

PRODUCT SPECIFICATION

108-18025-1
Standard Power Timer Contact

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				DR Bleicher, Monika 19.03.98	AMP AMP DEUTSCHLAND GmbH Langen b. FfM					
				DR Bleicher, Martin 20.05.98	LOC	NO	REV			
				DR Kunzel, Gernar 28.3.98	AI	A4	108-18025-1	G		
				SHEET	NAME					
				1 OF 32	Standard Power Timer					
DIST	G	German Version translated	Bleicher	03 / 98						
	LTR	REVISION RECORD	APP	DATE						

1. INTRODUCTION

1.1 Content

This specification describes the design, the characteristics, the versions, the test and the quality requirements of the Standard Power Timer contacts.

1.2 Product Numbers

The various versions of the contact systems are shown in the table of the product numbers (Table 2).

2. APPLICABLE DOCUMENTS

The following documents from a part of this specified herein. In the case of a conflict between this specification and the specified documents, this specification has priority. The original German language version, 108-18025-0, has priority over this version.

2.1 AMP Specifications

- A. AMP Spec. 114-18037 Application specification for the Standard Power Timer contact.
- B. AMP Spec. 108-18279 Product specification: Test tabs for the Timer contacts

2.2 Other Standards

- A. DIN 1 777/01.86 Dimensions and permissible deviations
- B. DIN 17 224/02.82 Spring wire and spring made of stainless steel
- C. DIN 17 666/12.83 Low-alloy cooper alloys
- D. DIN 17 670/06.69 Strips and plates made of cooper and wrought cooper alloys
 Part 1/12.83 : Characteristics
 Part 2/06.69 : Technical conditions of delivery
- E. DIN IEC 512/5.94 Measuring methods and testing procedures for electromechanical components
- F. DIN 40 046 Environmental testing for electronics
- G. DIN EN 60352 Part 2 : Solderless connections
- H. DIN 41 639/03.76 Part 1 : (IEC 50 Part 581) Electromechanical components
- I. DIN 50 015/08.75 Climates and their technical applications; constant test climates
- J. DIN 50 017/10.82 Test climates containing condensed water
- K. DIN 72 551/01.92 Part 6: Low-voltage
- L. DIN ISO 6722/02.93 Part 3: Electrical wires
- M. DIN/IEC 68 Basic environmental testing procedures
 Part 2-11 / 08.82 : Salt fog
 Part 2-14 / 06.87 : Temperature changing
 Part 2-30 / 09.86 : Moist heat, cyclical
 Part 2-52 / 08.85 : Salt fog, cyclical
- N. IEC Regulations

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3. DESCRIPTION

3.1 Design and Construction (Fig. 2)

The design and dimensions of the Standard Power Timer contact are shown in the product drawings and are inspected in accordance with the AMP Quality Guidelines.

The Standard Power Timer contact is a flat contact with four independent contact springs and a steel cantilever spring which reinforces the contact force. Two locking lances which lock the contact in its chamber are provided on this cantilever spring. The cantilever spring provides long-term mechanical and electrical stability. A short and wide connection between the crimp and the contact body, together with large-area contact points, ensures a low contact resistance.

Are the chambers of the Standard Power Timer in the housing from one to the next row shift by the half grip, it is possible to use crimp contacts in a grip of 5,5 x 8,0mm.

By parallel direction the min. grip is 6,0 x 8,0mm. For single wire versions the minimum grip is 7,5 x 8,5mm (parallel) and 8,0 x 8,5mm(shifted)

Mating parts are tabs or tab headers with the dimensions 6,3 x 0,8 mm, 5,8 x 0,8mm and 4,8 x 0,8mm.

The tab tip should be shaped like that of the tab specified in DIN 46244. Privileged should be tabs with radius on both sides, like the specified test-tabs described, in 4.3.2.

3.2 Materials

- A. Basic material : - wrought copper alloy to AMP specifications.
- B. Contact Plating : - tin and heat-treated tin
- silver
- gold on nickel at the contact area, tin elsewhere
- C. Cantilever Spring: - stainless steel
- stainless steel, gold plated

4. REQUIREMENTS

4.1 General Conditions

All tests executed with the contact system must comply with the inspection plan in this specification.

- Wire cross section: see Table 2
- Storage temperature: -40°C to 130°C
- Wires: FLR to DIN 72 551 Part6; FLK to DIN ISO 6722 Part3
- Crimp with specified AMP crimping tools
- Crimp-Quality to AMP Specifications
- Maximum permissible voltage to IEC 664 / IEC 664A (DIN VDE 0110)
- Necessary mating parts should be made of low alloy wrought copper alloys.
- The plating and, if applicable, the wire size of the mating part should be identical with those of the contact being tested. Contacts with heat treated tin surfaces may be combined only with Contacts with a mating part with a tin plating which has not been heat treated.
- The housings used must comply with AMP Specifications.
- The test parts must have no visible damages
- The test parts must be in accordance to the current Rev. of the drawing.
- For the tests are only parts out of series allowed.
- For all tests a statistical sufficient quantity of parts is required.

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NAME Standard Power Timer				

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4.2 Rating

Current carrying capacity	max. 40 A see 4.3.1
Minimum transfer current signal (depending on the circuit in question)	Values: mA-Range for tin, silver and gold plated Contacts
Maximum mating cycles	10 for tin-plated contacts 50 for silver-plated contacts 100 for gold-plated contacts
Temperature range	-40°C to 130°C for tin-plated contacts -40°C to 140°C for silver-plated contacts -40°C to 150°C for gold-plated contacts

4.3 Test Requirements and Procedure Summary

4.3.1 ELECTRICAL REQUIREMENTS		
TEST DESCRIPTION	REQUIREMENTS	PROCEDURE
Contact resistance	$R_k \leq 2 \text{ m}\Omega$	Test Conditions No-load voltage $\leq 20 \text{ mV}$ Test current $< 100 \text{ mA}$ The contact resistance in new conditions is measured in accordance with IEC 512-2 Test 2a / DIN 41 640 Part4 (see Fig. 1)
Crimp resistance	See Table 1	The crimp resistance is measured on contacts terminated with AMP crimp tools in accordance with AMP Spec.114-18037. Tests to DIN IEC 352 Part2 /IEC 512-2 Test 2a (see Fig. 1)
Current carrying capacity	max. 40 A see diagram 2	Contact in free air (spacing 50mm), wire size $4,0 \text{ mm}^2$, at room temperature. Test to IEC 512-3/DIN 41 640 Part3
Current ratings depending as a function of the ambient temperature	see diagram 3	Contacts in housing. Test to IEC 512-3/DIN 41 640 Part3

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Standard Power Timer

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4.3.2 MECHANICAL REQUIREMENTS		
TEST DESCRIPTION	REQUIREMENTS	PROCEDURE
Mating force	$5\text{ N} \leq F_s \leq 15\text{ N}$ (for all surfaces)	Measure mating and unmating forces with the test tab PN 965 850-1 (Product specification 108-18279) without additional lubrication.
Unmating force	$2\text{ N} \leq F_z \leq 7\text{ N}$ (for all surfaces)	Measure at a rate of 25mm/min according to DIN 41 640 Part 36.
Crimp extraction force	see Table 1	Measure the extraction force at a rate of 25 mm/min. in accordance to DIN IEC 352 Part2.
Dynamical - mechanical load (sine-shaped)	no mechanical damage no contact interruptions $t > 1\ \mu\text{s}$	deviation: $d = 0,75\text{ mm}$, (10-55) Hz, acceleration: $a = 10\text{g}$, (55-500)Hz, duration: 16 h per space axle, $v_{\log} = 1\text{ okt/min.}$ measured in in the housing
Contact retention force in the housing	Contact retention force in the cavity without second contact retention. $F_1 > 120\text{ N}$	Measure the retention forces at a rate of 25 mm/min. Execute the test in a steel chamber. Contact retention force in plastic housing: see housing specification.

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NAME				
Standard Power Timer				

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4.3.3 ENVIRONMENTALS		
TEST DESCRIPTION	REQUIREMENTS	PROCEDURE
Electrical stress test	At the end of the entire test, the total contact resistance (contact + crimp resistance) shall not be more than 300% for tin plated contacts 200% for silver plated contacts 100% for gold plated contacts higher than the initial value.	Condition and sequence of the test: see 4.4 Temperature: -40°C to 80°C per 6h; see diagram 1 Current during the warm phase: see derating curve at 80°C ambient temperature (see diagram 3)
Salt fog in changing climates	At the end of the entire test, the total contact resistance of tin plated contacts shall not be more than 200% higher than the initial value. At the end of the entire test, the total contact resistance of contacts plated with noble metals shall not be more than 100% higher than the initial value.	Condition of testing Samples installed in a complete housing. Measure in mated condition with housings snapped in. Sequence of testing see 4.4
Environmental simulation	The contact resistance of tin plated contacts shall not be more than 400% higher than the initial value. The contact resistance of contacts plated with noble metals shall not be more than 150% higher than the initial value.	Condition of testing Samples installed in complete housing . Measure in mated state with housings snapped in . Sequence of testing see 4.4
Dynamical -mechanical load		The test must be done specific for each housing. Sequence of testing according to DIN IEC 68 Part2-6

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NAME				
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4.4 Sequence of the performed tests

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TEST OR EXAMINATION	Test Sequence		
	Test Group Electrical Stress	Test Group Salt fog in changing climates	Test Group Environment simulation
Visual inspection	1. 9.	1. 5.	1. 13.
Contact resistance to IEC 512-2 / DIN 41 640 Part4	2. 4. 6. 8.	2. 4.	2. 4. 6. 8. 10. 12.
Thermal shock to IEC 68 Part2-14 Na Duration: 10cycles / temperature: -40 to 120°C , per 15min.			3.
Temperature cycling to IEC 68 Part2-14 Nb Duration: 20 cycles / Temperature: -40 to 100°C , per 6h			5.
Salt fog with changing climates to IEC 68 Part2-52 Test condition: 1 / Duration: 1 cycle		3.	
Industrial mixed flowing gas (0,2 ppm SO ₂ , 0,01 ppm H ₂ S, 0,2 ppm NO ₂ , 0,01 ppm Cl ₂ / 25°C / 75% / 21 d) Rate of flow 1 m ³ /h			9.
Humidity temperature cycling to IEC 68 Part2-30 Duration 10cycles / max. temperature 55°C	5.		11.
Storage in dry heat to IEC 68 Part2-2 Bb Duration: 120h / Temperature: 120°C			7.
Temperature- / current changing test 60cycles (1 cycle - 40°C to 80°C per 6h; see diagram)	3. 7.		

