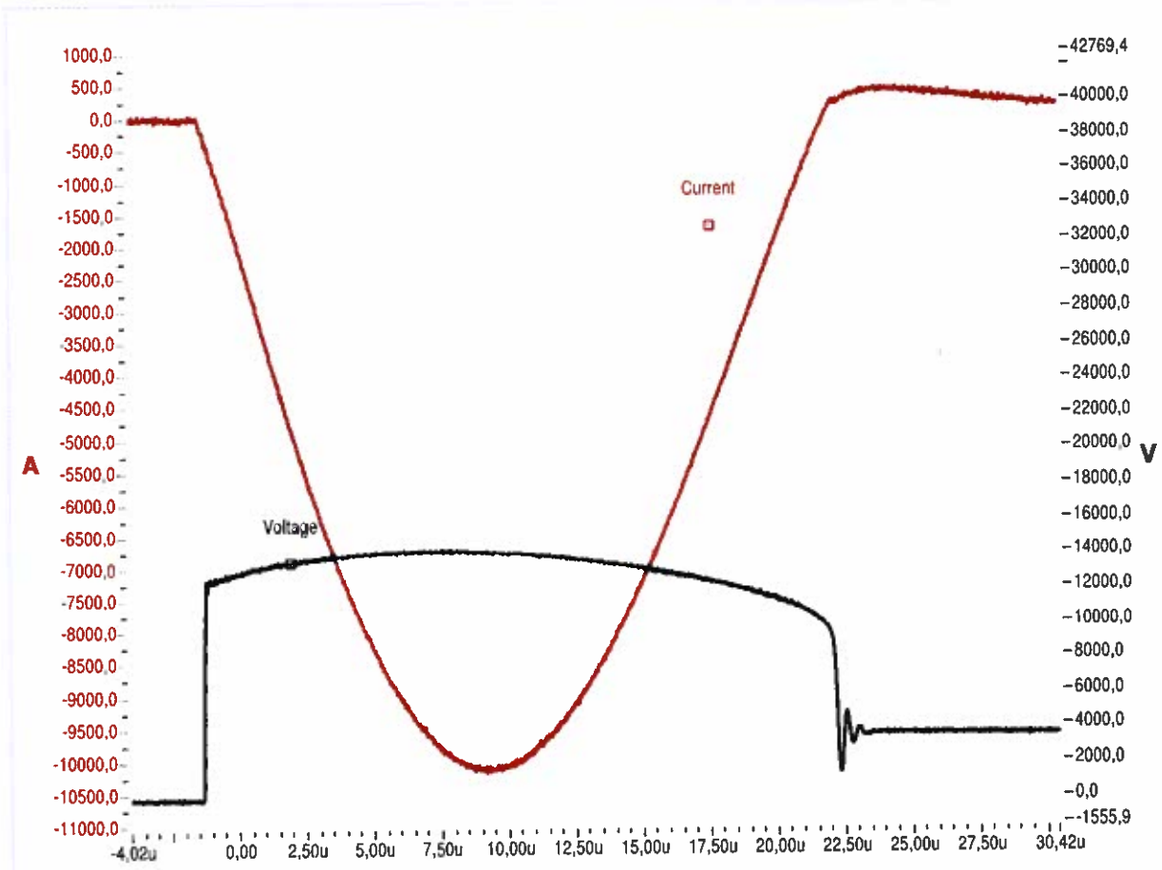
CESI B7020147 Oscillogram n. 51



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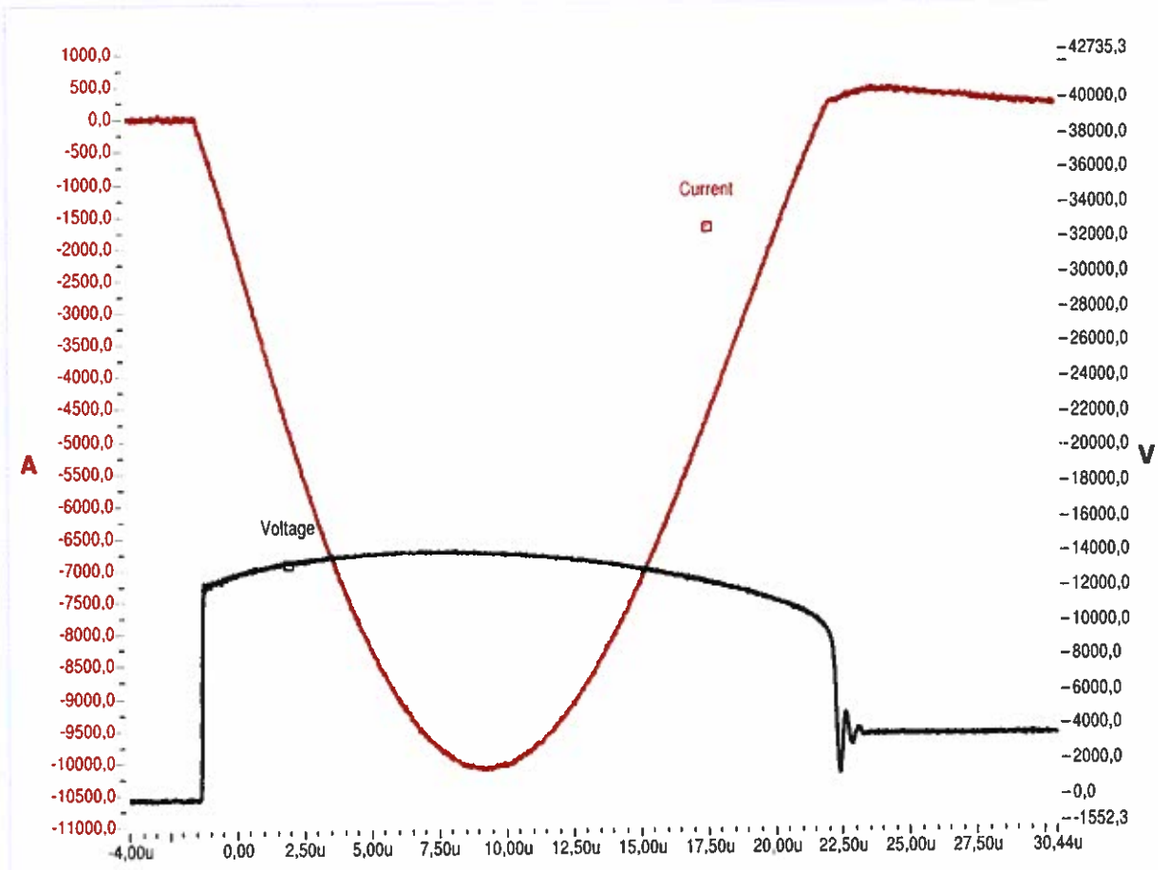
CESI B7020147 Oscillogram n. 52



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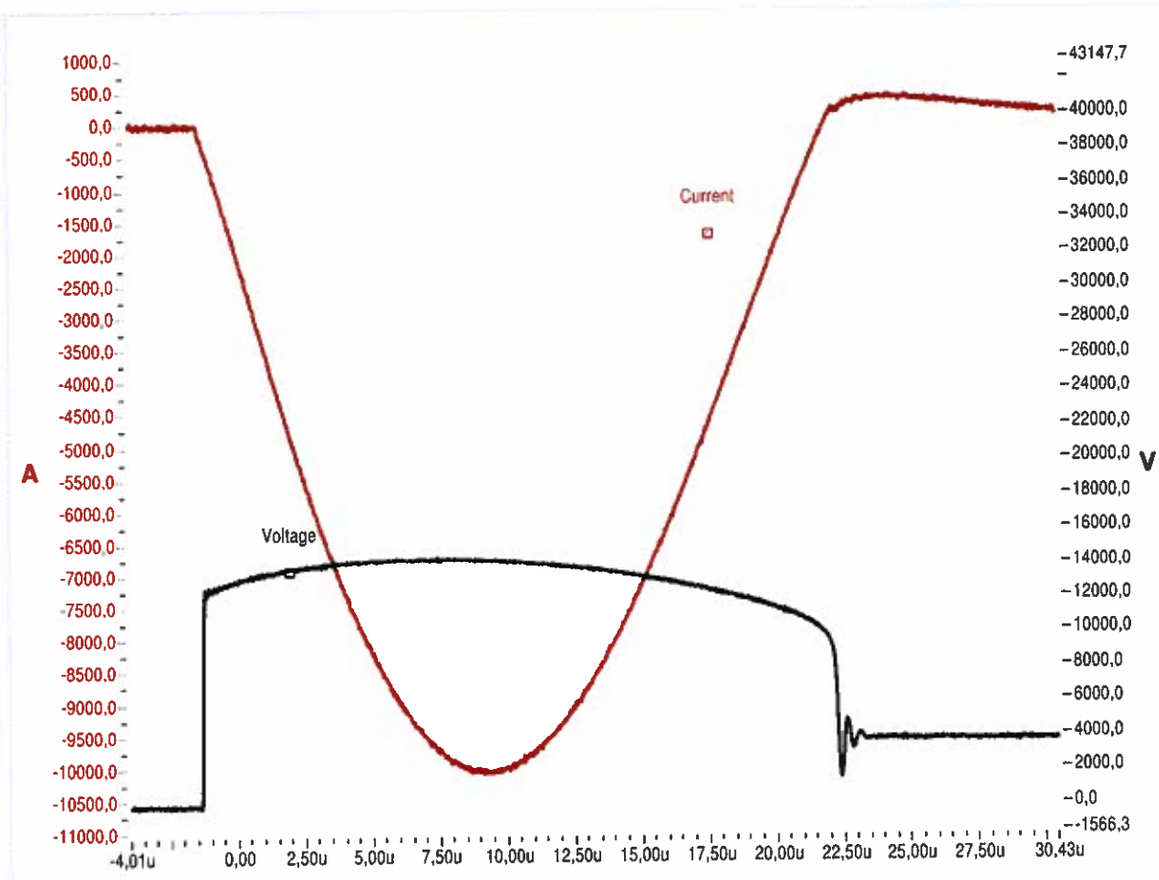

