

APT1- DDA Power Curves on : ZDC0024 Overhead door closer



A Report To: ERA Home Security Ltd T/A Zoo Hardware
Dukes Drive, Kingmoor Park North,
Carlisle, CA6 4SH

Document Reference: WIL - 521319

Date: 28/09/2022

Copy: 1

Issue No.: 1

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TEST CONCLUSIONS

Samples of:

Supplier : ERA Home Security Ltd T/A Zoo Hardware
Product : Overhead door closer
Models : ZDC0024

have been tested in accordance with:

APT1- DDA Power Curves on Door Closers

By Element Materials Technology [A UKAS accredited Testing Laboratory (No. 0621)]

At Unit 3 Wednesbury One Ind Est, Black Country New Rd, Wednesbury. WS10 7NZ.

Results and comments as detailed below:

Results as detailed below:

- The ZDC0024 Overhead door closer (Standard door mount pull side application) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 857mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 662mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 857mm.

- The ZDC0024 Overhead door closer (Transom mount push side application with no head projection) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 917mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 800mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 917mm.

- The ZDC0024 Overhead door closer (Transom mount push side application with 50mm head projection) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 910mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 791mm tested in laboratory conditions.



Therefore the suitable width of door for the door closer when fitted in the above fixing position is 910mm.

- The ZDC0024 Overhead door closer (Parallel arm application) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 917mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 689mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 689mm.

NOTE : BS 8300 Requirements are for the whole door set and therefore the minimum width of suitable door will increase when the door closer is fitted with all other items of ironmongery on site.

AUTHORISATION

Tests performed by: Liam Duff, Test Engineer
Report issued by: Liam Duff, Test Engineer Signed  Date : 28/09/2022 For and on behalf of Element Materials Technology
Report authorised by: Steven Wilkes, Deputy Business Unit Head Signed :  Date : 28/09/2022 For and on behalf of Element Materials Technology
Report issued: 28 September 2022



NOTE.

These tests are covered by the Laboratory Flexible UKAS accreditation schedule.

Tests marked NT were not tested

Tests marked NA are not applicable to the product on test.

0621

The laboratory has tested the material/items supplied by the customer as sampled in accordance with the customer's own requirements. Results apply only to samples as received, and may not be indicative of a type or batch.

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TEST DETAILS

CLIENT DETAILS

Company Name ERA Home Security Ltd T/A Zoo Hardware
Address Dukes Drive, Kingmoor Park North,
Carlisle, CA6 4SH

Contact Jason Tonks

ORDER DETAILS

Order No. 22345
Dated 18/07/2022

DEVICE DETAILS

Supplier ERA Home Security Ltd T/A Zoo Hardware
Model No's ZDC0024
Closer type:
 With latch action.
 With delayed action
Arm configuration: Standard arm

Mounting: Overhead Surface fixed in standard door mount pull side, transom mount push side without & with 50mm head projection & parallel arm applications.

TEST REQUIREMENTS

Test specification : APT1- DDA Power Curves on Door Closers
Test to clauses : N/a.
Closer strength: Size 3.
Corrosion resistance grade: N/a.
Special test requirements: Opening moments check at power size 3.
Test reference numbers: WIL 521319
Date sample received: 25/07/2022
Date test started: 13/08/2022
Date test completed: 30/08/2022
Other reports to be used in conjunction with this report: None.