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Crimp extraction forces and crimp resistance

Test description	Wire range [mm ²]	Test data
Crimp extraction force	0,2	> 30 N
	0,35	> 50 N
	0,5	> 60 N
	1,0	> 100 N
	1,5	> 150 N
	2,5	> 200 N
	4,0	> 250 N
	6,0	> 300 N
Crimp resistance	0,2 to 0,5	< 1 mΩ
	0,5 to 1,0	< 0,8 mΩ
	> 1,0 to 6,0	< 0,5 mΩ

Table 1

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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. Ffm		
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NAME Standard Power Timer				

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temperature- / current cycle

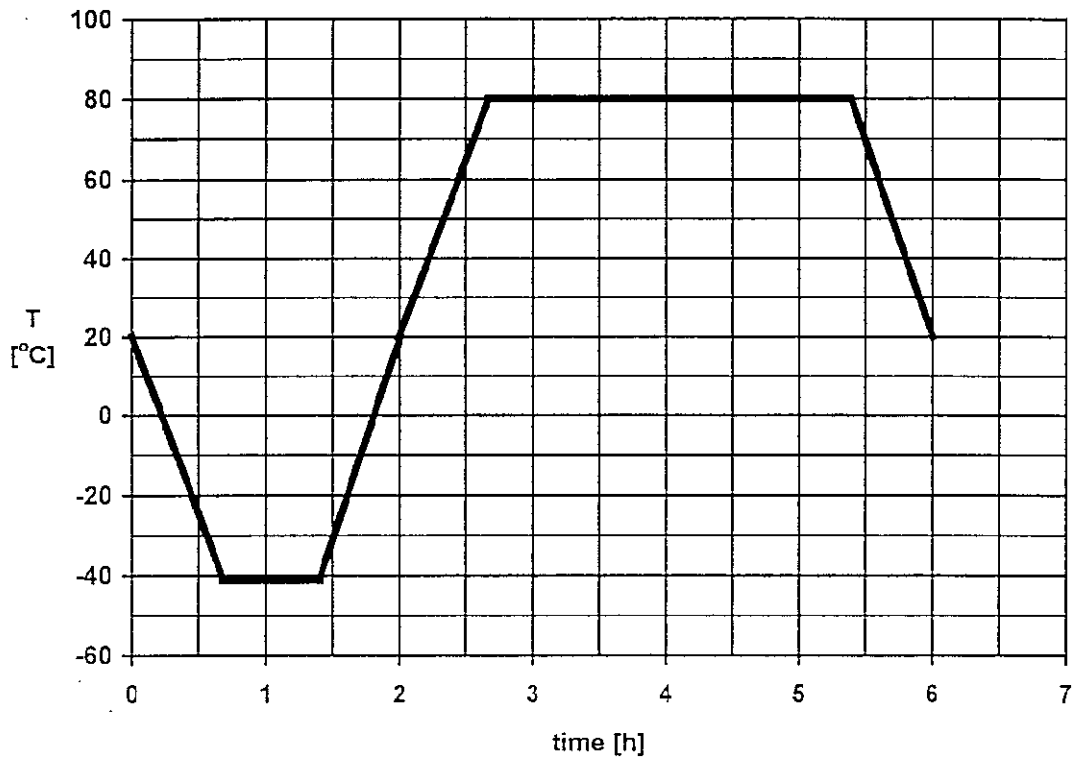
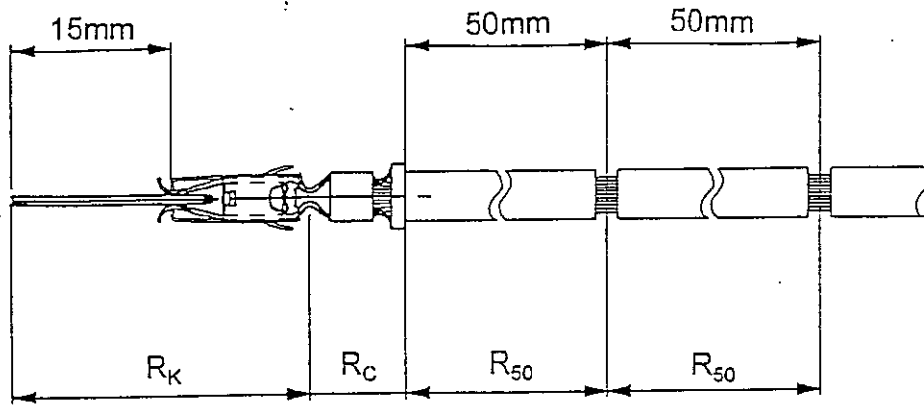


Diagram 1

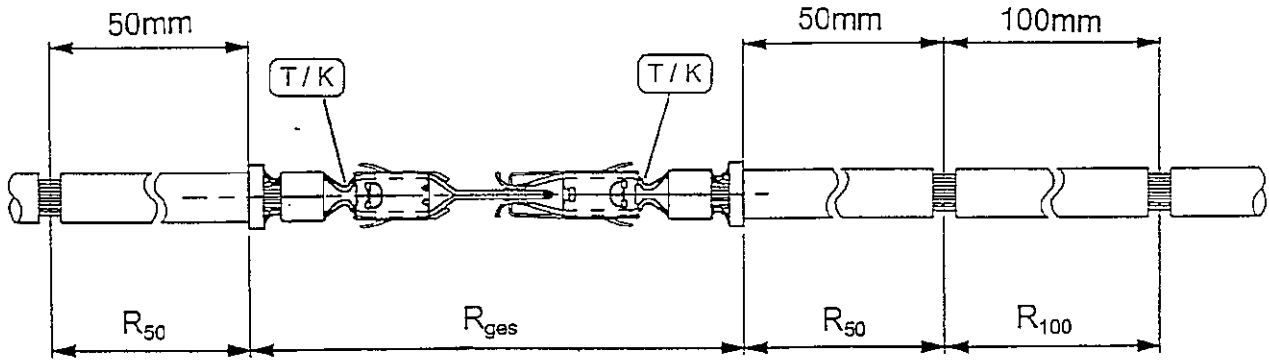
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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FFM		
10	OF 32	LOC A1	NO A4 108-18025-1	REV G
NAME Standard Power Timer				



Crimp- and contact resistance:

- R_k = contact resistance
- R_c = crimp resistance
- R_{50} = resistance of 50mm wire length



Total contact resistance:

- R_{ges} = total contact resistance
- R_{50} = resistance of 50mm wire length
- R_{100} = resistance of 100mm wire length

Fig. 1: Test equipment for crimp and contact resistance

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. F/M		
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NAME Standard Power Timer				

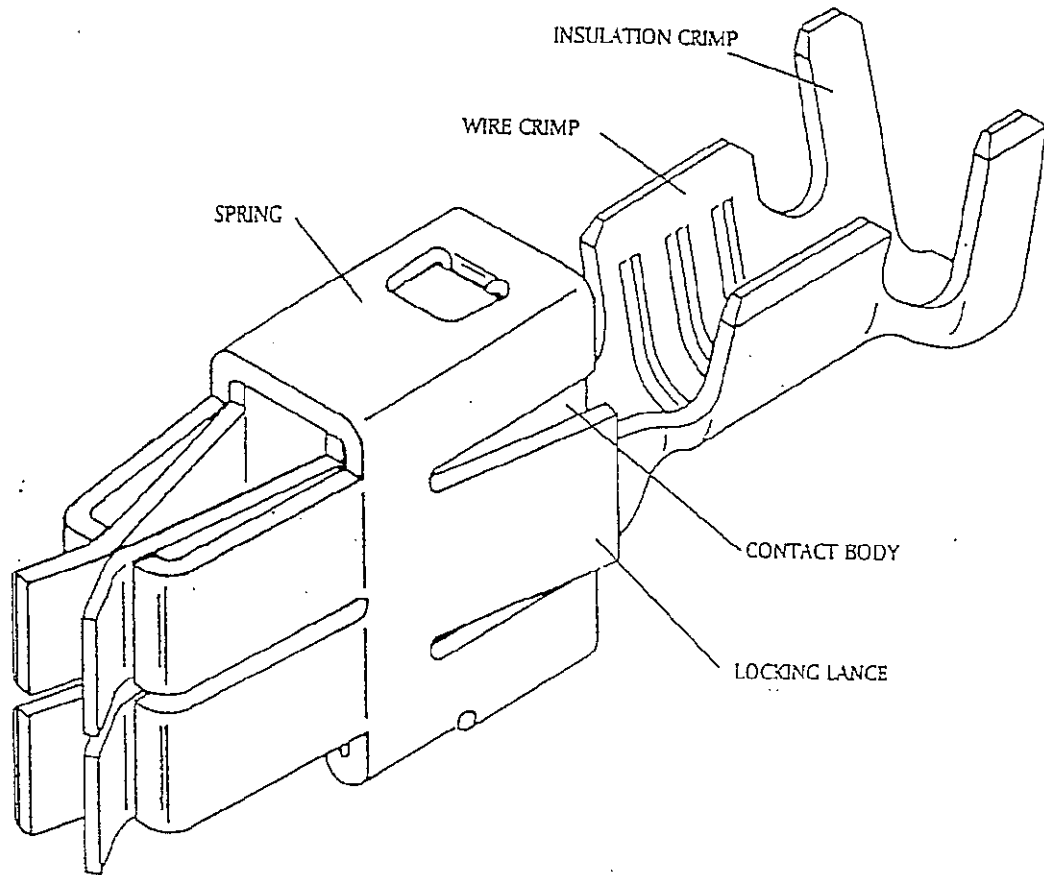


Fig. 2: Contact design

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FFM		
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		108-18025-1		
NAME				
Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Sn4 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Sn4 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²

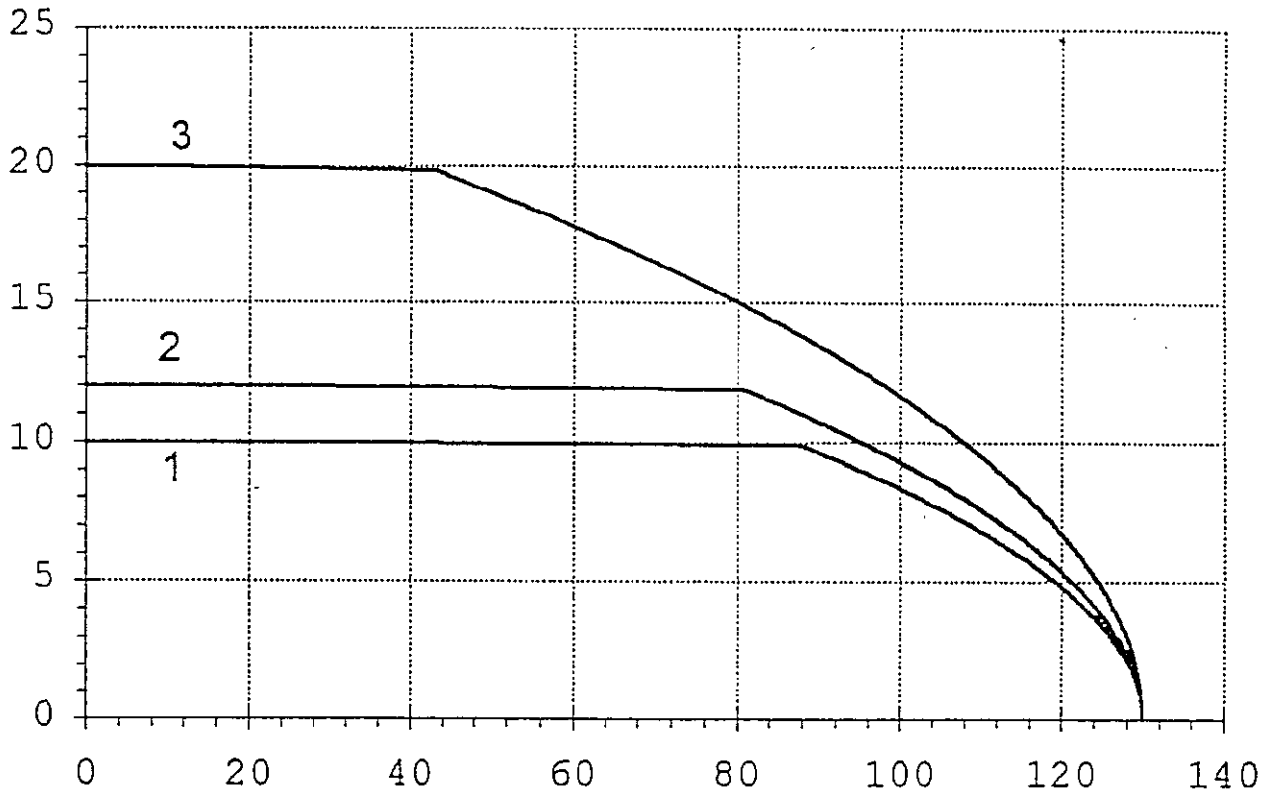


Diagram 2a : current carrying capacity „free in air“

C. V. I. G. U. T. 1
 F. Y. A. C. L. E. U. T. S. C. H. I. N. G. M. H.
 E. L. E. M. E. N. T. E. N. T. I. G. H. T. S. - E. S. E. V. E. I.