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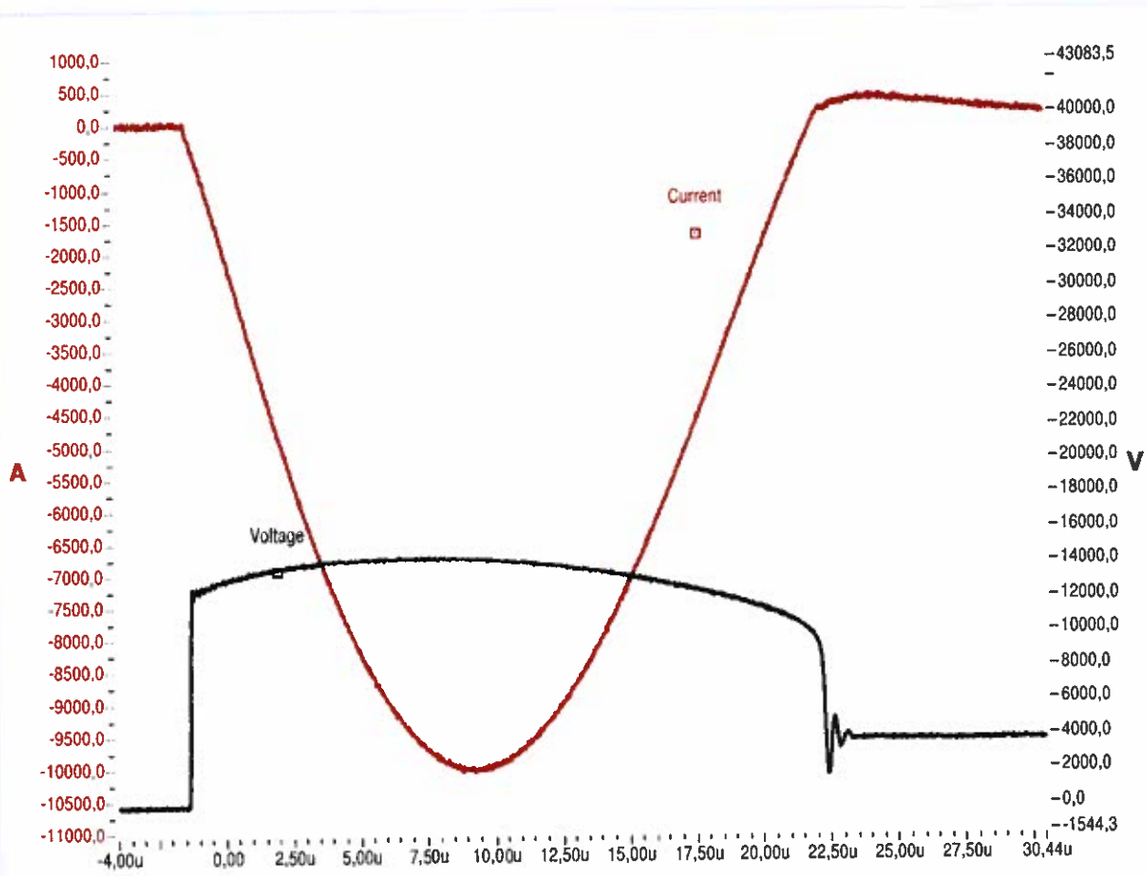
CESI B7020147 Oscillogram n. 54



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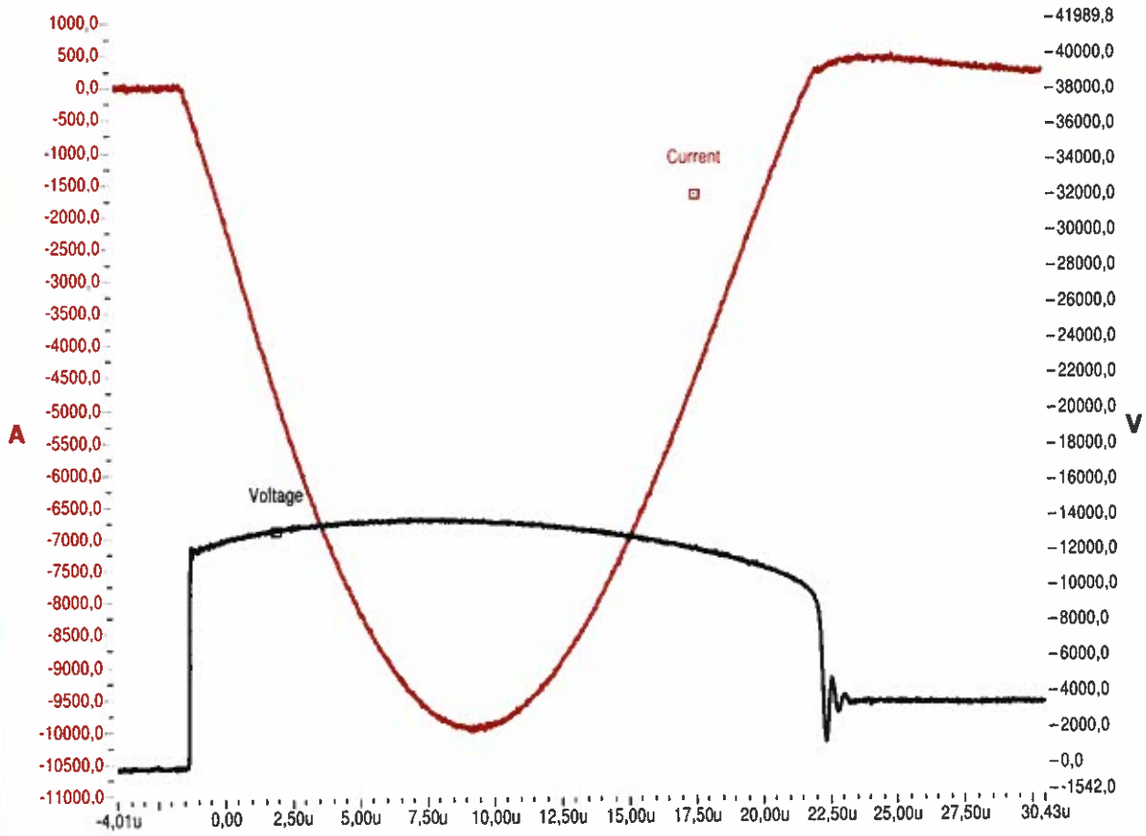
CESI B7020147 Oscillogram n. 55



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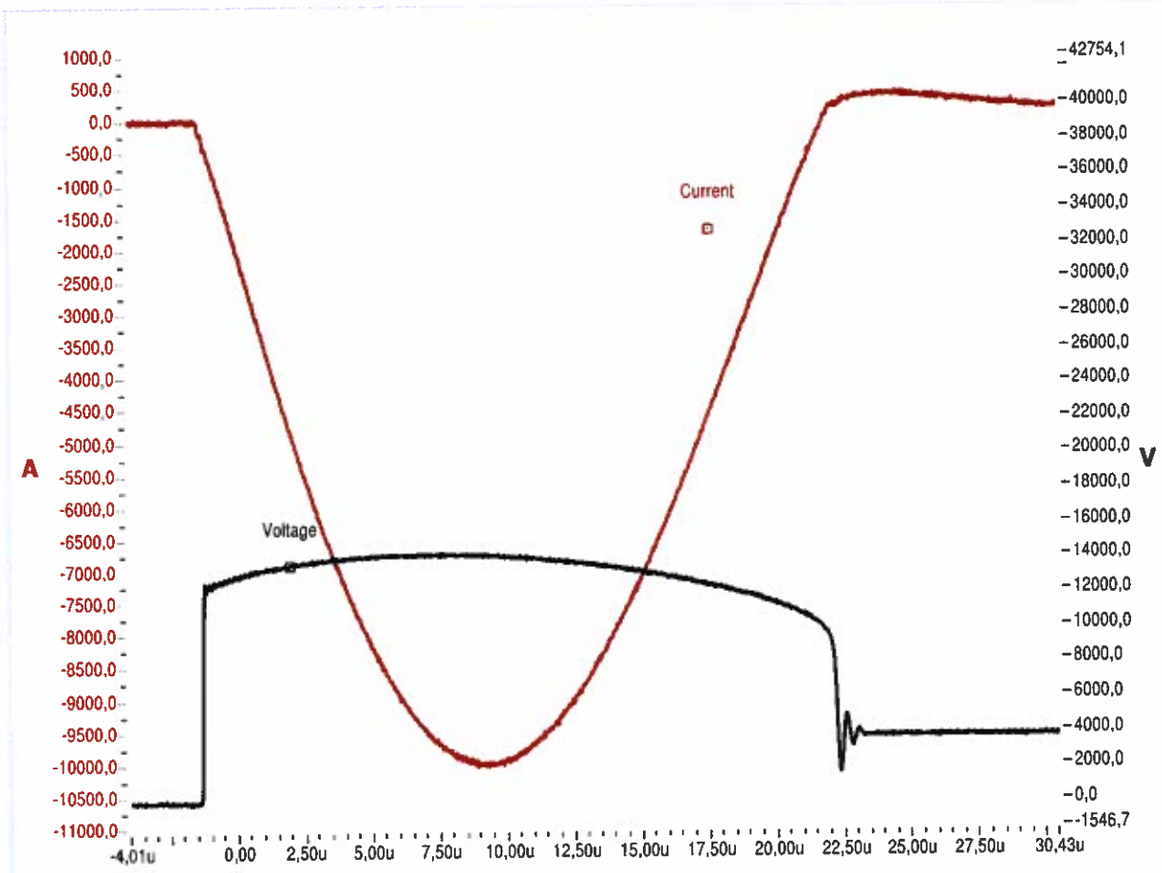
CESI B7020147 Oscillogram n. 56



