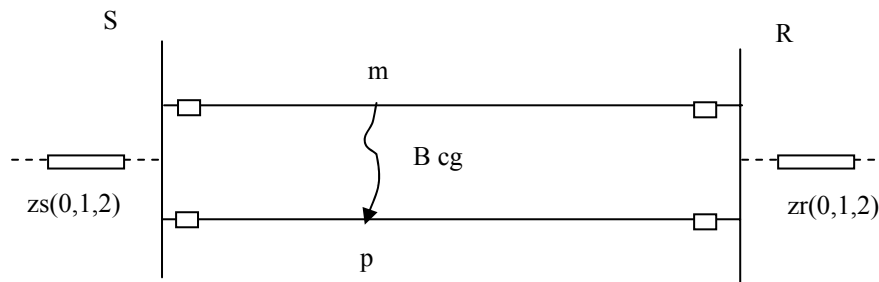


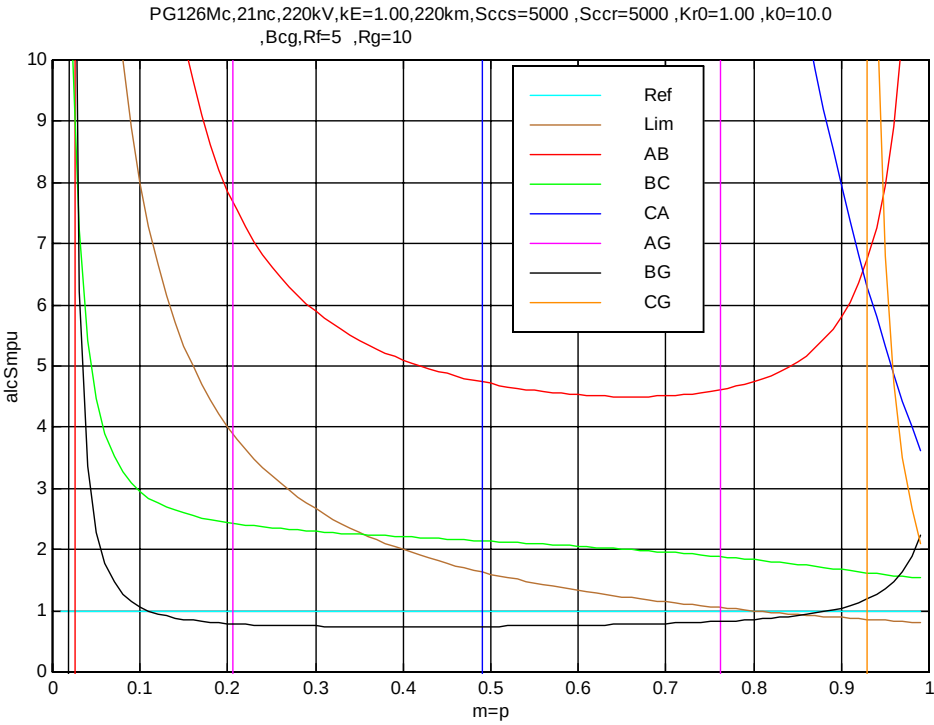
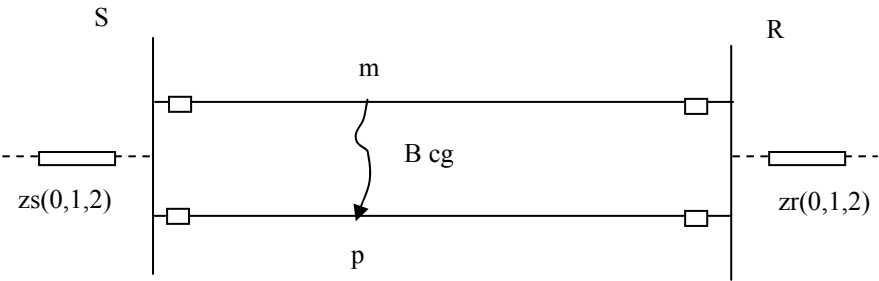
33Esquema:



PGc Casos Básicos ó Standard				
Programa	PG126Mc			
Entrada Standard	Un=220 kV, kE=1, L=220 km, Sccs=5000 MVA, Sccr=5000 MVA			
	Kr0=1			
	zsr=∞			
Compensación 21= No				
Parámetro	k0 = zs0/zr0 = 10			
Falta Intercircuito m=p	m Línea SR I	m = p	0 . . . 1	
		Tipo	Bcg	
	p Línea SR II	Elemento	--	
		Rf	5 Ohms	
		Rg	10 Ohms	
Salida 1	21 Salida pu Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSmpu		e01
		alcanceSppu		e02
		alcanceRmpu		e03
		alcanceRppu		e04
Salida 2	21 Salida pua Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSmpua		f01
		alcanceSppua		f02
		alcanceRmpua		f03
		alcanceRppua		f04
Salida 3	67N	Sm		n01
		Rm		n02
		Sp		n03
		Rp		n04
Salida 4	21 R-X	Sm		z01
		Rm		z02
		Sp		z03
		Rp		z04

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida e01

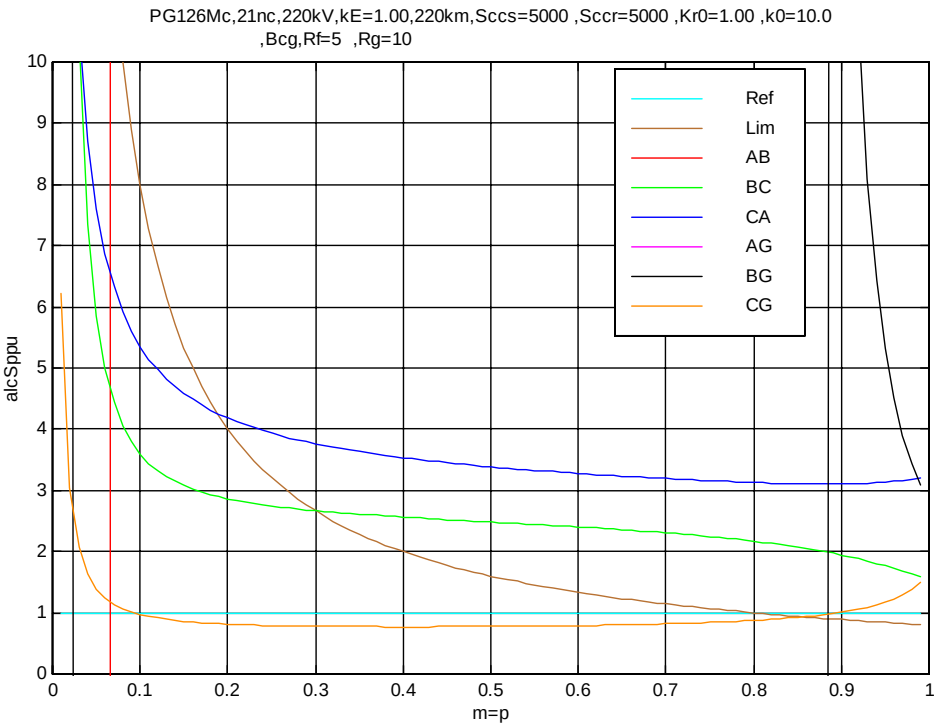
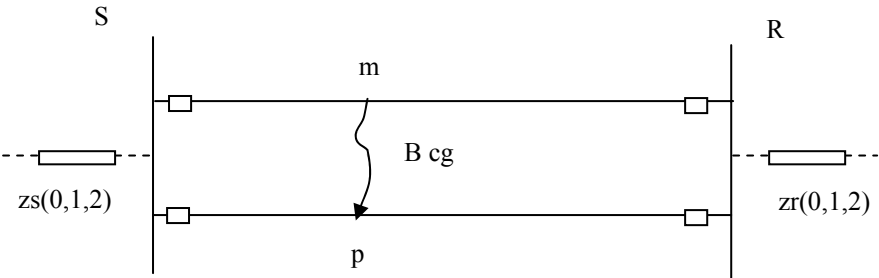
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.35	--	--	0.02-0.85	--

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida e02

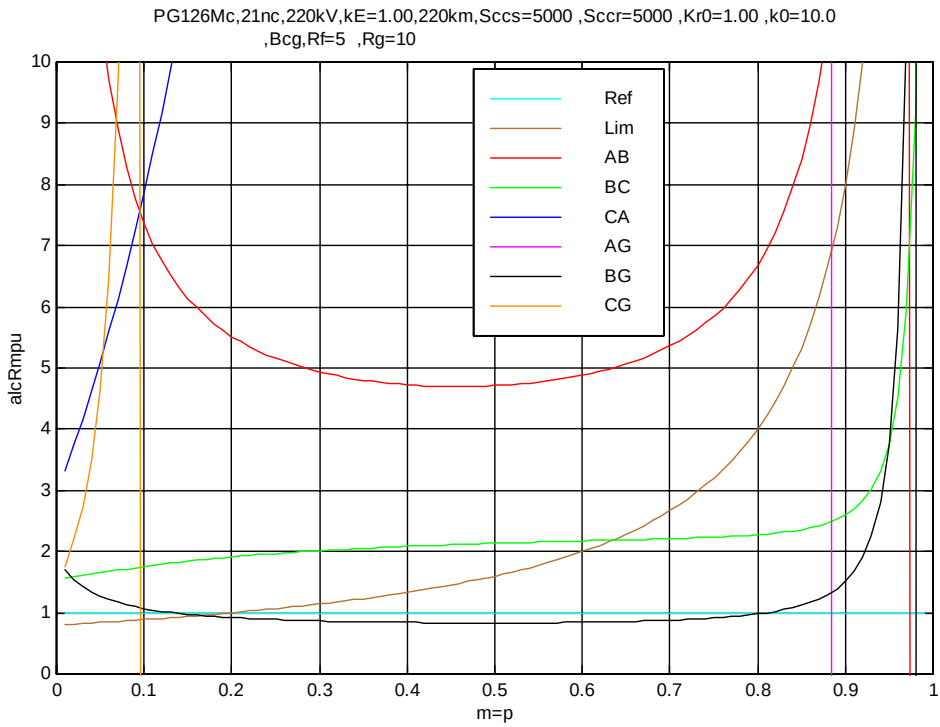
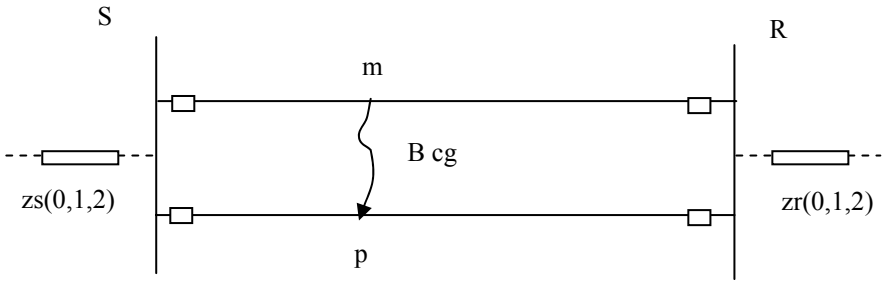
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.30	0.19	--	0.02	0.86

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida e03

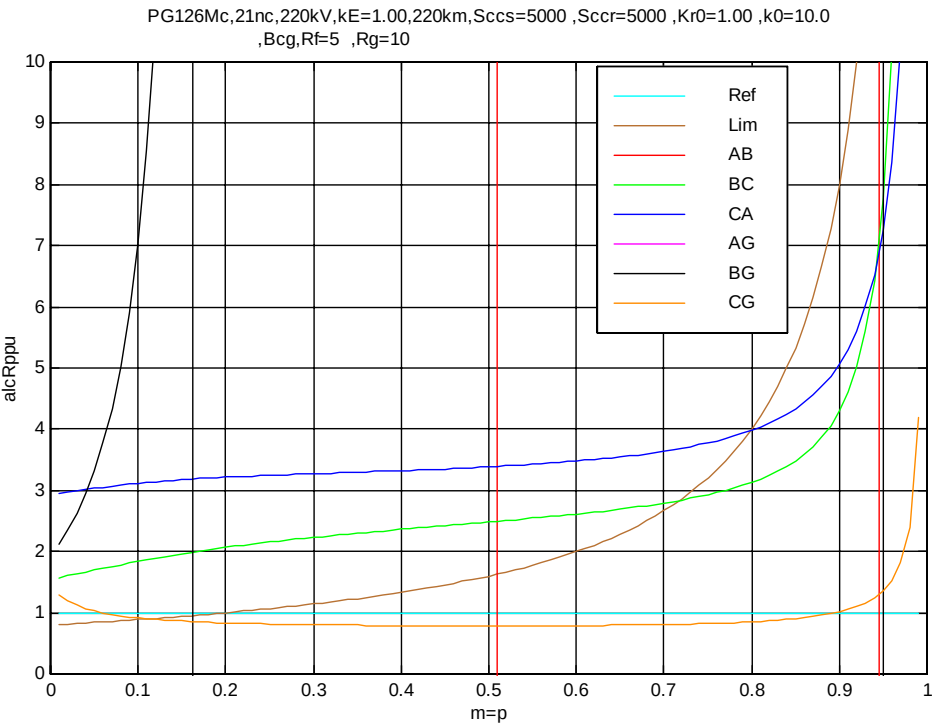
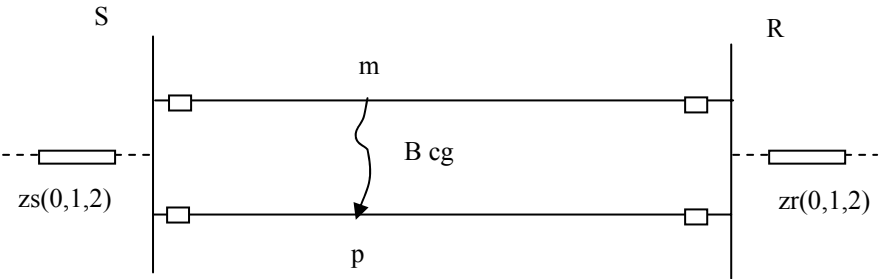
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.37	--	--	0.02-0.83	--

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida e04

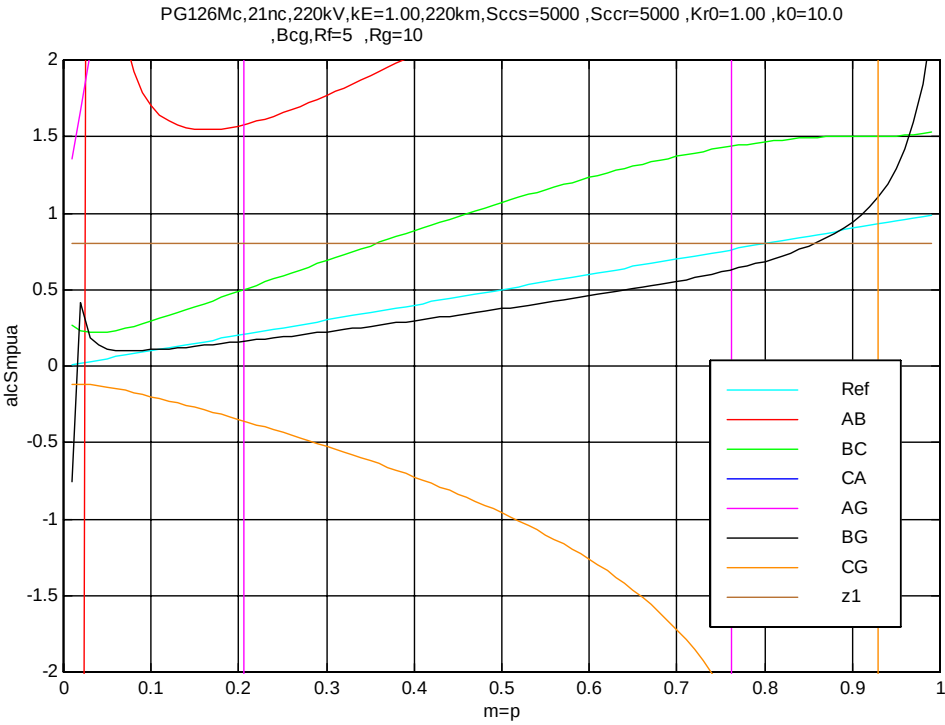
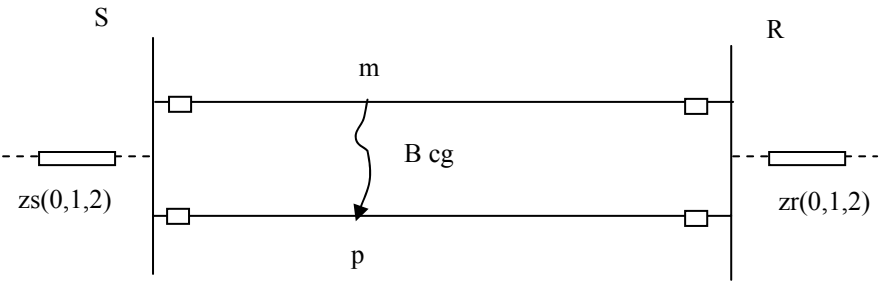
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.01-0.28	0.20	--	0.03	0.89

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida f01

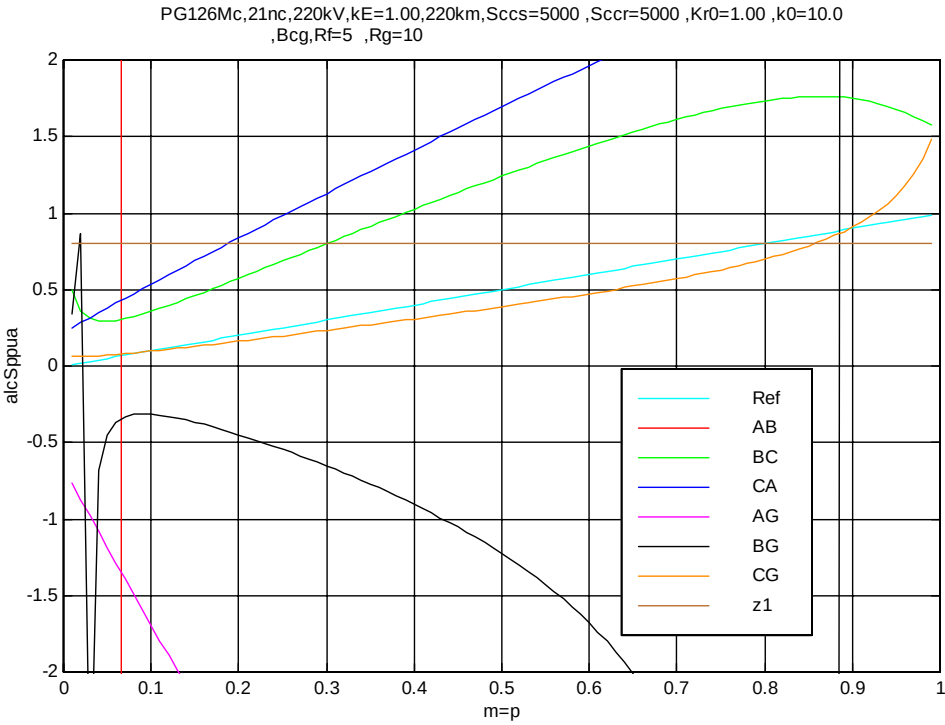
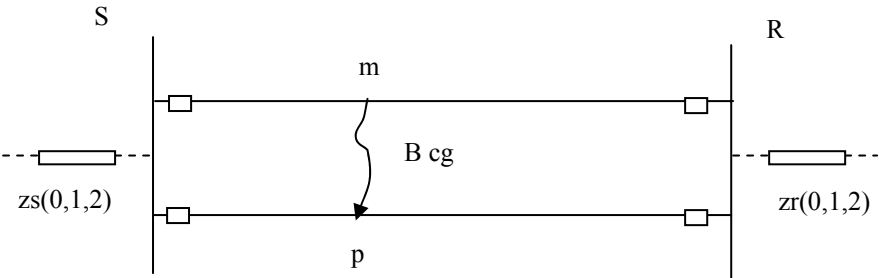
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.35	--	--	0.02-0.85	--

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida f02

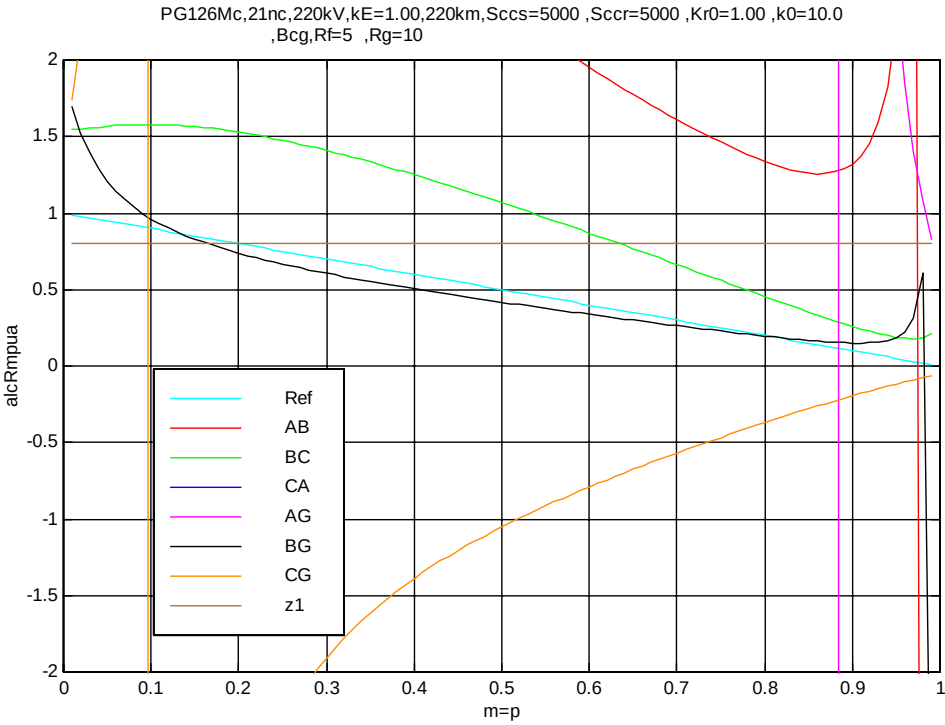
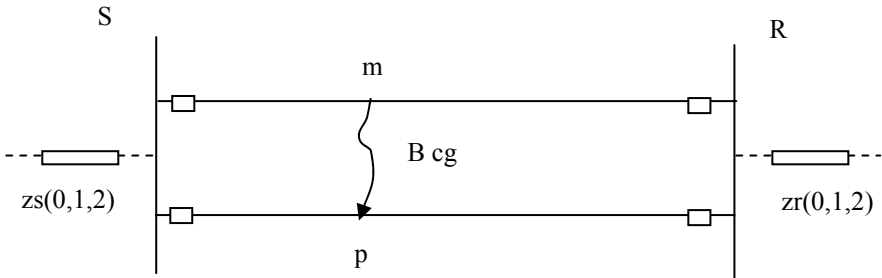
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.30	0.19	--	0.02	0.86

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida f03

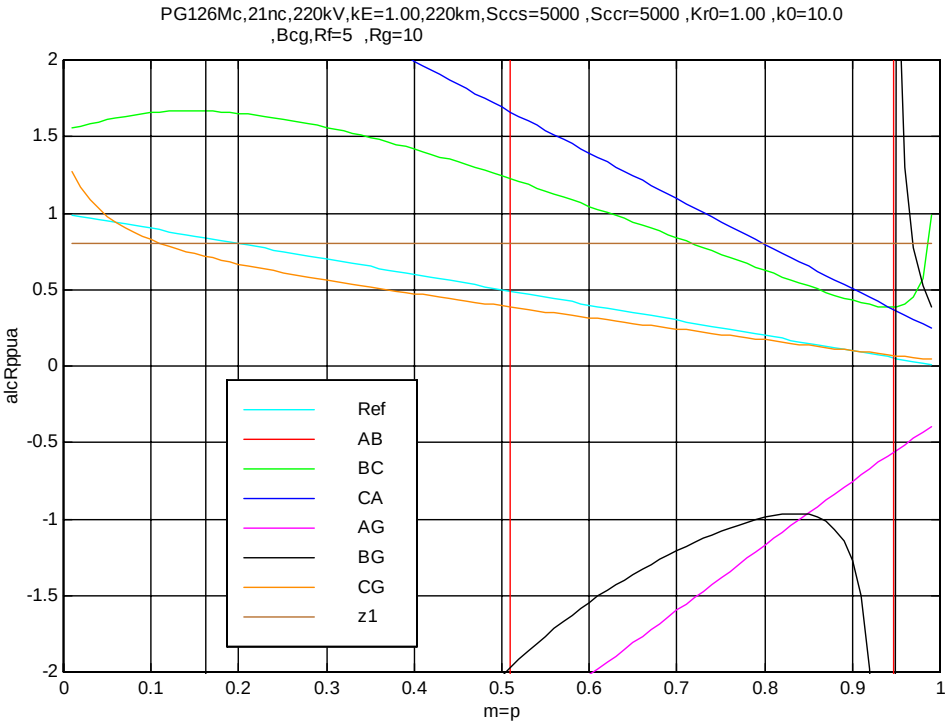
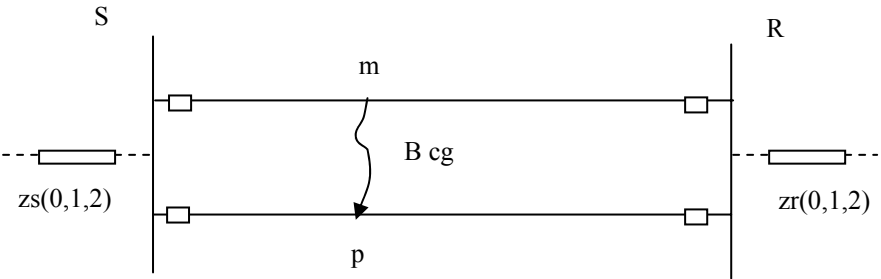
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.37	--	--	0.02-0.83	--