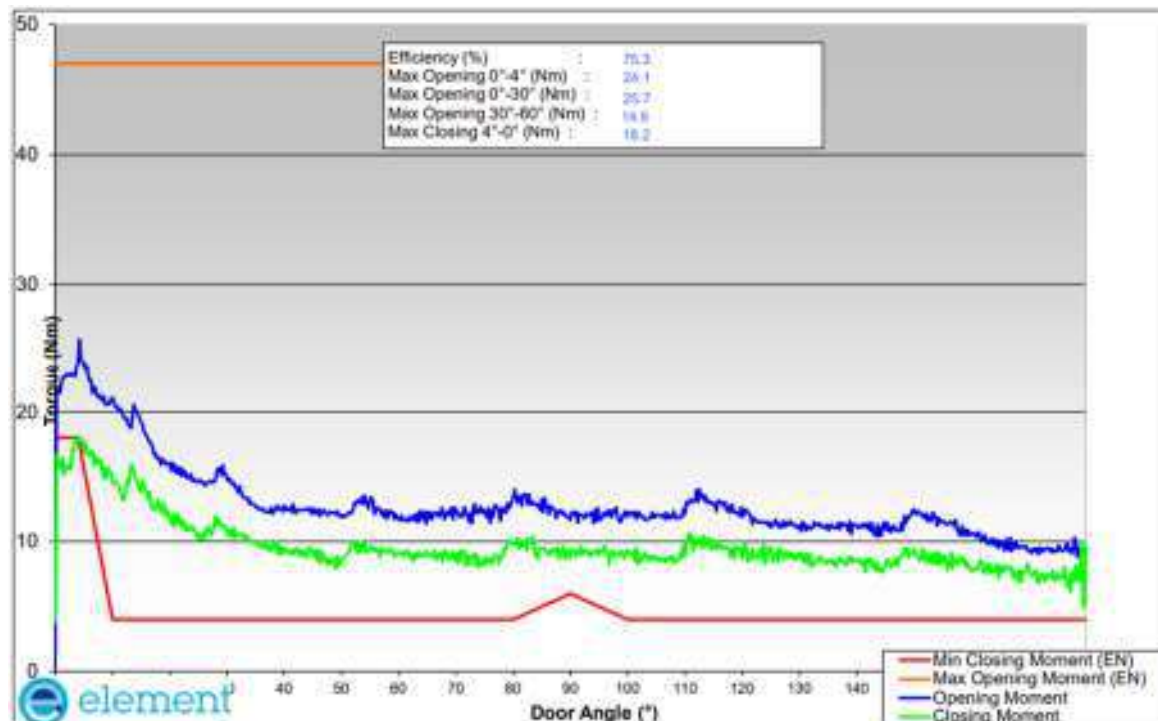
TEST RESULTS

ZDC0024 Overhead door closer

Standard fixing position

No cycles completed.

Specification	Requirement	Test result
Cycles completed	0	0 cycles
Ambient temp.	15 - 30° C	21°C
Closer temp	Within 2° of ambient	21°C
Opening moment. Closer size 3	Max opening torque 0 - 4°	24.1Nm
	Max opening torque 0 - 30°	25.7Nm
	Max opening torque 30 - 60°	14.9Nm
Closing moment. Closer size 3	Max closing moment 0 - 4°	18.2Nm
Efficiency	Size 3 closer	75.3%