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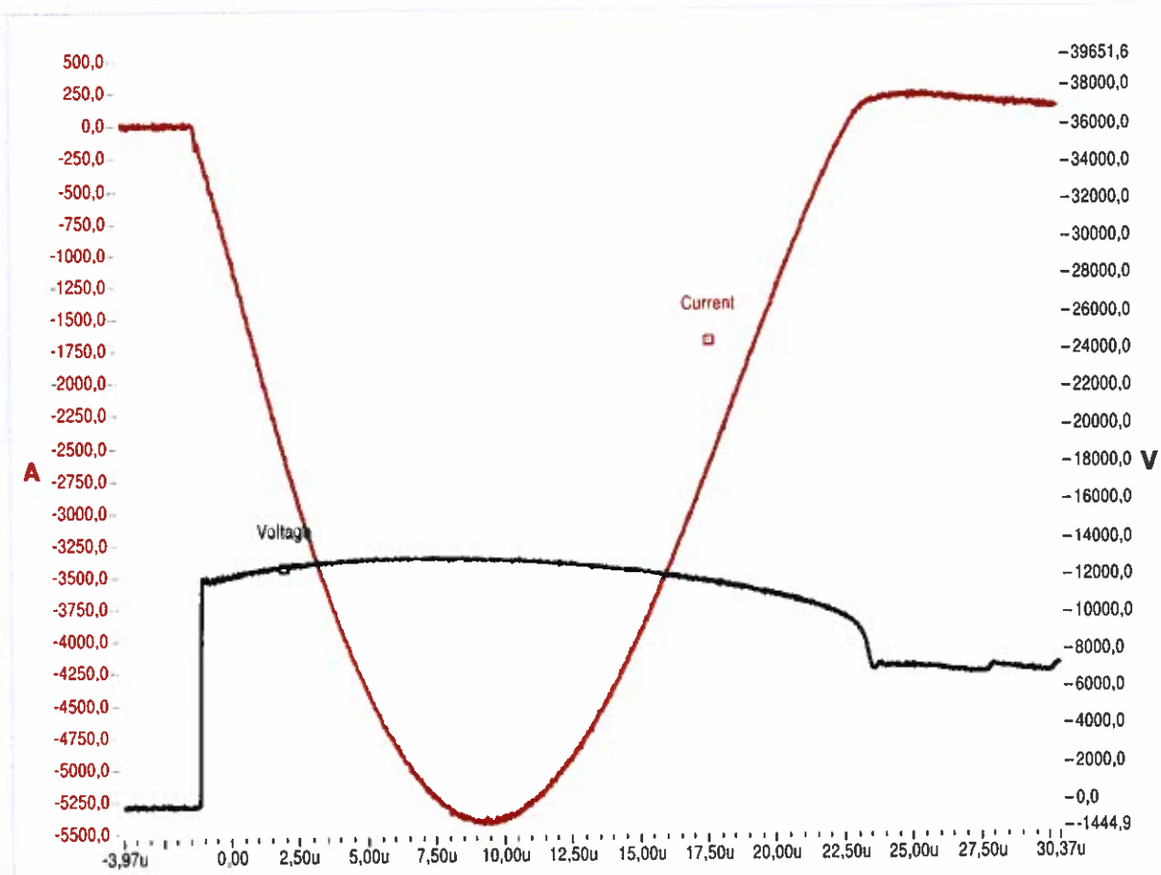
CESI B7020147 Oscillogram n. 57



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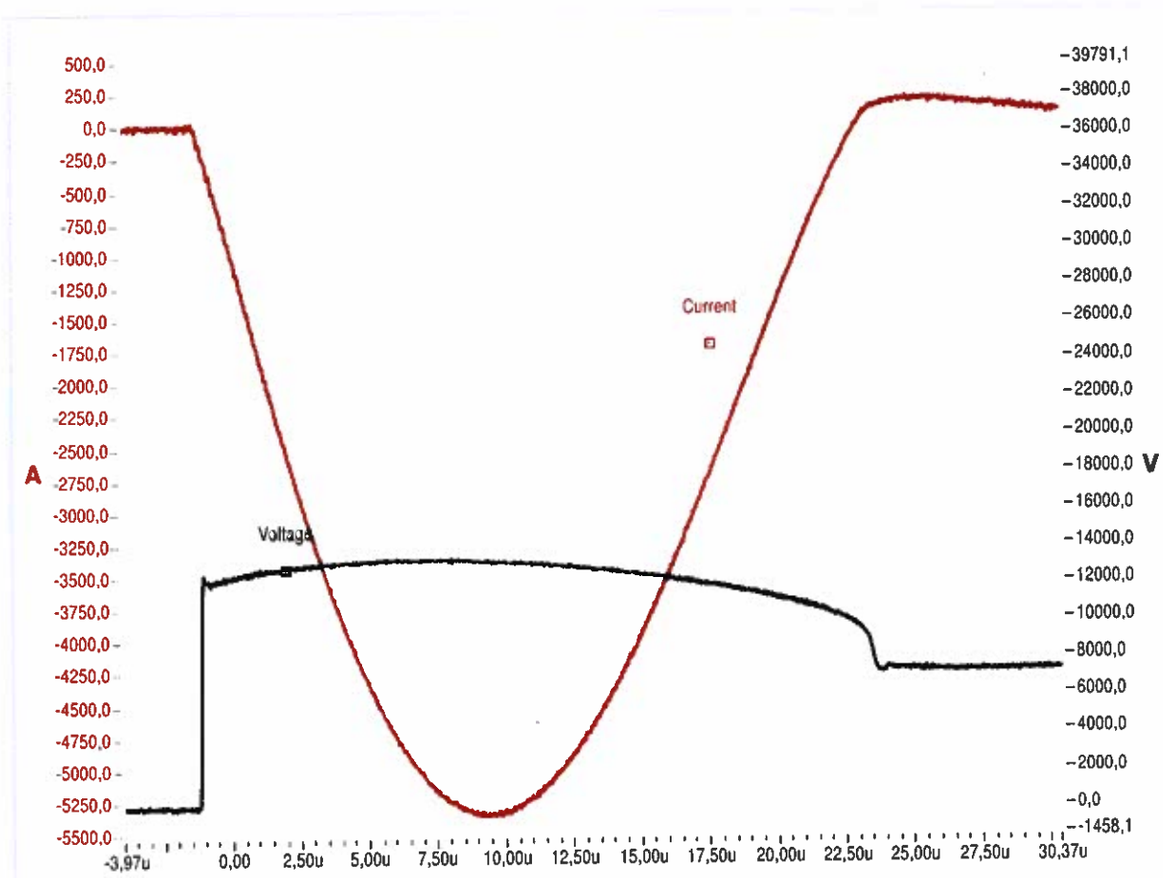
CESI B7020147 Oscillogram n. 58



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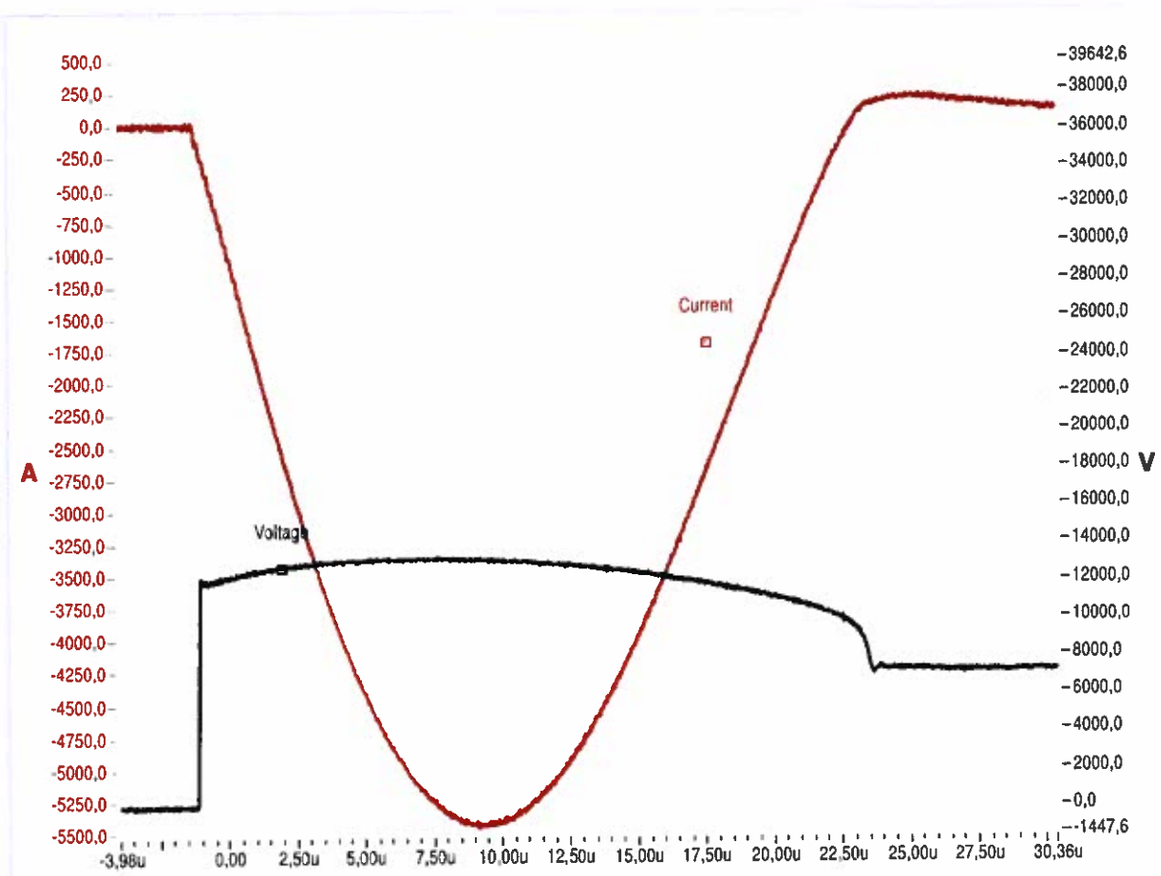
CESI B7020147 Oscillogram n. 59