DIST

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FIM		
13	OF 32	LOC A1	NO A4	REV G
		108-18025-1		
NAME				
Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²
 Pin : Flat Contact 5,8 x 0,8
 Material : Cu Fe2 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²

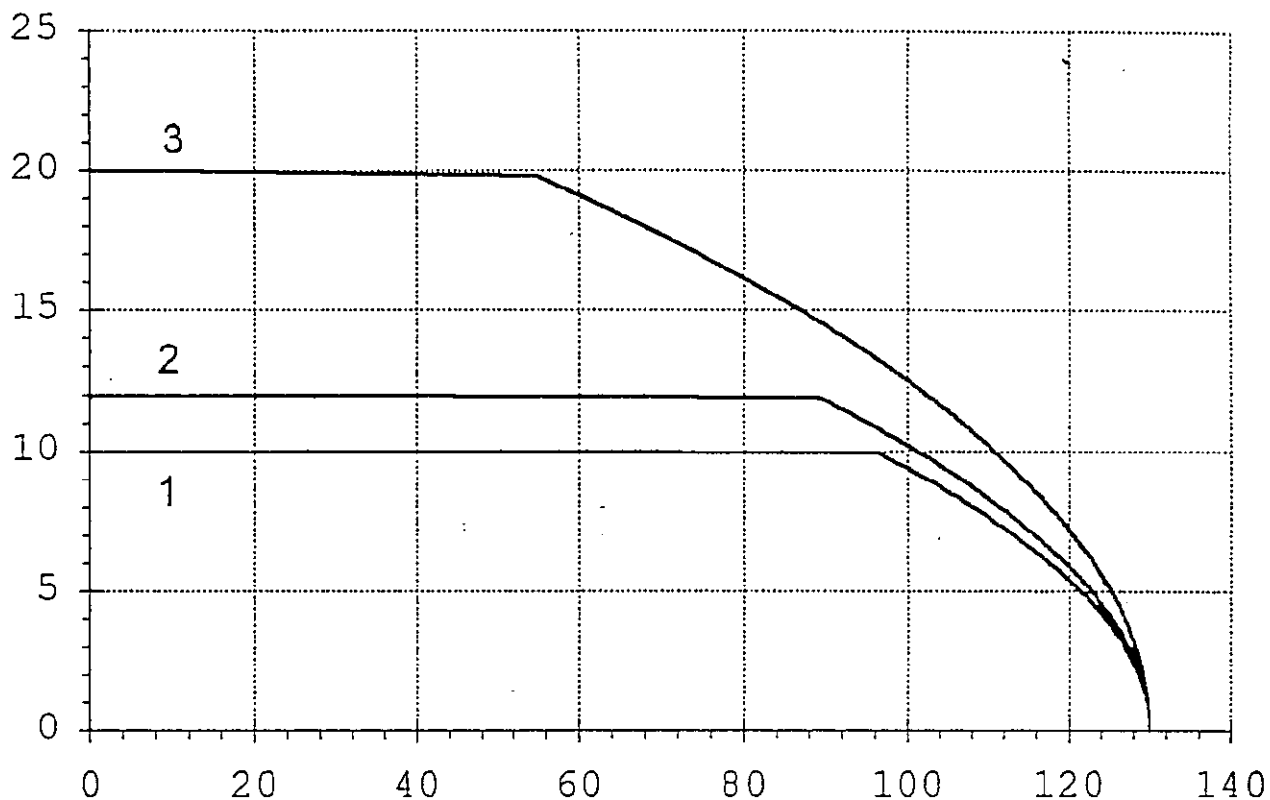


Diagram 2b : current carrying capacity „free in air“

G. Y. ICHT 1
 T. M. DEUTSCHL. N. GMBH
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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
14	OF 32	LOC	NO	REV
		AI	A4	G
		108-18025-1		
NAME				
Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Sn4 / Sn
 Wire Size : 2,5mm², 4,0mm², 6,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Sn4 / Sn
 Wire Size : 2,5mm², 4,0mm², 6,0mm²

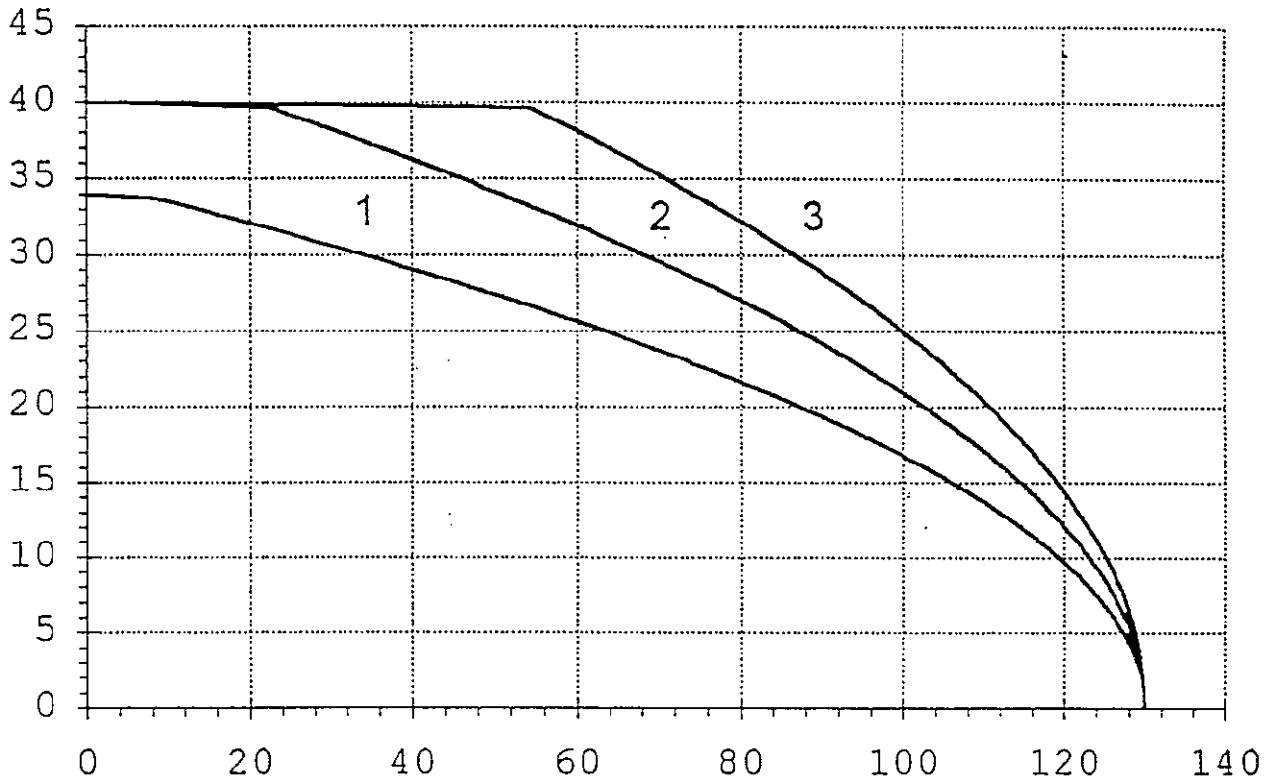


Diagram 2c : current carrying capacity „free in air“

C. Y. IGH 1
 M. LEUBSCH N. GH. H
 LEINIE N. P. W. L. IGHIS. LSC VEI

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FIM		
15	OF 32	LOC A1	NO A4	REV G
		108-18025-1		
NAME				
Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Sn
 Wire Size : 2,5mm² , 4,0mm² , 6,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Fe2 / Sn
 Wire Size : 2,5mm² , 4,0mm² , 6,0mm²

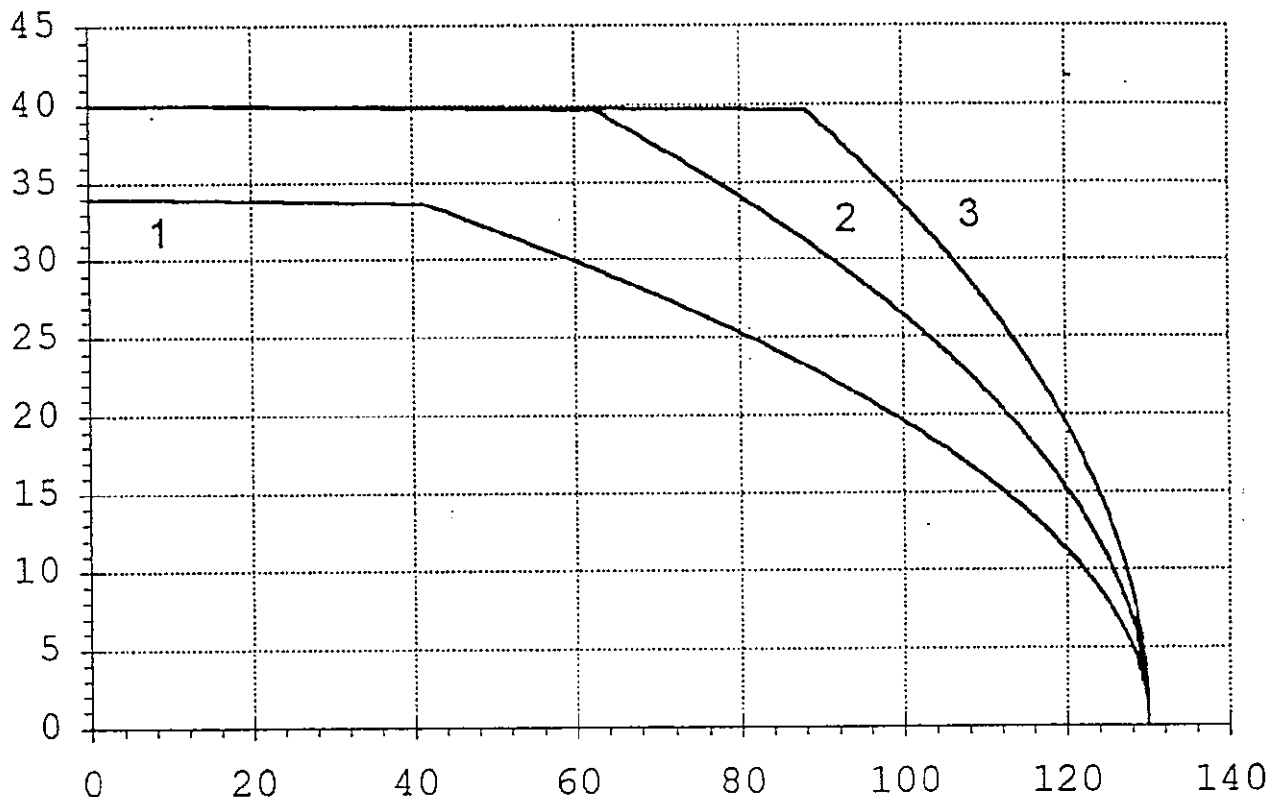


Diagram 2d : current carrying capacity „free in air“

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FFM		
16	OF 32	LOC	NO	REV
		AI	A4	108-18025-1
NAME				
Standard Power Timer				

