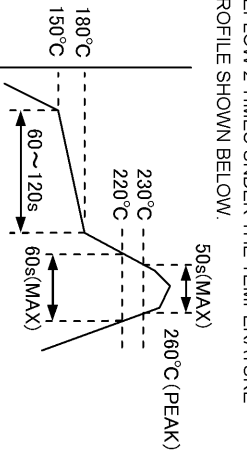


In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
		-55 °C TO 85 °C (1)(2)		-10 °C TO 60 °C (3)	
RATING		OPERATING HUMIDITY RANGE		STORAGE HUMIDITY RANGE	
		RH 85 % MAX (2)(4)		RH 70 % MAX (3)(4)	
VOLTAGE		60 V AC		CURRENT	
				0.5 A	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS		QT	AT
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
GENERAL EXAMINATION		CONFIRMED VISUALLY.		X X X	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		20 mV MAX, 1 mA(DC OR 1000Hz)		80 mΩ MAX (5)	
INSULATION RESISTANCE		100 V DC.		500 MΩ MIN.	
VOLTAGE PROOF		200 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR		INSERTION FORCE: 20.5 N MAX WITHDRAWAL FORCE: 2.05 N MIN.	
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.	
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.	
SHOCK		490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		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.	
DRY HEAT		EXPOSED AT 85±2 °C, 96 h		② INSULATION RESISTANCE: 500 MΩ MIN.	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → +5~+35 → +85 → +5~+35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	
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.	
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.	
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.	
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.	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△					
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 DEWFAILL.					
(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.		ELC4-330630-01	
SPECIFICATION SHEET		PART NO.	FX16M2-41S-0.5SH (30)		
HIROSE ELECTRIC CO., LTD.		CODE NO.	QL575-3003-9-30		△
					1/1
APPROVED		HS. OKAWA		11.11.02	
CHECKED		HT. YAMAGUCHI		11.11.02	
DESIGNED		Y.J. ASAO		11.11.02	
DRAWN		OR. TAKESHIIMA		11.11.02	