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida f04

Esquema:

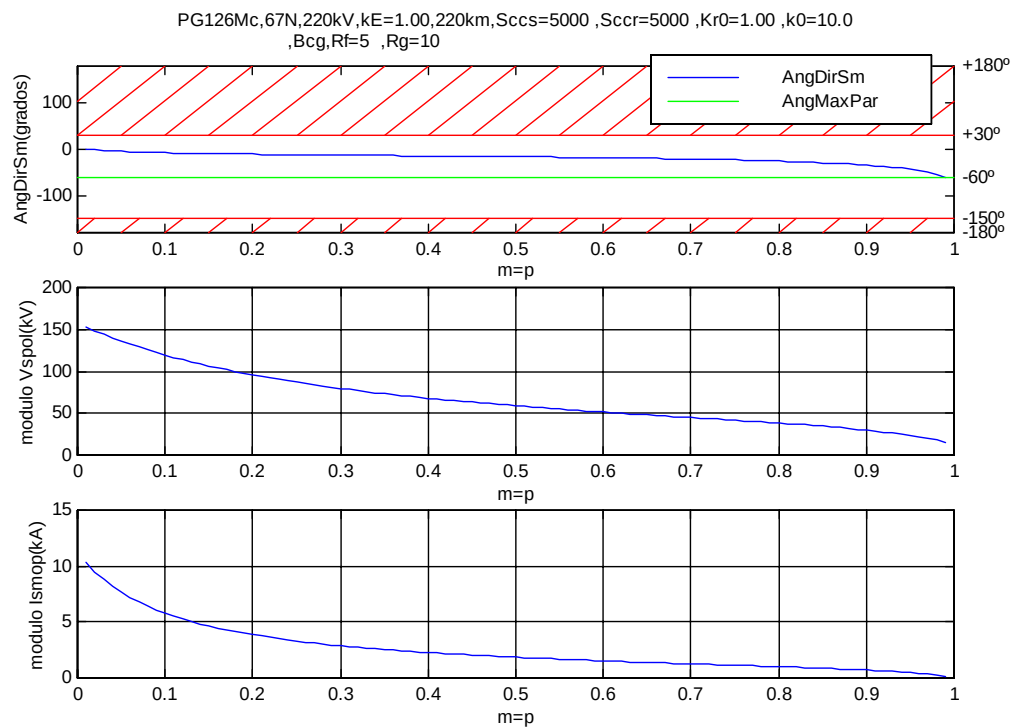
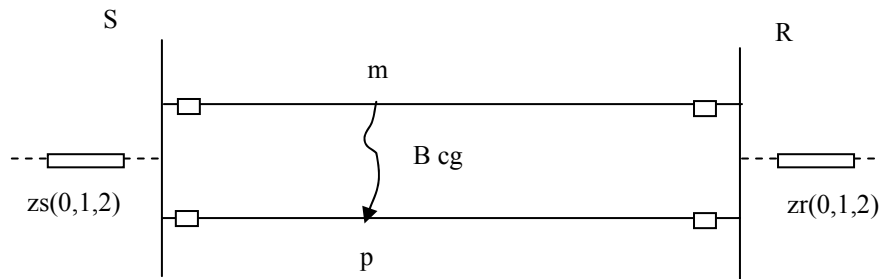


Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.01-0.28	0.20	--	0.03	0.89

Programa: PG126Mc

Caso Standard, Falta Bcg: Salida n01

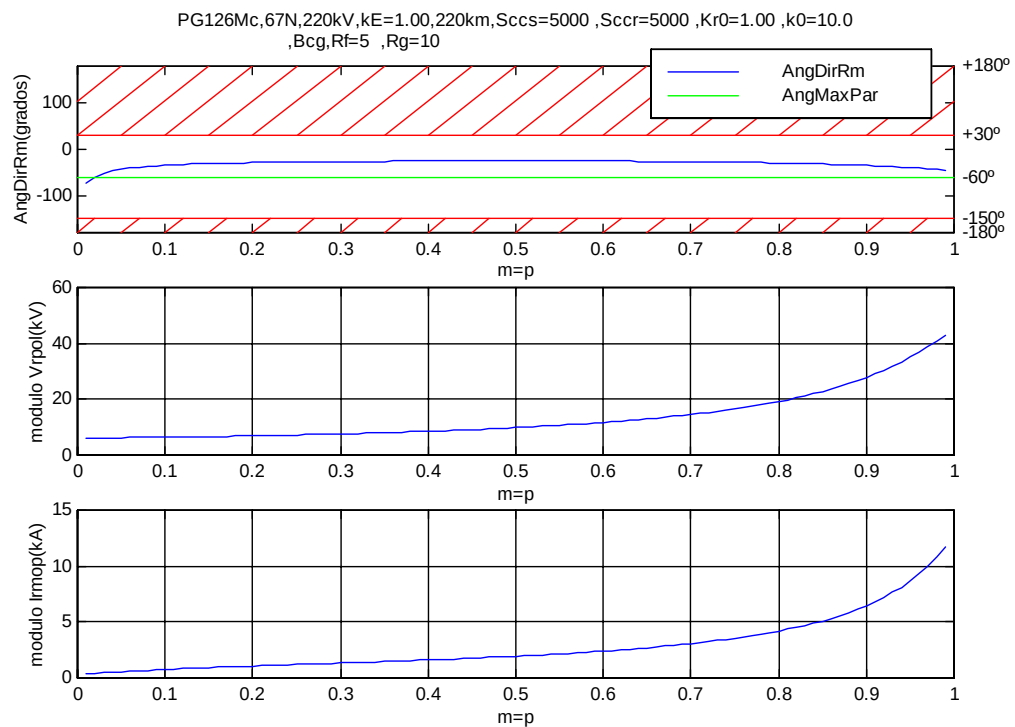
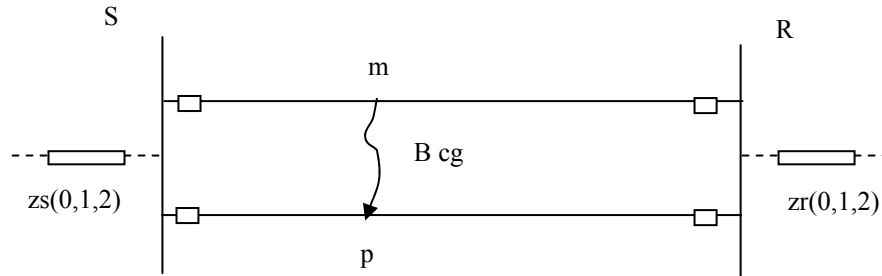
Esquema:

Direccionalidad: $m = 0 \dots 1$ Sensibilidad de Tensión : decreciente (con m)Sensibilidad de Corriente: decreciente (con m); crítica al final

Programa: PG126Mc

Caso Standard, Falta Bcg: Salida n02

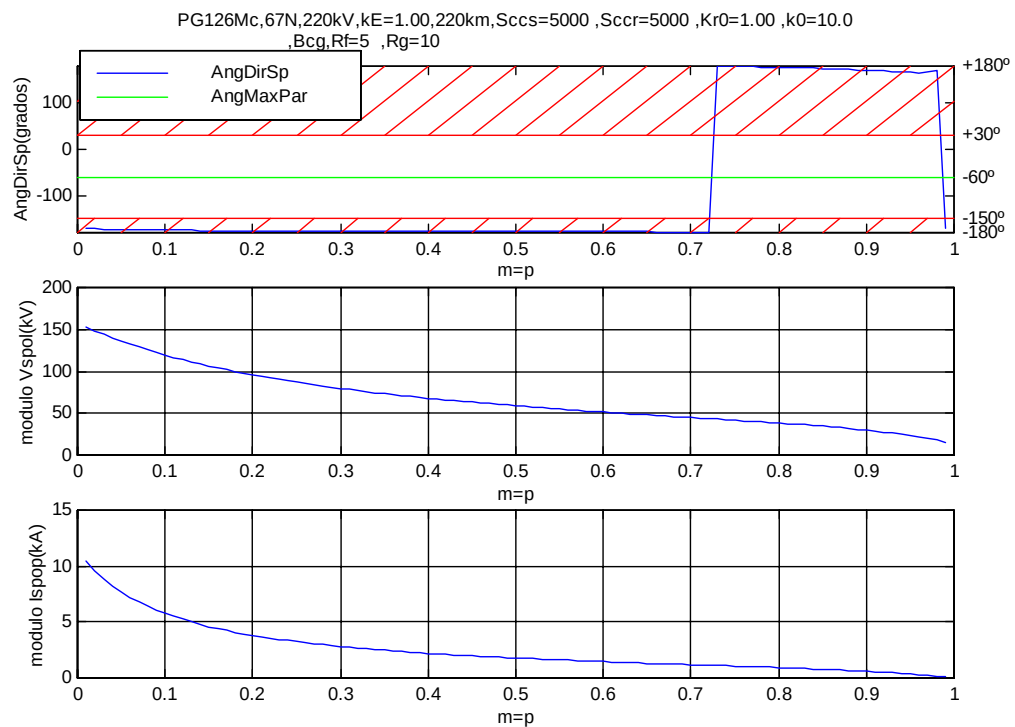
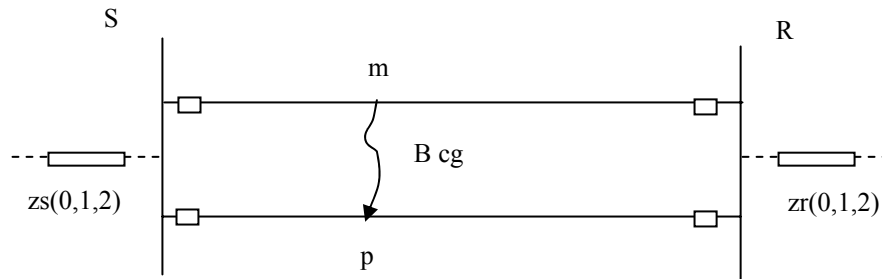
Esquema:

Direccionalidad: $1-m = 0, \dots, 1$ Sensibilidad de Tensión : decreciente (con $1-m$)Sensibilidad de Corriente: decreciente (con $1-m$); crítica al final

Programa: PG126Mc

Caso Standard, Falta Bcg: Salida n03

Esquema:



Direccionalidad: No

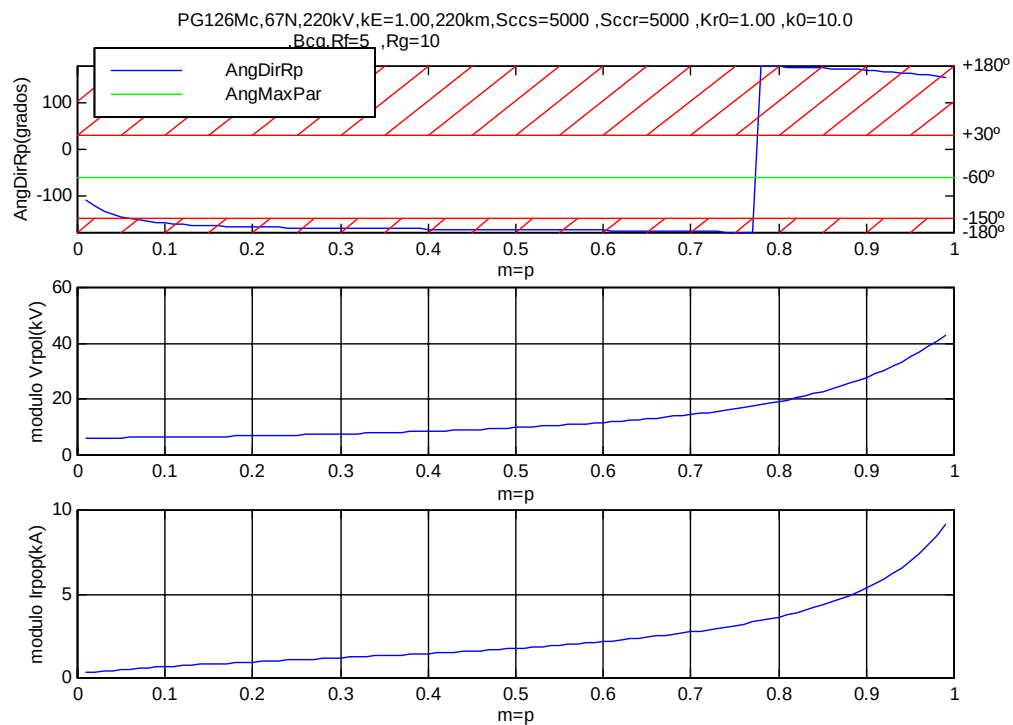
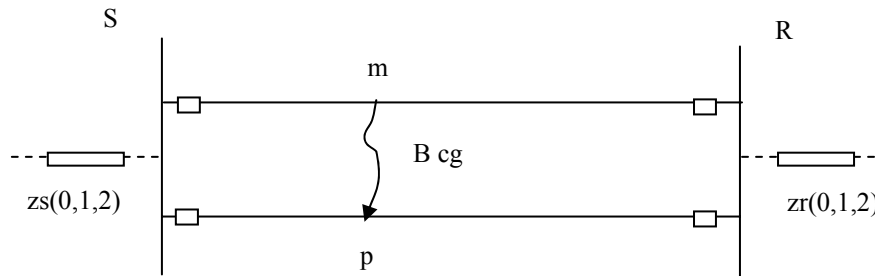
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m); crítica al final

Programa: PG126Mc

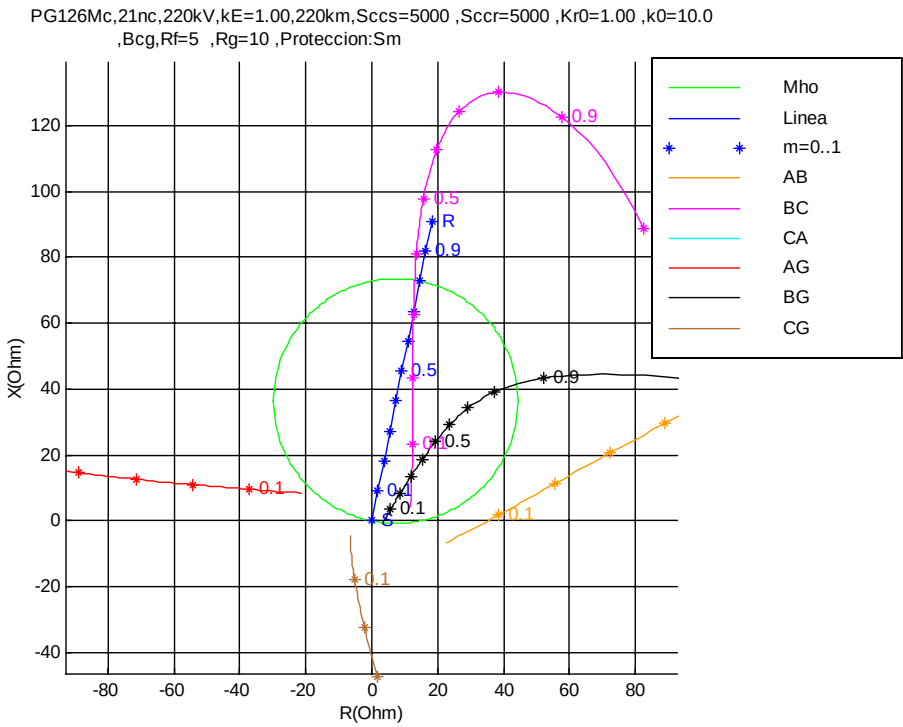
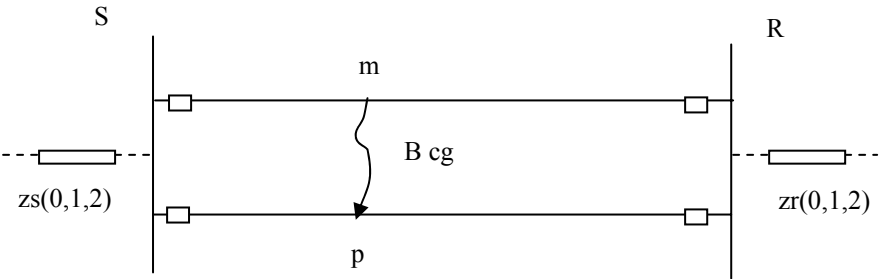
Caso Standard, Falta Bcg: Salida n04

Esquema:

Direccionalidad: No, excepto al final ($0.95 < 1-m < 1$)Sensibilidad de Tensión : decreciente (con $1-m$)Sensibilidad de Corriente: decreciente (con $1-m$); crítica al final

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida z01

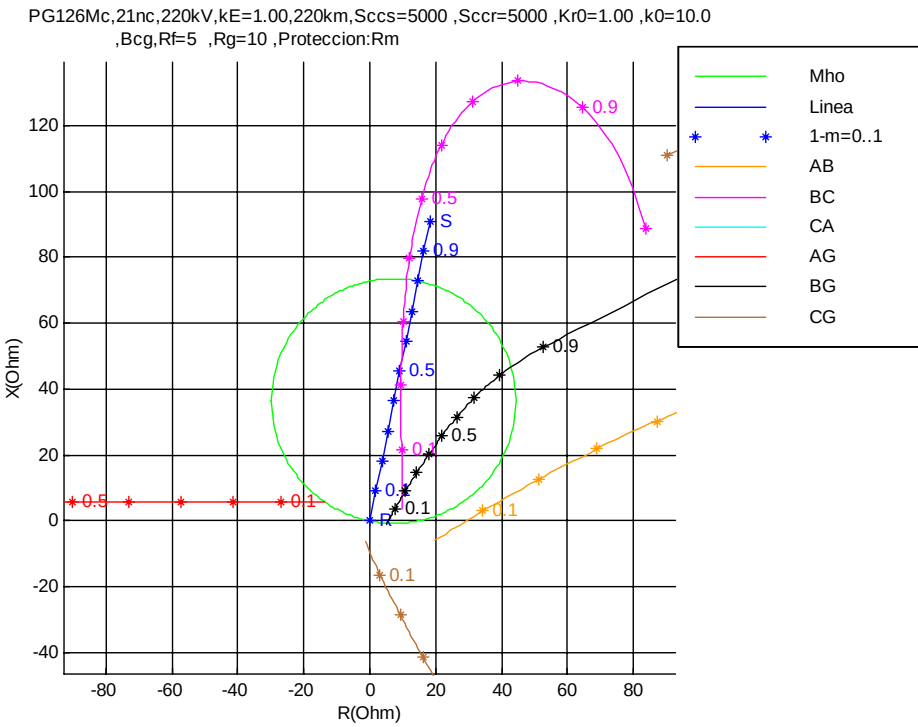
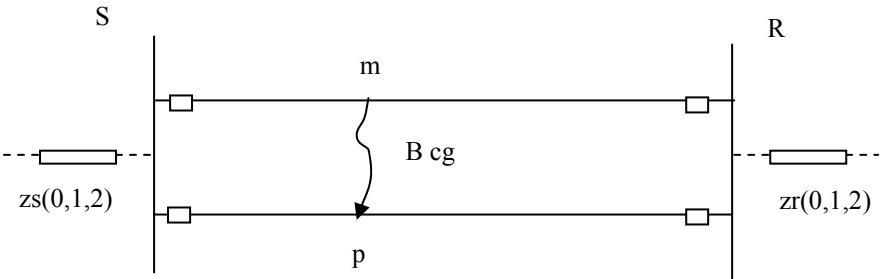
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.35	--	--	0.02-0.85	--

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida z02

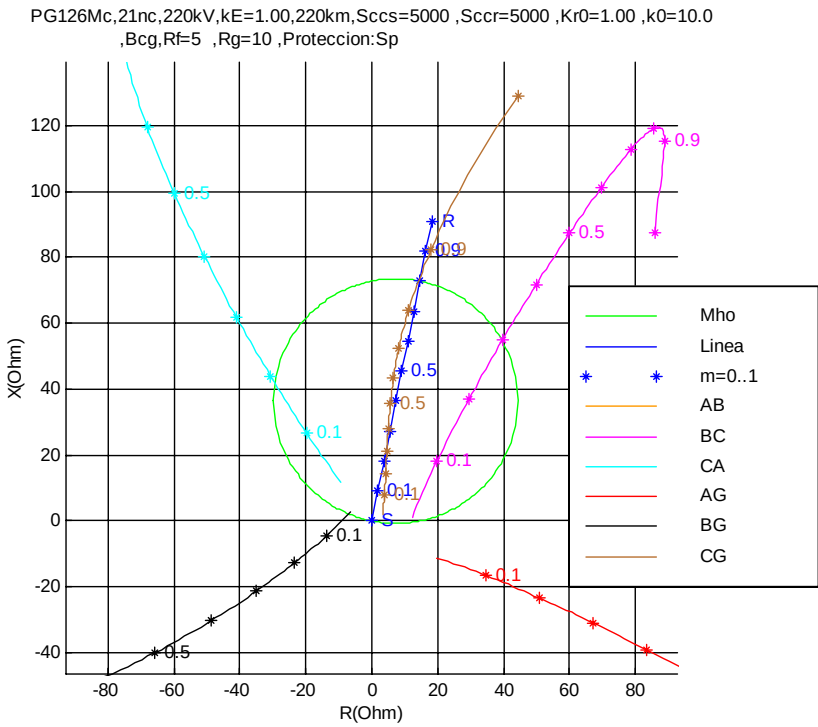
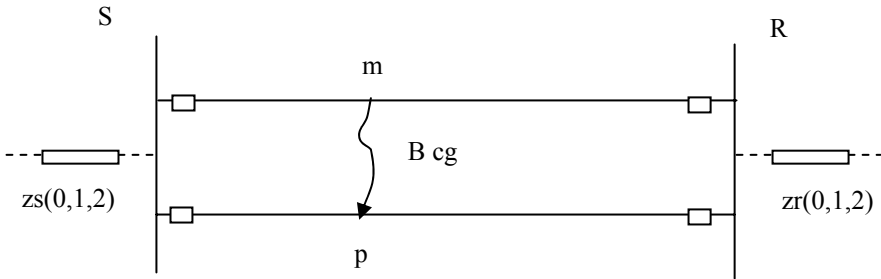
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.37	--	--	0.02-0.83	--

Programa: PG126Mc
Caso Standard, Falta Bcg: Salida z03

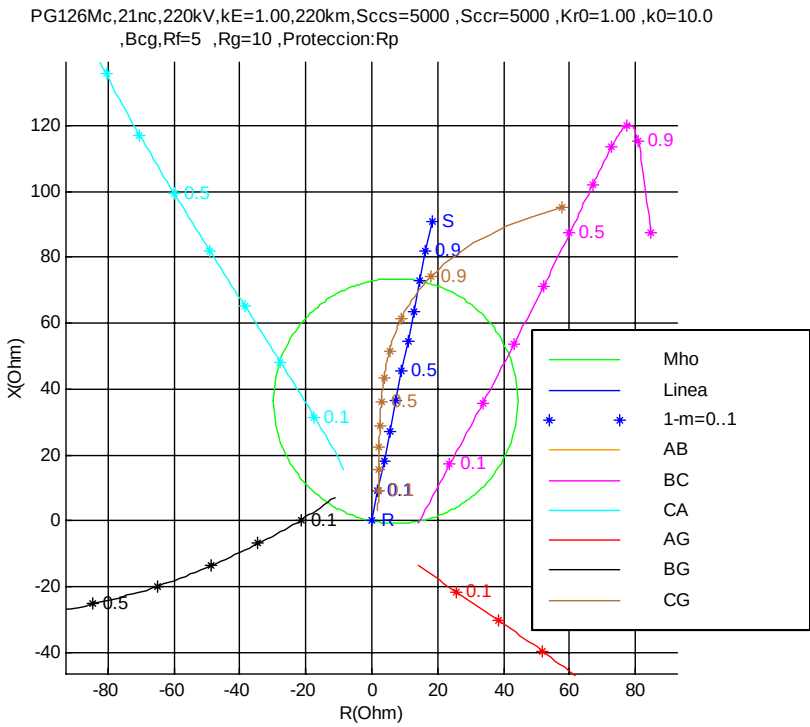
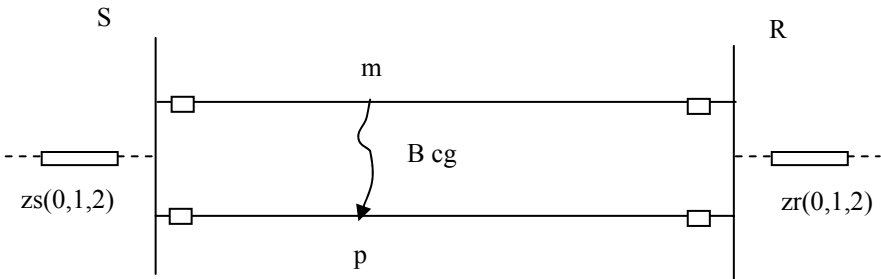
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.30	0.19	--	0.02	0.86

