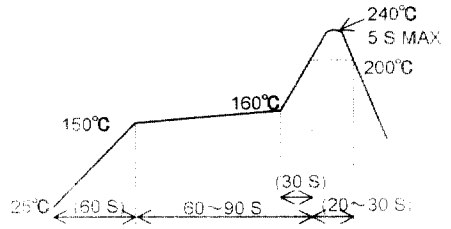
Feb.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	1	RE-F-06478	J.M	m.f	99.7.29						

APPLICATION STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 ℃ TO 85 ℃	STORAGE TEMPERATURE RANGE	-10 ℃ TO 60 ℃
	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	O	O
MARKING	CONFIRMED VISUALLY.		O	O
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	60 mΩ MAX.	O	O
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	O	—
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	O	O
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 84 N MAX. WITHDRAWAL FORCE: 3.5 N MIN.	O	—
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTIONS.	1)CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART	O	—
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.	O	—
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		O	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 ℃, 90~95 %, 96 h.	1)CONTACT RESISTANCE: 70 mΩ MAX. 2)INSULATION RESISTANCE: 100 MΩ MIN.	O	—
RAPID CHAGE OF TEMPERTURE	TEMPERTURE -55→15~35→ 85→15~35℃ TIME 30→ 2~ 3→ 30→ 2~ 3 min. UNDER 5 CYCLES.	3)NO DAMAGE, CRACK AND LOOSENESS OF PART	O	—
DRY HEAT	EXPOSED AT 85 ℃, 96 h.	1)CONTACT RESISTANCE: 70 mΩ MAX.		
COLD	EXPOSED AT -55 ℃, 96 h.	2)NO DAMAGE, CRACK AND LOOSENESS OF PART.	O	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	O	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JIS C 0090)	1)CONTACT RESISTANCE: 70 mΩ MAX. 2)NO HEAVY CORROSION.	O	—
RESISTANCE TO SOLDERING HEAT	REFLOW :RECOMMENDED TEMPERATURE PROFILE  TO BE TESTED UNDER THE ABOVE CONDITIONS	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	O	—
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE. 235 ℃ FOR IMMERSION DURATION. 2 s.	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	O	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTERWISE SPECIFIED, REFER TO JIS C 5402.	S.Kitajima 99.05.25	J. Matsukawa 99.05.25	M.Ishida 99.05.26	Y.Yoshimura 99.05.27	

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE ELECTRIC CO. LTD.	SPECIFICATION SHEET	PART NO. FX11LB - 140P - SV

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4 - 152107 -	CL 573 - 0055 - 3	1/1

FORM NO. 231-1

TO PCK