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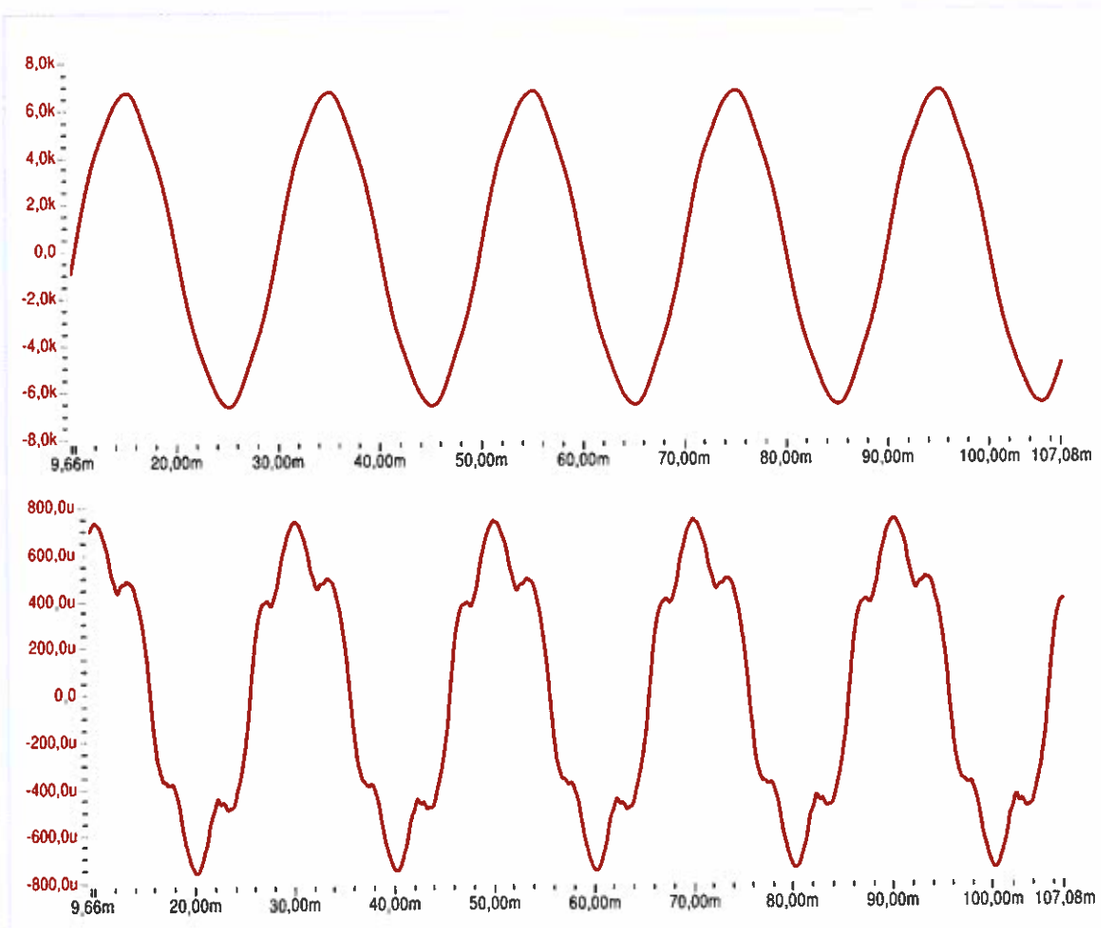
CESI B7020147 Oscillogram n. 50



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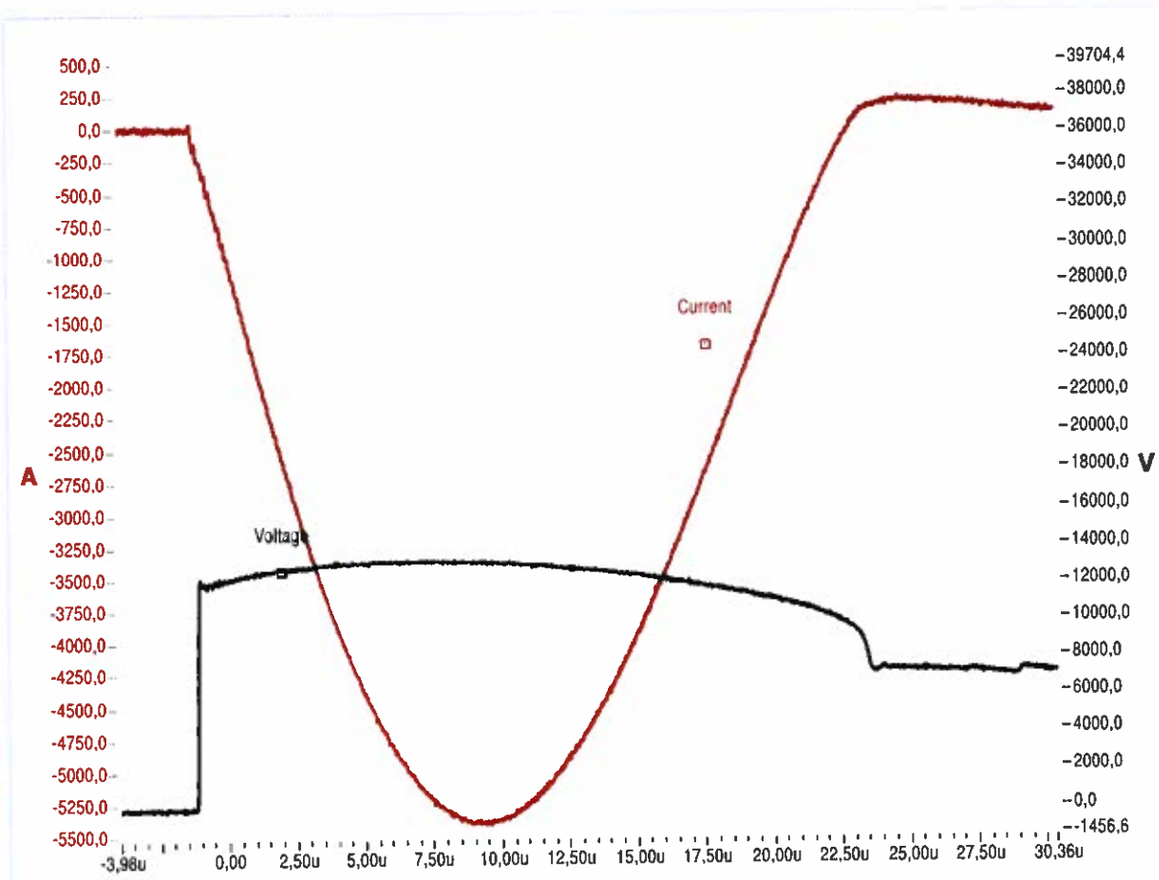
CESI B7020147 Oscillogram n. 60



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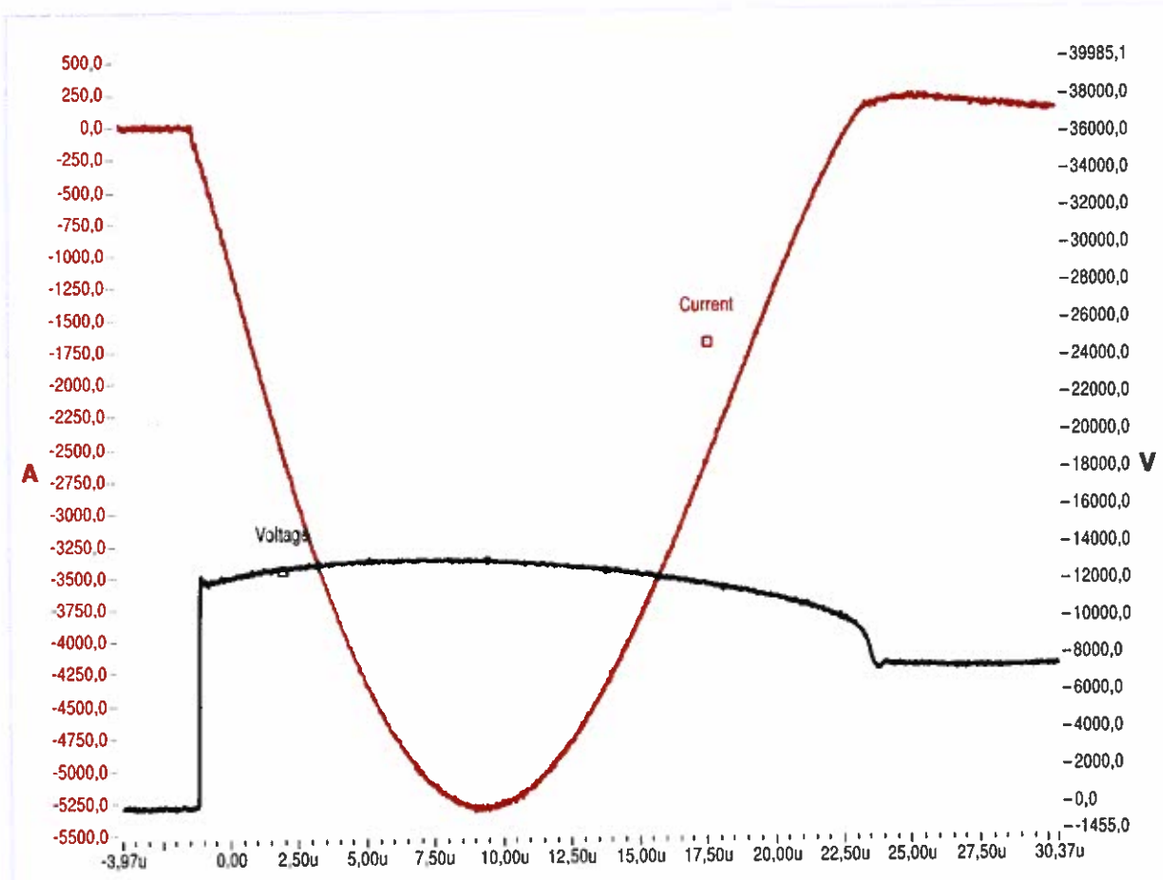
CESI B7020147 Oscillogram n. 61



