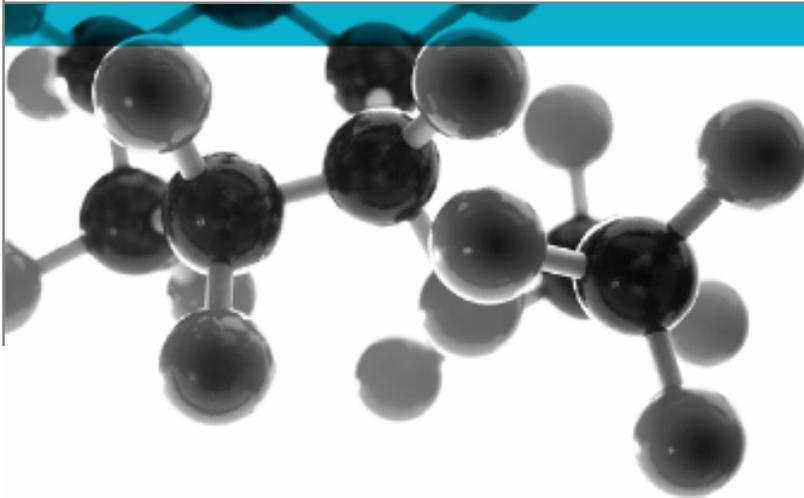


APT1- DDA Power Curves on Door closers



Product : Axim TC 9602-90 Transom mounted door closer

A Report To: The Parkside Group Limited
Unit 5, The Willow Centre
17 Willow Lane
Mitcham
Surrey
CR4 4NX

Date: 09 September 2010

Copy: 1

Issue No.: 1

Page 1

Document Reference: 196747/b

**Testing
Advising
Assuring**

TEST CONCLUSIONS

Samples of:

Manufacturer : The Parkside Group Limited
Product : Transom mounted door closer
Model : Axim TC 9602-90

have been tested in accordance with:

APT1- DDA Power Curves on Door Closers

By Exova Warringtonapt [A UKAS accredited Testing Laboratory (No. 0621) and EC Notified Body number 1104]

At Key Industrial Park, Fernside Rd., Willenhall. West Midlands. WV13 3YA.

Results and comments as detailed below:

Results as detailed below:

The Axim TC 9602-90 Transom mounted door closer has an opening force (0-30°) less than 30N when fitted to a minimum width door of 736mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 990mm tested in laboratory conditions.

Therefore the suitable width of door for the Axim TC 9602-90 Overhead door closer fixed in the above fixing position is 990mm

NOTE 1 : The closing force at 4 - 0° is power size 1, due to falling between the 9 – 13Nm category.

NOTE 2 : 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.

Document No.: 196747/b
Author: S Wilkes
Client: The Parkside Group Limited

Page No.: 2 of 8
Issue Date: 09 September 2010
Issue No.: 1



AUTHORISATION

Tests performed by: Steve Wilkes, Deputy Operations Manager
Report issued by: Steve Wilkes, Deputy Operations Manager Signed :  Date : 09 September 2010 For and on behalf of Exova Warringtonapt laboratories Ltd
Report authorised by: Ian Keeling, Laboratory Manager. Signed :  Date : 09 September 2010 For and on behalf of Exova Warringtonapt laboratories Ltd
Report issued: 09 September 2010



0621

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.

The laboratory has tested the products supplied by the client as sampled in accordance with their own requirements

Exova Warringtonapt is an EC Notified Body Number 1104

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TEST DETAILS

CLIENT DETAILS

Company Name The Parkside Group Limited
Address Unit 5, the Willow Centre
17 Willow Lane,
Mitcham.
Surrey.
CR4 4NX
Contact Mr David Trussel

ORDER DETAILS

Order No. DT/2708
Dated 27.08.10

DEVICE DETAILS

Manufacturer The Parkside Group Limited
Model No Axim TC 9602-90

Closer type:

With latch action.
No backcheck.
Delayed action Not possible.

Arm configuration:

Mounting: Transom mounted fixing position.

TEST REQUIREMENTS

Test specification : APT1- DDA Power Curves on Door Closers

Test to clauses : N/a.

Closer strength: Size 1.

Corrosion resistance grade: N/a.

Special test requirements: Check opening moments (closer is power size 1)

Test reference numbers: 196747/b

Date sample received: 07 October 2005

Date test started: 02 December 2005

Date test completed: 05 December 2005

Other reports to be used in conjunction with this report: 194784/b.

TEST RESULTS

Standard fixing position

No cycles completed.

Specification	Requirement	Test result
Cycles completed	0	0 cycles
Ambient temp.	15 - 30° C	21.5°C
Closer temp	Within 2° of ambient	21.5°C
Opening moment. Closer size 1	Max opening 0 - 4°	18.40Nm
	Max opening torque 0 - 30°	22.09Nm
	Max opening torque 30 - 60°	22.27Nm
Closing moment. Closer size 1	Max closing moment 0 - 4°	11.62Nm
Efficiency	Size 3 closer	63%

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Uncertainty of measurement

Clause 7.1.1 of the standard specifies the following tolerances on values:

Mass in kg	± 2%	length in mm	± 2%	Angular position	± 2°
Force in N	± 2%	time in secs	± 5%	temp °C	± 2°C
Moment in Nm	± 2%				

The uncertainty of measurements calculated for a confidence level of 95% throughout these tests are within the limits of these tolerances.