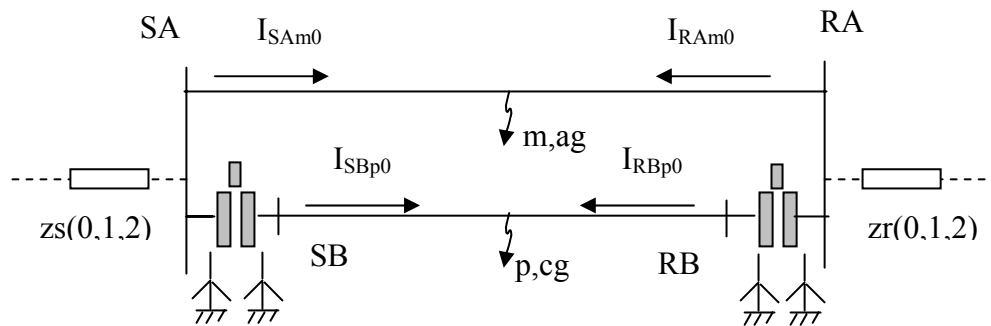
Programa: PG126Mc
Caso Standard, Falta Bcg: Salida z04

Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.01-0.28	0.20	--	0.03	0.89

Esquema:



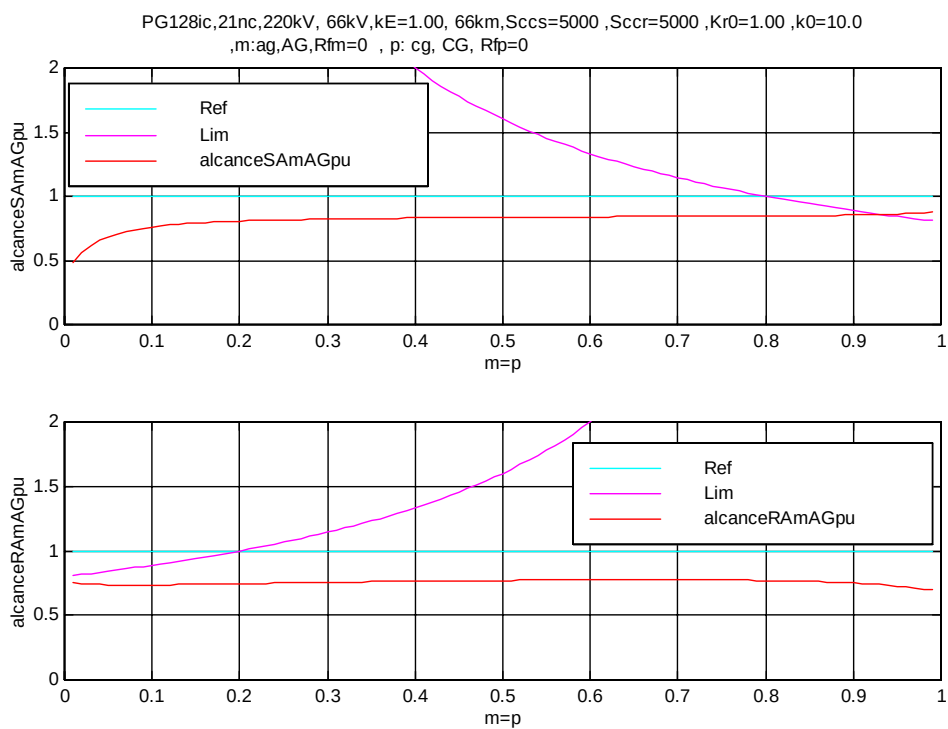
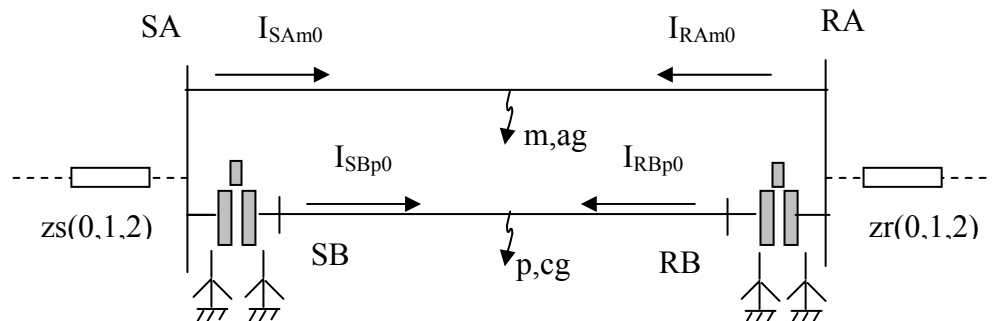
PGc Casos Básicos ó Standard				
Programa		PG128ic		
Entrada Standard	UAn=220 kV, UBn=66 kV, kE=1, LA=LB=66 km, Scs=5000 MVA, Sccr=5000 MVA, Kr0=1			
	Sp=120 MVA, Ss=120 MVA, St=40 MVA, Up=220 kV, Us=66 kV, Ut=33 kV, tccps=12 %, tccpt=5%, tccst=2 %			
	zsr=∞			
	Compensación 21= No			
Parámetro		k0 = zs0/zr0 = 10		
Falta Doble m,p	Falta m	m	0 . . . 1	
		Tipo	ag	
		Elemento	AG	
		Rfm	0	
		Rgm	--	
	Falta p	p = m	0 . . . 1	
		Tipo	cg	
		Elemento	CG	
		Rfp	0	
		Rgp	--	
Salida 1	21 Salida pu Unidad Preferente	alcanceSAmpu	a01	
		alcanceRAmpu		
		alcanceSBppu	a02	
		alcanceRBppu		
Salida 2	21 Salida pua Unidad Preferente	alcanceSAmpua	b01	
		alcanceRAmpua		
		alcanceSBppua	b02	
		alcanceRBppua		
Salida 3	21 Salida pu Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSAmpu	e01	
		alcanceSBppu	e02	
		alcanceRAmpu	e03	
		alcanceRBppu	e04	
Salida 4	21 Salida pua Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSAmpua	f01	
		alcanceSBppua	f02	
		alcanceRAmpua	f03	
		alcanceRBppua	f04	
Continúa en la pág. siguiente				

Viene de la pág. anterior			
Salida 4	67N	SAm	n01
		RAm	n02
		SBp	n03
		RBp	n04
Salida 5	21 R-X	SAm	z01
		RAm	z02
		SBp	z03
		RBp	z04

Programa: PG128ic

Caso Standard, Falta ag-cg: Salida a01

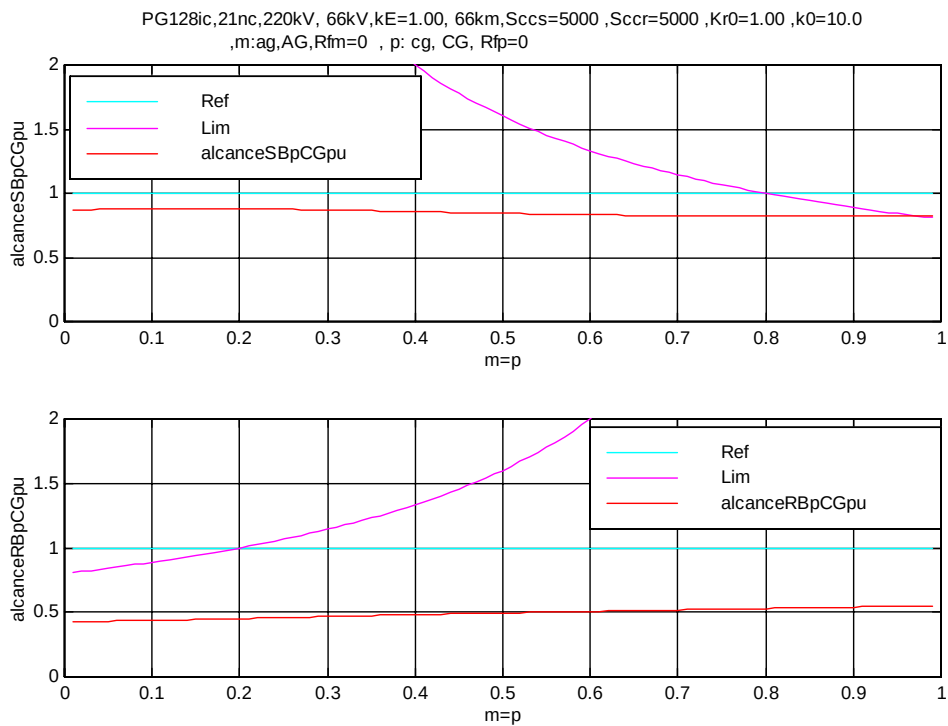
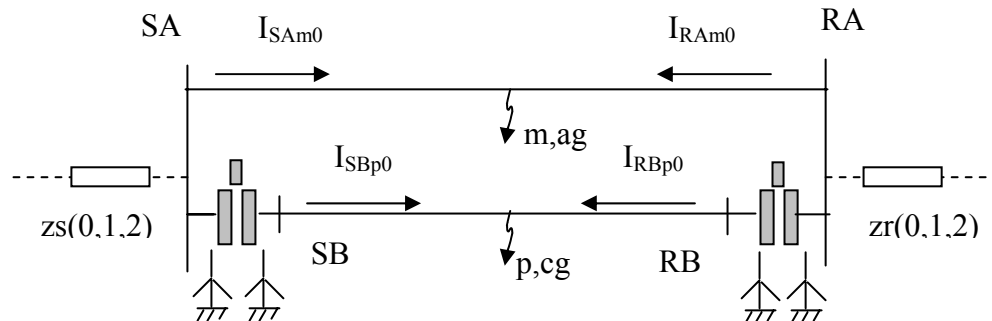
Esquema:

SAm(AG): Falseamiento dependiendo de $I_{SBp0}(k0, m)$ y de m $m = 0, \dots, 1.0 \rightarrow$ acerca, error decreciente (efecto de I_{SBp0} relativo a I_{SAm0})Paso a Zona 2: $m=0.93$ RAm(AG): Falseamiento dependiendo de $I_{RBp0}(k0, m)$ y de m $1-m = 0, \dots, 1.0 \rightarrow$ acerca, error casi estable (efecto de I_{RBp0} relativo a I_{RAm0})Paso a Zona 2: $1-m > 1.0$

Programa: PG128ic

Caso Standard, Falta ag-cg: Salida a02

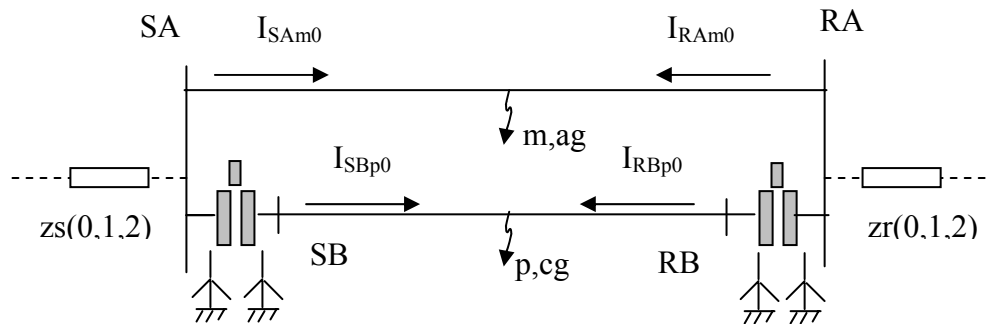
Esquema:

SBp(CG): Falseamiento dependiendo de $I_{SAm0}(k0,m)$ y de m $m = 0, \dots, 1.0 \rightarrow$ acerca, error casi estable (efecto de I_{SAm0} relativo a I_{SBp0})Paso a Zona 2: $m=0.97$ RBp(CG): Falseamiento dependiendo de $I_{RAm0}(k0,m)$ y de m $1-m = 0, \dots, 1.0 \rightarrow$ acerca, error casi estable (efecto de I_{RAm0} relativo a I_{RBp0})Paso a Zona 2: $1-m > 1.0$

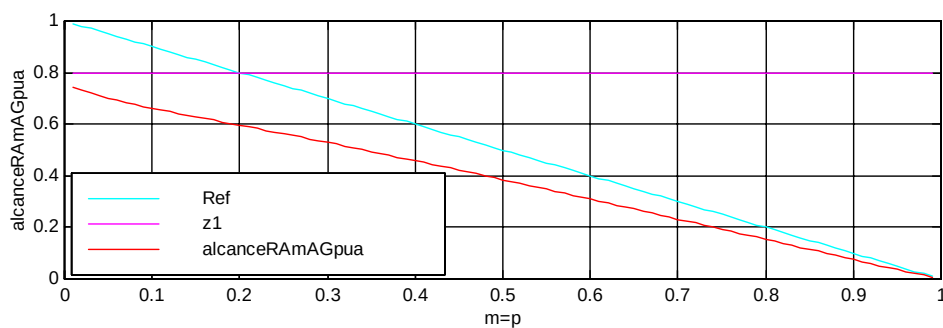
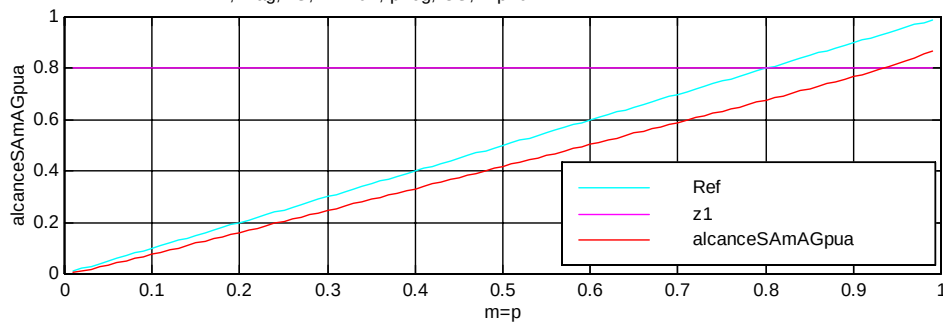
Programa: PG128ic

Caso Standard, Falta ag-cg: Salida b01

Esquema:



PG128ic, 21nc, 220kV, 66kV, kE=1.00, 66km, ScCs=5000, ScCr=5000, Kr0=1.00, k0=10.0
 ,m:ag,AG,Rfm=0 , p: cg, CG, Rfp=0



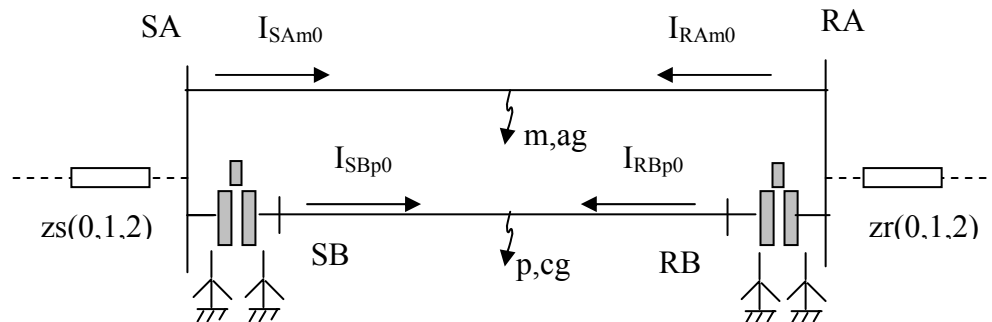
SAm(AG): Falseamiento dependiendo de $I_{SBp0}(k0,m)$ y de m
 $m = 0, \dots, 1.0 \rightarrow$ acerca, error decreciente (efecto de I_{SBp0} relativo a I_{SAm0})
 Paso a Zona 2: $m=0.93$

RAm(AG): Falseamiento dependiendo de $I_{RBp0}(k0,m)$ y de m
 $1-m = 0, \dots, 1.0 \rightarrow$ acerca, error casi estable (efecto de I_{RBp0} relativo a I_{RAm0})
 Paso a Zona 2: $1-m > 1.0$

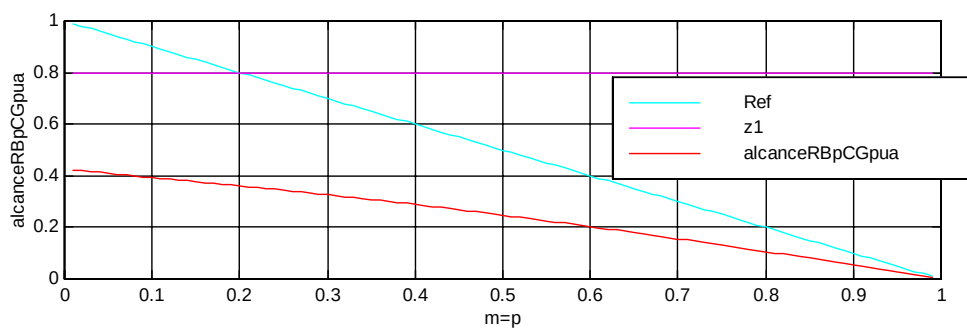
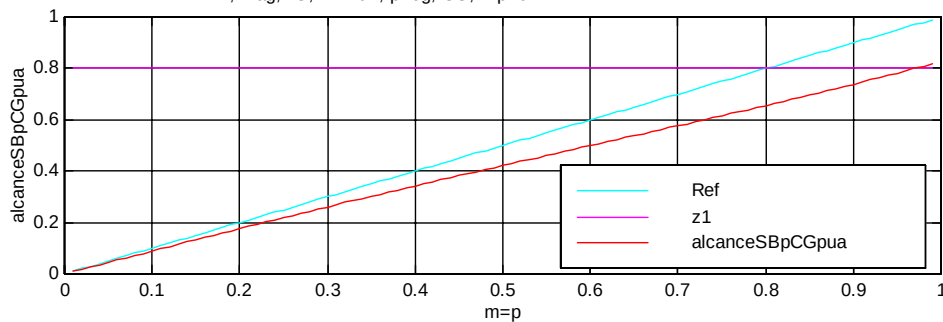
Programa: PG128ic

Caso Standard, Falta ag-cg: Salida b02

Esquema:

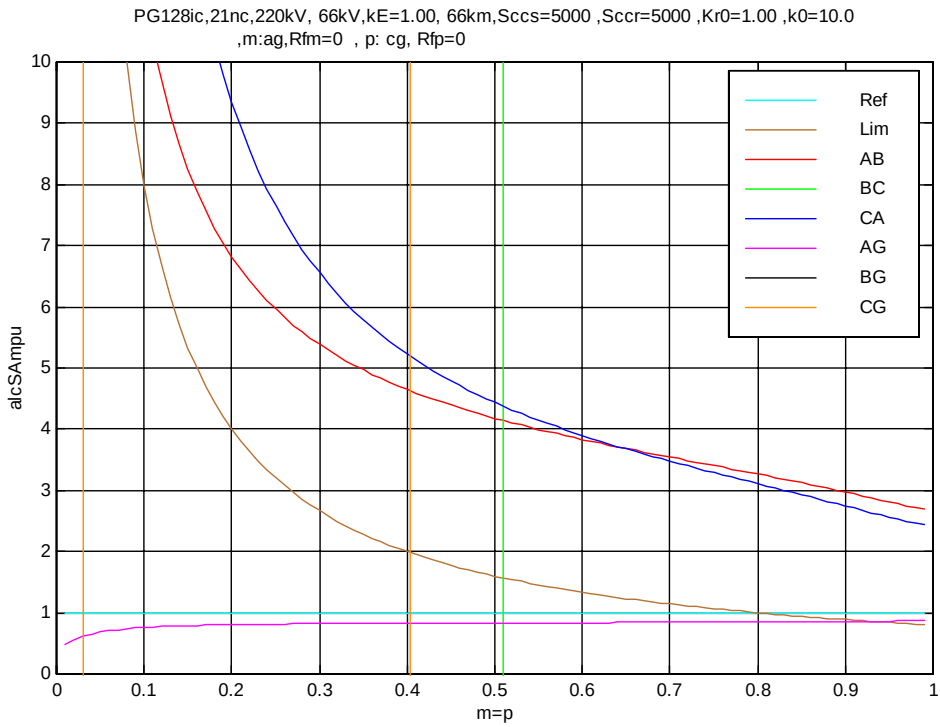
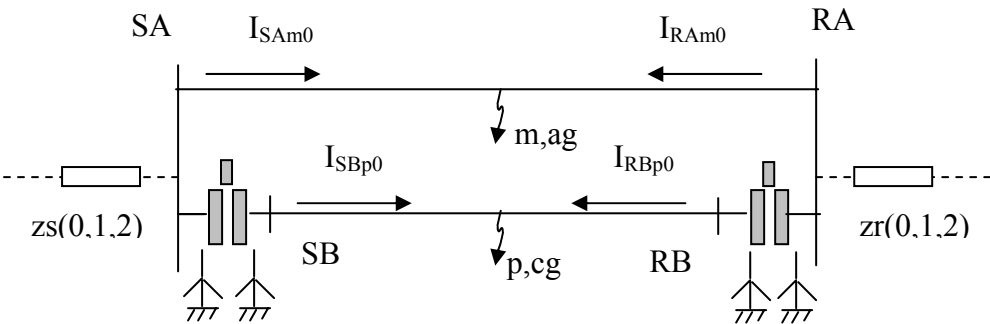


PG128ic, 21nc, 220kV, 66kV, kE=1.00, 66km, Scss=5000, Scrr=5000, Kr0=1.00, k0=10.0
 ,m:ag,AG,Rfm=0 , p: cg, CG, Rfp=0

SBp(CG): Falseamiento dependiendo de $I_{SAm0}(k0,m)$ y de m $m = 0, \dots, 1.0 \rightarrow$ acerca, error casi estable (efecto de I_{SAm0} relativo a I_{SBp0})Paso a Zona 2: $m=0.97$ RBp(CG): Falseamiento dependiendo de $I_{RAm0}(k0,m)$ y de m $1-m = 0, \dots, 1.0 \rightarrow$ acerca, error casi estable (efecto de I_{RAm0} relativo a I_{RBp0})Paso a Zona 2: $1-m > 1.0$

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida e01

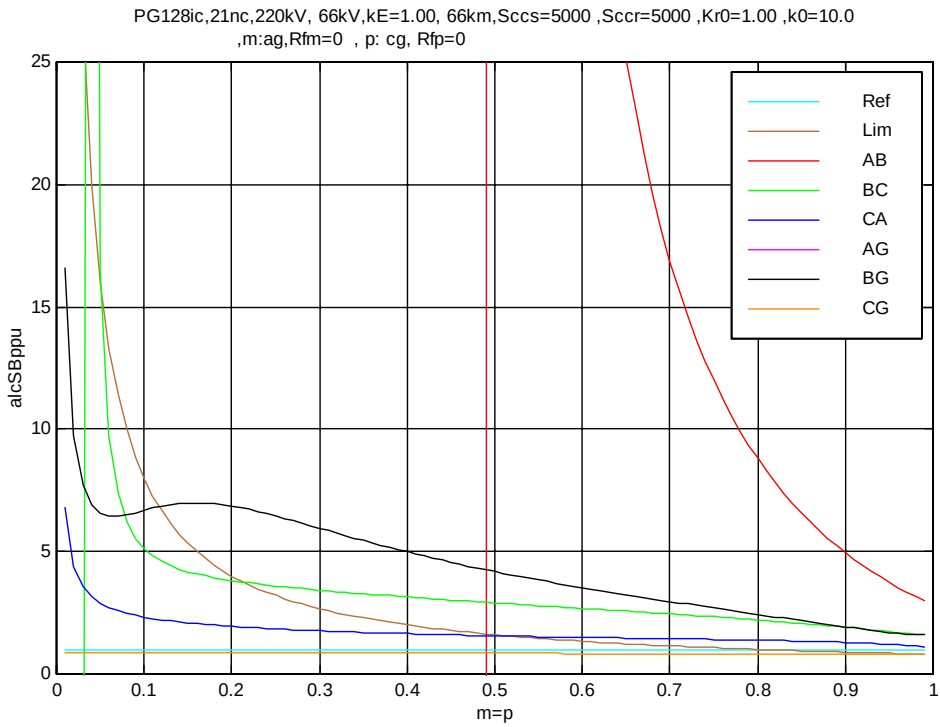
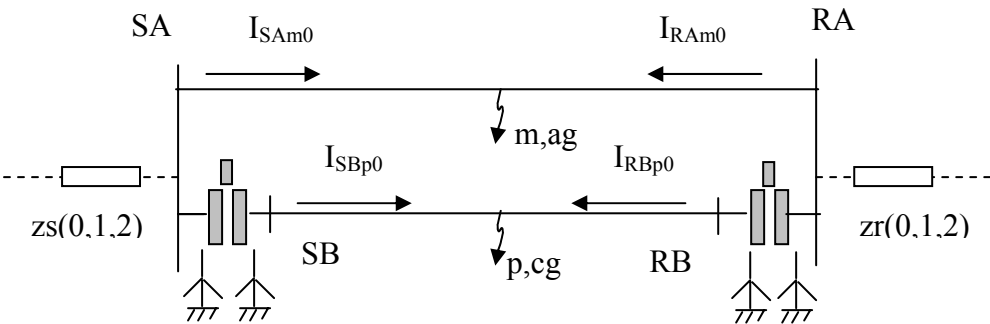
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	--	--	0.93	--	--