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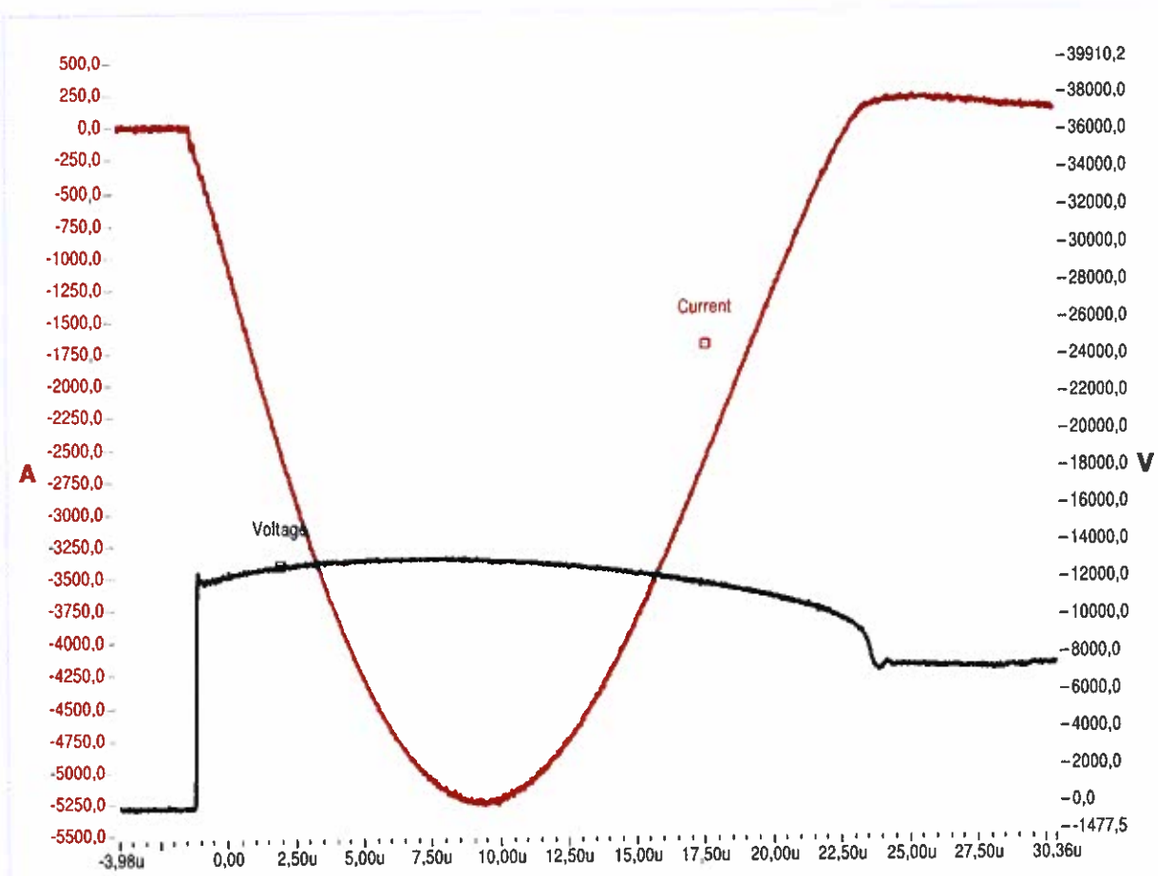
CESI B7020147 Oscillogram n. 62



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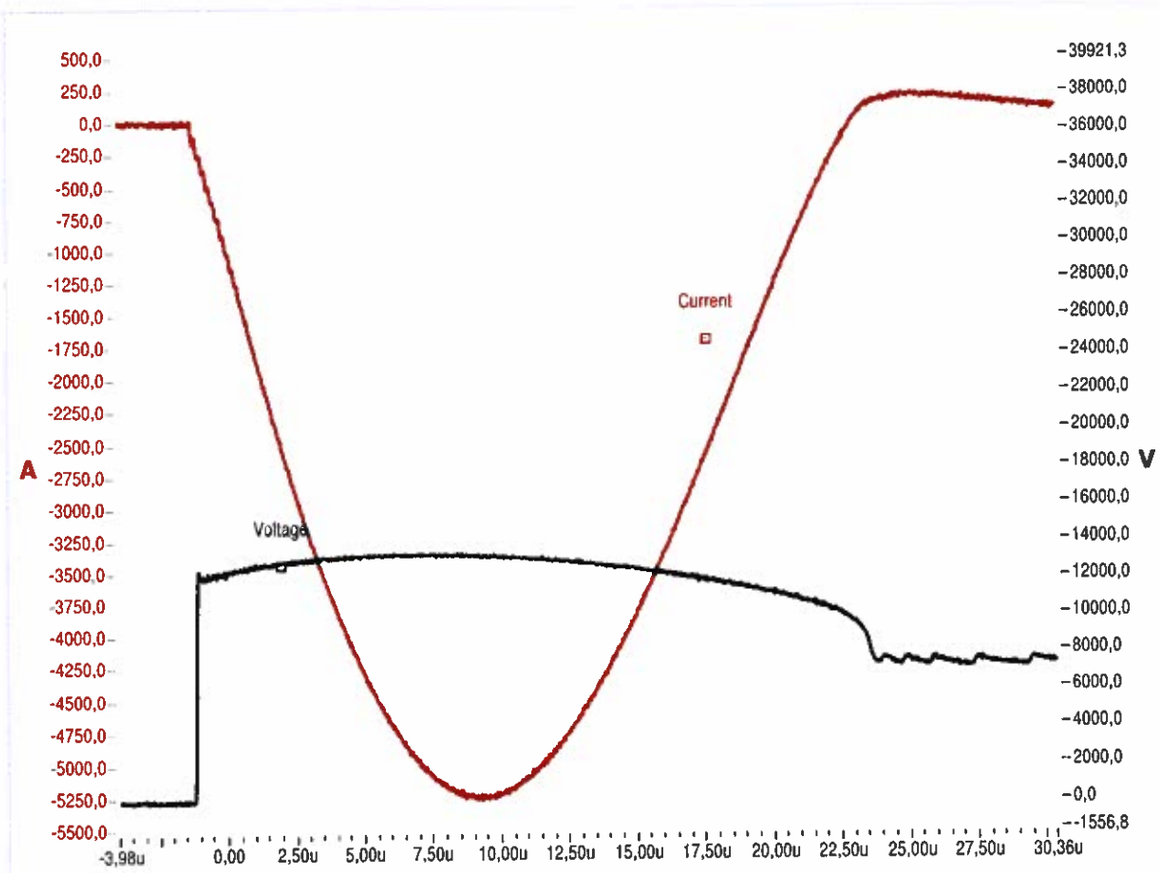
CESI B7020147 Oscillogram n. 63



