



**THE DATASHEET OF
FI40B-2015S(50)**



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

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55°C TO +85°C	STORAGE TEMPERATURE RANGE	-55°C TO +85°C
	VOLTAGE	250VAC	OPERATING HUMIDITY RANGE	- % TO - %
	CURRENT	1A	APPLICABLE CABLE	—
SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	10 mA MAX (DC OR 1000 Hz).	80 mΩ MAX.	X	X
INSULATION RESISTANCE	250 V DC.	1000 MΩ MIN.	X	X
VOLTAGE PROOF	500 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 45 N MAX. EXTRACTION FARCE 15 N MAX.	X	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 80 mΩMAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, AT 3TIMES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 20μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS	X	—
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	3)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT,CYCLIC (STEADY STATE)	EXPOSED AT +85 85 % 1000h	1) INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY)	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 →5-35→ +85 → 5-35 °C TIME 30 → 2-3→ 30 → 2-3 min. UNDER 10 CYCLES.	2) INSULATION RESISTANCE: 1000 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1)CONTACT RESISTANCE :80mΩ MAX.	X	—
HYDORGEN SULPHIDE	EXPOSED IN 10 PPM FOR 96 h (TEST STANDARD : JEIDA-38)	2)NO HEAVY CORROSION.		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0				
REMARK		APPROVED	HO. MIWA	05.09.06
		CHECKED	HO. MIWA	05.09.06
		DESIGNED	YH. ENAMI	05.09.06
Unless otherwise specified, refer to JIS C 5402.		DRAWN	YH. ENAMI	05.09.06
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-120646-01	
HRS	SPECIFICATION SHEET	PART NO.	F140B-2015S (50)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL230-0524-0-50	△ 1/1

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