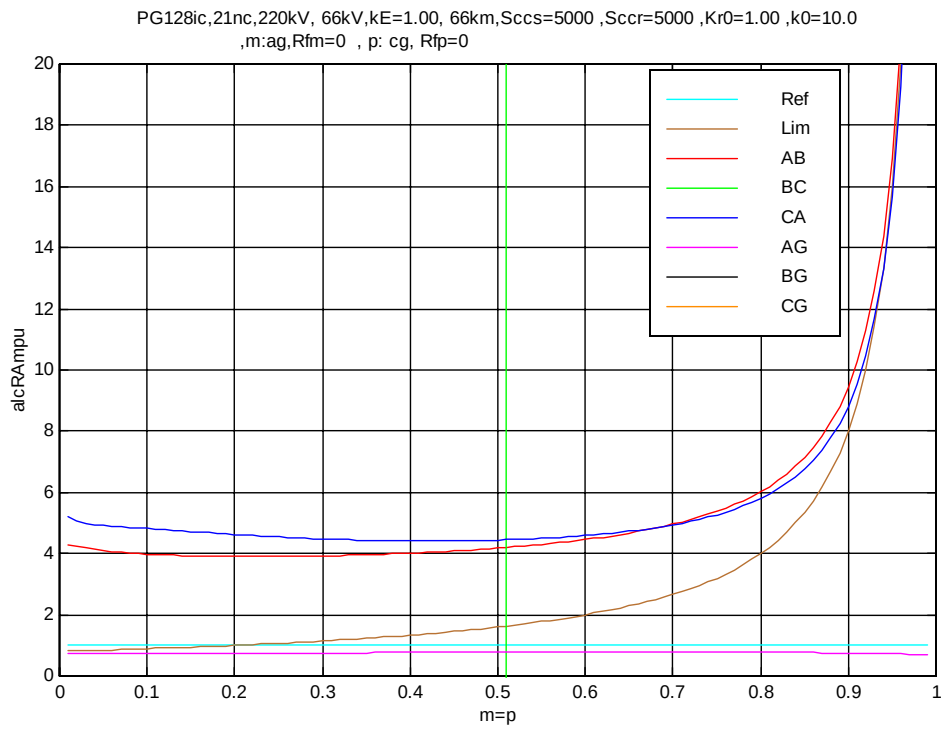
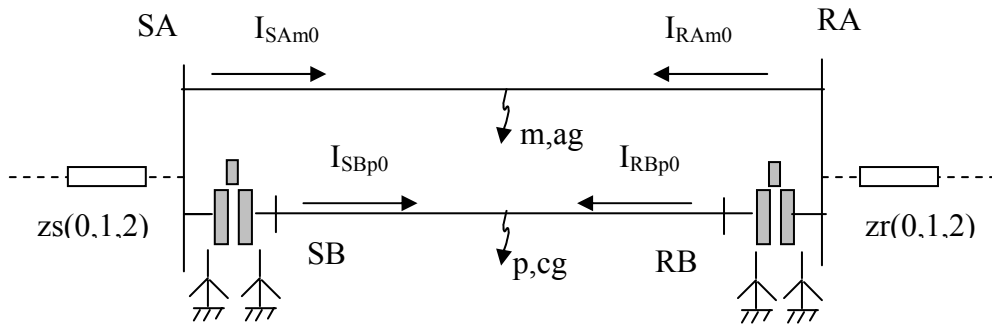
Programa: PG128ic
Caso Standard, Falta ag-cg: Salida e02

Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.05-0.21	0.51	--	0.12	0.96

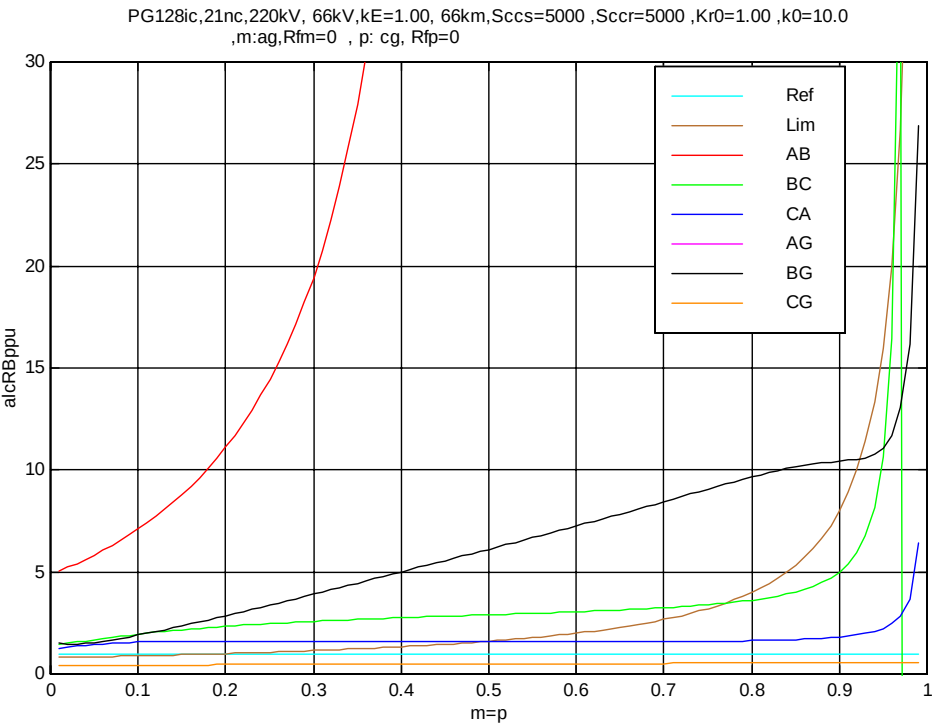
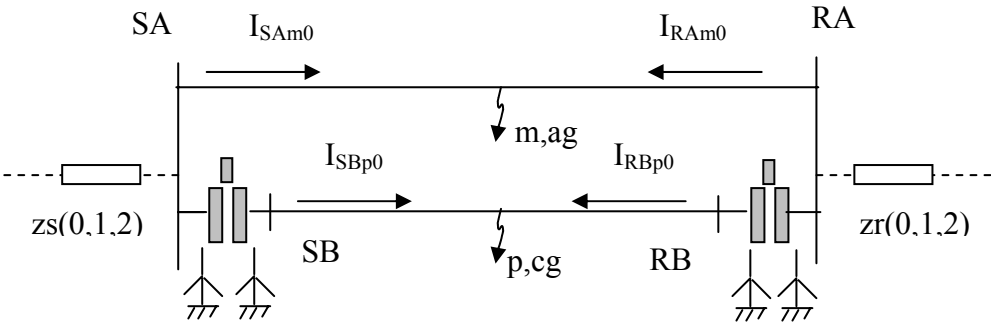
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	--	0.05	>1.00	--	--

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida e04

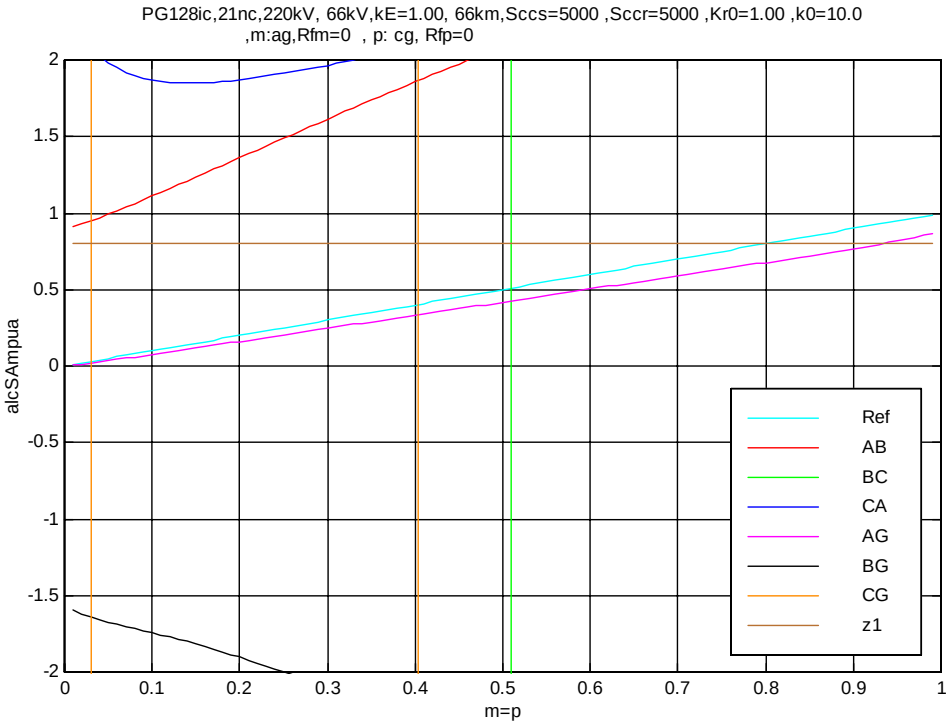
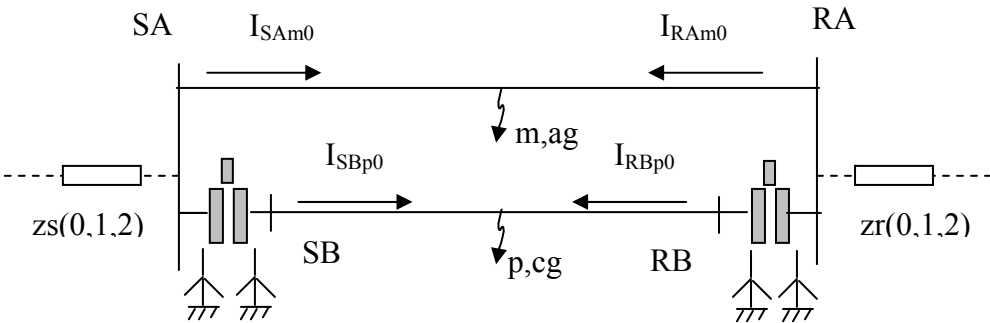
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.04-0.24	0.50	--	0.08	>1.00

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida f01

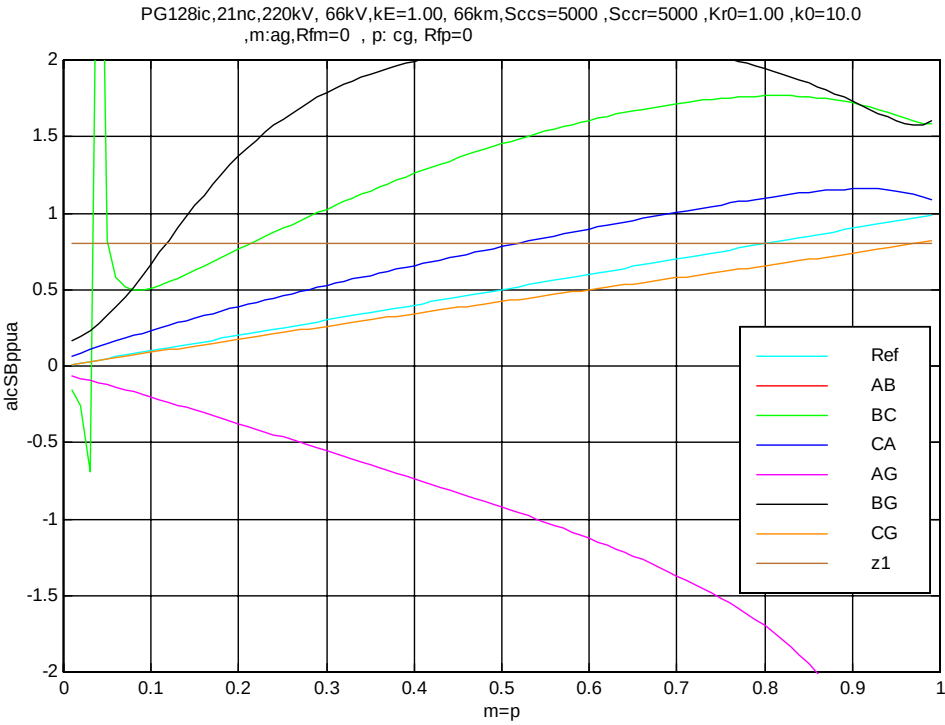
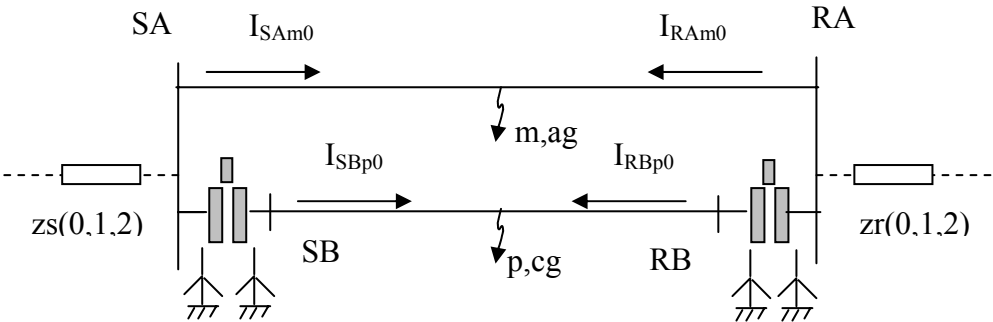
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	--	--	0.93	--	--

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida f02

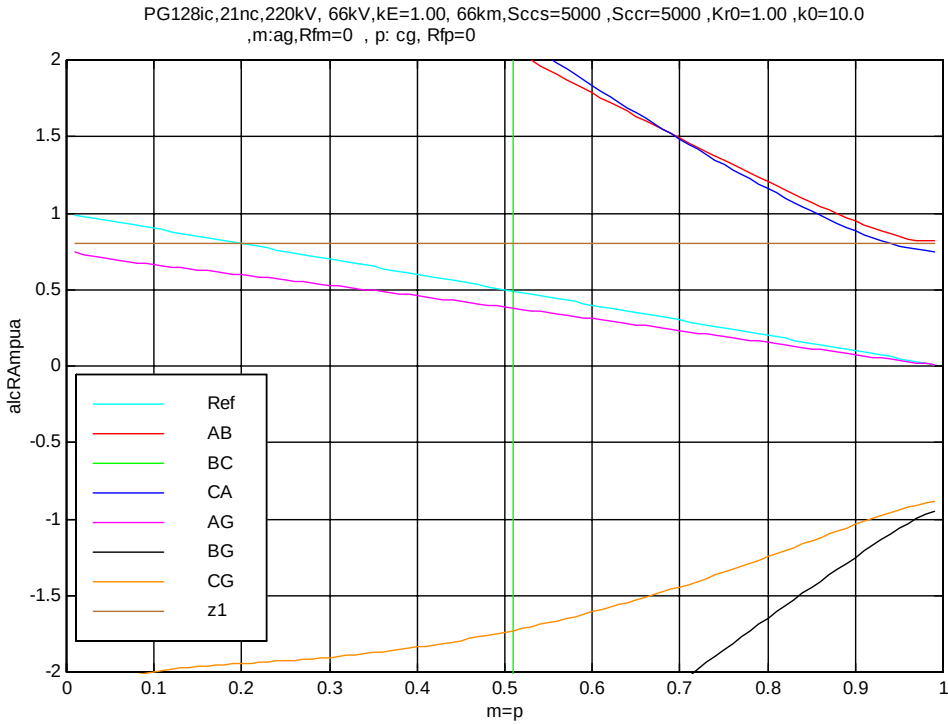
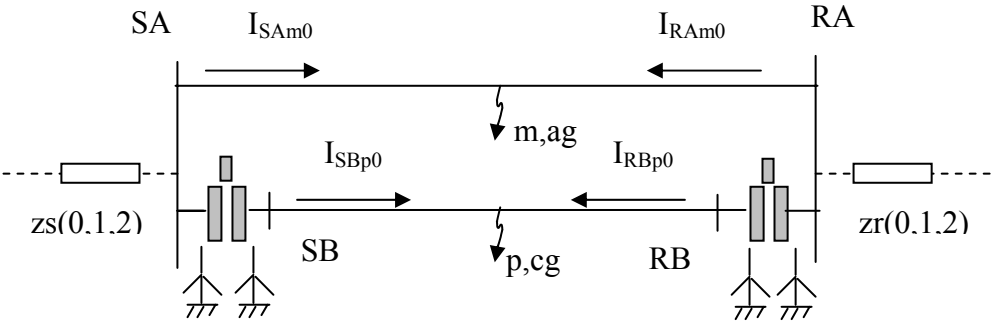
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.05-0.21	0.51	--	0.12	0.96

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida f03

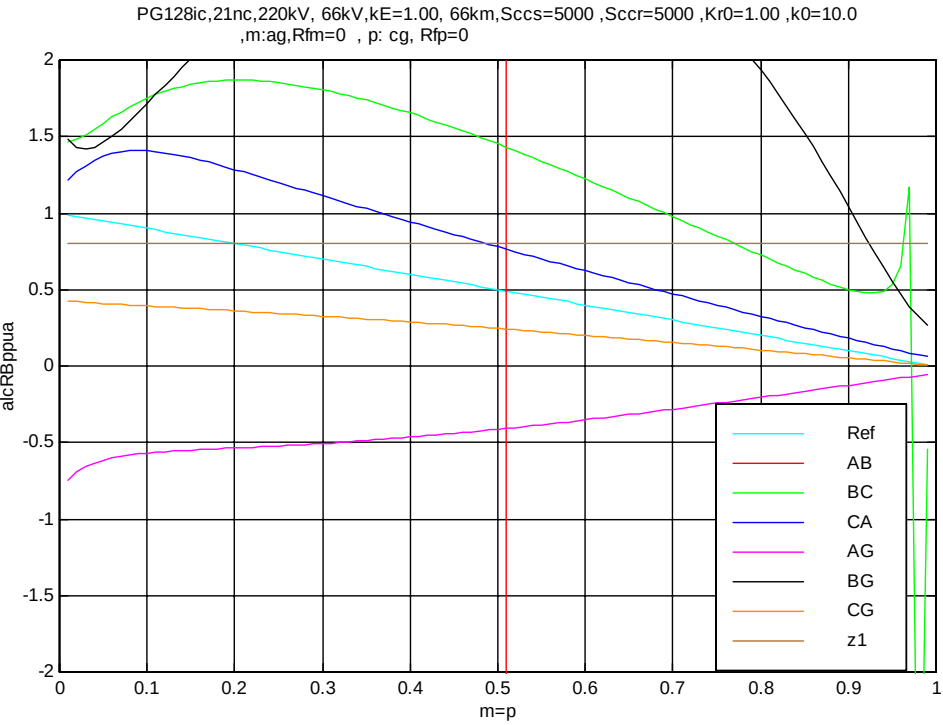
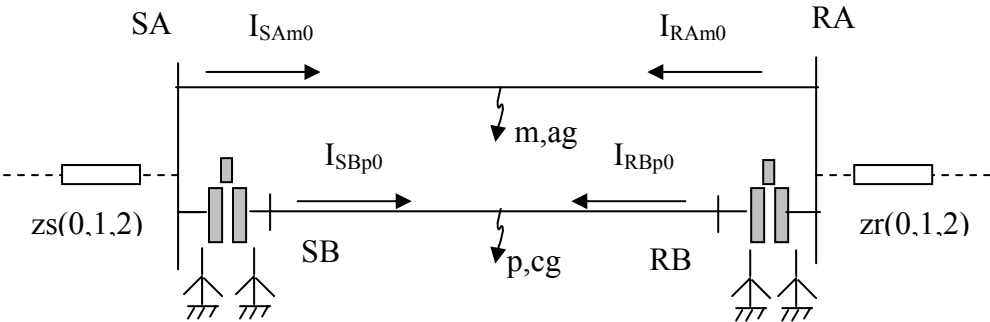
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	--	0.05	>1.00	--	--

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida f04

Esquema:

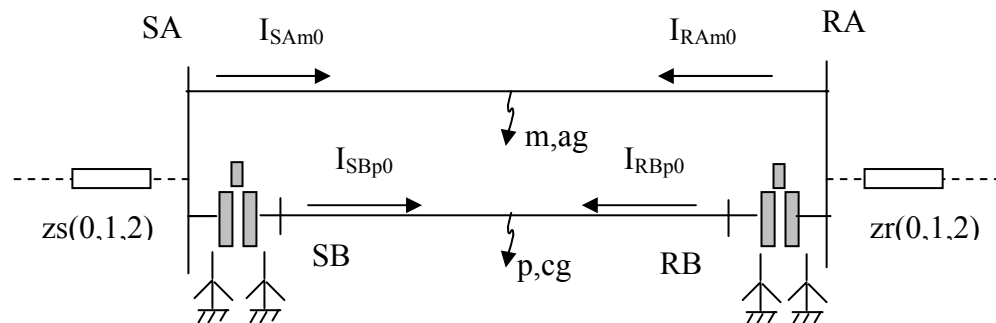


Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.04-0.24	0.50	--	0.08	>1.00

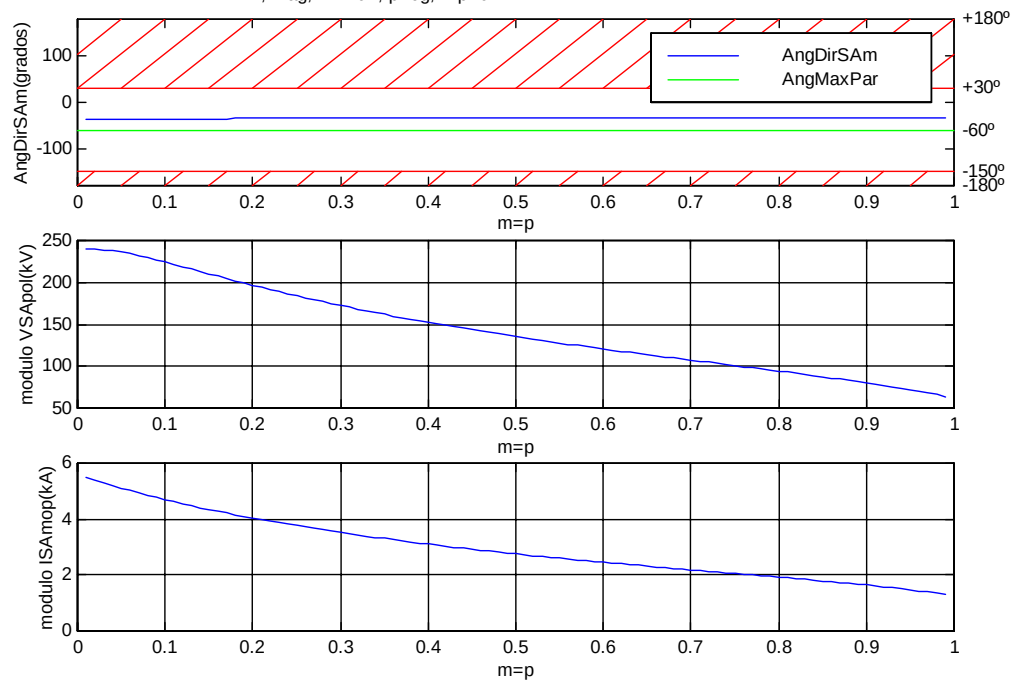
Programa: PG128ic

Caso Standard, Falta ag-cg: Salida n01

Esquema:



PG128ic, 67N, 220kV, 66kV, $kE=1.00$, 66km, $Scs=5000$, $Sscr=5000$, $Kr0=1.00$, $k0=10.0$
 $m: ag, Rfm=0$, $p: cg, Rfp=0$

Direccionalidad: $m=0...1$

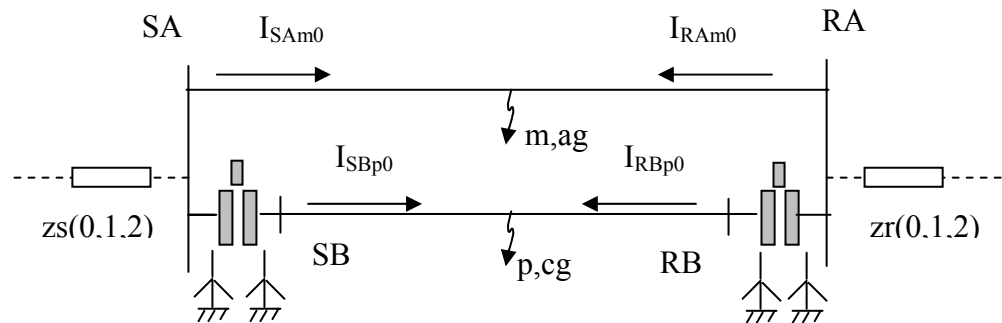
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