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LIST

108-18025-1

Receptacle : Standard Power Timer
 Material : CuFe2 / Sn // Cu Sn4 / Sn
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : CuFe2 / Sn // Cu Sn4 / Sn
 Wire Size : 4,0mm²

C.1:SPT: Cu Fe2 - Tab: Cu Fe2
 C.2:SPT: Cu Sn4 - Tab: Cu Fe2
 C.3:SPT: Cu Fe2 - Tab: Cu Sn4
 C.4:SPT: Cu Sn4 - Tab: Cu Sn4

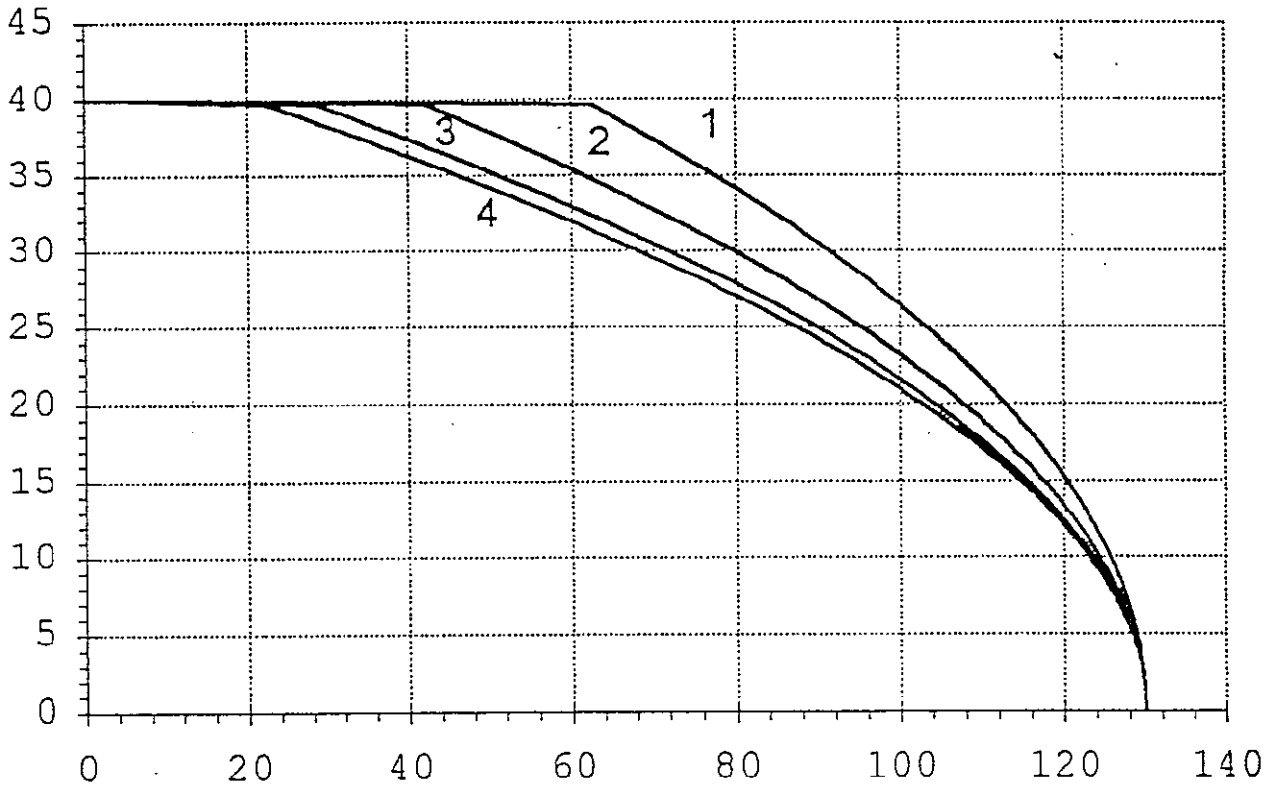


Diagram 2e : current carrying capacity „free in air“

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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. Ffm		
17	OF 32	LOC A1	NO A4 108-18025-1	REV G
NAME Standard Power Timer				

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108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Sn4 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Sn4 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²

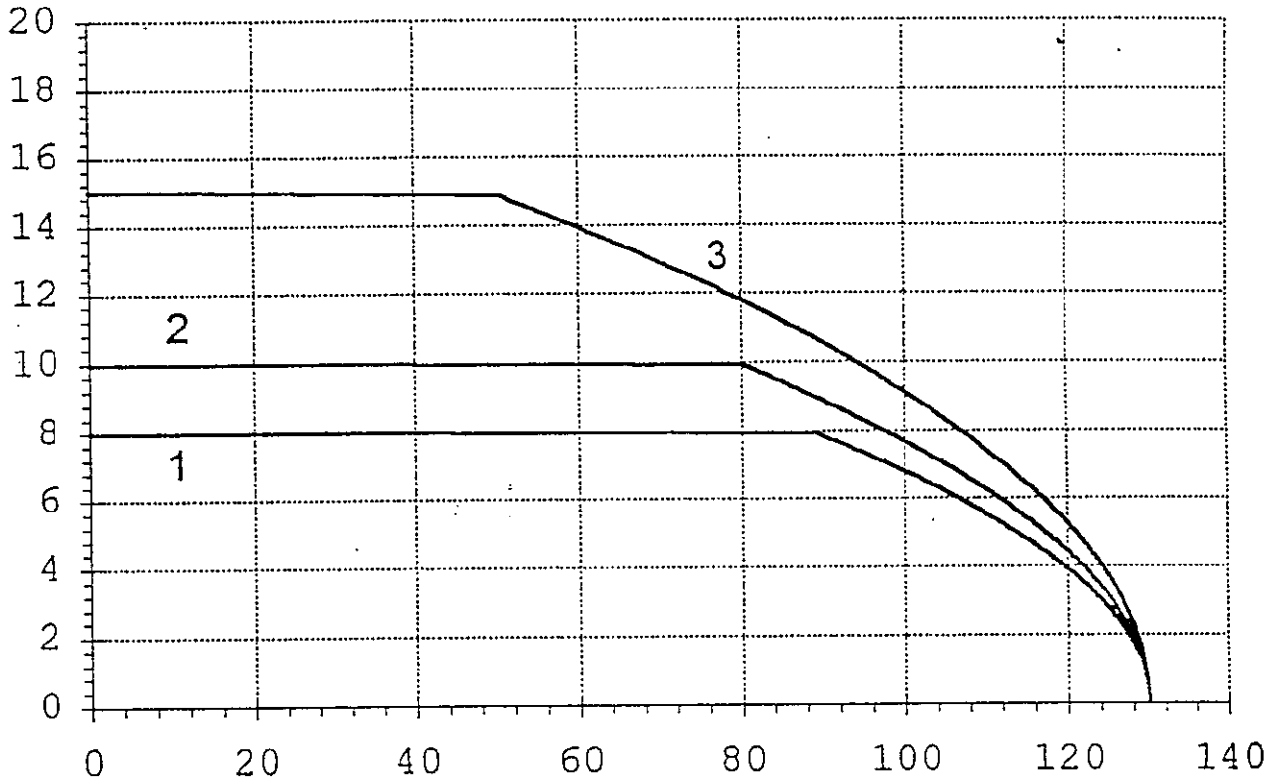


Diagram 3a : current carrying capacity in housing

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		108-18025-1		
NAME				
Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : CuFe2 / Sn
 Wire Size : 0,35mm², 0,5 mm², 1,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : CuFe2 / Sn
 Wire Size : 0,35mm², 0,5mm², 1,0mm²

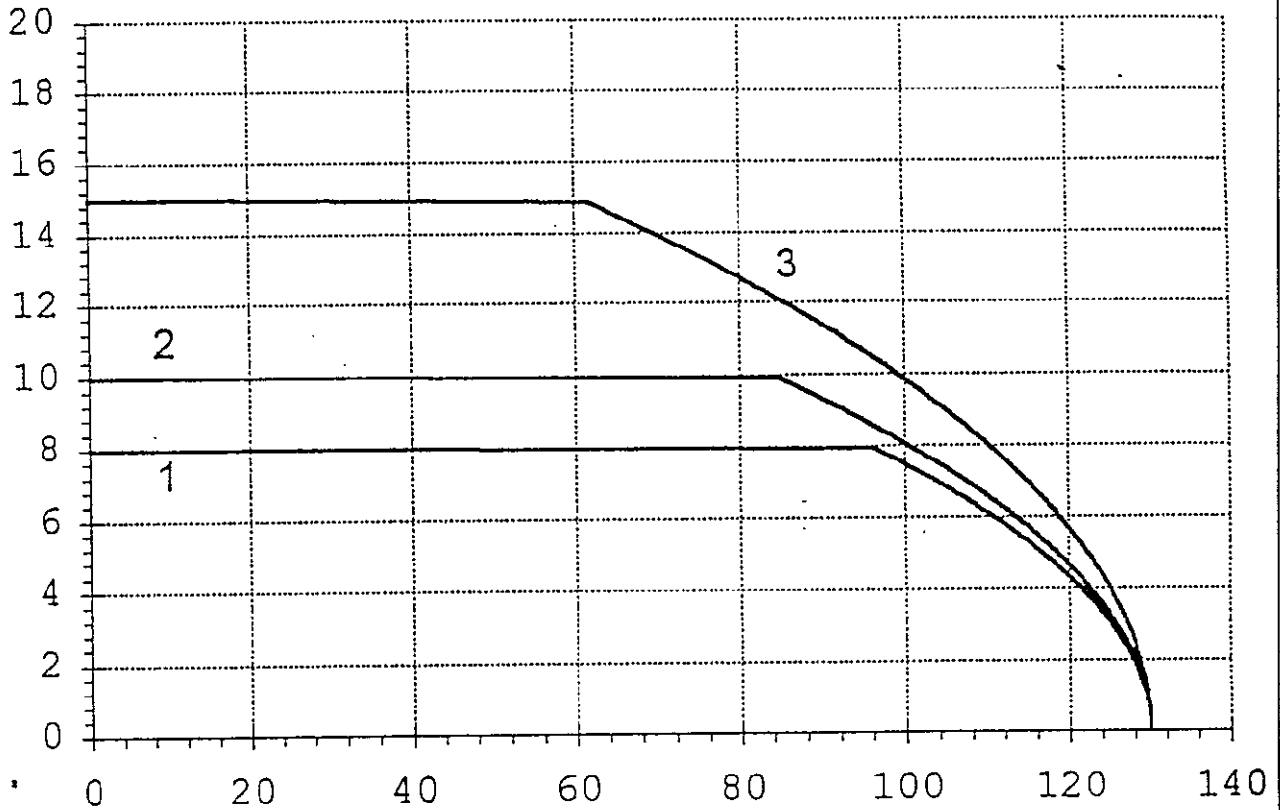


Diagram 3b : current carrying capacity in housing

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 F. M. LEUSCH...
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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
19	OF 32	LOC A1	NO A4	REV G
		108-18025-1		
NAME				
Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Sn4 / Sn
 Wire Size : 2,5mm², 4,0mm²
 Pin Flat Contact 0,8mm² x 5,8mm
 Material : Cu Sn4 / Sn
 Wire Size : 2,5mm², 4,0mm²

