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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	\triangle_3 -55°C to 85°C (Note 1)	Storage Temperature Range	-10°C TO 60°C	
	Voltage	\triangle_3 50V AC/DC			
	Current	Signal contact : 0.3A Power contact : 2.0A			
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
General Examination	Visually and by measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.		According to drawing.	X	X
ELECTRIC CHARACTERISTICS					
Contact Resistance	20mV AC or less 1kHz,1m A .		Signal contact resistance: 50 mΩ MAX. Power contact resistance: 20 mΩ MAX. \triangle_3	X	-
Insulation Resistance	100V DC.		1000 MΩ MIN.	X	-
Voltage Proof	150V AC for 1 min.		No flashover or breakdown.	X	-
MECHANICAL CHARACTERISTICS					
Mechanical Operation	30times insertions and extractions. \triangle_3		① Signal contact resistance: 50 mΩ MAX. \triangle_3 Power contact resistance: 20 mΩ MAX. ② No damage, crack or looseness of parts.	X	-
Vibration	Frequency 10 to 55 Hz, approx 5min, Single amplitude 0.75 mm, 10cycles, 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 Signal contact resistance: 50 mΩ MAX. \triangle_3 Power contact resistance: 20 mΩ MAX. ② Insulation resistance: 1000MΩ 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 Signal contact resistance: 50 mΩ MAX. \triangle_3 Power contact resistance: 20 mΩ MAX. ② Insulation resistance: 100MΩ 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)		Signal contact resistance: 50 mΩ MAX. Power contact resistance: 20 mΩ MAX. \triangle_3	X	-
REVISIONS					
\triangle_3	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	8	DIS-H-00019811	RT. SHIMIZU	TY. 001	20240122
REMARKS			APPROVED	TY. 001	20230818
Note1: Include the temperature rising by current			CHECKED	RT. SHIMIZU	20230817
Unless otherwise specified, refer to JIS C 5402 and IEC 60512.			DESIGNED	RT. OSAKI	20230817
			DRAWN	RT. OSAKI	20230817
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-394481-53-00
HRS	SPECIFICATION SHEET		PART NO.	BM29B-12DP/2-0. 35V (53)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0673-7081-0-53	\triangle_3 1/1