OBSERVATIONS AND COMMENTS

The Axim TC 9602-90 Transom mounted door closer has an opening force (0-30°) less than 30N when fitted to a minimum width door of 736mm, and has an opening force (30-60°) less than 22.5N when fitted to a minimum width door of 990mm tested in laboratory conditions.

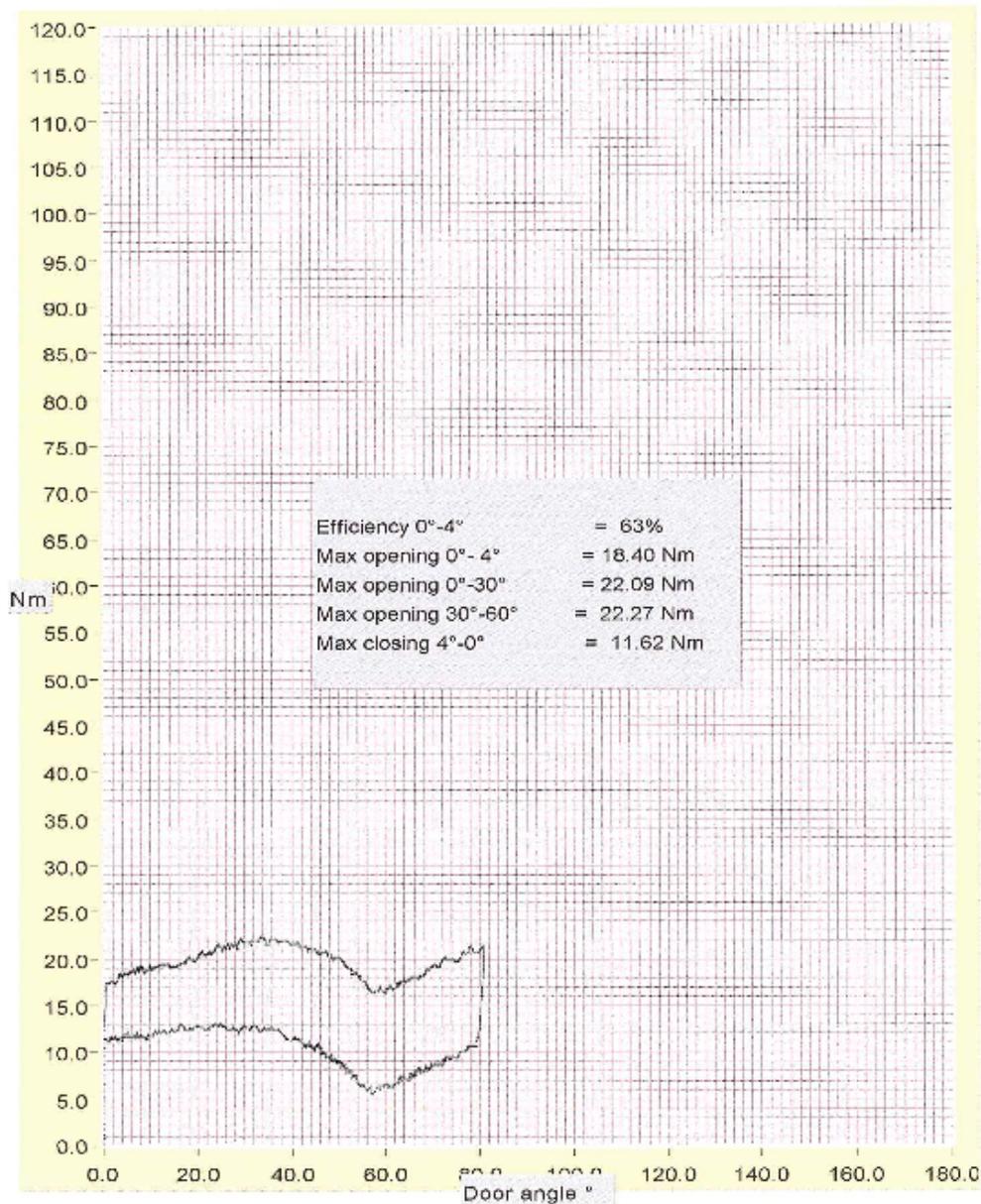
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POWER CURVE

AXIM TC 9602-90 TRANSOM MOUNTED DOOR CLOSER (SIZE 1)
 TRANSOM MOUNT FIXING POSITION
 149784/b
 20 KG DOOR 10 MM HINGE PROJECTION
 06/12/05
 0 CYCLES TRACE N°1 TEST ENGINEER S WILKES



Warrington APT Laboratories

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