

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT			
RATING	OPERATING TEMPERATURE RANGE	-35°C TO 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C						
	VOLTAGE	30V AC/DC	APPLICABLE CONNECTOR	BM20*(0.8)-20DS-0.4V (**)						
	CURRENT	0.3A								
SPECIFICATIONS										
ITEM	TEST METHOD			REQUIREMENTS						
CONSTRUCTION				GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.	X	X
MARKING				CONFIRMED VISUALLY.				X	X	
ELECTRIC CHARACTERISTICS										
CONTACT RESISTANCE	20mV AC OR LESS 1KHz, 1m A.			100mΩ MAX.		X	-			
INSULATION RESISTANCE	100V DC.			50MΩ MIN.		X	-			
VOLTAGE PROOF	100V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.		X	-			
MECHANICAL CHARACTERISTICS										
MECHANICAL OPERATION				10TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-	
VIBRATION				FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 100CYCLES, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-	
SHOCK				490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-	
ENVIRONMENTAL CHARACTERISTICS										
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → +85°C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2-3 min)		① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-			
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-			
SULPHUR DIOXIDE		EXPOSED IN 25 PPM FOR 96h, 25°C, 75%. (REFER TO JIS C 60068)		① CONTACT RESISTANCE: 100mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.		X	-			
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE						
△										
REMARKS										
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT										
Unless otherwise specified, refer to JIS C 5402 and IEC 60512.										
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-332308-01						
HRS		SPECIFICATION SHEET		PART NO.		BM20B (0.8)-20DP-0.4V (51)				
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL684-9002-8-51				
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