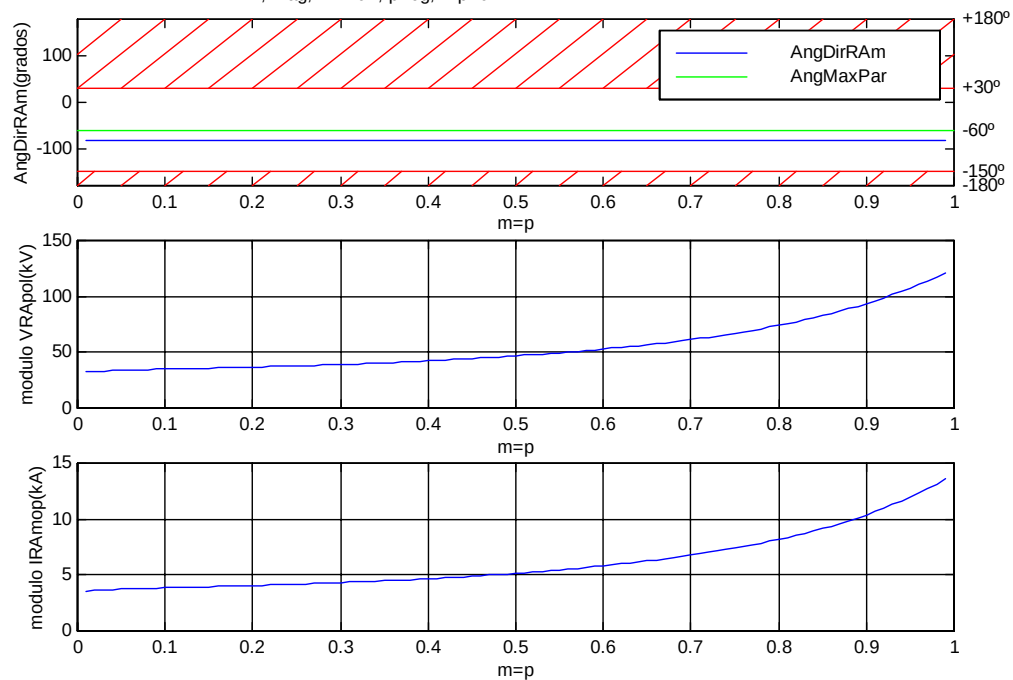
Programa: PG128ic

Caso Standard, Falta ag-cg: Salida n02

Esquema:



PG128ic, 67N, 220kV, 66kV, kE=1.00, 66km, Scs=5000, Scsr=5000, Kr0=1.00, k0=10.0
 , m: ag, Rfm=0, p: cg, Rfp=0



Direccionalidad: 1-m=0...1

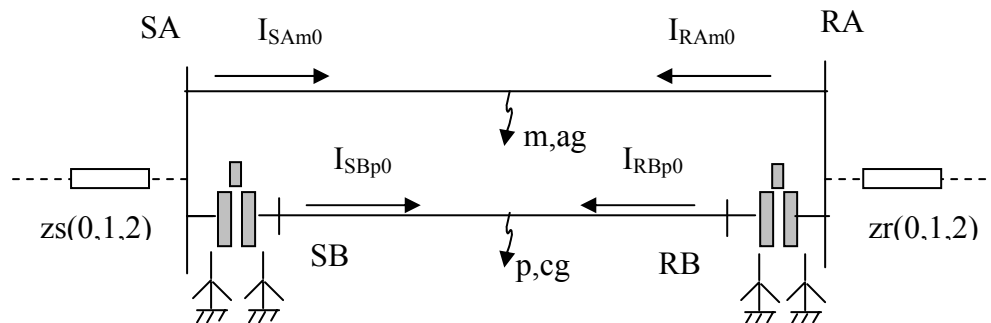
Sensibilidad de Tensión : decreciente (con 1-m)

Sensibilidad de Corriente: decreciente (con 1-m)

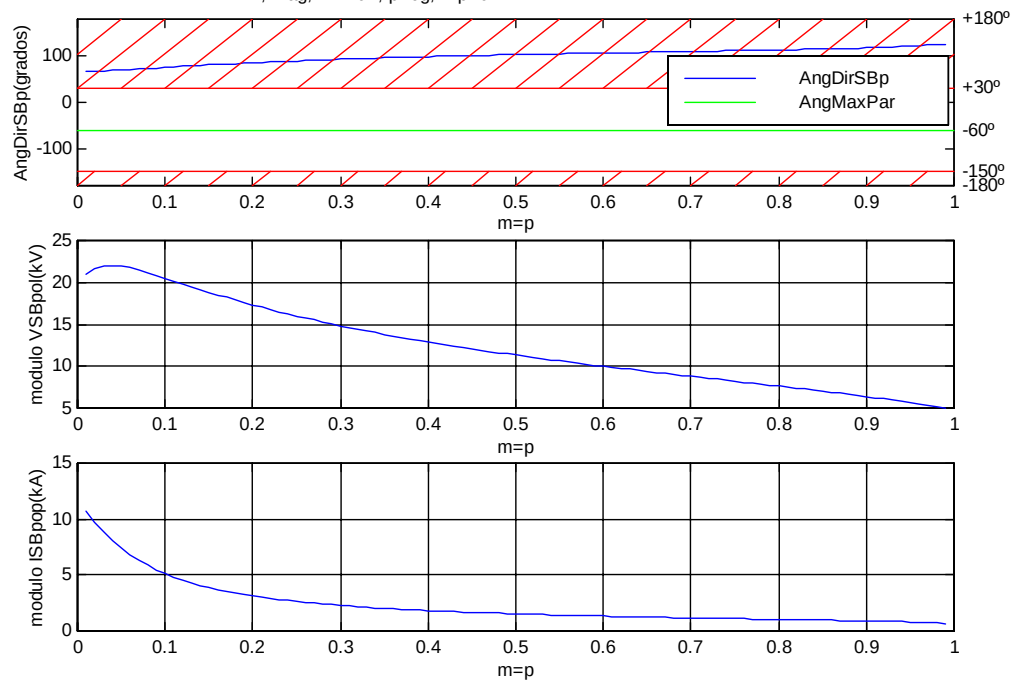
Programa: PG128ic

Caso Standard, Falta ag-cg: Salida n03

Esquema:



PG128ic, 67N, 220kV, 66kV, kE=1.00, 66km, Scs=5000, Scsr=5000, Kr0=1.00, k0=10.0
 , m: ag, Rfm=0, p: cg, Rfp=0



Direccionalidad: No

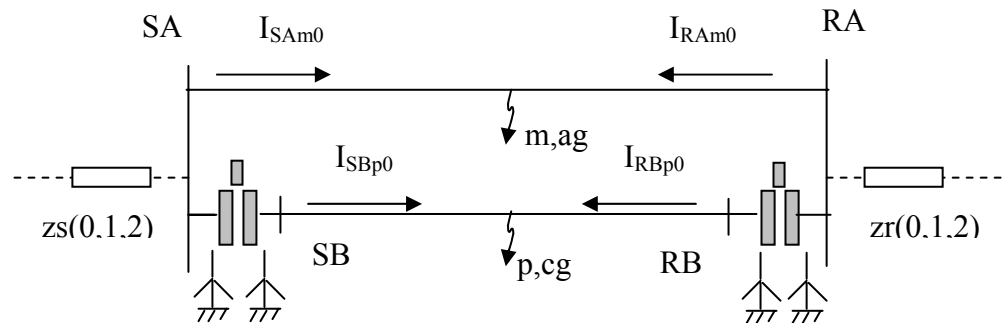
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

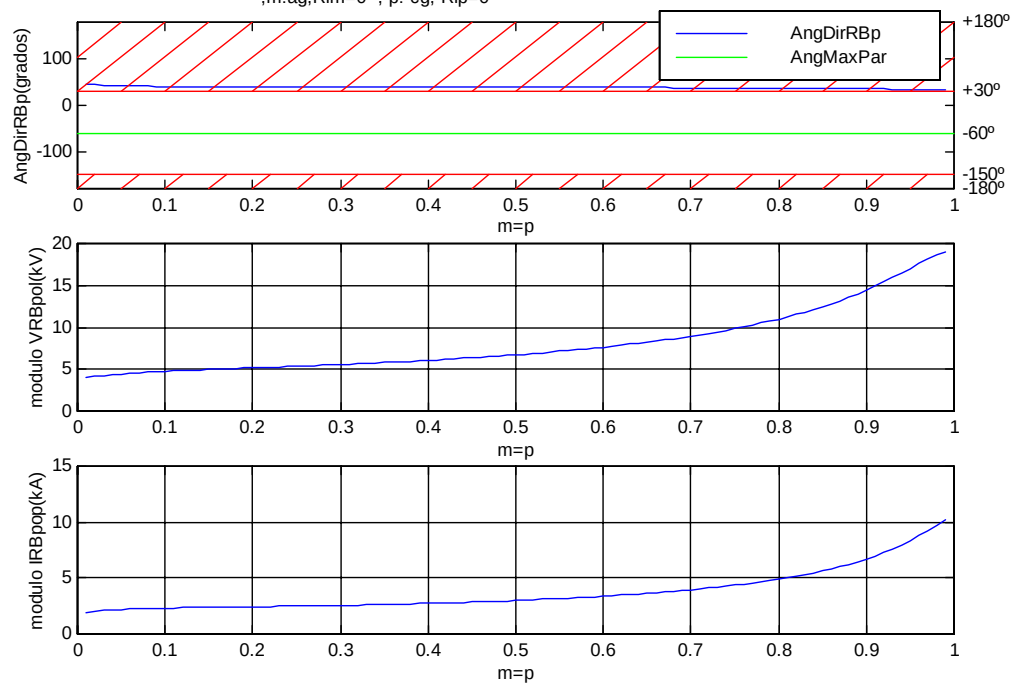
Programa: PG128ic

Caso Standard, Falta ag-cg: Salida n04

Esquema:



PG128ic, 67N, 220kV, 66kV, kE=1.00, 66km, Scs=5000, Scsr=5000, Kr0=1.00, k0=10.0
 , m: ag, Rfm=0, p: cg, Rfp=0



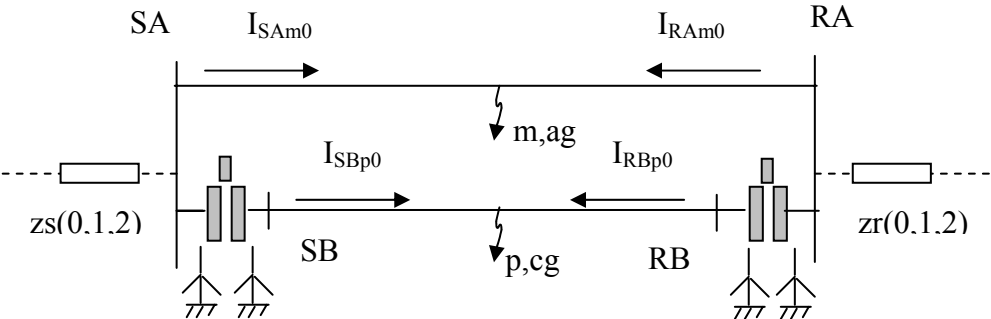
Direccionalidad: No (crítica)

Sensibilidad de Tensión : decreciente (con 1-m)

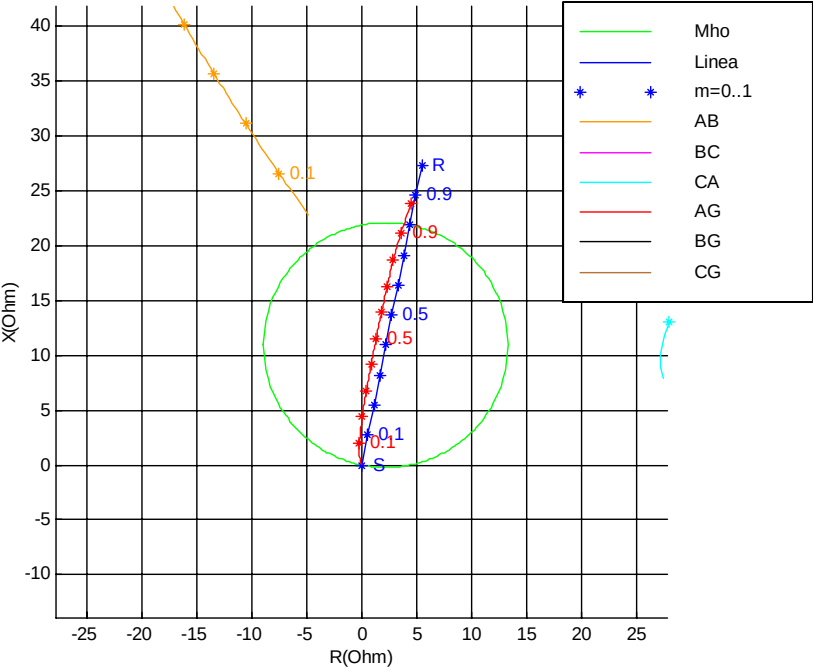
Sensibilidad de Corriente: decreciente (con 1-m)

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida z01

Esquema:



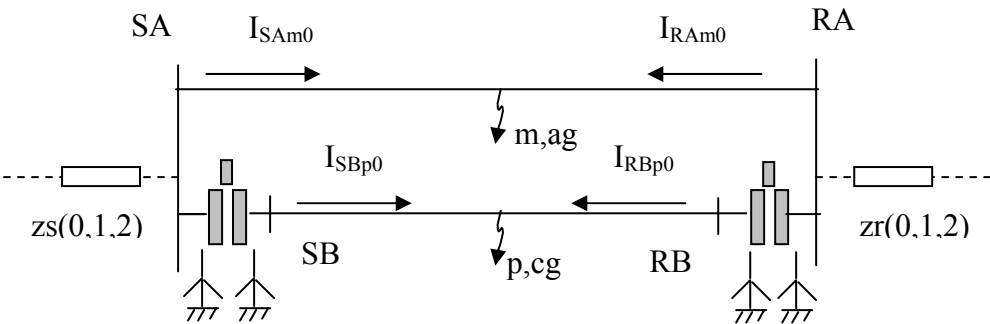
PG128ic,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,m:ag,Rfm=0 , p: cg, Rfp=0 ,Proteccion:SAm



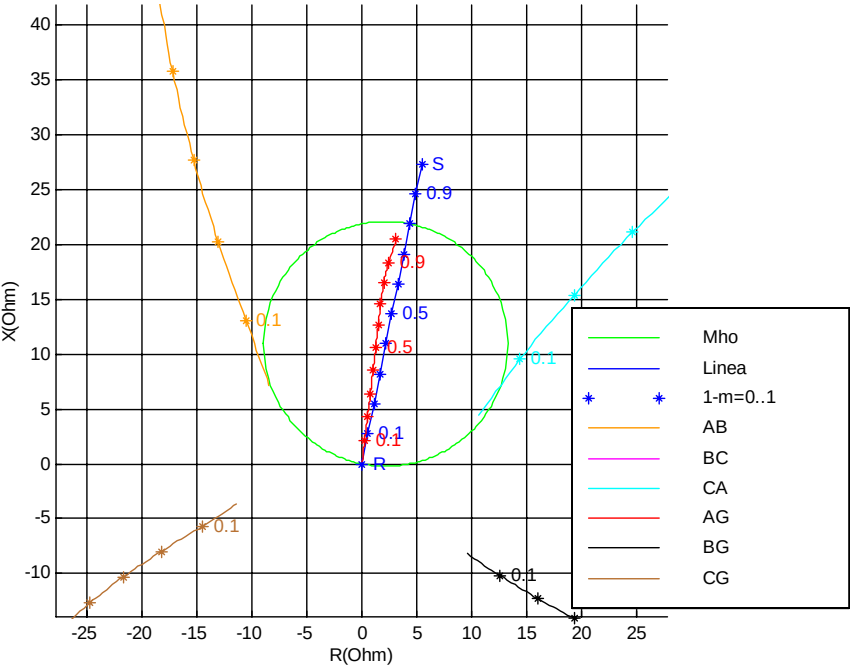
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	0.93	--	--

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida z02

Esquema:



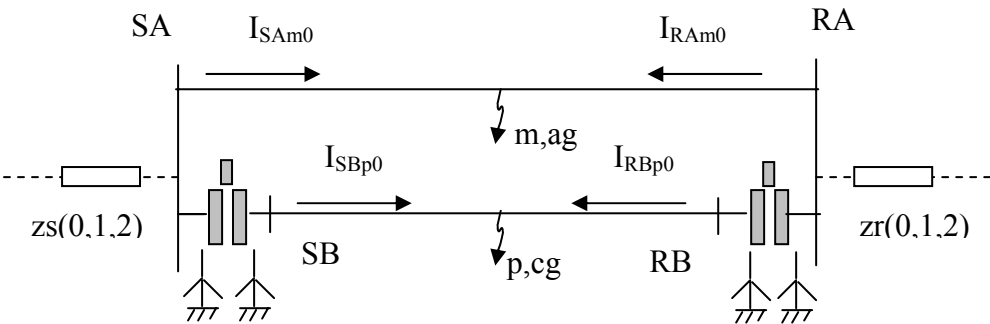
PG128ic,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,m:ag,Rfm=0 , p: cg, Rfp=0 ,Proteccion:RAM



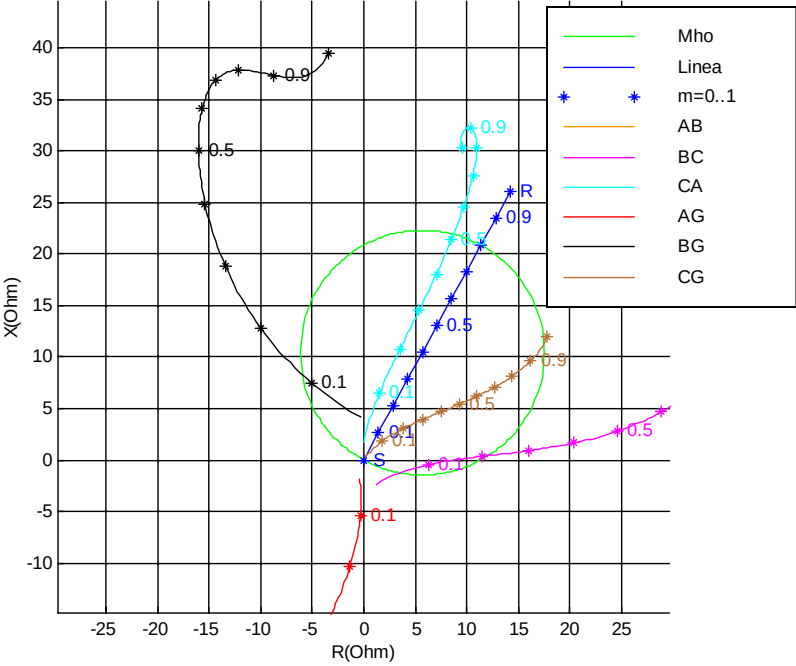
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	0.05	>1.00	--	--

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida z03

Esquema:



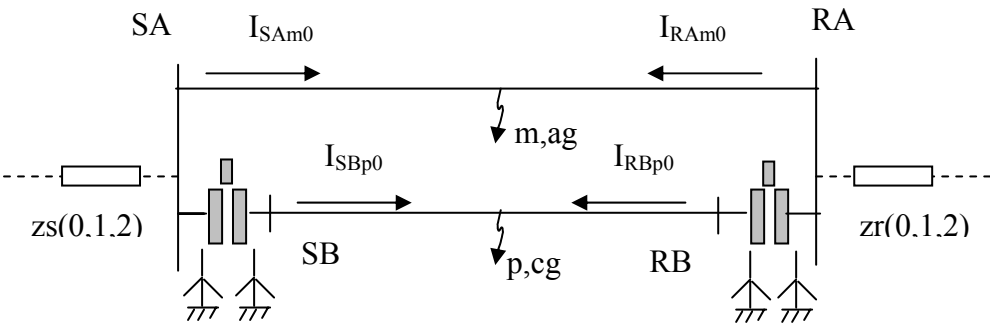
PG128ic, 21nc, 220kV, 66kV, kE=1.00, 66km, ScCs=5000, ScCr=5000, Kr0=1.00, k0=10.0
, m: ag, Rfm=0, p: cg, Rfp=0, Proteccion: SBp



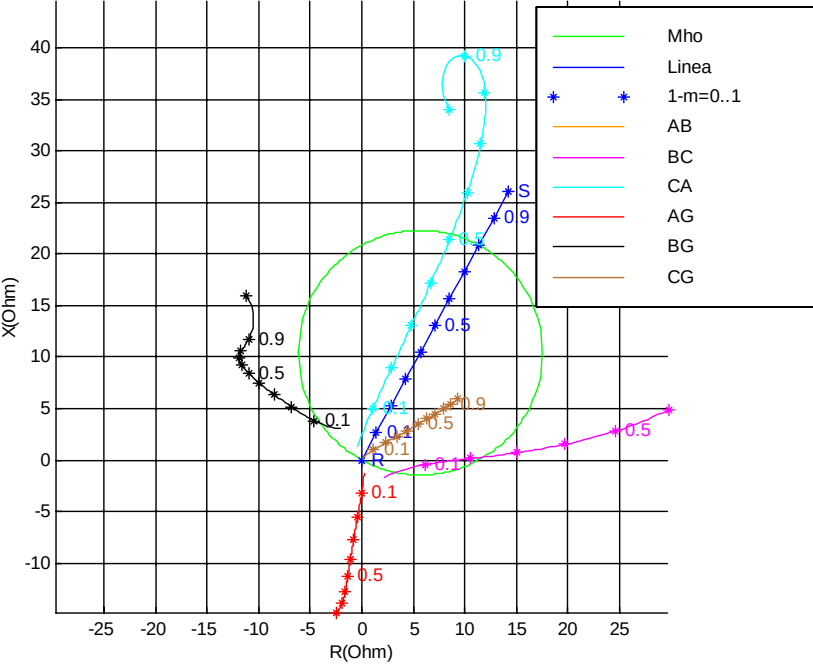
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.05-0.21	0.51	--	0.12	0.96

Programa: PG128ic
Caso Standard, Falta ag-cg: Salida z04

Esquema:

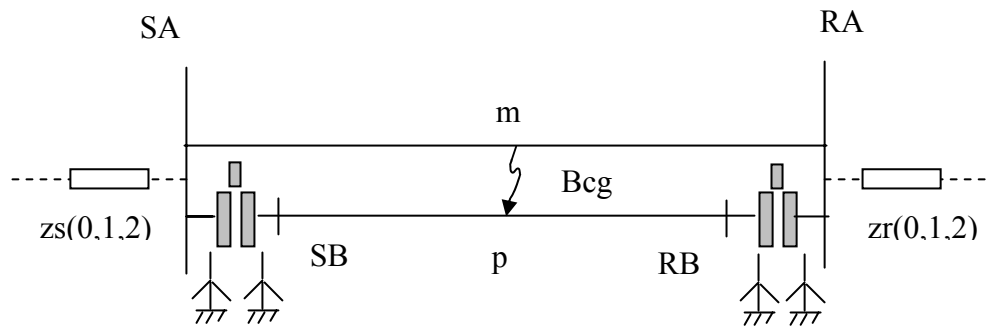


PG128ic,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,m:ag,Rfm=0 , p: cg, Rfp=0 ,Proteccion:RBp



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.04-0.24	0.50	--	0.08	>1.00

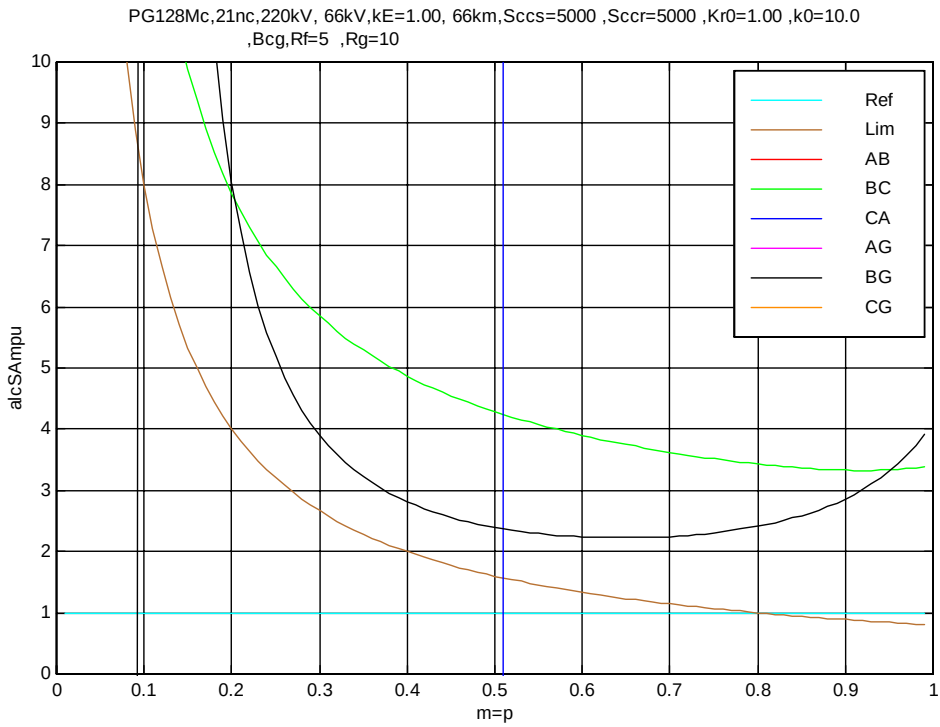
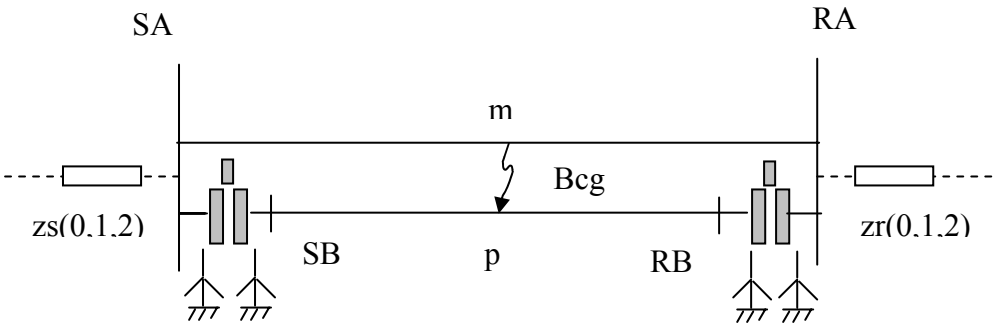
Esquema:



