

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE			
OPERATING TEMPERATURE RANGE	-35°C TO 85°C (NOTE 1)	TEMPERATURE RANGE	-10°C TO 60°C		
VOLTAGE	30V AC	APPLICABLE CONNECTOR	BM14EC-**-DP-0.4V (**)		
CURRENT	0.3A				
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
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.	ELC4-327823-04		
HRS SPECIFICATION SHEET		PART NO.	BM14EC (1.3) -*DS-0.4V (51)		
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684	△	1/1