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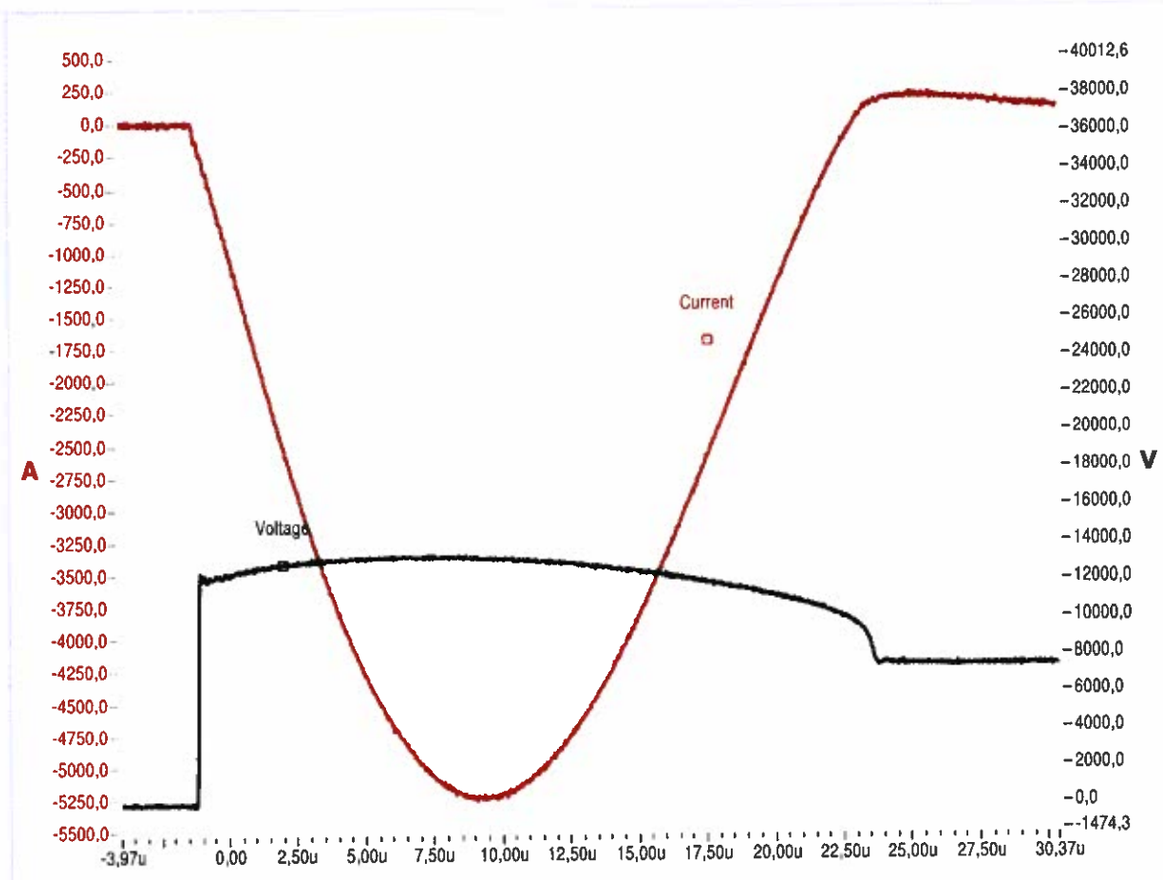
CESI B7020147 Oscillogram n. 64



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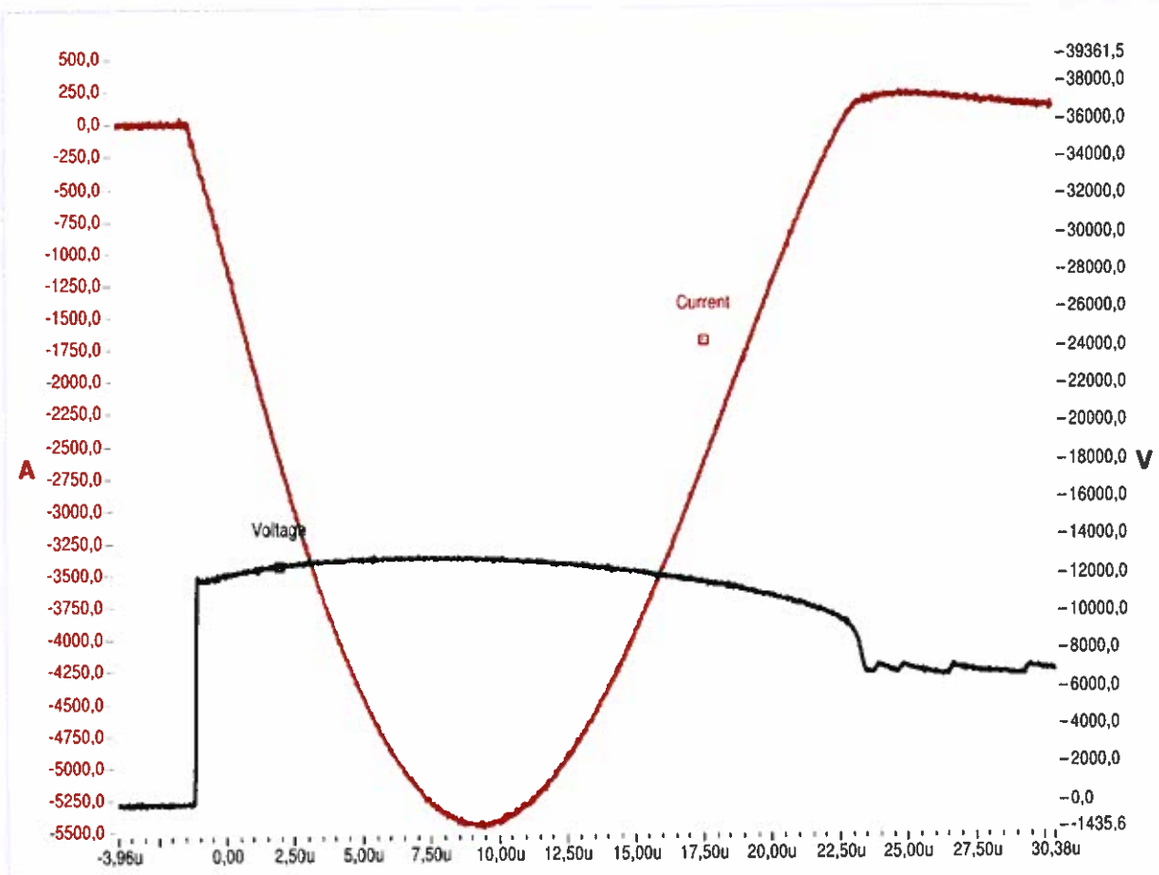
CESI B7020147 Oscillogram n. 65



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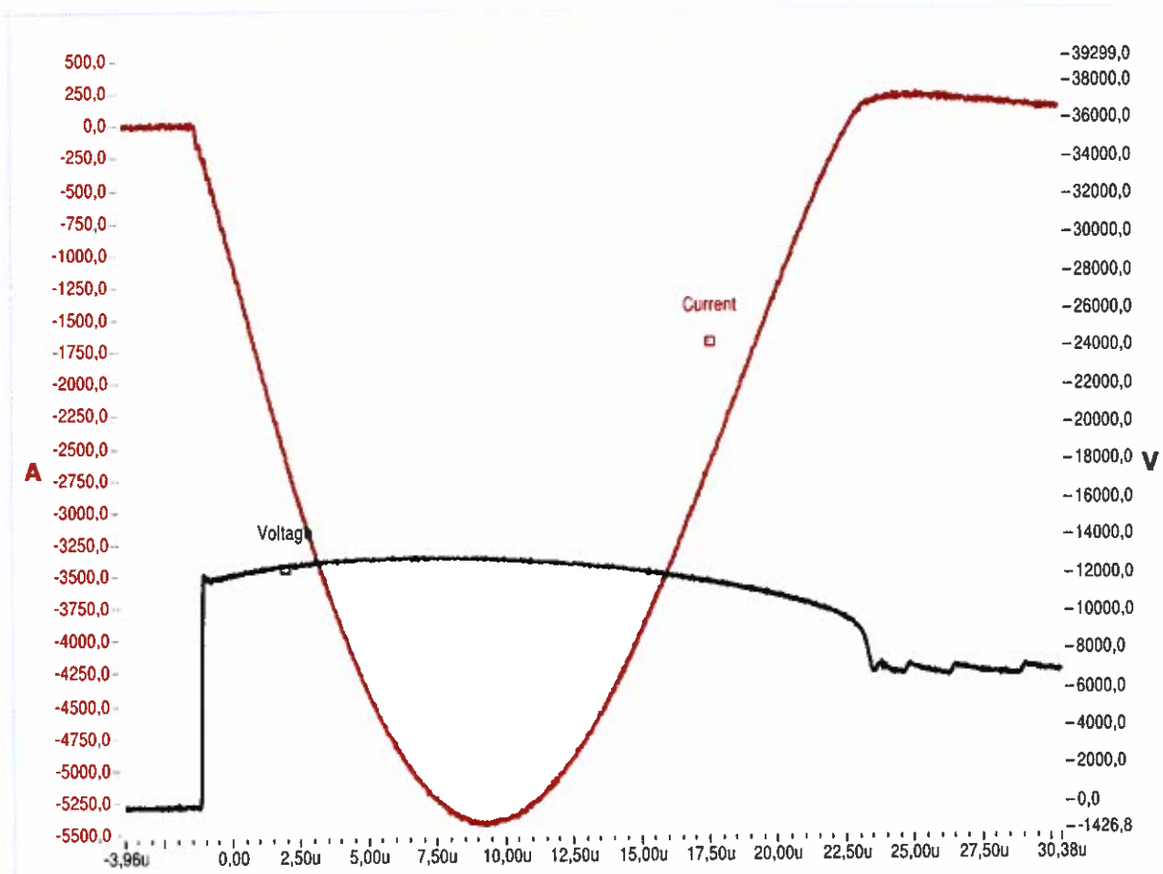
CESI B7020147 Oscillogram n. 66