PGc Casos Básicos ó Standard				
Programa	PG128Mc			
Entrada Standard	UAn=220 kV, UBn=66 kV, kE=1, LA=LB=66 km, Scs=5000 MVA, Sccr=5000 MVA, Kr0=1			
	Sp=120 MVA, Ss=120 MVA, St=40 MVA, Up=220 kV, Us=66 kV, Ut=33 kV, tccps=12 %, tcpt=5%, tccst=2 %			
	zsr= ∞			
	Compensación 21= No			
Parámetro	$k0 = z_{s0}/z_{r0} = 10$			
Falta Intercircuito m=p	m: Línea SA-RA	m = p	0 . . . 1	
		Tipo	Bcg	
	p:Línea SB-RB	Elemento	--	
		Rf	5 Ohms	
		Rg	10 Ohms	
Salida 1	21 Salida pu Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSAmpu	e01	
		alcanceSBppu	e02	
		alcanceRAmpu	e03	
		alcanceRBppu	e04	
Salida 2	21 Salida pua Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSAmpua	f01	
		alcanceSBppua	f02	
		alcanceRAmpua	f03	
		alcanceRBppua	f04	
Salida 3	67N	SAm	n01	
		RAm	n02	
		SBp	n03	
		RBp	n04	
Salida 4	21 R-X	SAm	z01	
		RAm	z02	
		SBp	z03	
		RBp	z04	

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida e01

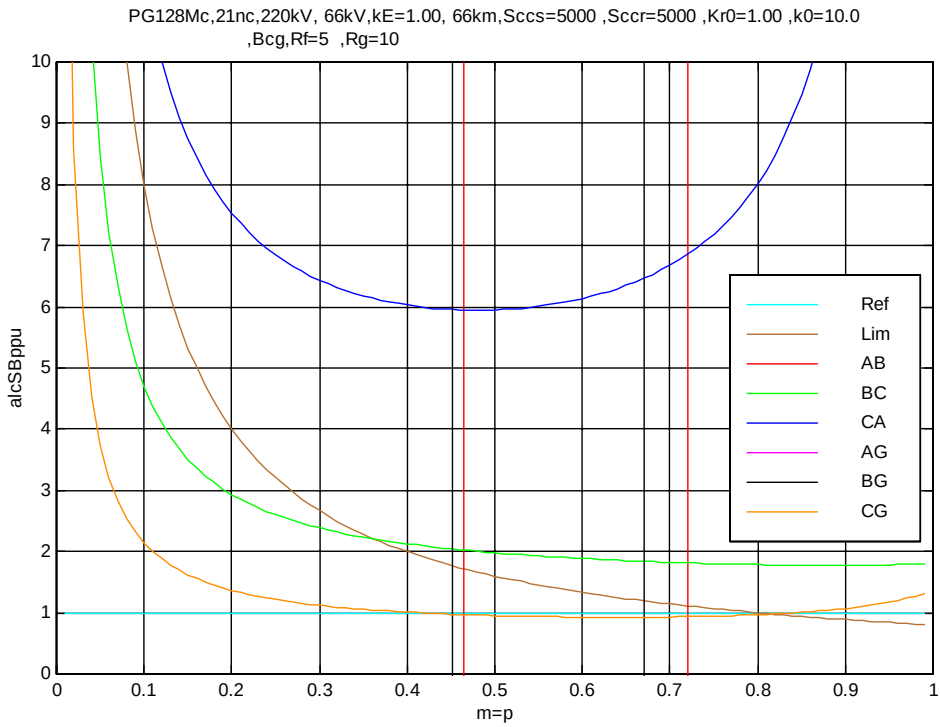
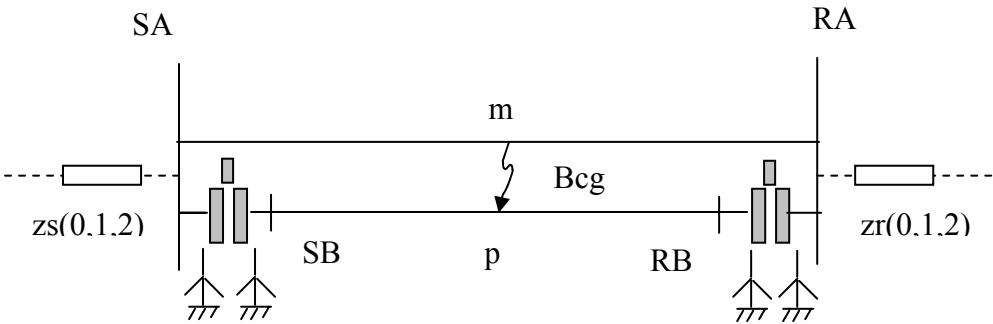
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	--	--	--	--	--

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida e02

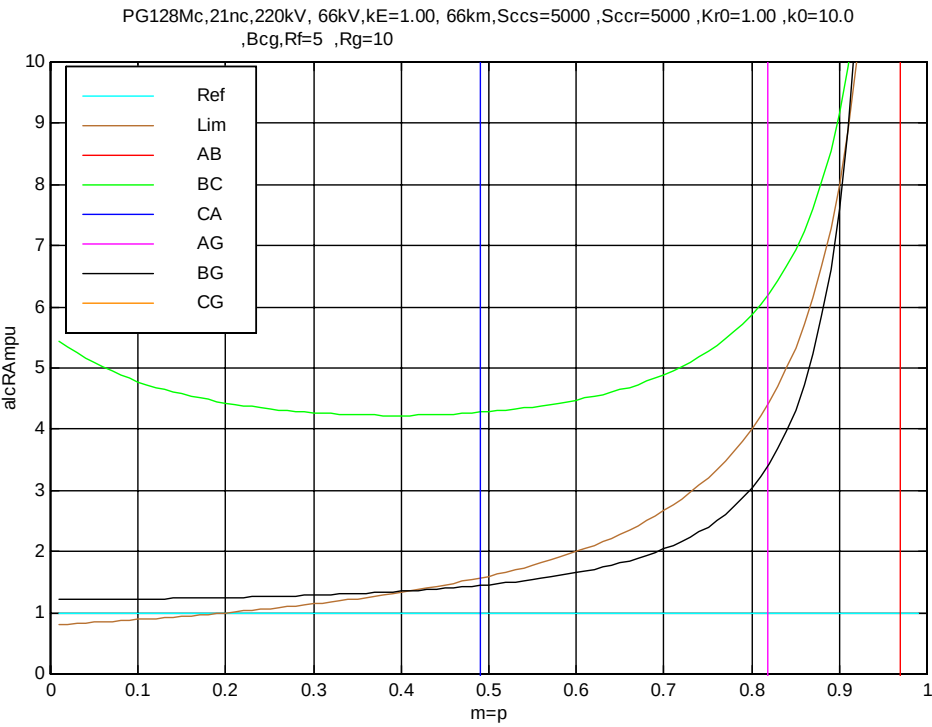
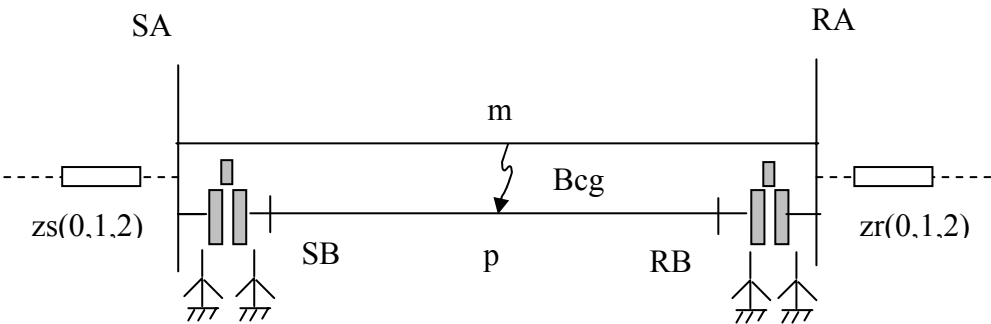
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.38	0.01	--	0.05	0.82

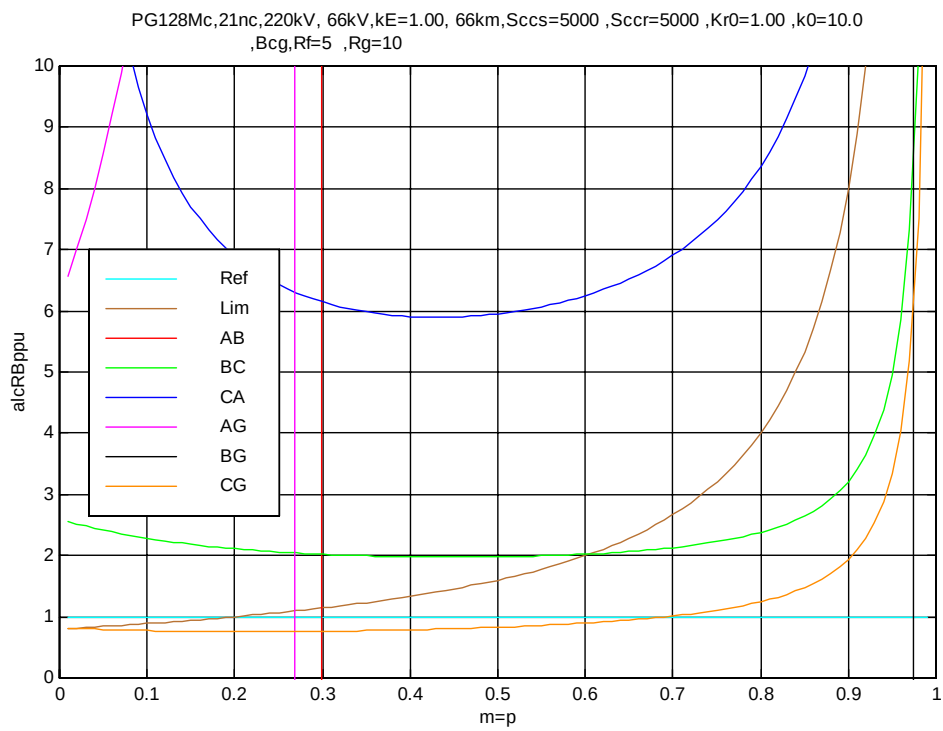
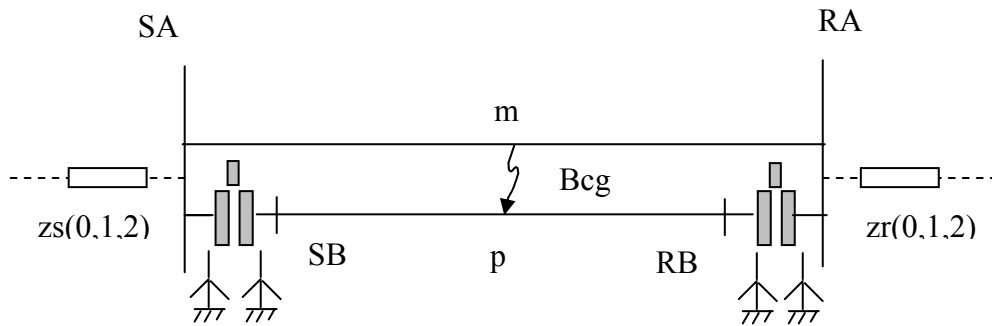
Programa: PG128Mc
Caso Standard, Falta Bcg: Salida e03

Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.05	--	--	0.08-0.60	--

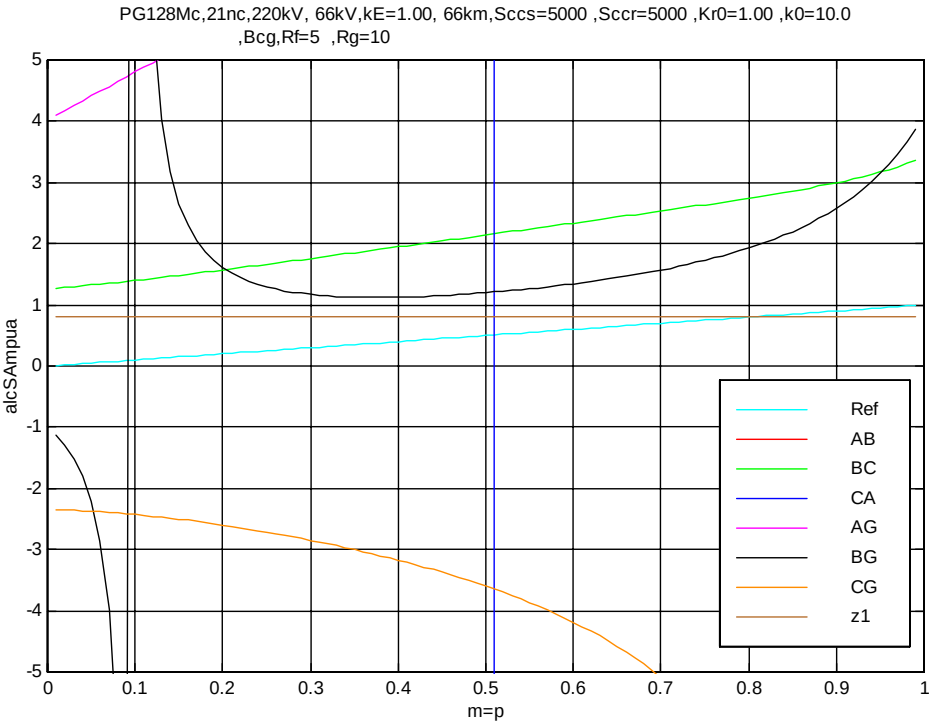
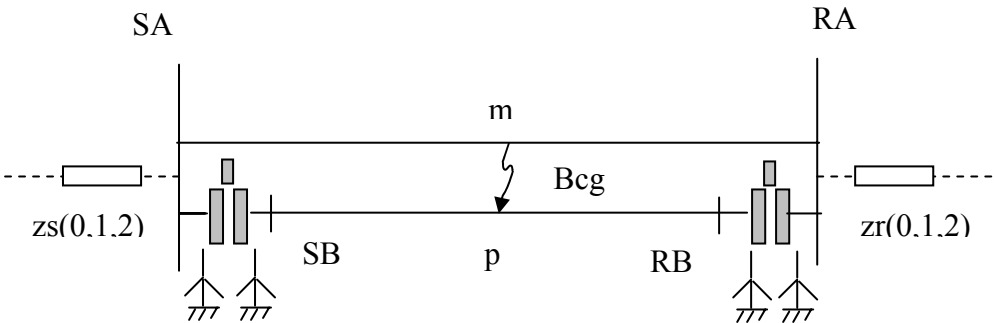
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.40	--	--	--	0.98

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida f01

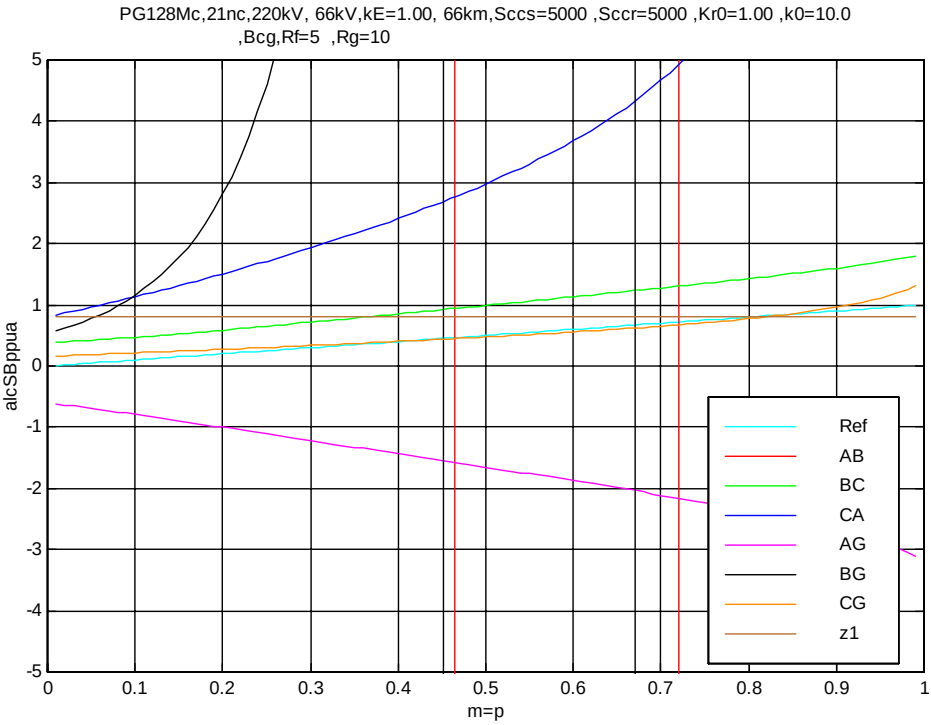
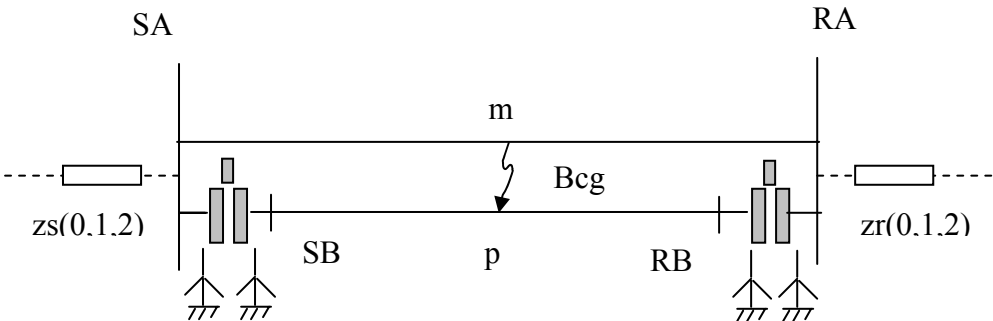
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	--	--	--	--	--

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida f02

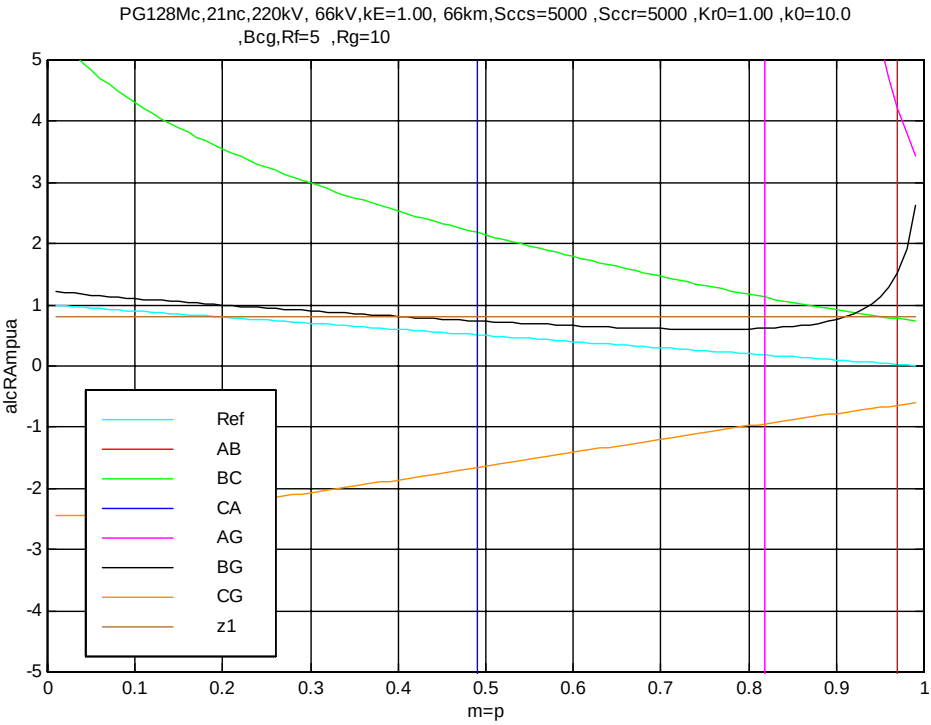
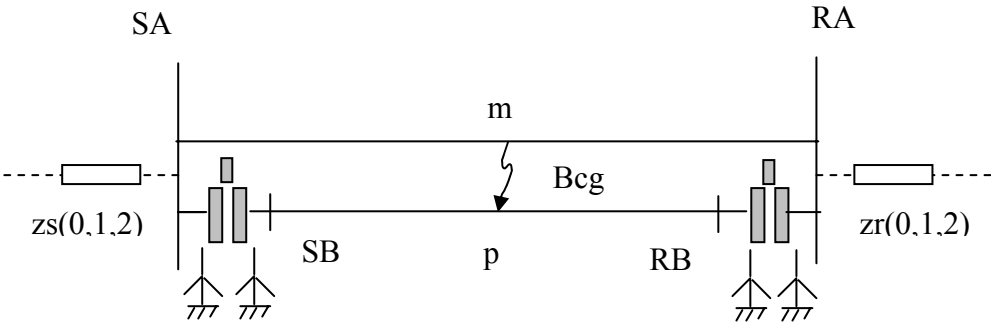
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.38	0.01	--	0.05	0.82

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida f03

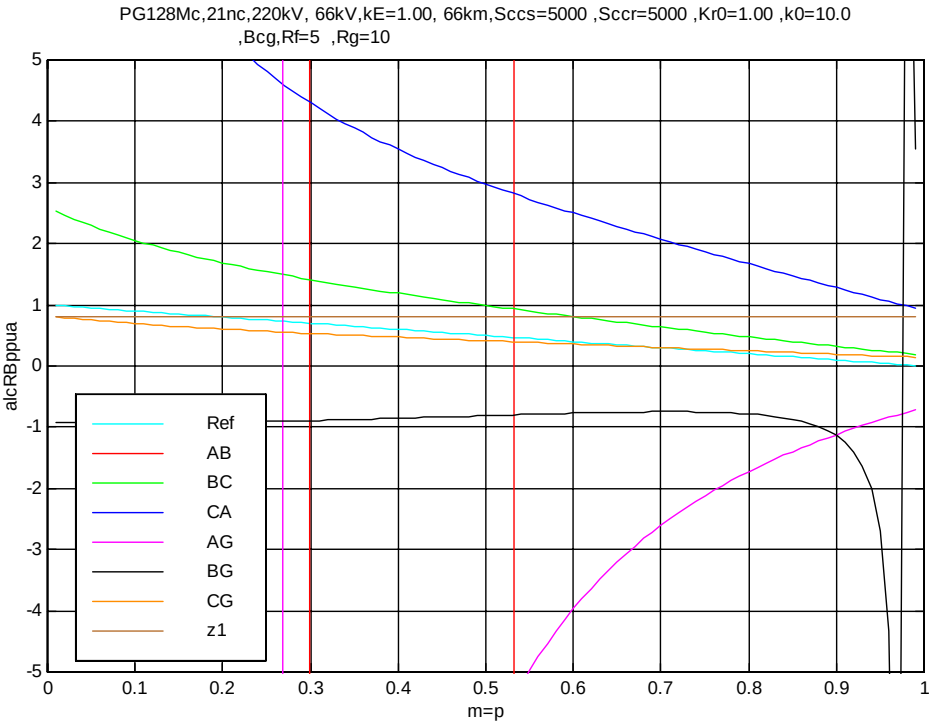
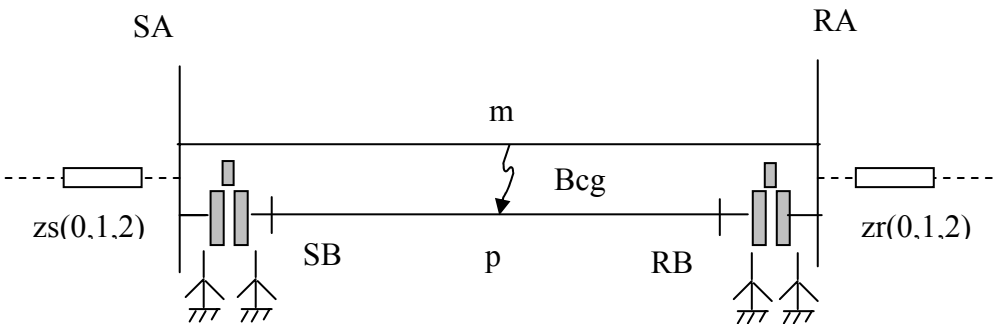
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.05	--	--	0.08-0.60	--

