

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.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	- °C TO - °C	
	VOLTAGE	250 V AC	OPERATING HUMIDITY RANGE	- % TO - %	
	CURRENT	1 A	APPLICABLE CABLE	-	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	<input type="radio"/>	<input type="radio"/>
MARKING	CONFIRMED VISUALLY.			<input type="radio"/>	<input type="radio"/>
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	10 mA (DC OR 1000 Hz).		70 mΩ MAX.	<input type="radio"/>	<input type="radio"/>
INSULATION RESISTANCE	250 V DC.		1000 MΩ MIN.	<input type="radio"/>	<input type="radio"/>
VOLTAGE PROOF	500 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	<input type="radio"/>	<input type="radio"/>
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 78.4 N MAX. EXTRACTION FORCE 19.6 N MIN.	<input type="radio"/>	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	-
VIBRATION	FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, AT 3h FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) CONTACT RESISTANCE: 70 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	-
SHOCK	490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.			<input type="radio"/>	-
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → 5~35 → 105 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 10 CYCLES.		1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION.	<input type="radio"/>	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK			APPROVED	HO.MIWA	05.12.16
			CHECKED	YH.ENAMI	05.12.16
			DESIGNED	TU.TANIGUCHI	05.12.16
			DRAWN	MT.ITANO	05.12.15
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-120440-01	
	SPECIFICATION SHEET		PART NO.	FI40B-20S (50)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL230-0518-7-50	1/1