

May.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

△	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	△	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△	1	RE-F-06478	J.M	M.S	99.7.29	△					
△						△					
APPLICATION STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-55 °C TO 85 °C			STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C			
	VOLTAGE		AC 50 V			OPERATING HUMIDITY RANGE		RELATIVE HUMIDITY 95 % MAX (NO DEW CONDENSATION IS PERMITTED)			
	CURRENT		0.3 A								
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENT				QT	AT
CONSTRUCTION											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING				○	○
MARKING		CONFIRMED VISUALLY.								○	○
ELECTRICAL CHARACTERISTICS											
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).				60 mΩ MAX.				○	○
INSULATION RESISTANCE		100 V DC.				100 MΩ MIN.				○	-
VOLTAGE PROOF		150 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				○	○
MECHANICAL CHARACTERISTICS											
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.				INSERTION FORCE: 84 N MAX WITHDRAWAL FORCE: 3.5 N MIN.				○	-
MECHANICAL OPERATION		50 TIMES INSERTION AND EXTRACTIONS				1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.				○	-
VIBRATION		FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.75 mm, -- m/s ² AT 10 CYCLES FOR 3 DIRECTIONS.				1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.				○	-
SHOCK		490 m/s ² 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: 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN.				○	-
RAPID CHAGE OF TEMPERTURE		TEMPERTURE -55→15~35→ 85→15~35°C TIME 30→ 2~ 3→ 30→ 2~ 3 min. UNDER 5 CYCLES.				3) NO DAMAGE, CRACK AND LOOSENESS OF PART.				○	-
DRY HEAT		EXPOSED AT 85 °C, 96 h.				1) CONTACT RESISTANCE: 70 mΩ MAX.				○	-
COLD		EXPOSED AT -55 °C, 96 h.				2) NO DAMAGE, CRACK AND LOOSENESS OF PART.					
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				NO HEAVY CORROSION.				○	-
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)				1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION.				○	-
RESISTANCE TO SOLDERING HEAT		REFLOW : RECOMMENDED TEMPERATURE PROFILE 25°C (60 S) 150°C 160°C (30 S) 200°C 240°C 5 S MAX (20~30 S) TO BE TESTED UNDER THE ABOVE CONDITIONS				NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.				○	-
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.				NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.				○	-
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					S.Kitajima 99.05.25	J. Matsukawa 99.05.25	M.Ishida 99.05.26	Y.Yoshimura 99.05.27			
UNLESS OTERWISE SPECIFIED ,REFER TO JIS C 5402.											
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST ○ APPLICABLE TEST											
HRS HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET				PART NO FX11LA - 140P - SV			
CODE NO.(OLD) CL			DRAWING NO. ELC4 - 152103 -			CODE NO. CL 573 - 0045 - 0			1 1		

TO
PCK