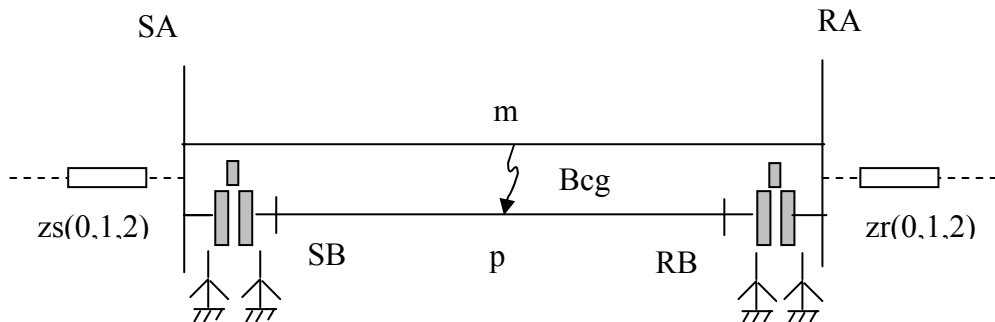
Programa: PG128Mc
Caso Standard, Falta Bcg: Salida f04

Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.40	--	--	--	0.98

Esquema:

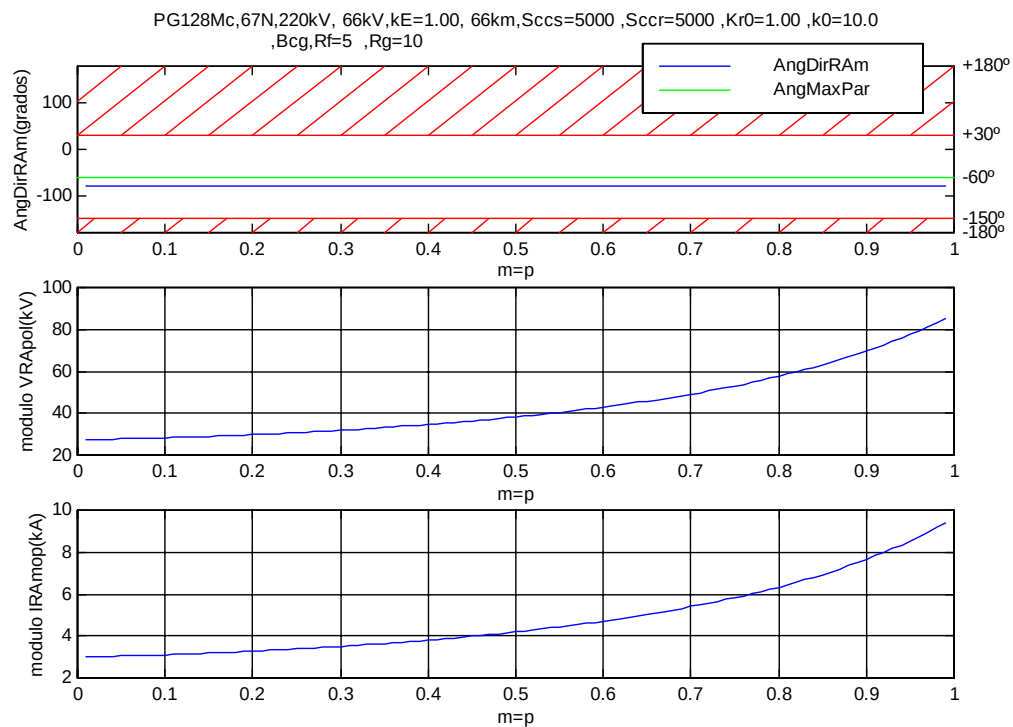
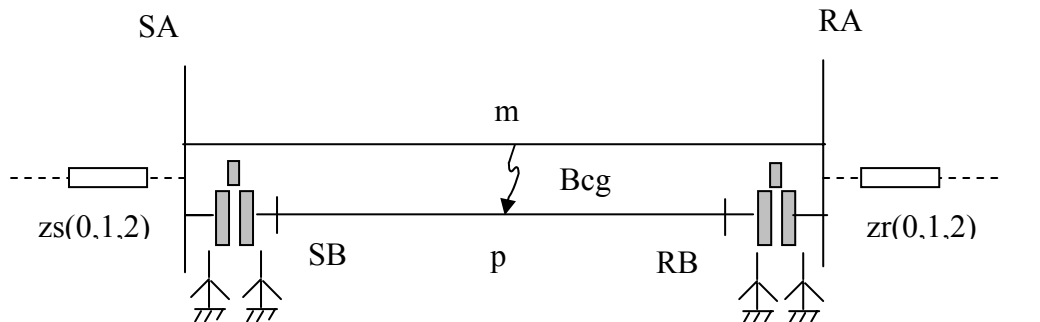


Direccionalidad: $m=0\dots 1$
Sensibilidad de Tensión : decreciente (con m)
Sensibilidad de Corriente: decreciente (con m)

Programa: PG128Mc

Caso Standard, Falta Bcg: Salida n02

Esquema:



Direccionalidad: 1-m=0...1

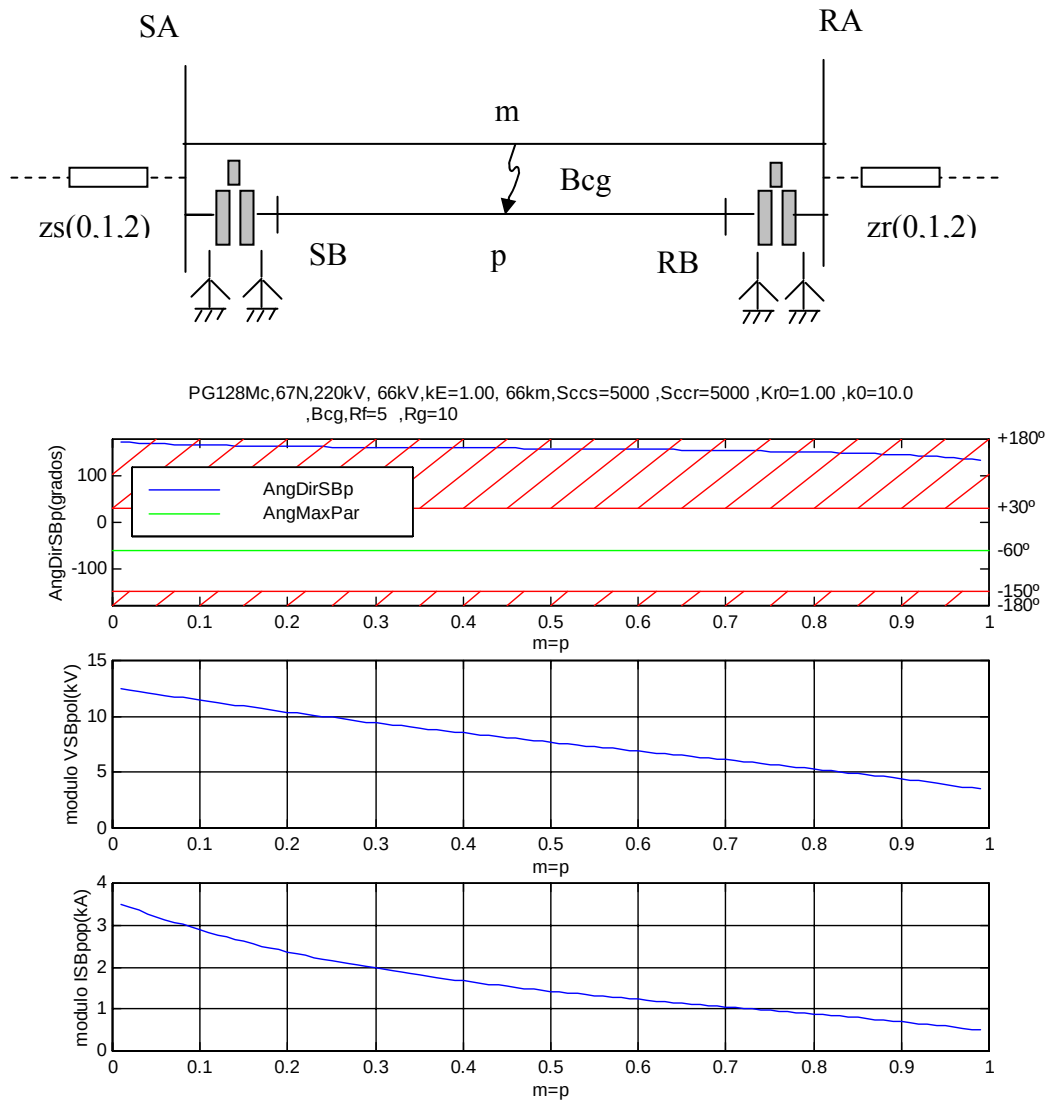
Sensibilidad de Tensión : decreciente (con 1-m)

Sensibilidad de Corriente: decreciente (con 1-m)

Programa: PG128Mc

Caso Standard, Falta Bcg: Salida n03

Esquema:



Direccionalidad: No

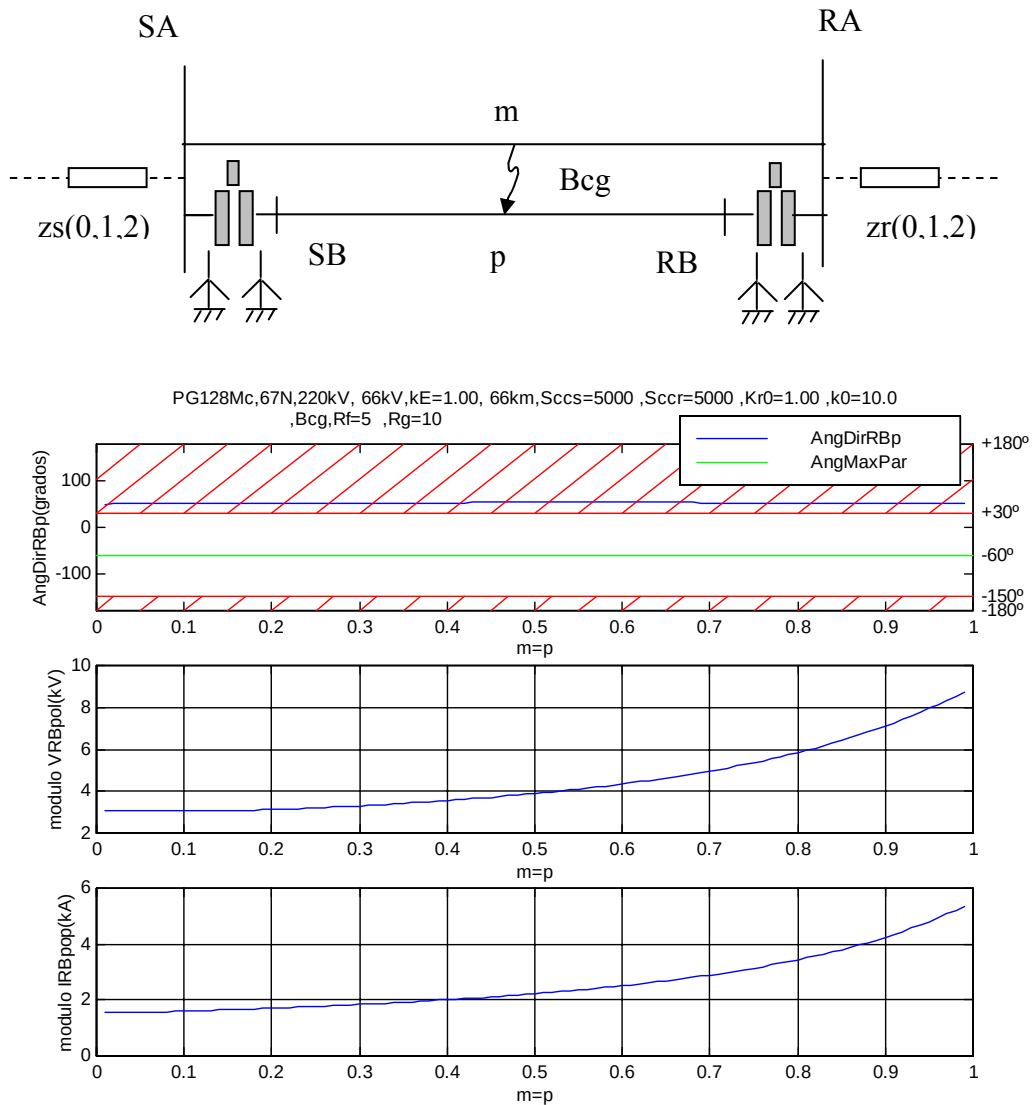
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

Programa: PG128Mc

Caso Standard, Falta Bcg: Salida n04

Esquema:

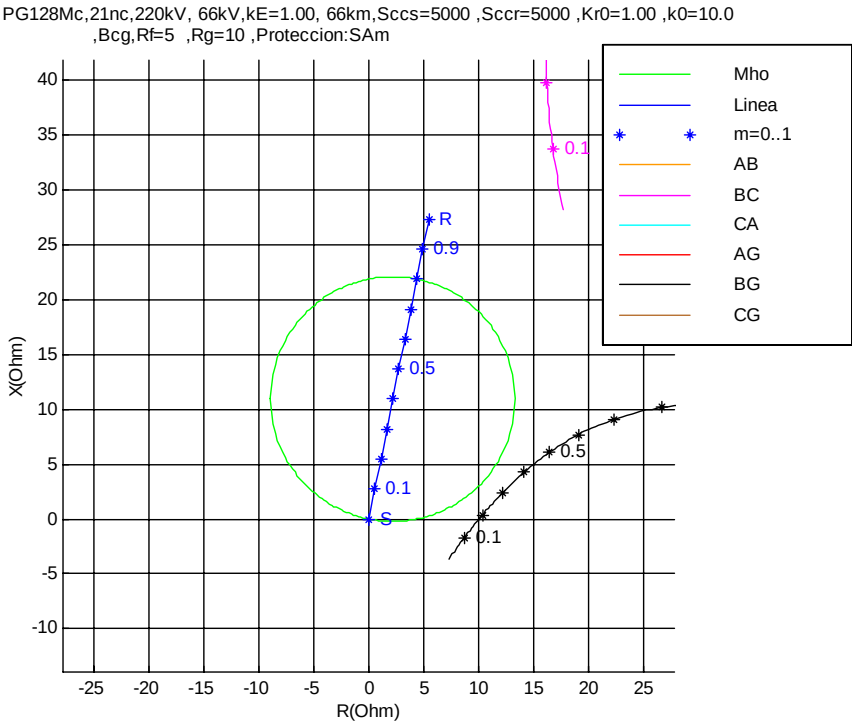
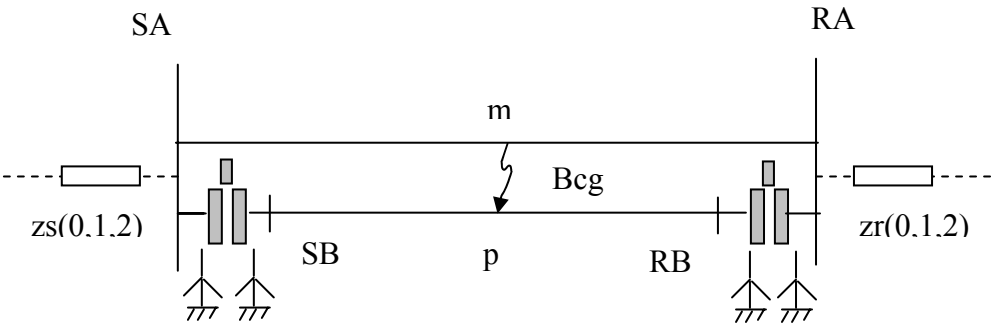


Direccionalidad: No

Sensibilidad de Tensión : $0 < 1-m < 0.78$ decreciente (con $1-m$) $0.78 < 1-m < 1$ valores aproximadamente constantesSensibilidad de Corriente: decreciente (con $1-m$)

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida z01

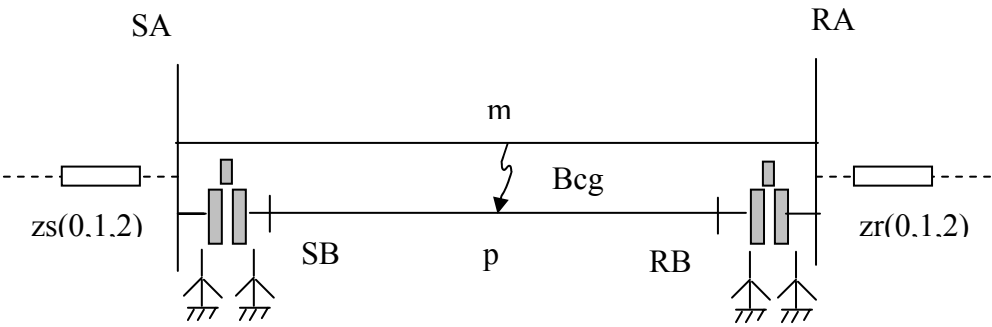
Esquema:



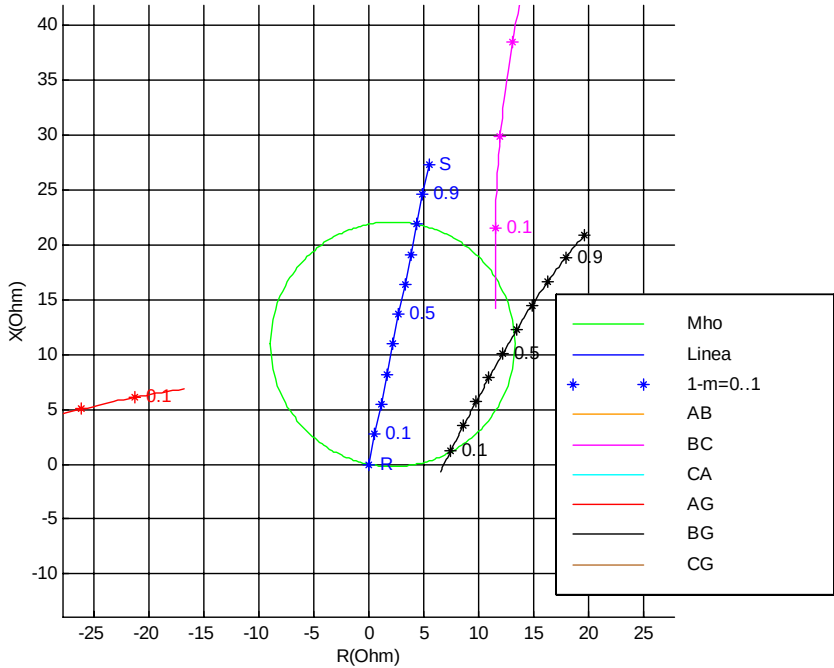
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	--	--	--

Programa: PG128Mc
Caso Standard, Falta Bcg: Salida z02

Esquema:



PG128Mc,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,Bcg,Rf=5 ,Rg=10 ,Proteccion:RAm



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.05	--	--	0.08-0.60	--

Esquema:

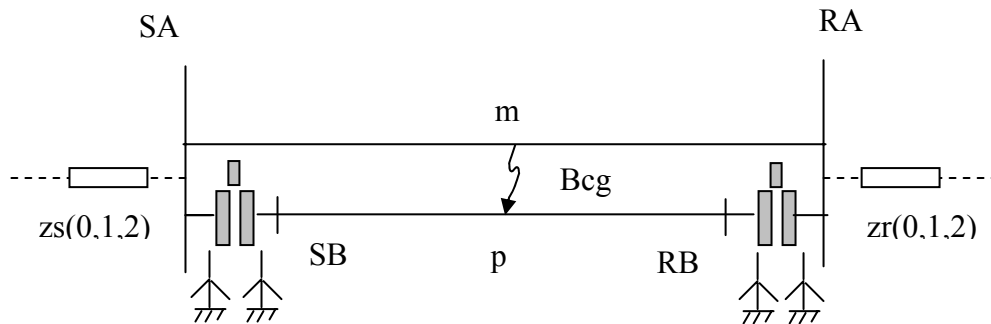
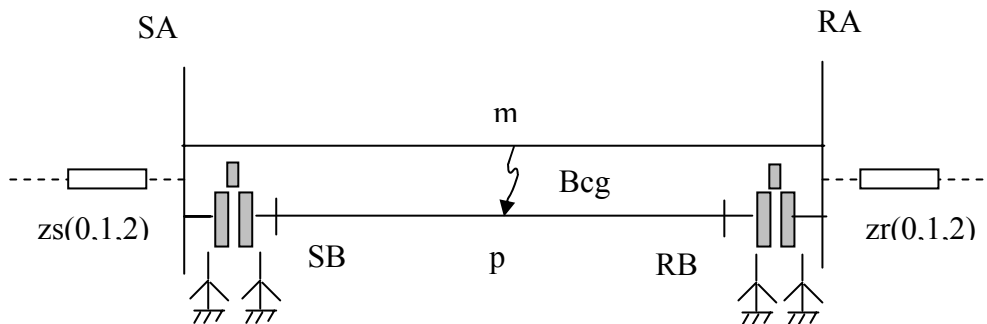


Figure 1 is a plot of $X(\text{Ohm})$ versus $R(\text{Ohm})$. The plot shows several curves (Mho, Linea, AB, BC, CA, AG, BG, CG) and a central circle. The curves are labeled with values 0.1, 0.5, and 0.9. The legend indicates that the curves are for $m=0.1$.