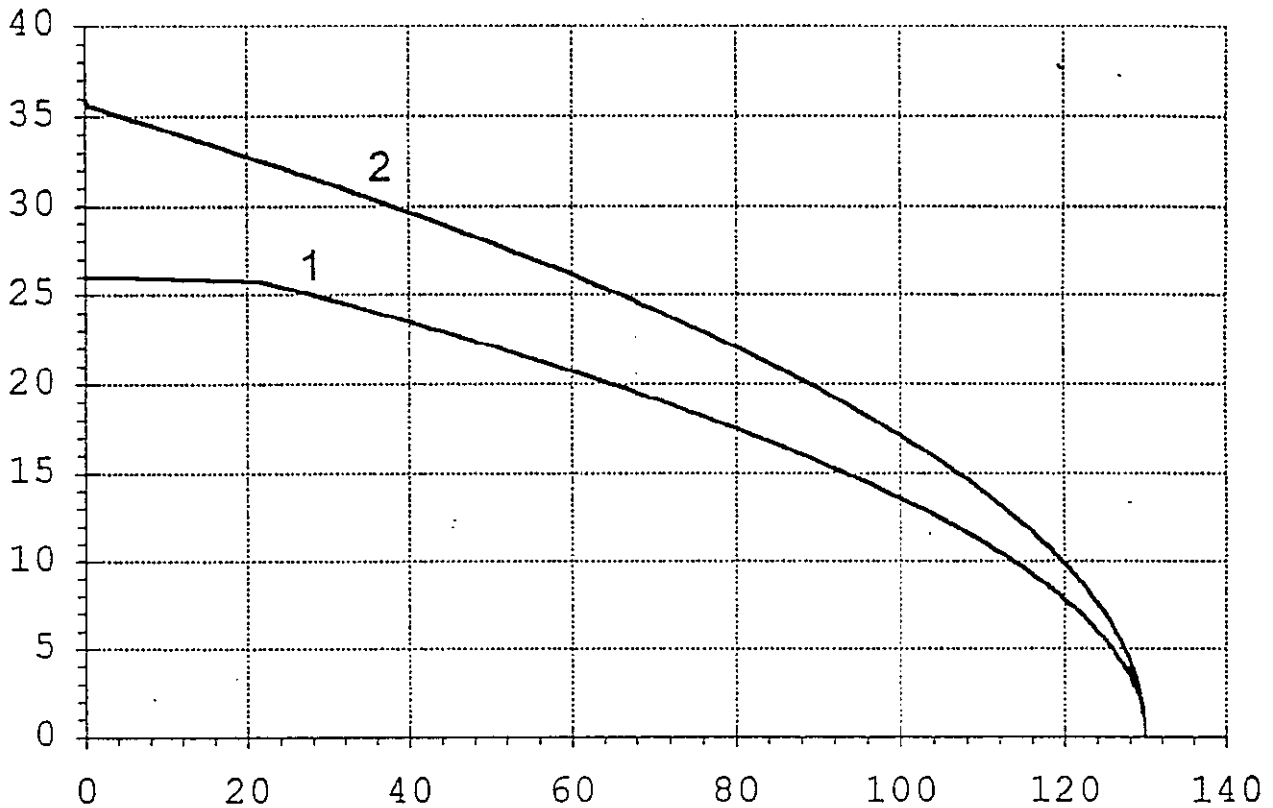


Diagram 3c : current carrying capacity in housing

C. F. M. I. G. H. T. S. P. O. S. T. 1
 U. S. M. A. I. L. I. N. G. S. D. E. U. T. S. C. H. L. A. N. D. G. M. B. H.
 L. I. N. D. E. N. T. N. O. T. A. N. J. I. M. O. R. T. S. I. E. S. E. V. E. I

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. Ffm		
20	OF 32	LOC A1	NO A4	REV 108-18025-1 G
NAME Standard Power Timer				

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Receptacle : Standard Power Timer
 Material : Cu Fe2 / Sn
 Wire Size : 2,5mm², 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Fe2 / Sn
 Wire Size : 2,5mm², 4,0mm²

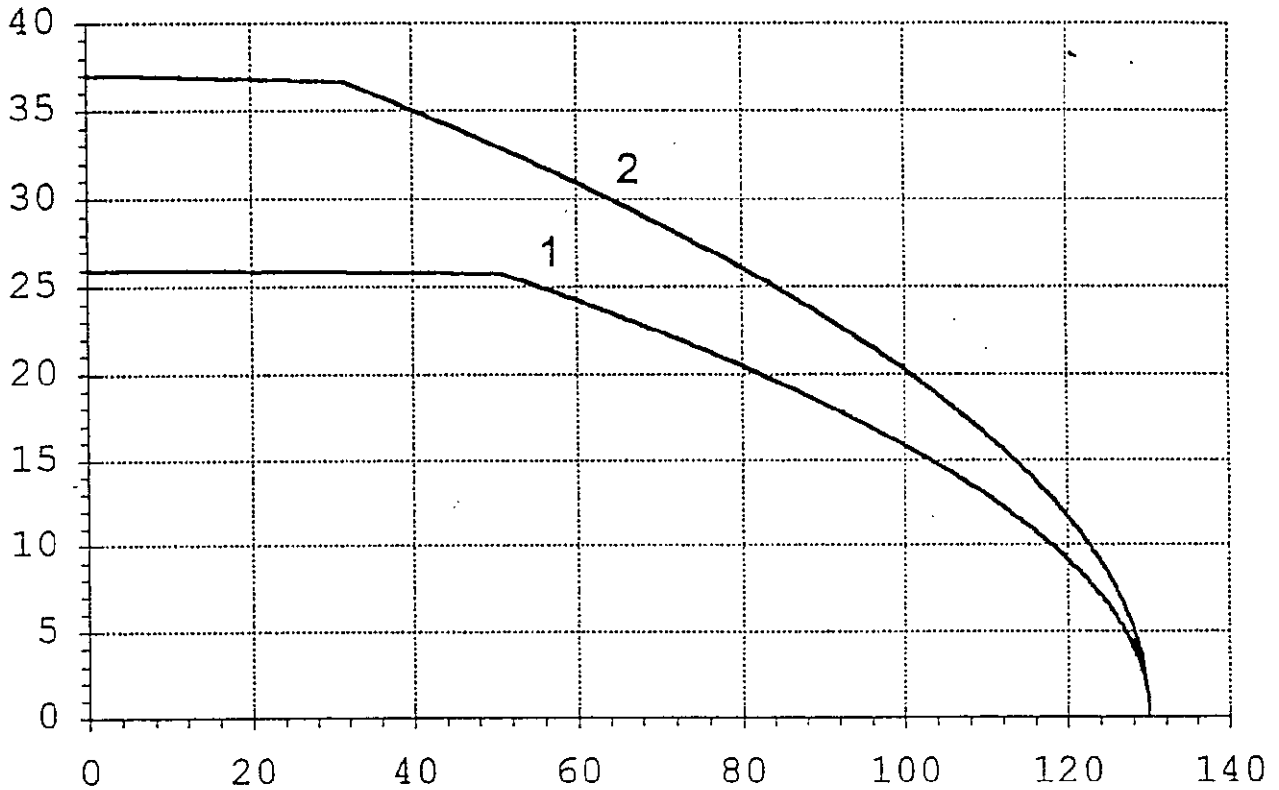


Diagram 3d : current carrying capacity in housing

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 F. W. DEUTSCH N. G. M. H.
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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
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		AI	A4	G
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Standard Power Timer				

DIST

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Sn // Cu Sn4 / Sn
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 mm
 Material : Su Zn / Sn
 Wire Size : 4,0mm²

C.1: Cu Fe2 / Sn
 C.2: Cu Sn4 / Sn

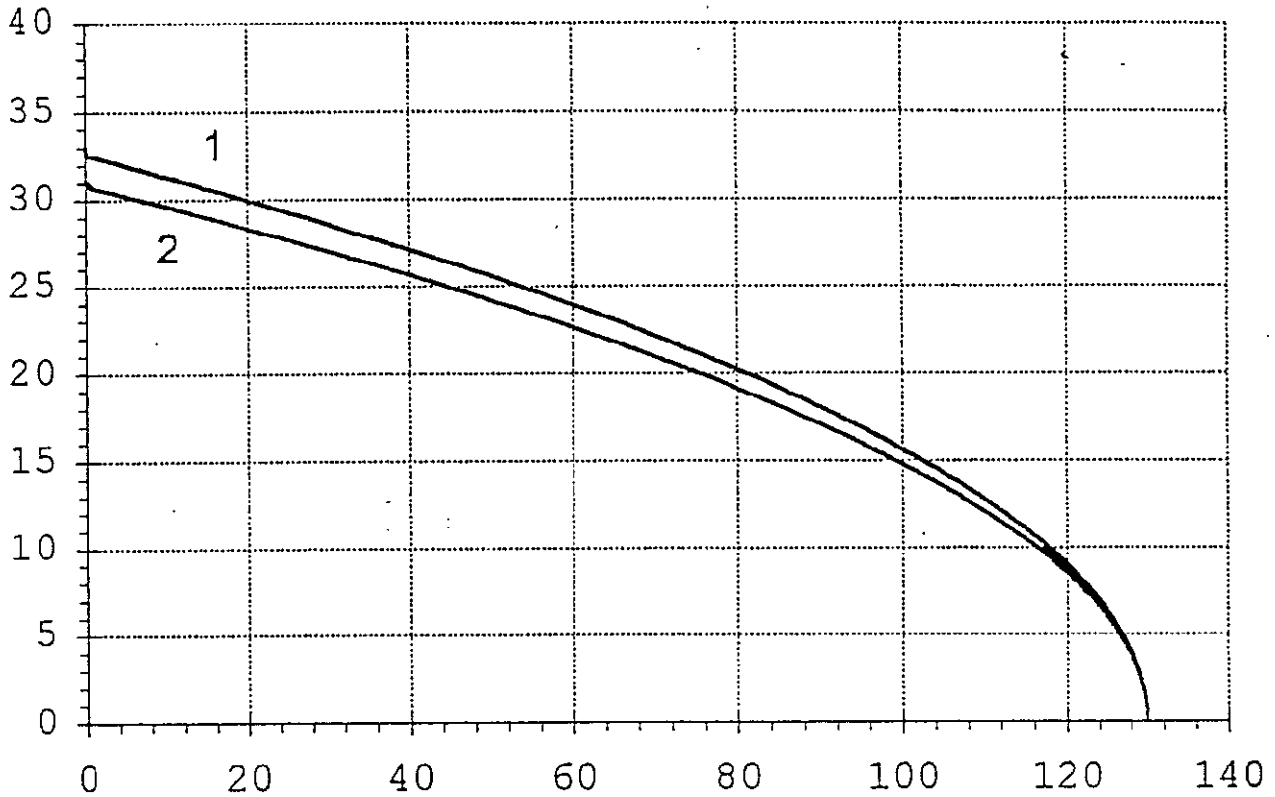


Diagram 3e: current carrying capacity in housing

C.1: Y. ICHT 1.0.0.
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22	OF 32	LOC A1	NO A4	REV 108-18025-1 G
NAME Standard Power Timer				

U1ST

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Ag // Cu Sn4 / Ag
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Fe2 / Ag // Cu Sn4, Ag
 Wire Size : 4,0mm²