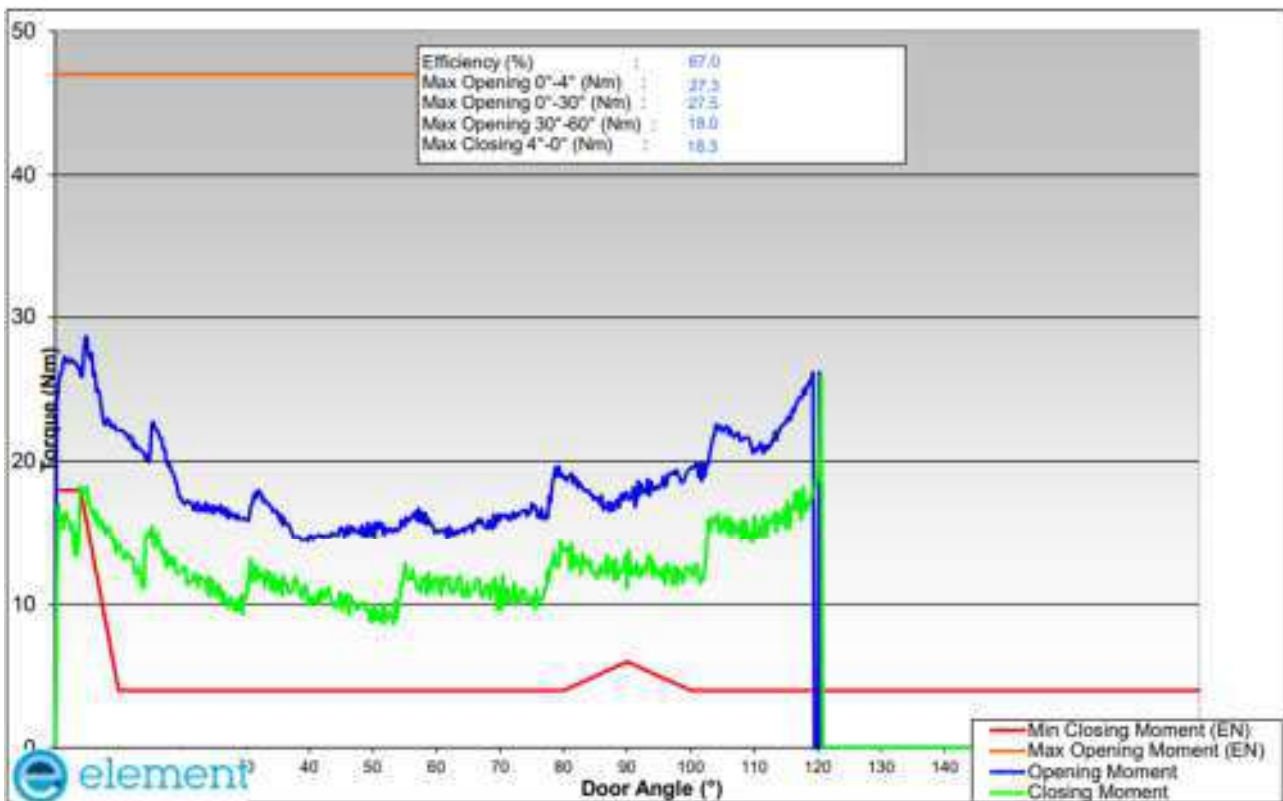


ZDC0024 Overhead door closer

Transom mount push side fixing position no head projection

No cycles completed.

Specification	Requirement	Test result
Cycles completed	0	0 cycles
Ambient temp.	15 - 30° C	26°C
Closer temp	Within 2° of ambient	26°C
Opening moment. Closer size 3	Max opening torque 0 - 4°	27.3Nm
	Max opening torque 0 - 30°	27.5Nm
	Max opening torque 30 - 60°	18.0Nm
Closing moment. Closer size 3	Max closing moment 0 - 4°	18.3Nm
Efficiency	Size 3 closer	67.0%

