

PRODUCT SPECIFICATION

NUMERO

NORMA DE SEGURIDAD AMP
CLASIFICACION

1. SCOPE

1.1 Content

This specification covers the performance, tests and quality requirements for the AMP* Standard Timer housing 12 positions FN 737385-1 to -7 for Timer washing machines.

1.2 Qualification

When tests are performed on the subject product line, the procedures specified in AMP 109 series specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

2.1 AMP Specifications

- A. 109-1 : General Requirements for Test Specifications
- B. 109 Series: Test Specifications as indicated in Figure 1

3. REQUIREMENTS

3.1 Design and Construction

Housings shall be of the design, construction and physical dimensions specified on the applicable product drawing.

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DIST.

		PRE. J.Lázaro		FECHA 10-12-91		AMP		AMP Española, S. A.	
		COM. T. Batlló		FECHA 10-12-91				BARCELONA - ESPAÑA	
		APR. X. Cirac		FECHA 10-12-91		LOC. AL		A NUM. 108-22019	
B Revised by ECN I674								REV. B	
A Was Design Objective									
ITR REVISION		RE		COM.		FECHA		1 DE 5	
								DESCRIPCION	
								STANDARD TIMER HSG 12 W	

3.2 Materials

Housing: Polyamide 6/6, 94 V-2
 Color : dash -1, virgin
 -2, red
 -3, green
 -4, gray
 -5, black
 -6, blue
 -7, yellow

3.3 Ratings

A. Operating Temperature: -55 \pm to 105 \pm C

3.4 Performance and Test Description

Housings shall be designed to meet the mechanical performance requirements specified in Figure 1.

3.5 Test Requirements and Procedures Summary

Test Description	Requirement	Procedure
Examination of Product	Meets requirements of product drawing	Visual, dimensional and functional per applicable inspection plan
Distance between stop catches	- 63,1 mm max. initial - not more than 63,5 and not less than 62,6 after 10 cycles	- see Fig. 3 - measure initial distance - perform 10 cycles as specified in AMP Spec. 109-00027 - measure final distance
Push force of locking device	10 newtons minimum after 10 cycles	After 10 cycles of actuation of the locking device, measure the necessary force to have a travel from free position of 1 mm. See Fig. 4 with gauge as Fig. 5 Speed rate 10 mm/min. Push travel in each cycle: 1 mm

Figure 1 (continued)

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HOJA 2 DE 5	AMP AMP Española, S. A. BARCELONA - ESPAÑA		REV. B
LOC AL	A	NUM. 108-22019	
DESCRIPCION STANDARD TIMER HSG 12 W			

NUMERO

NORMA DE SEGURIDAD AMP
CLASIFICACION

M E C H A N I C A L

Housing Lock Strength	40 newtons minimum first extraction 25 newtons minimum 10 th extraction	Determine strength of housing locking mechanism; AMP 109-50. Separating speed rate: 10 mm/min. Use gage AES 709 for these measurements
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3.6 Housing Tests and Sequences

TEST OR EXAMINATION	TEST GROUP (a)	
	1	2
	TEST SEQUENCE (b)	
Examination of Product	1	1
Distance between stop catches	2	2
Push force of locking device	3	
Housing lock strength		3

Figure 2

- (a) See para. 4.1.A
- (b) Numbers indicate sequence in which tests are performed

4. QUALITY ASSURANCE PROVISIONS

4.1 Qualification Testing

A. Sample Selection

Housings shall be prepared in accordance with applicable Instruction Sheets. They shall be selected at random from current production. Test groups 1 and 2 shall consist of 12 housings each.

B. Test Sequence

Qualification inspection shall be verified by testing samples as specified in Figure 2.

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HOJA 3 DE 5	AMP AMP Español, S. A. BARCELONA - ESPAÑA	
LOCAL A	NUM. 108-22019	REV. B
DESCRIPCION STANDARD TIMER HSG 12 W		

C. Acceptance

- (1) Requirements put on test samples, as indicated in the requirements portion of Figure 1, exist as either the upper or lower statistical tolerance limit (95 % confidence, 99 % reliability). All samples tested in accordance with this specification shall meet the stated tolerance limit.
- (2) Failures attributed to equipment, test setup, or operator deficiencies shall not disqualify the product. When product failure occurs, corrective action shall be taken and samples resubmitted for qualification.