C.1: Cu Fe2 / Ag
 C.2: Cu Sn4 / Ag

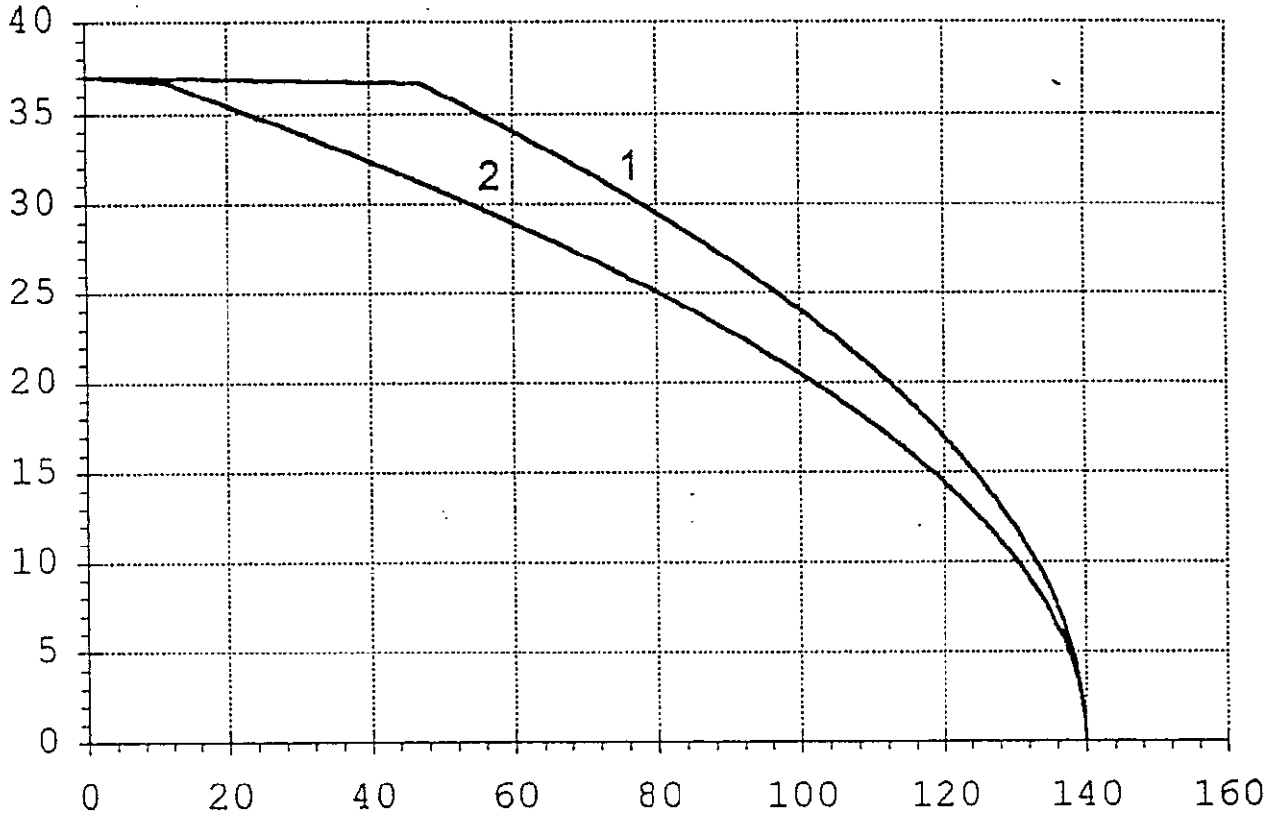


Diagram 3f : current carrying capacity in housing

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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
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NAME Standard Power Timer				

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Receptacle : Standard Power Timer
 Material : Cu Fe2 / Au // Cu Sn4 / Au
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Zn / Au
 Wire Size : 4,0mm²

C.1: Cu Fe2 / Au
 C.2: Cu Sn4 / Au

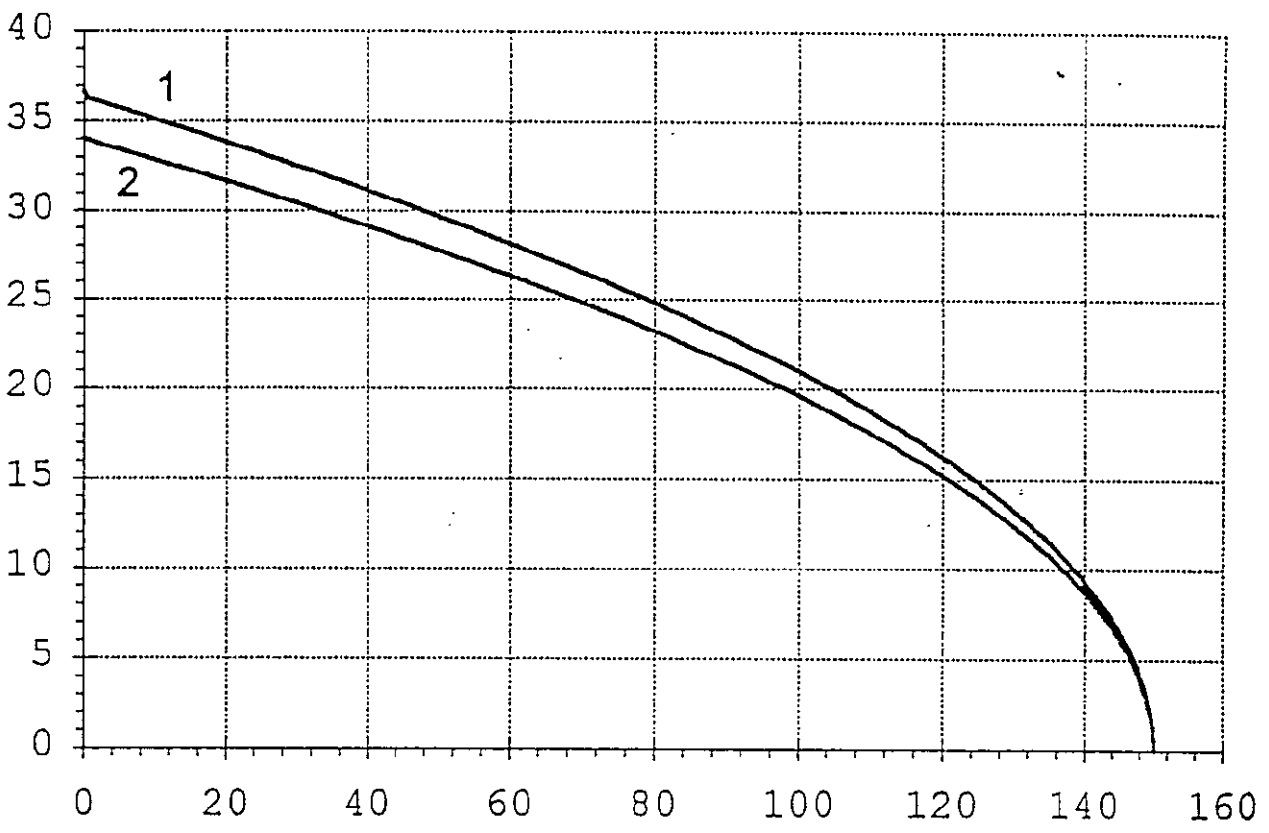


Diagram 3g : current carrying capacity in housing

C. Y. IGHTI
 F. Y. A. DEUTSCHL. N. GMBH
 CLINIE N. T. N. I. IGHTS. ESE. VEI

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
24	OF 32	LOC A1	NO A4	REV G
		108-18025-1		
NAME				
Standard Power Timer				

DIST

108-18025-1

Receptacle : Standard Power Timer
 Material : CuSn4 / Sn
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Zn / Sn
 Wire Size : 4,0mm²

C.1:before stress test
 C.2:after stress test

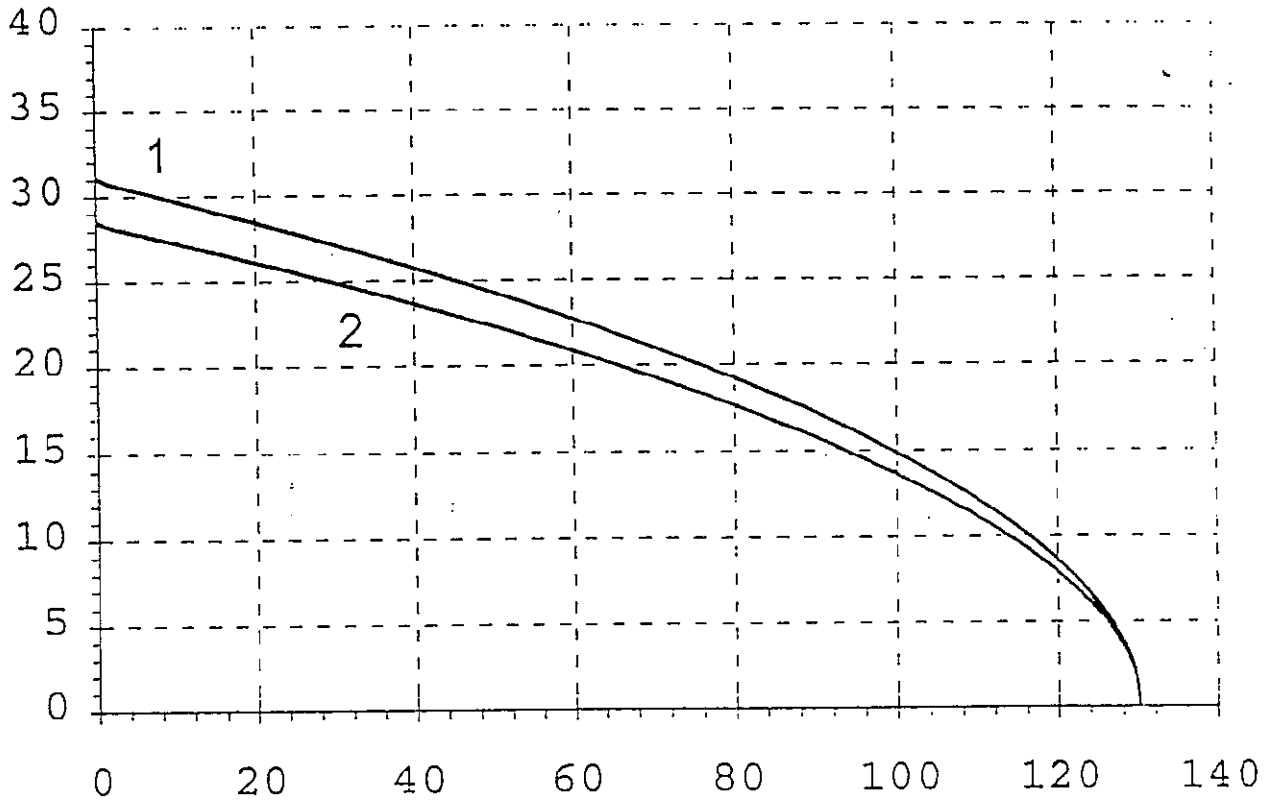


Diagram 4b : current carrying capacity (before and after electrical stress test)

C.1.V. IGHIT 1
 EY. M. TEUSCHL N. GM. H
 LL. INIE N. TI N. L. IGHIT. ESE VEI

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
26	OF 32	LOC A1	NO A4 108-18025-1	REV G
NAME Standard Power Timer				

DIST

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Sn
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Fe2 / Sn
 Wire Size : 4,0mm²

