

Certificate of Constancy of Performance

0359-CPR-00081



Appendix to Certificate of Constancy of Performance 0359-CPR-00081

Model Ref: **B3023AW** and **B3023BW**

Product: Controlled door closing devices, as covered by the scope of this standard

Intended use: On fire and smoke compartmentation doors (to fulfil the self-closing requirements of such doors)

Table A1. Product description for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Model No.	Latch Control	Backcheck	Delayed closing	Adjustable closing force	Zero position
B3023AW	Yes	No	No	Power size 3 (fixed)	N/A
B3023BW	Yes	Yes	No	Power size 3 (fixed)	N/A

Table A2. Product classification in accordance with EN 1154:1996/A1:2002/AC:2006

D1	D2	D3	D4	D5	D6
4	8	3	1	1	3

Where the Digits (D) are described as follows:

- D1 Category of use
- D2 Durability
- D3 Door closer power size
- D4 Suitability for use on fire/smoke compartmentation doors
- D5 Safety
- D6 Corrosion resistance

Notes.

1. The door closers are to be installed in accordance with the installation instructions for the product(s).
2. This certificate of constancy of performance, refers to the requirements for the product(s) described under the CPR. There may be other European Directives, where requirements need to be declared before CE marking can be affixed by the manufacturer or their authorised representative.

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0359-CPR-00081
Issue 1

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Table A3. EN 1154 Annex ZA Related Information for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Requirement/characteristic	Standard clause	Result summary				
Self-closing	General (5.2.1)	Grade 4 (closing doors from at least 180° open)				
	Closing moment (5.2.3) - 5 000 test cycles - 500 000 test cycles	Door Closer Power Size 3 standard installation				
		Between 0° and 4°		Between 88° and 92°	Any other angle of opening	
		Nm min.	Nm max.	Nm min.	Nm min.	
		18	< 26	6	4	
	Opening moment (5.2.4) and Efficiency (5.2.5) - 5 000 test cycle - 500 000 test cycles	Door Closer Power Size 3 (surface mounted)				
		Opening moment between 0° and 60°		Efficiency (%)		
		47 Nm max.		More than 55%		
	Closing time (5.2.6) - 5 000 cycles - 500 000 cycles	The closing time from an opening angle of 90° was capable of adjustment to 3 s or less, and 20 s or more				
		After 500 000 test cycles, the closing time set at 5 000 test cycles did not increase by more than 100%, or decrease by more than 30%.				
	Angles of operation (5.2.7)	Grade 4, Closing doors from 180° open				
		Minimum angle of control from 135° to closed position				
	Overload performance (5.2.8)	Power Size 3: 21 kg (10 cycles) completed				
	Temperature dependence (5.2.9) - closing time	Closing time (90° open to fully closed) set at 5 s at 20°C).				
		-15°C		40°C		
		Not less than 3 s or more than 25 s				
	Fluid leakage (5.2.10)	No leakage throughout tests				
Damage (5.2.11)	No damage observed/reported					
Latch control (5.2.12)	Latch control effective within range of 0° to 15°					
Backcheck (5.2.13) - Arresting angle	B3023AW		Not applicable			
	B3023BW		Before 90°			
Delayed closing (5.2.14)	Not applicable					
Adjustable closing force (5.2.15)	Not applicable					

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Requirement/ characteristic	Standard clause	Result summary
	Zero position (5.2.18)	Not applicable to single action door closers
	Fire/smoke door suitability (5.2.18)	Grade1, Refer to fire test report AU12024048-1 and EEV 130607053GZU-002 (see Table A5).
Durability of self-closing	Durability (5.2.2)	500,000 test cycles
	Corrosion resistance (5.2.17.1 and 5.2.17.2)	Grade 3, Neutral Salt Spray (NSS) for 96 hours
Dangerous substances	See Clause ZA.3	No dangerous substances declared for this product/intended use

Table A4. Mechanical test reports & product classification for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Test Report	Model tested	Product Classification					
GZ11120115-1	B3023AW	4	8	3	1 ^a	1	3
130607053GZU-002	B3023BW	4	8	3	1 ^b	1	3

Notes.

- a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A5).
- b. Digit 4 becomes "1" based on the evaluation report 130607053GZU-002 (refer to Table A5).

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Table A5. Fire test report for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Test Report	Model Tested	Test Method	Fire resistance	
			Integrity (E)	Insulation (I)
AU12024048-1	B3023AW	EN 1634-1:2008	60 minutes	60 minutes
B3023BW assessed as having similar performance, refer to 130607053GZU-002.				
Fire Door Test Information				
Door material:	Timber (wooden) door (fully insulated)			
Door configuration:	Single Action Single Door (SASD)			
Door orientation:	Door tested opening into the furnace			
Door leaf dimensions:	Height (mm)	Width (mm)	Thickness (mm)	
	2092	843	54	
Frame dimensions: (nominal size)	Height (mm)	2130		
	Width (mm)	905		
Hardware	Latch	Euro Mortise Lockset Model number: S6072		
	Hinges	4" Hinge 101 mm x 77 mm Model: EUCE 13EB; Quantity: Three.		
	Door closer	Standard Installation Model B3023AW		

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