



**THE DATASHEET OF
BM10B(0.8)-50DP-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)-*DS-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, 1mA.		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 border="1"> <thead> <tr> <th>PIN COUNTS</th> <th>INSERTION FORCE (N MAX)</th> <th>WITHDRAWAL FORCE (N MIN)</th> </tr> </thead> <tbody> <tr><td>BM10*(0.8)-*DS/DP-0.4V</td><td></td><td></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> </tbody> </table>	PIN COUNTS	INSERTION FORCE (N MAX)	WITHDRAWAL FORCE (N MIN)	BM10*(0.8)-*DS/DP-0.4V			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 08.05.10																																		
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT				CHECKED	KY. MIDORIKAWA 08.05.10																																		
Unless otherwise specified, refer to JIS C 5402 and IEC 60512				DESIGNED	YH. MICHIDA 08.05.09																																		
				DRAWN	SH. HOSODA 08.01.12																																		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-317902-01																																			
HRS	SPECIFICATION SHEET		PART NO.	BM10B(0.8)-*DP-0.4V(51)																																			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684-****-*51	△	1/1																																	

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