C.1: before stress test
 C.2: after stress test

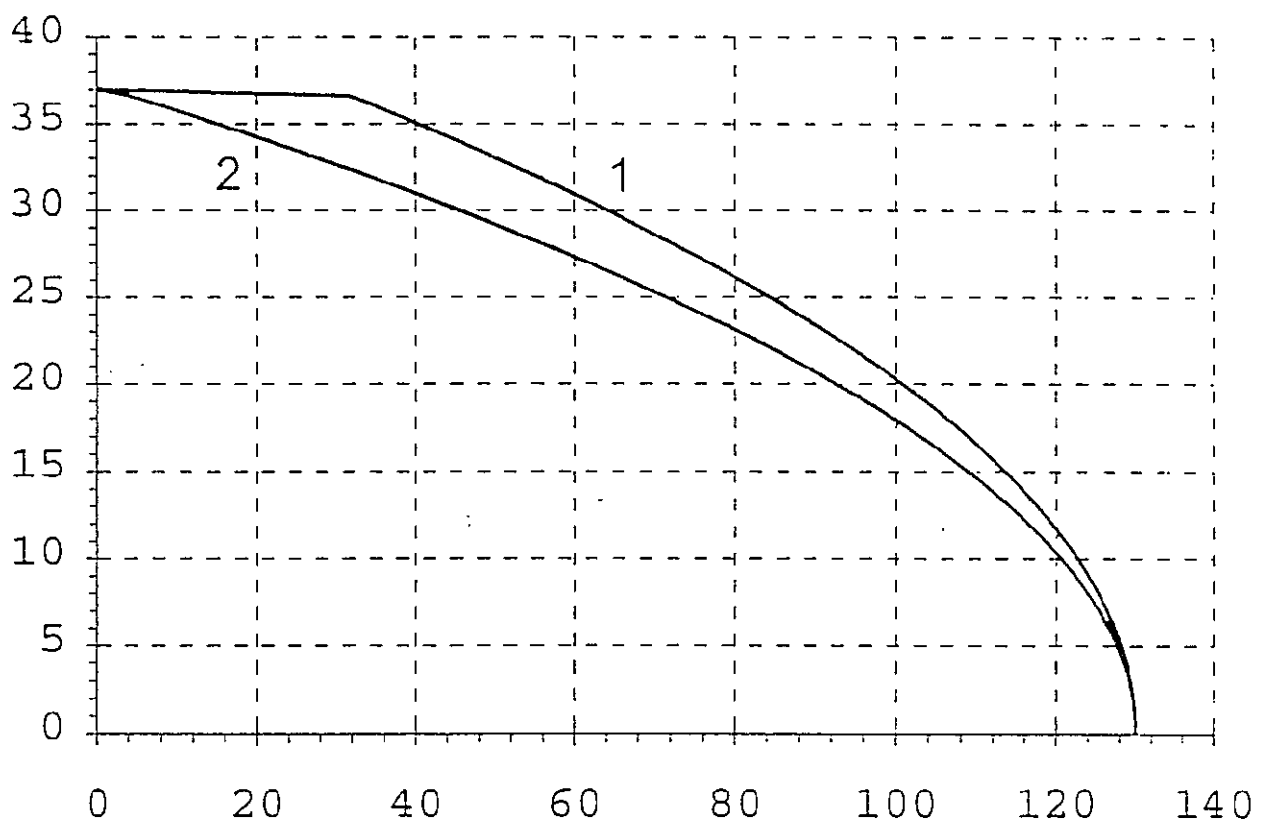


Diagram 4c : current carrying capacity (before and after electrical stress test)

C. Y. IGHIT 1
 IY M. T. DEUTSCHL. NI. GM. H.
 LLNIE N. T. N. L. IGHIT. ESE VET

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
27	OF 32	LOC A1	NO A4 108-18025-1	REV G
NAME Standard Power Timer				

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Sn
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Zn / Sn
 Wire Size : 4,0mm²

C.1: before stress test
 C.2: after stress test

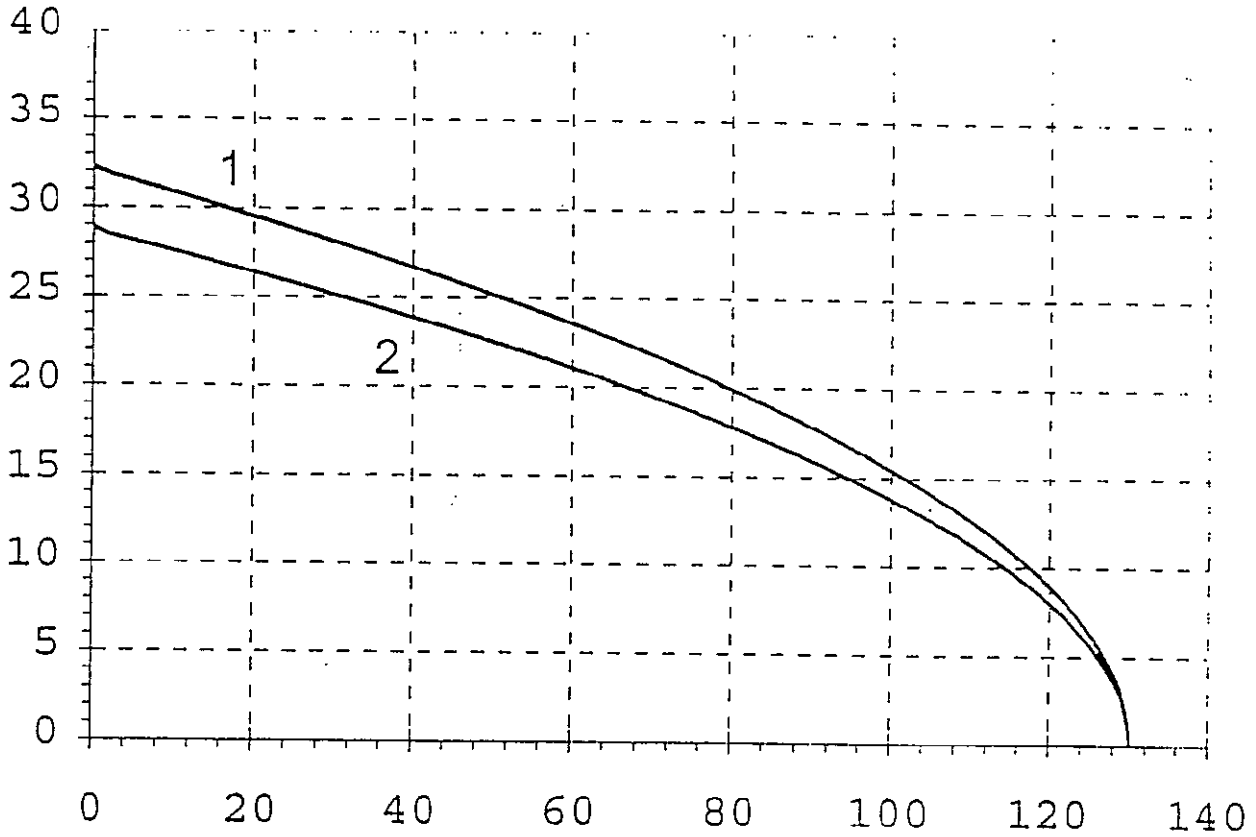


Diagram 4d : current carrying capacity (before and after stress test)

C. Y. ICHT 1 ...
 (Y. M. LEUTSCHL N. G. M. H.
 LLINIE N. N. N. L. ICHTS. ESE VEI

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM			
28	OF 32	LOC	NO	REV	
		A1	A4	108-18025-1	G
NAME					
Standard Power Timer					

U181

108-18025-1

Receptacle : Standard Power Timer
 Material : CuSn4 / Ag
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : CuSn4 / Ag
 Wire Size : 4,0mm²

C.1:before stress test
 C.2:after stress test

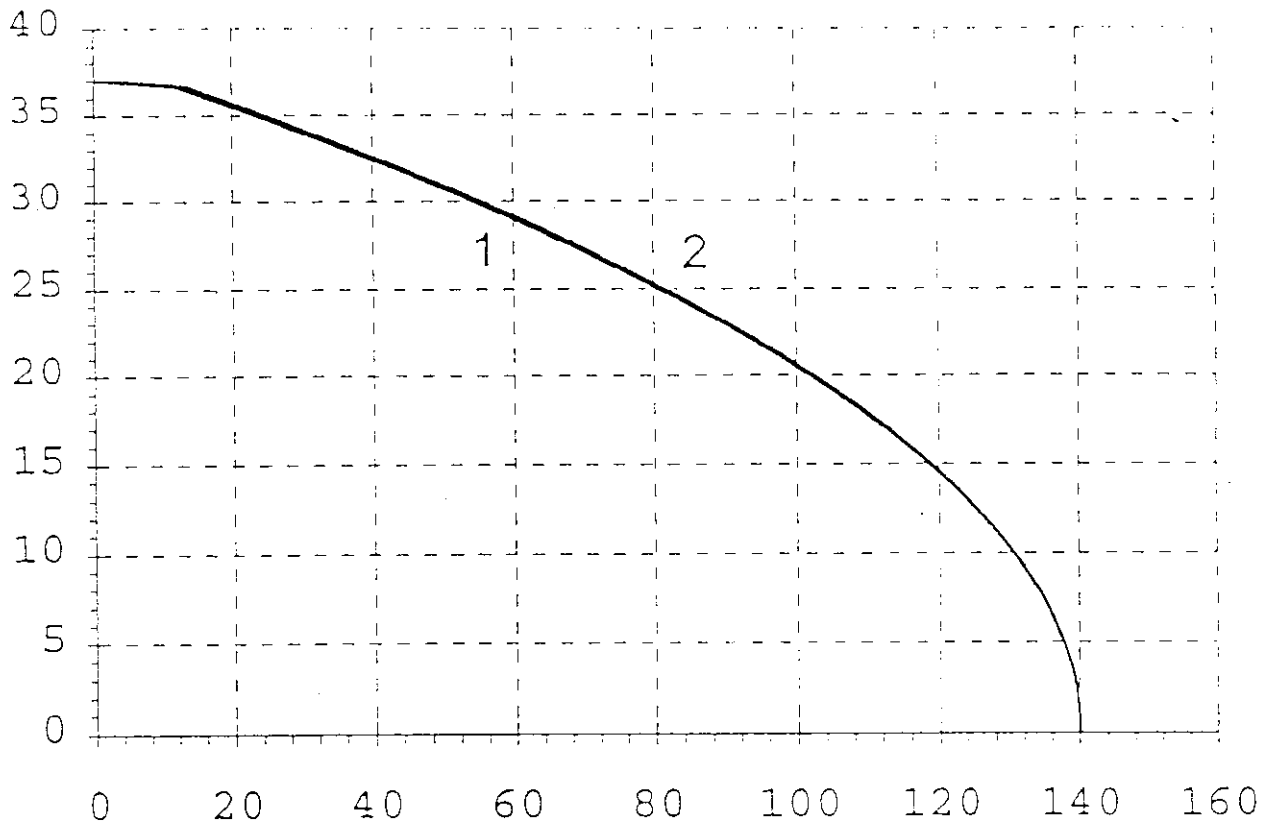


Diagram 4e : current carrying capacity (before and after electrical stress test)

C. Y. 10/11/11
 U. M. DEUTSCHLAND GMBH
 LEHRF. U. U. N. I. LEHRF. LEHRF. VED.

SHEET		AMP		AMP DEUTSCHLAND GmbH Langen b. FfM	
29	OF 32	LOC	NO	REV	
		A1	A4	108-18025-1	G
NAME					
Standard Power Timer					

108-18025-1

Receptacle : Standard Power Timer
 Material : Cu Fe2 / Ag
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Fe2 / Ag
 Wire Size : 4,0mm²