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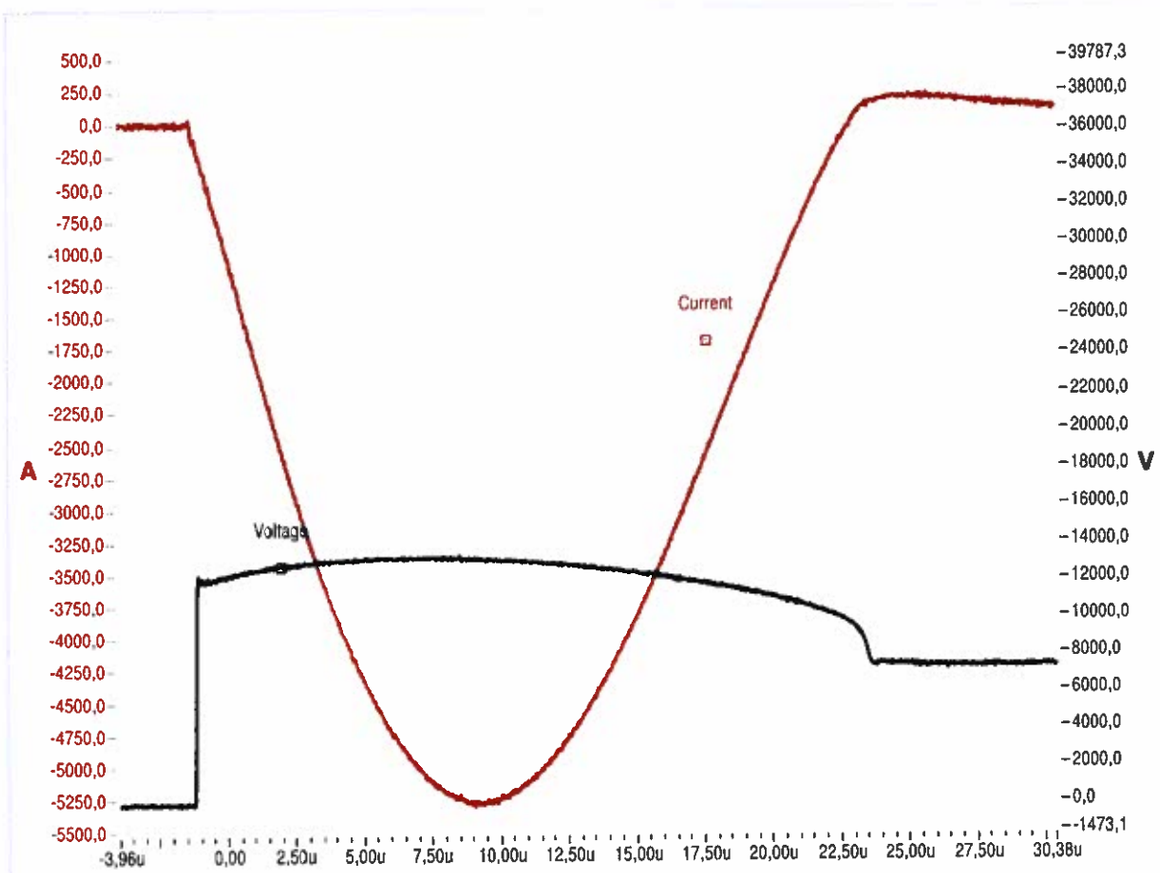
CESI B7020147 Oscillogram n. 67



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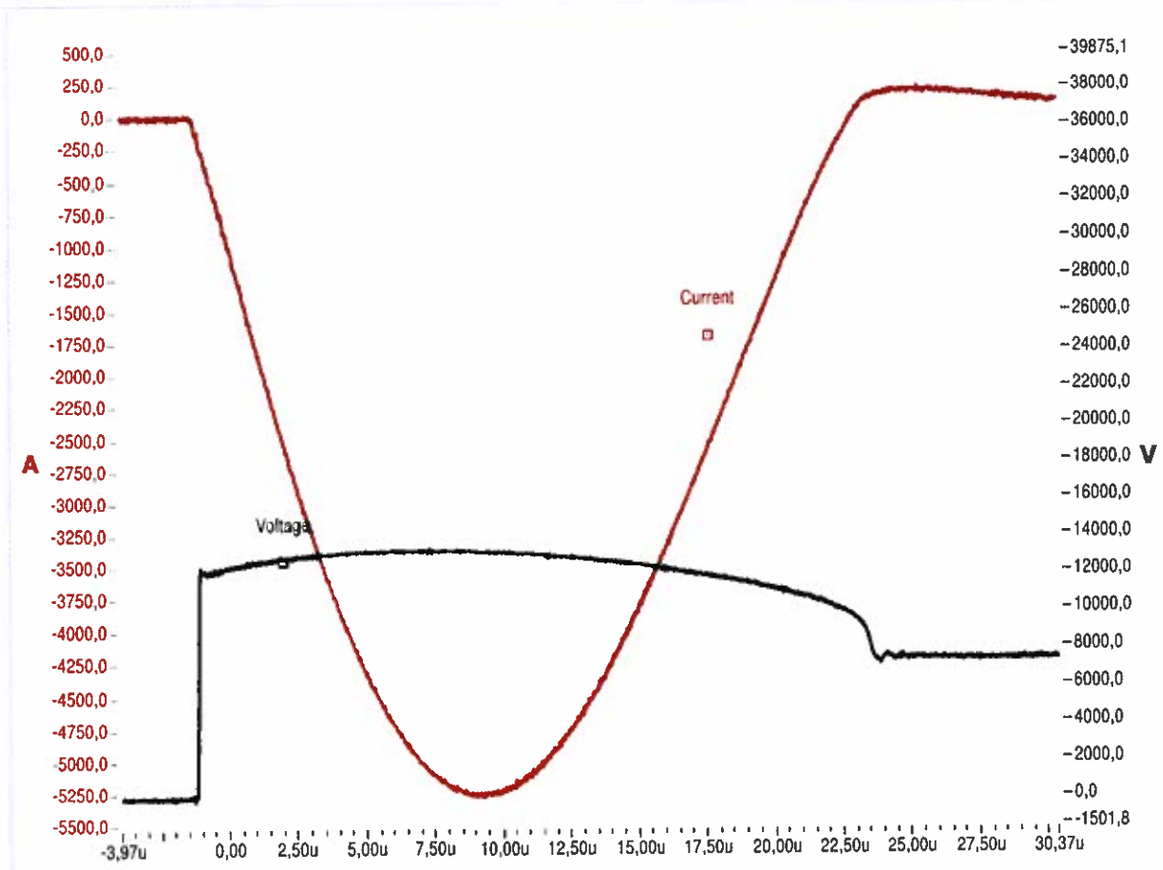
CESI B7020147 Oscillogram n. 68



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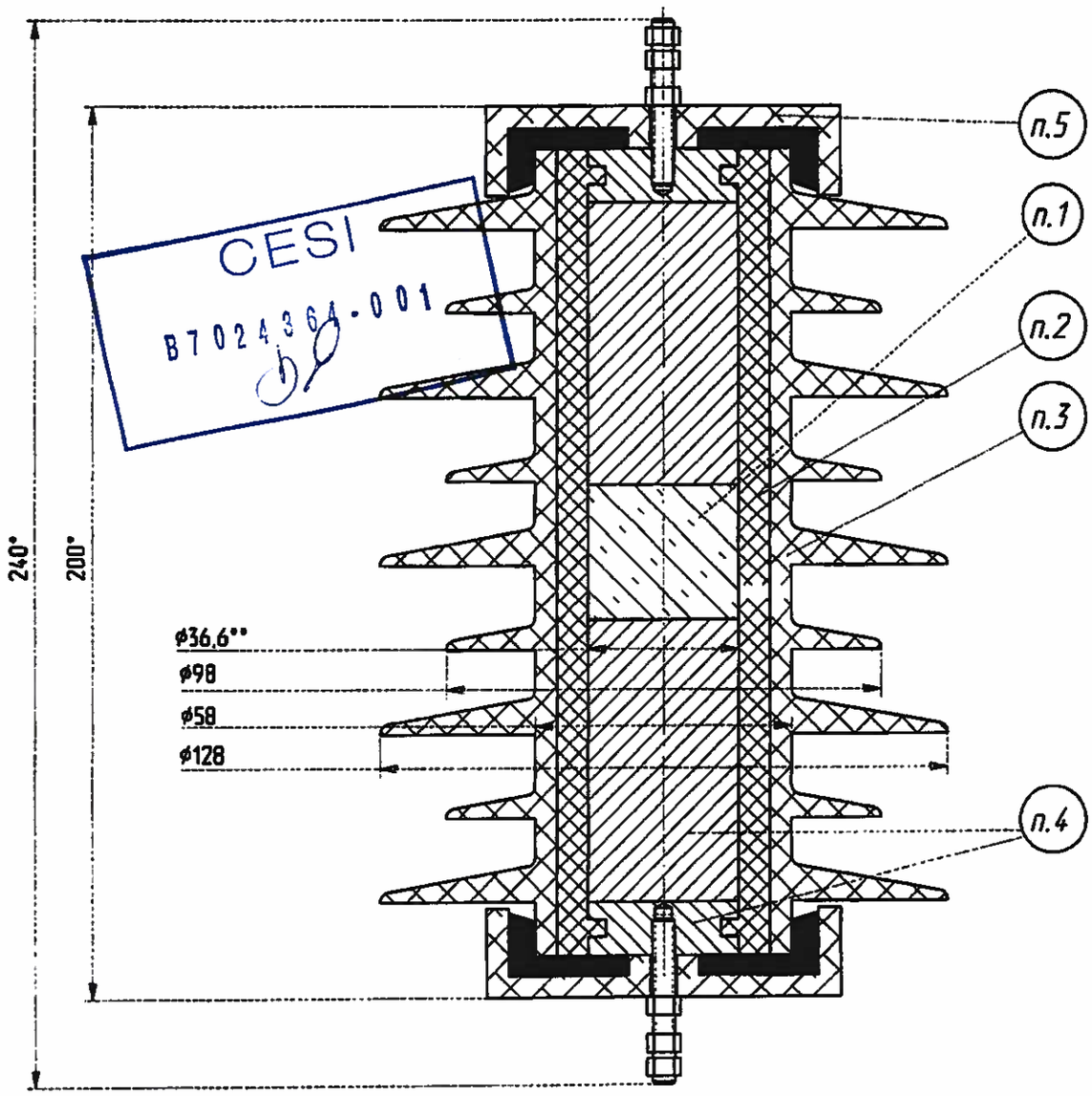
PA-OM.001.ST.02



CESI
B7024364-001

N° n.n.	name	note
n.1	varistor B34/30	000
n.2	Housing	000
n.3	External insulation	000
n.4	Metal flanges and spacers	000
n.5	Additional thermal insulation	000

1. * - Dimensions for reference
2. ** - Typical diameter B34 / 30

Изм.	Лист	N°докум.	Подп.	Дата
Разраб.		Поплавов В.В.		
Пров.		Поплавов А.В.		
Т.контр.				
Н.контр.				
Утв.		Шефтов И.В.		

