

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		- °C TO - °C	
RATING		VOLTAGE		OPERATING HUMIDITY RANGE		- % TO - %	
CURRENT		1 A		APPLICABLE CABLE		-	
SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS		QT	AT		
CONSTRUCTION				GENERAL EXAMINATION			
VISUALLY AND BY MEASURING INSTRUMENT.		CONFIRMED VISUALLY.		ACCORDING TO DRAWING.			
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	10 mA (DC OR 1000 Hz)	70 mΩ MAX.		○	○		
INSULATION RESISTANCE	250 V DC.	1000 MΩ MIN.		○	○		
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		○	○		
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 78.4 N MAX. EXTRACTION FORCE 19.6 N MIN.		○	-		
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTATIONS.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE; CRACK AND LOOSENESS OF PARTS.		○	-		
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.		○	-		
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.			○	-		
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.		○	-		
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION.		○	-		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
Δ							
REMARK							
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.				APPROVED			
				HO.MIWA			
				CHECKED			
				YH.ENAMI			
				DESIGNED			
				TU.TANIGUCHI			
				DRAWN			
				MT. ITANO			
				05.12.16			
				05.12.16			
				05.12.16			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test							
DRAWING NO.		ELC4-120440-01					
HRS				HIROSE ELECTRIC CO., LTD.			
SPECIFICATION SHEET		PART NO.		F140B-20S (50)			
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL230-0518-7-50		Δ 1/1	