C.1:before stress test
 C.2:after stress test

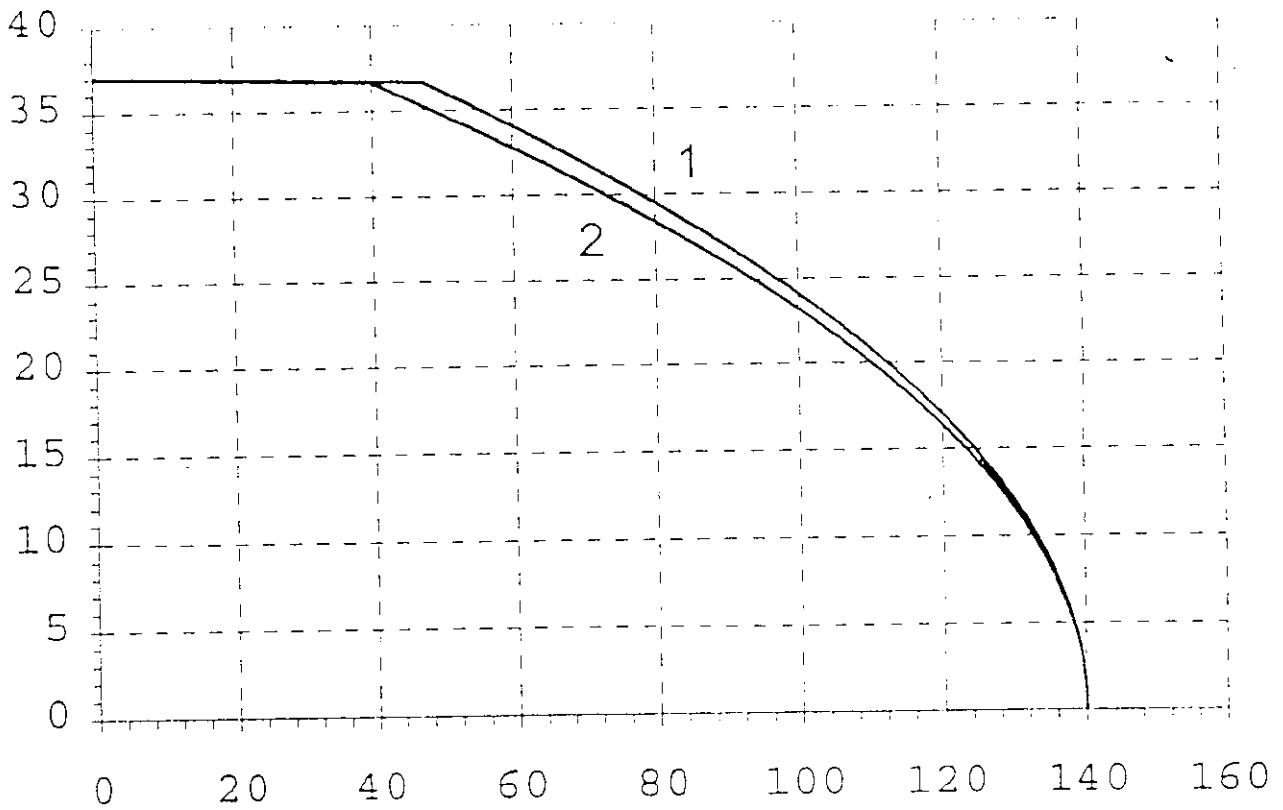


Diagram 4f : current carrying capacity (before and after electrical stress test)

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SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FfM		
30	OF 32	LOC:	NO	REV
		AI	A4	108-18025-1 G
NAME				
Standard Power Timer				

Receptacle : Standard Power Timer
 Material : CuSn4 / Au
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Zn / Au
 Wire Size : 4,0mm²

C.1: before stress test
 C.2: after stress test

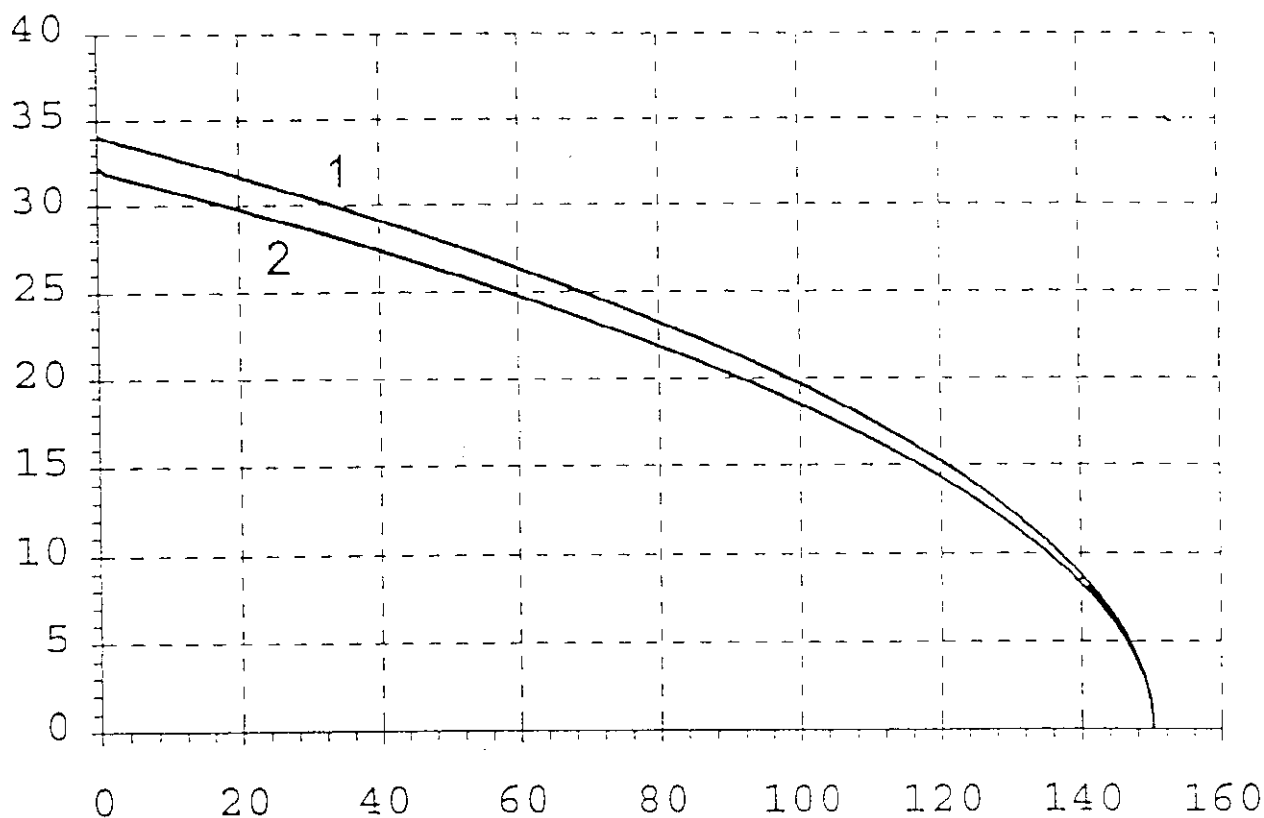


Diagram 4g : current carrying capacity (before and after stress test)

SHEET		AMP AMP DEUTSCHLAND GmbH Langen b. FIM		
31	OF 32	LOC A1	NO A4	REV G
		108-18025-1		
NAME				
Standard Power Timer				

Receptacle : Standard Power Timer
 Material : CuFe2 / Au
 Wire Size : 4,0mm²
 Pin : Flat Contact 5,8 x 0,8mm
 Material : Cu Zn / Au
 Wire Size : 4,0mm²

C.1: before stress test
 C.2: after stress test

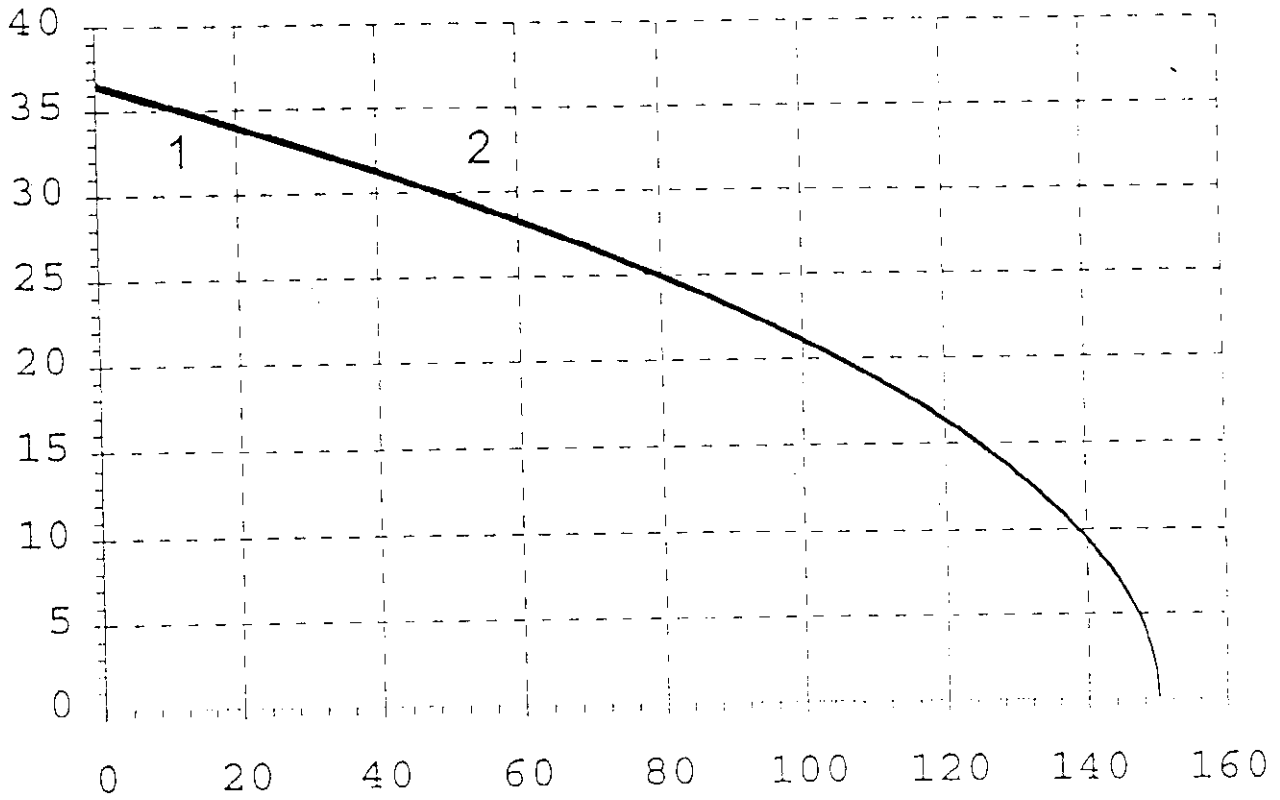


Diagram 4h : current carrying capacity (before and after stress test)

DRUCKRECHT BEI AMF DEUTSCHLAND GMBH
 VERBODEN TOEGANG TOEGANG TOEGANG TOEGANG TOEGANG

SHEET		AMP AMF DEUTSCHLAND GmbH Langen b. FIM			
32	OF 32	LOC	NO	REV	
AI	A4	108-18025-1		G	
NAME					
Standard Power Timer					

单击下面可查看定价，库存，交付和生命周期等信息

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