APPLICABLE STANDARD				
RATING	Operating Temperature Range	-55°C to 85°C (Note 1)	Storage Temperature Range	-10°C TO 60°C
	Voltage	30V AC/DC		
	Current	Signal contact : 0.3A Power contact : 5.0A		

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: 30 mΩ MAX.	X	—
Insulation Resistance	100V DC.	50 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: 50 mΩ MAX. Power contact resistance: 30 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℃ Time 30 → 30 min Under 5 cycles. (Relocation time to chanber : within 2-3 min)	① Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 mΩ MAX. ① 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 Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 mΩ MAX. ① Insulation resistance: 25MΩ MIN. ③ No damage, crack or looseness of parts.	X	–
Sulphur Dioxide	Exposed in 25 PPM for 96h,25℃,75%. (Refer to JIS C 60068)	Signal contact resistance: 50 mΩ MAX. Power contact resistance: 30 mΩ MAX.	X	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠0					

REMARKS
Note1: Include the temperature rising by current

Unless otherwise specified, refer to JIS C 5402 and IEC 60512.

APPROVED	WR. FUKUCHI	20220614
CHECKED	TY. OOI	20220613
DESIGNED	SH. HOSODA	20220613
DRAWN	SH. HOSODA	20220613

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-394052-51-00

HRS	SPECIFICATION SHEET	PART NO.	BM55R0.5-2DP/2-0.3V(51)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0673-7801-0-51 ⚠0	1/1

FORM HD0011-2-1