



THE DATASHEET OF BM10NB(0.8)-10DS-0.4V(51)

APPLICABLE STANDARD																																						
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C																																		
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	BM10*(0.8)-*DP-0.4V(**)																																		
	CURRENT	0.3A																																				
SPECIFICATIONS																																						
ITEM		TEST METHOD	REQUIREMENTS	QT	AT																																	
CONSTRUCTION																																						
GENERAL EXAMINATION		CONFIRMED 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																																						
△	INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	<table><tr><td>PIN COUNTS</td><td>INSERTION FORCE</td><td>WITHDRAWAL FORCE</td></tr><tr><td>BM10*(0.8)-*DS/DP-0.4V</td><td>(N MAX)</td><td>(N MIN)</td></tr><tr><td>10</td><td>15.4</td><td>2.6</td></tr><tr><td>16</td><td>20.7</td><td>3.6</td></tr><tr><td>20</td><td>24.3</td><td>4.4</td></tr><tr><td>24</td><td>27.8</td><td>5.1</td></tr><tr><td>30</td><td>33.1</td><td>6.2</td></tr><tr><td>34</td><td>36.6</td><td>6.9</td></tr><tr><td>40</td><td>41.9</td><td>8.0</td></tr><tr><td>50</td><td>50.7</td><td>9.8</td></tr><tr><td>60</td><td>59.5</td><td>11.7</td></tr></table>	PIN COUNTS	INSERTION FORCE	WITHDRAWAL FORCE	BM10*(0.8)-*DS/DP-0.4V	(N MAX)	(N MIN)	10	15.4	2.6	16	20.7	3.6	20	24.3	4.4	24	27.8	5.1	30	33.1	6.2	34	36.6	6.9	40	41.9	8.0	50	50.7	9.8	60	59.5	11.7	X	—
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MECHANICAL OPERATION		10TIMES INSERTIONS AND WITHDRAWAL.	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,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 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 DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—																																	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																																	
△	1	DIS-H-003833	NY. YAMASHIRO	TS. MIYAZAKI	09. 04. 15																																	
REMARKS			APPROVED	KH. IKEDA	08. 04. 22																																	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	KY. MIDORIKAWA	08. 04. 22																																	
Unless otherwise specified, refer to JIS C 5402 and IEC 60512			DESIGNED	TH. ARAI	08. 04. 22																																	
			DRAWN	SH. HOSODA	08. 04. 21																																	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-318423-01																																		
HRS	SPECIFICATION SHEET		PART NO.	BM10NB (0.8)-*DS-0.4V (51)																																		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684-****-*51	△ 1/1																																	

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