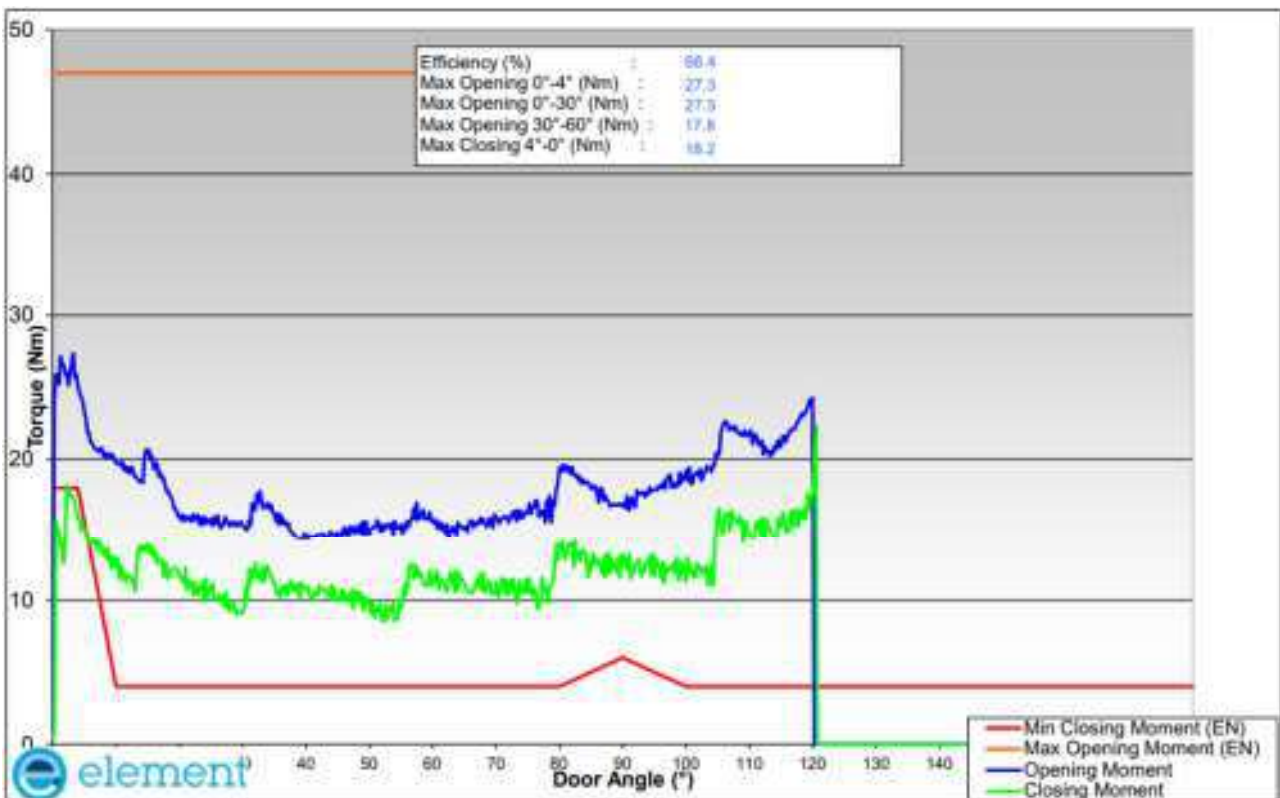


ZDC0024 Overhead door closer

Transom mount push side fixing position 50mm head projection

No cycles completed.

Specification	Requirement	Test result
Cycles completed	0	0 cycles
Ambient temp.	15 - 30° C	26°C
Closer temp	Within 2° of ambient	26°C
Opening moment. Closer size 3	Max opening torque 0 - 4°	27.3Nm
	Max opening torque 0 - 30°	27.3Nm
	Max opening torque 30 - 60°	17.8Nm
Closing moment. Closer size 3	Max closing moment 0 - 4°	18.2Nm
Efficiency	Size 3 closer	66.4%

