



LABORATORI GENERAL D'ASSAIGS I INVESTIGACIONS

FUNDAT L'ANY 1907

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N.I.F. Q-585015-C

Cerdanyola del Vallès : June 16th of 1998
Expedient número : 98011826 ENGLISH TRANSLATION
Referència del peticionari : OPENERS & CLOSERS
Cortit, 10
08027-BARCELONA
Date of reception of items : April 3th of de 1998
Date test performed : April 28th of 1998 (Start)
May 22nd of 1998 (End)

DESCRIPTION OF ITEMS SUBMITTED

Ten (10) electric strikes type 30.1.00.B (symmetrical), according to Openers & Closers declaration.

REQUESTED TESTS

The following tests:

- 1.- Verification of correct operation under load of 20 Kg.
- 2.- Strength test.
- 3.- Limit strength.

SAMPLING METHOD

The test specimens have been supplied by Openers & Closers.

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Generalitat de Catalunya
Adscrit al Departament d'Indústria i Energia



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TEST METHODS

1.- Operation under load of 20 Kg.

For this test, ten (10) electric strikes have been loaded with 20 Kg static load, applied over the latch in the opening way and, subsequent, it has been applied an AC voltage of 10.5 V and 50 Hz during a maximum time of 5 seconds.

2. Strength test

For this test, five (5) electric strikes have been loaded with a increasing load up to 50, 100, 150, 175 y 225 Kg. over the electric strike latch, in the opening way. The load have been applied in 10 seconds and have been maintained 5 seconds. Subsequent, it has been carried out again the operation under load of 20 Kg.

3. Limit strength.

For this test, two (2) electric strikes have been loaded with a increasing load up to electric striker total break.

The electrical operation of electric strike has been carried out with a AC source brand SALICRU, model ACR-5-2 and serial number 2733.

The measurement of excitation voltage has been carried out by a digital multimeter brand TEKTRONIX, model PMM252 and serial number 50493, with 0.3 % accuracy.

In the strength and limit strength tests, the specimens have been loading with a universal testing machine brand ZWICK, model 148400 and serial number 104050, of 200 kN maximum capacity and class 0 according to ISO 7500/1-86 standard, with a stroke rate of 2 mm/min.

TEST CONDITIONS

The test have been carried out at 22 ± 3 °C of environment temperature.

RESULTS

1.- Operation under a load of 20 Kg.

Carried out the operation test under 20 Kg. in ten (10) electric strikes, according to "Test Methods" section, the results have been the follows:

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Operation test						
Sample	Load	Voltage	Operation		Operation type	
			Yes	No	Fast	Slow
1	20	10.5	x	—	—	x
2	20	10.5	—	x	—	—
3	20	10.5	x	—	—	x
4	20	10.5	x	—	—	x
5	20	10.5	x	—	—	x
6	20	10.5	x	—	—	x
7	20	10.5	x	—	—	x
8	20	10.5	x	—	—	x
9	20	10.5	x	—	—	x
10	20	10.5	x	—	—	x

NOTE: It is considered as slow time of operation anyone who is smaller than 2 seconds, and fast if it is between 2 and 5 seconds.

2. **Strength test.**

Carried out the operation test in five (5) electric strikes, according to "Test Methods" section, the results have been the follows:

Strength test		Operation test				
Sample	Load	Voltage	Operation		Operation type	
			Yes	No	Fast	Slow
1	50	10.5	x	—	—	x
3	100	10.5	x	—	—	x
4	150	10.5	x	—	—	x
5	175	10.5	x	—	—	x
6	225	10.5	x	—	x	—

NOTE: It is considered as slow time of operation anyone who is smaller than 2 seconds, and fast if it is between 2 and 5 seconds.

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From these results, it is deduce that this electric strike, type 30.1.00.B (symmetrical), support loads up to 225 Kg. supporting our functional character.

3. Limit strength.

Carried out the limit strength test in two (2) electric strikes, according to "Test Methods" section, the results have been the follows:

Sample Nº.	Maximum Load (Kg)
7	333
8	301

The technical responsible for the performance of the test described above is Mr. Salvador Domingo Durán

Approved
 Technical Director

p.a.:

 Ramon Capellades Font

Subhead of Construction,
 Mechanics and Fire Division


 F. Javier Escriche Segú

The results reported in this document relate only to the sample, product or item submitted to the Laboratory and described above, having been tested under the conditions established in this document. In case of discrepancies between the English and the Spanish versions, the Spanish version shall prevails over the English.