PA-OM.001.ST.02

section in thermal model.
Surge Arrester PA-OM

Лит.	Масса	Масшт.
		1:1

Лист 1 | Листов 1

ЗАО "Полимер-Аппарат"

Копировал

Формат А3

Перв. применение

Справ. N°

Подп. и дата

Инв. N° дубл.

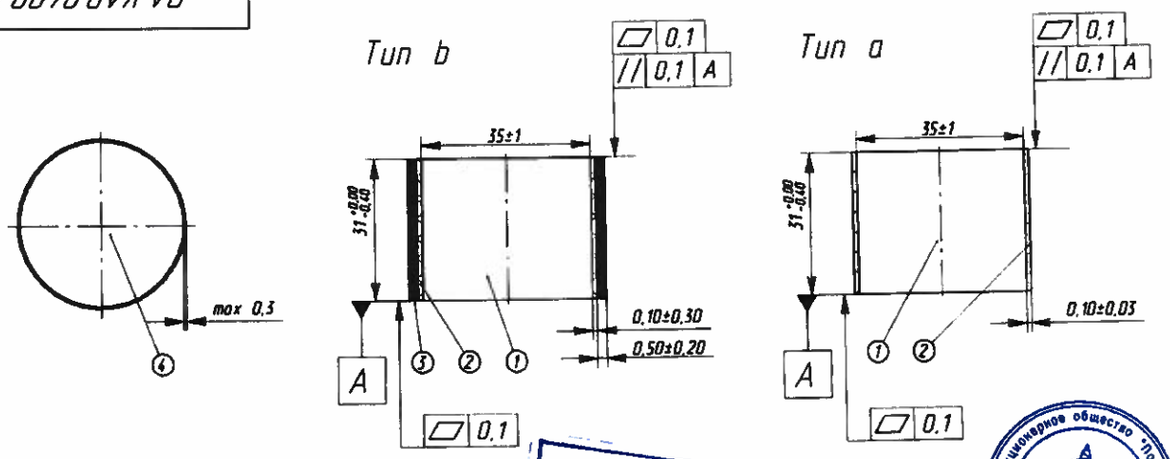
Взам. инв. N°

Подп. и дата

Инв. N° подл.

Liberado para Representante Legal
Pirov

PA.VAR.0400.30



1. Металлооксидный варистор (MOV disk)
2. Изоляционное покрытие стекло (Glass insulating collar)
3. Изоляционное покрытие полиуретан (PU insulating collar)
4. Алюминиевый электрод (Al - electrode)

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B7020387.001

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Изм.	Лист	N°докум.	Подп.	Дата	PA.VAR.0400.30			
Разраб.		Потапов А.В.		09.17	Varistor B34/30	Лит.	Масса	Масшт.
Пров.		Петухов А.П.		09.17			0,177	1:1
Т.контр.						Лист 1	Листов 1	
Н.контр.					Оксид цинка	ЗАО "Полимер-Аппарат"		
Утв.		Шевцов И.В.		10.17				

Копировал

Формат А4

Инв. N° подл. | Подп. и дата | Взам. инв. N° | Инв. N° дубл. | Подп. и дата

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Representante Legal
Piro'y S.A.

The TOV characteristics of PA-DM surge arresters.

The TOV characteristics (in p.u. Ur) of PA-DM surge arresters "with prior duty" and "without prior duty" as per IEC 60099-4 Ed. 3.0 are presented in the Fig.2 below.

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B7023131.001

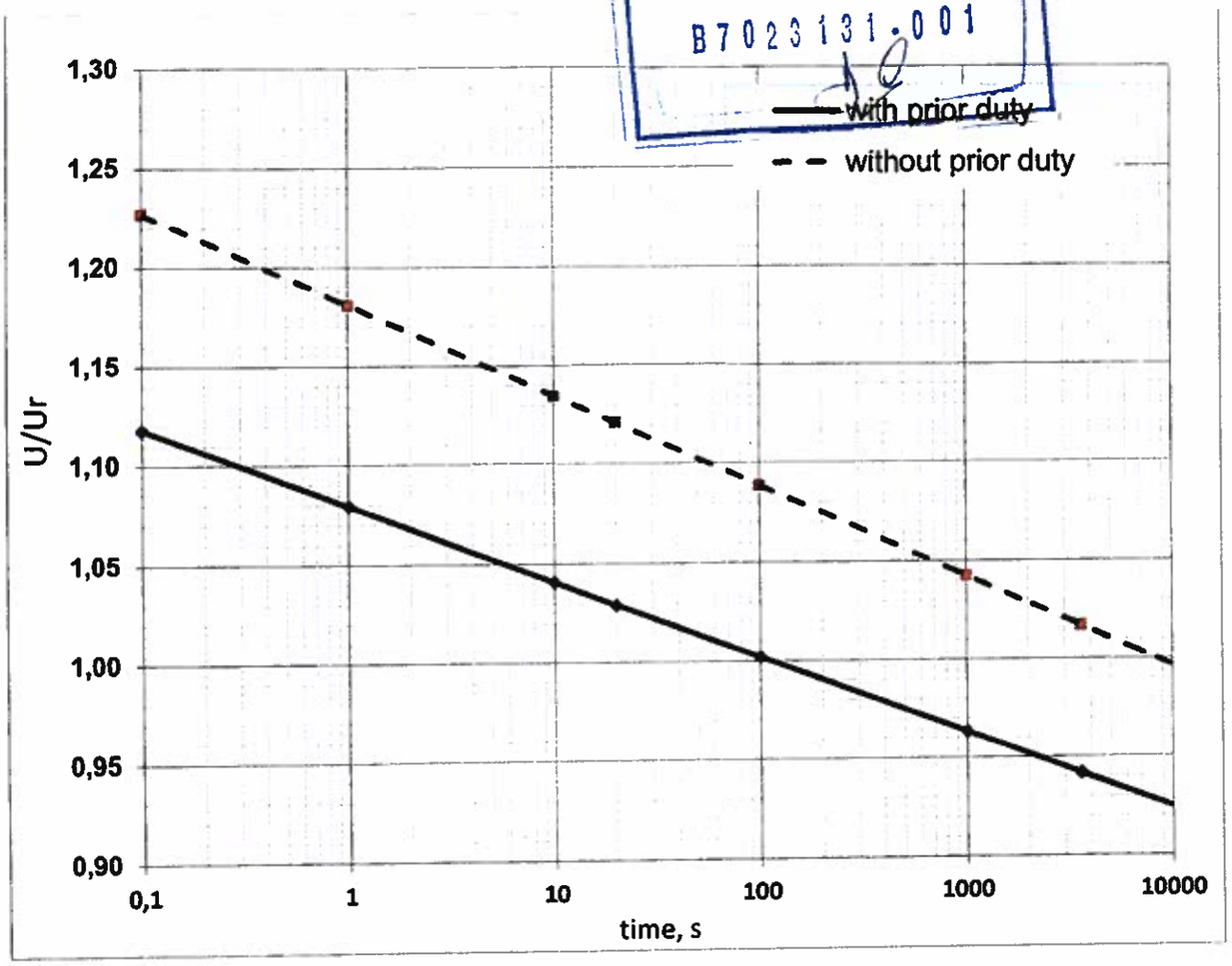

Figure 2. The TOV characteristics of PA-DM surge arresters.

The TOV values in per unit of Ur for times 0,1 s, 1 s, 10 s, 100 s, 1000 s and 3600 s are presented in the table 4.

Table 4.

Time, s	The TOV values in p.u. Ur	
	"with prior duty"	"without prior duty"
0,1	1,120	1,230
1	1,080	1,180
10	1,040	1,130
100	1,000	1,090
1000	0,960	1,040
3600	0,940	1,020

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Test Report

Document No.	B7018623	Copy No.	1	Number of pages	17
Apparatus	Polymer-housed surge arrester unit type PA-DM-54 and polymer-housed surge arrester section type PA-DM assembled in thermal model				
Designation	---				
Serial Number	---				
Manufacturer	Joint-Stock Company " Polymer-Apparat"				
Client	Joint-Stock Company " Polymer-Apparat" Ak. Kostantinova Strasse, 1 195427 Saint- Petersburg - Russian Federation				
Tested for	---				
Date(s) of tests	September 18, 2017				
Tested by	CESI.S.p.A. Via Rubattino, 54 20134 Milano - Italy				
Test performed	Heat dissipation behaviour of test sample : Test to verify thermal equivalency between complete arrester and arrester section				

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this document has been subjected to the series of proving tests in accordance with:

IEC 60099-4 – Edition 3.0 (2014-06)

The results are shown in the record of proving tests and the oscillograms attached hereto. The ratings assigned by the Manufacturer are listed on the ratings page.
The document applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

November 27, 2017		
Date	Gregori Marco B7018623 3059 AUT Test Engineer in charge	The Manager - Arcidiaco Lorenzo B7018623 B21814 APP Approved By Document Digitally Signed

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LAB N° 0030

The laboratory meets the requirements of the Standard EN ISO/IEC 17025: 2005 "General Requirements for the Competence of Testing and Calibration Laboratories". The in force status of the accreditation and the list of accredited tests may be checked in the WEB site: www.accredia.it

测思 Centro Elettrotecnico Sperimentale Italiano

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