

APPLICABLE STANDARD					
RATING	Operating Temperature Range	-55°C to 85°C (Note 1)	Storage Temperature Range	-10°C TO 60°C	
	Voltage	60V AC/DC			
	Current	Signal contact : 0.3A Power contact : 15A			
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: 30 mΩ MAX. Power contact resistance: 5mΩ MAX	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	10times insertions and extractions.		① Signal contact resistance: 30 mΩ MAX Power contact resistance: 5 mΩ 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,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: 30 mΩ MAX Power contact resistance 5mΩ 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: 30 mΩ MAX. Power contact resistance 5mΩ MAX. ② Insulation resistance: 1000MΩ MIN. ③ No damage, crack or looseness of parts.	X	—
Sulfur Dioxide	Exposed in 25 PPM for 96h, 25°C, 75%. (Refer to IEC 60068-2-42 Test Kc)		① Signal contact resistance: 30 mΩ MAX Power contact resistance 5mΩ MAX	X	—
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△					
REMARKS			APPROVED	WR. FUKUCHI	20211213
Note1: Include the temperature rising by current			CHECKED	RT. SHIMIZU	20211213
Unless otherwise specified, refer to IEC 60512.			DESIGNED	TY. MORISHITA	20211213
			DRAWN	TY. MORISHITA	20211213
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-386796-53-00	
HRS	SPECIFICATION SHEET		PART NO.	BM50U-4DP/2-0. 35V (53)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0677-0197-0-53	△ 1/1