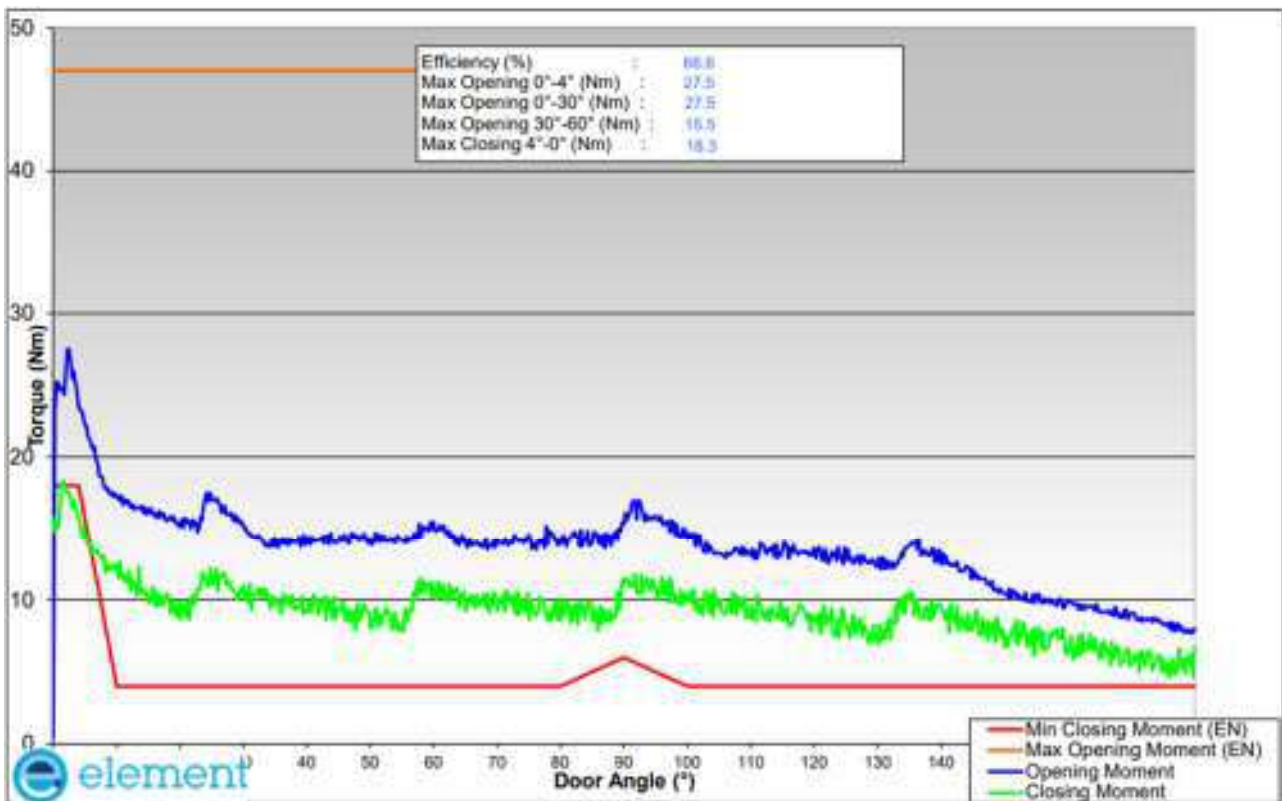


ZDC0024 Overhead door closer

Parallel arm fixing position

No cycles completed.

Specification	Requirement	Test result
Cycles completed	0	0 cycles
Ambient temp.	15 - 30° C	26°C
Closer temp	Within 2° of ambient	26°C
Opening moment. Closer size 3	Max opening torque 0 - 4°	27.5Nm
	Max opening torque 0 - 30°	27.5Nm
	Max opening torque 30 - 60°	15.5Nm
Closing moment. Closer size 3	Max closing moment 0 - 4°	18.3Nm
Efficiency	Size 3 closer	66.6%



OBSERVATIONS AND COMMENTS

Results as detailed below:

- The ZDC0024 Overhead door closer (Standard door mount pull side application) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 857mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 622mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 857mm.

- The ZDC0024 Overhead door closer (Transom mount push side application with no head projection) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 917mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 800mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 917mm.

- The ZDC0024 Overhead door closer (Transom mount push side application with 50mm head projection) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 910mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 791mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 910mm.

- The ZDC0024 Overhead door closer (Parallel arm application) has an opening force (0-30°) less than 30N when fitted to a minimum width door of 917mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 689mm tested in laboratory conditions.

Therefore the suitable width of door for the door closer when fitted in the above fixing position is 689mm.

NOTE : BS 8300 Requirements are for the whole door set and therefore the minimum width of suitable door will increase when the door closer is fitted with all other items of ironmongery on site.

----- END OF REPORT -----