4.2 Requalification Testing

Requalification shall be established by the cognizant divisional engineering function and may consist of all or any part of the overall qualification program provided that it is conducted within the required time period.

4.3 Quality Conformance Inspection

The applicable AMP inspection plan will specify the sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with the applicable product drawing and this specification.

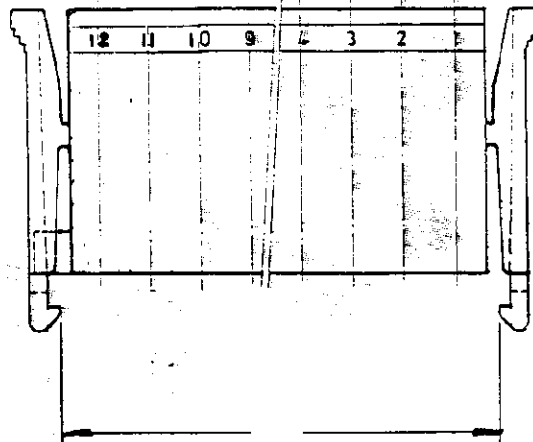


Figure 3

HOJA 4 DE 5	AMP AMP ESPAÑOLA, S. A. BARCELONA - ESPAÑA		
LOC AL	A	NUM. 108-22019	REV. B
DESCRIPCION STANDARD TIMER HSG 12 W			

PROCESADO POR: REPLICACION ORIGINAL DE AMP ESPAÑOLA, S.A.

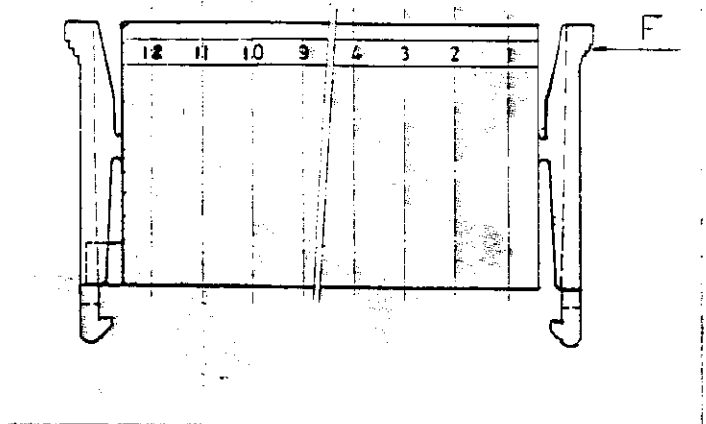


Figure 4

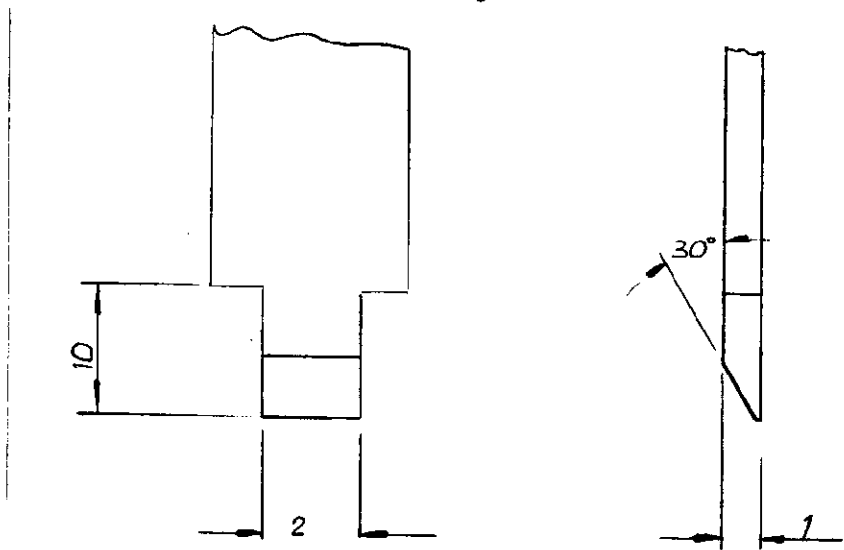


Figure 5

HOJA 5 DE 5	AMP	AMP ESPAÑOLA, S. A. BARCELONA - ESPAÑA	
LOC AL	A	NUM. 108-22019	REV. B
DESCRIPCION STANDARD TIMER HSG 12 W			