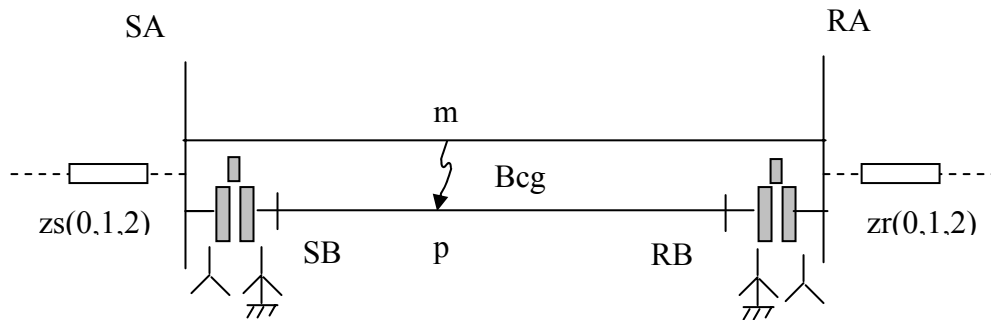
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.38	0.01	--	0.05	0.82

Esquema:



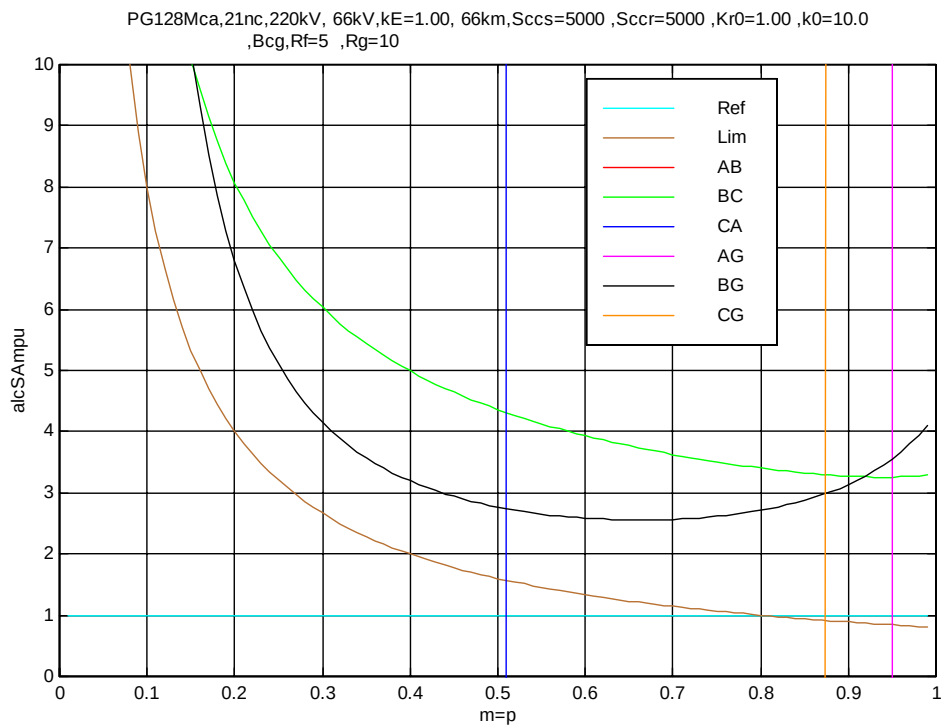
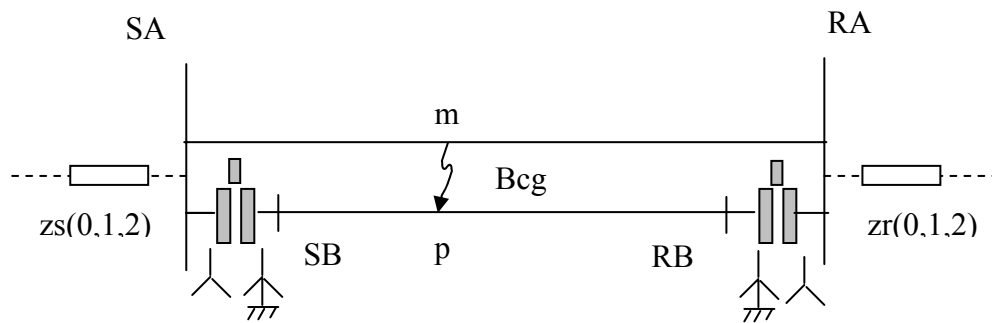
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.40	--	--	--	0.98

Esquema:



PGc Casos Básicos ó Standard			
Programa	PG128Mca		
Entrada Standard	UAn=220 kV, UBn=66 kV, kE=1, LA=LB=66 km, Sccs=5000 MVA, Sccr=5000 MVA, Kr0=1		
	Sp=120 MVA, Ss=120 MVA, St=40 MVA, Up=220 kV, Us=66 kV, Ut=33 kV, tccps=12 %, tccpt=5%, tccst=2 %		
	zsr= ∞		
	Compensación 21= No		
Parámetro	k0 = zs0/zr0 = 10		
Falta Intercircuito m=p	m: Línea SA-RA	m = p	0 . . . 1
		Tipo	Bcg
		Elemento	--
	p: Línea SB-RB	Rf	5 Ohms
		Rg	10 Ohms
Salida 1	21 Salida pu Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSAmpu	e01
		alcanceSBppu	e02
		alcanceRAmpu	e03
		alcanceRBppu	e04
Salida 2	21 Salida pua Todas las Unidades AB,BC,CA,AG,BG,CG	alcanceSAmpua	f01
		alcanceSBppua	f02
		alcanceRAmpua	f03
		alcanceRBppua	f04
Salida 3	67N	SAm	n01
		RAm	n02
		SBp	n03
		RBp	n04
Salida 4	21 R-X	SAm	z01
		RAm	z02
		SBp	z03
		RBp	z04

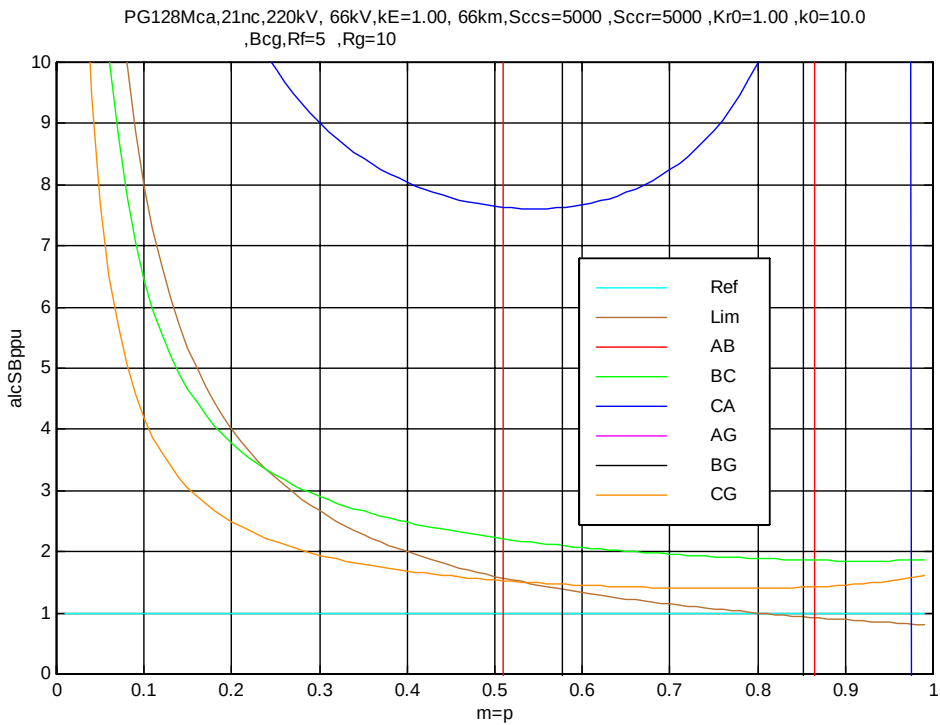
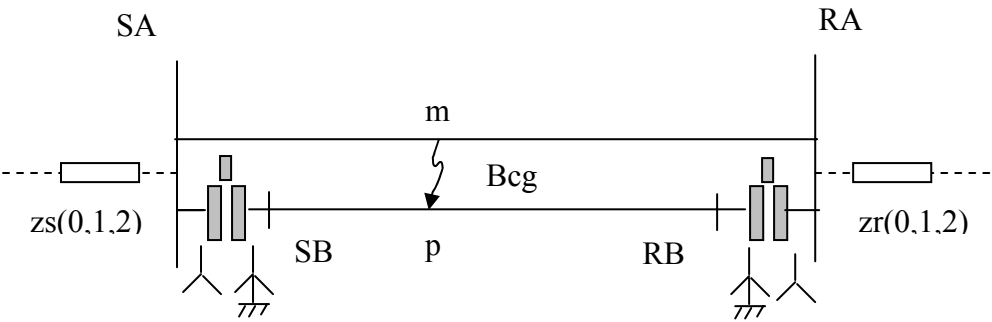
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	--	--	--	--	--

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida e02

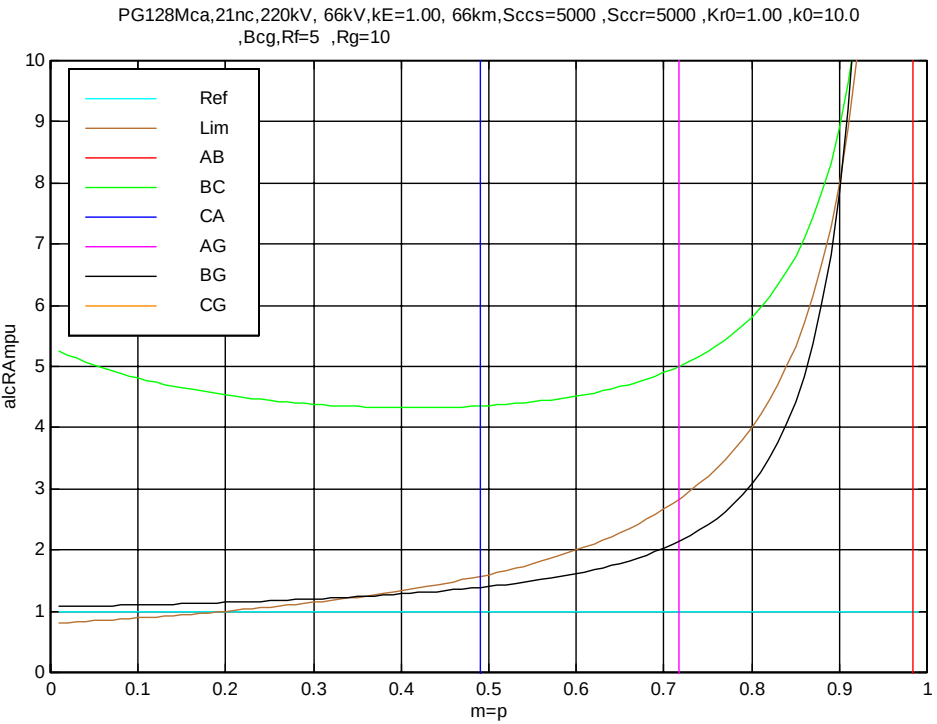
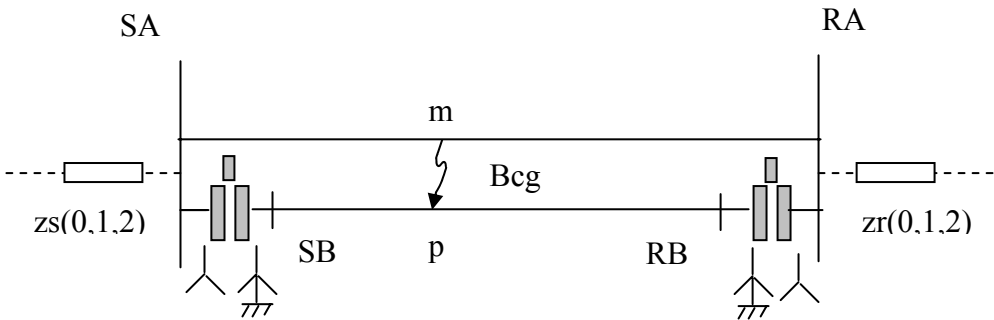
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.25	--	--	--	0.55

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida e03

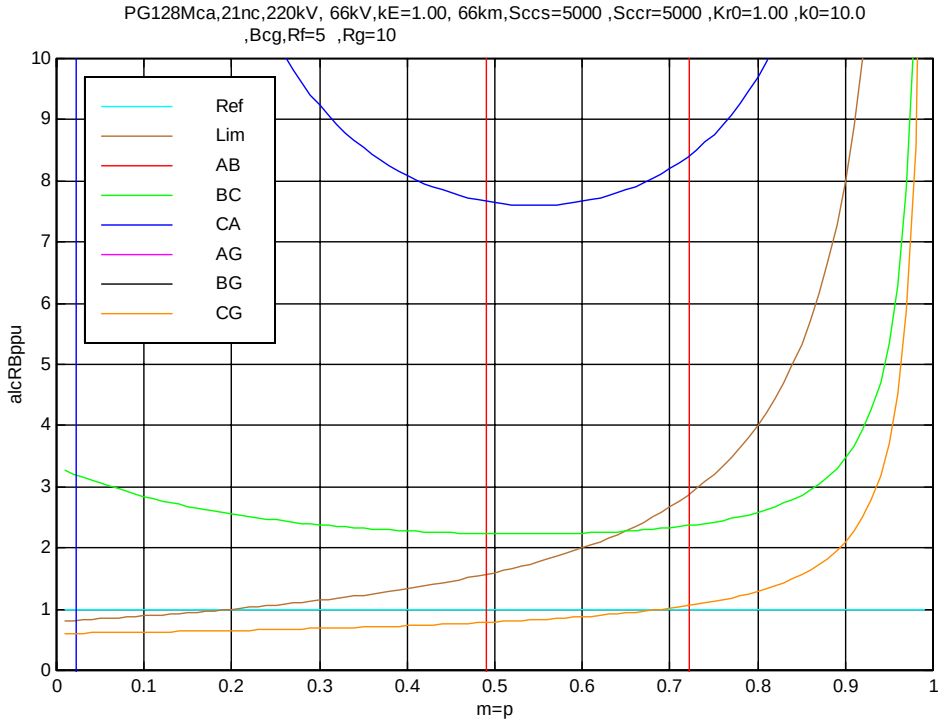
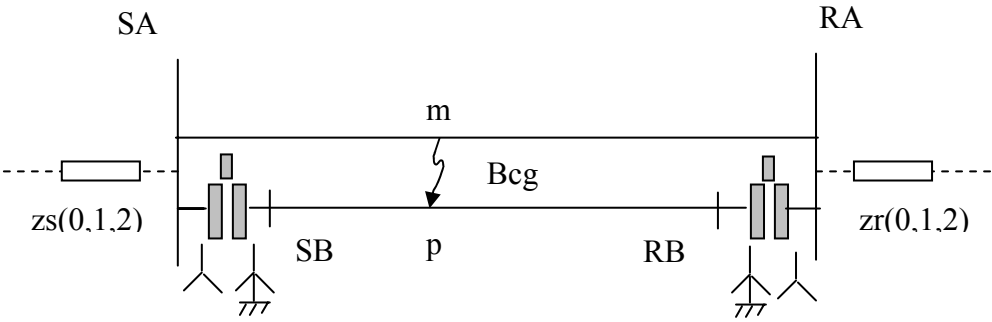
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.06	--	--	0.09-0.66	--

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida e04

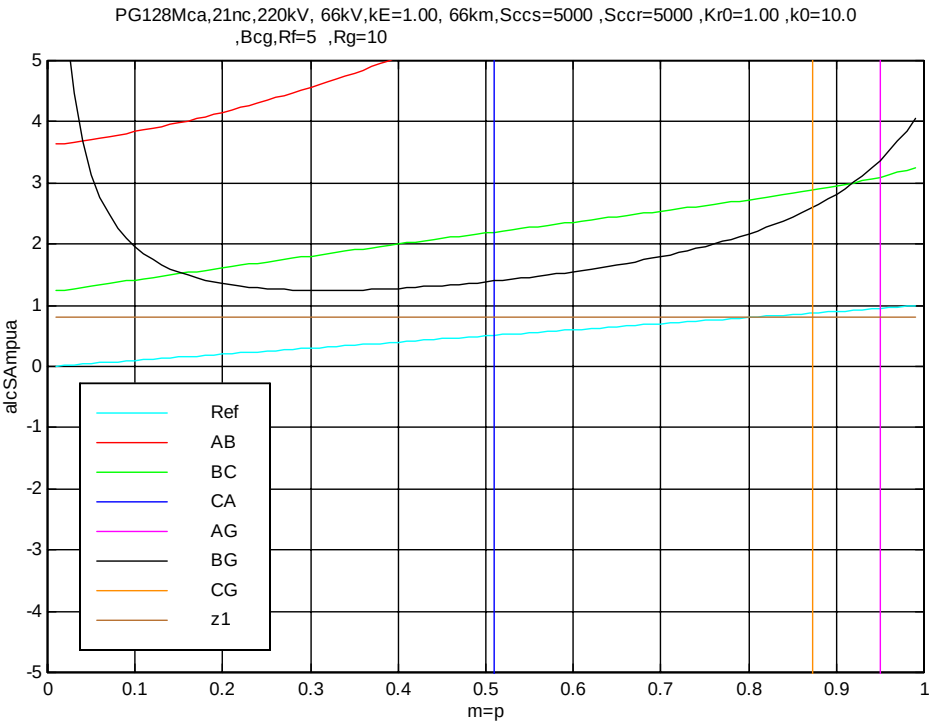
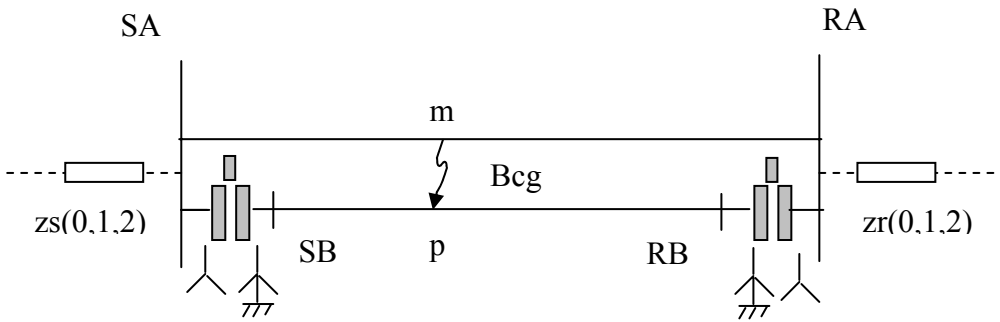
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.36	--	--	--	>1.00

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida f01

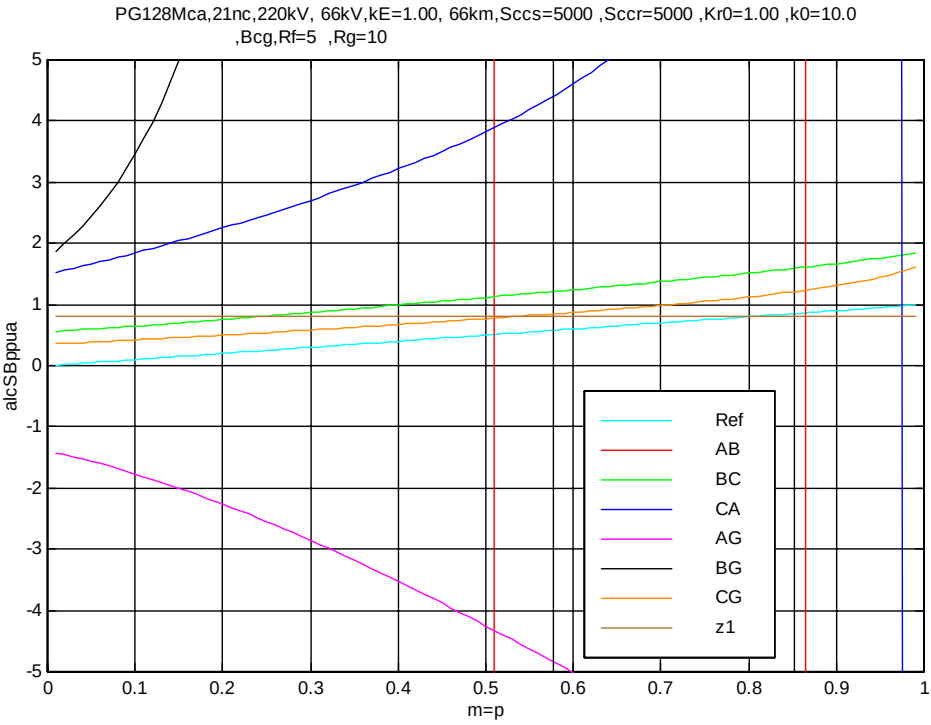
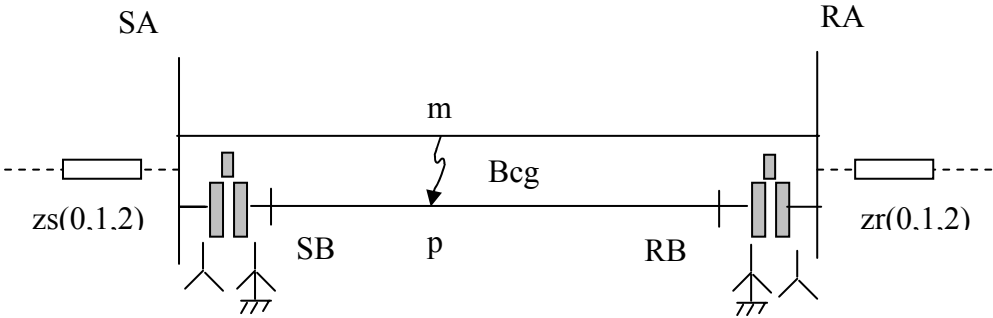
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	--	--	--	--	--

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida f02

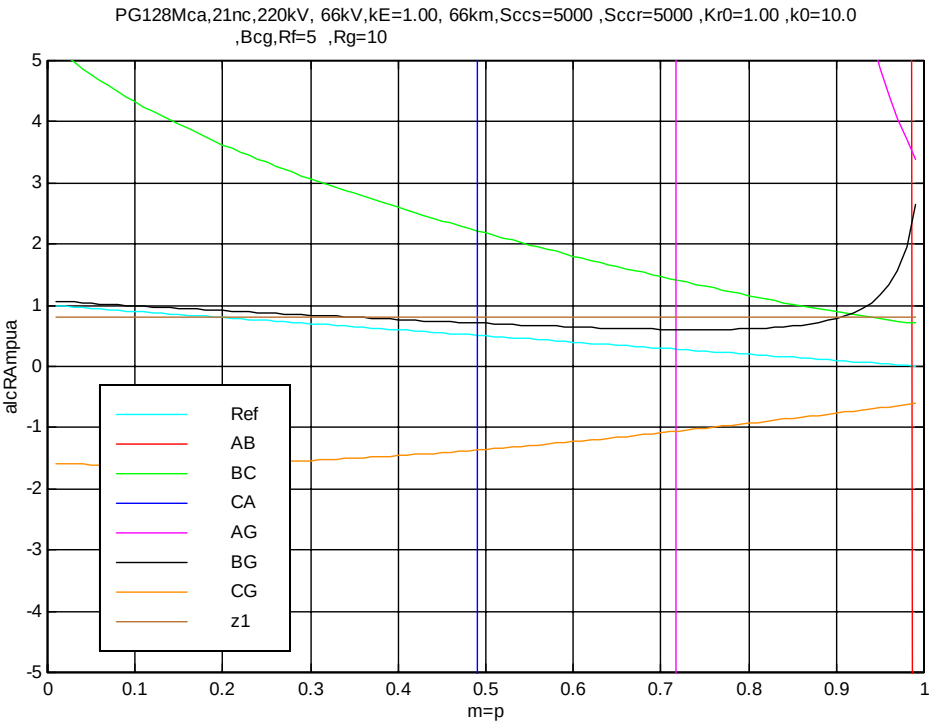
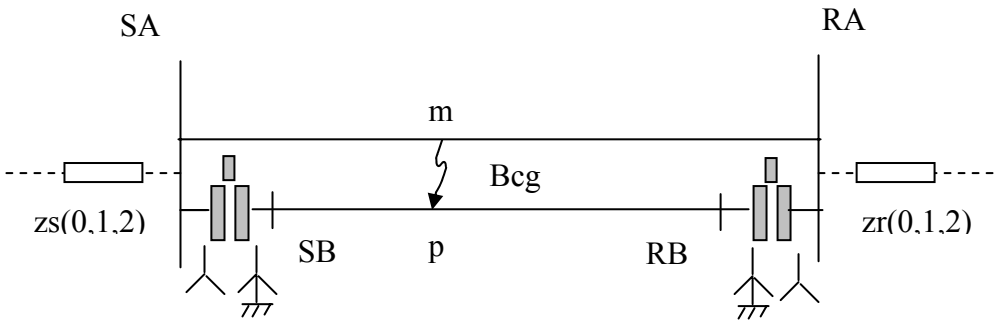
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura m	--	0.25	--	--	--	0.55

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida f03

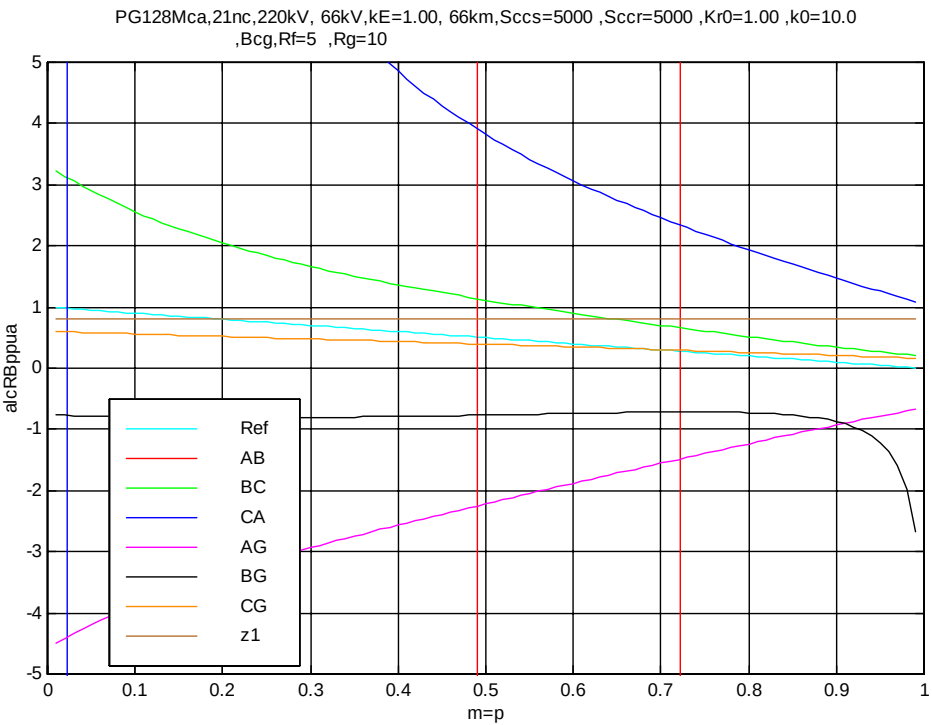
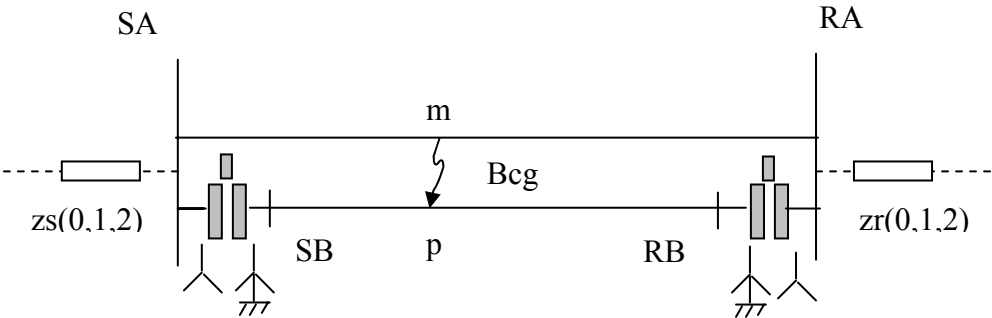
Esquema:



Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.06	--	--	0.09-0.66	--

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida f04

Esquema:

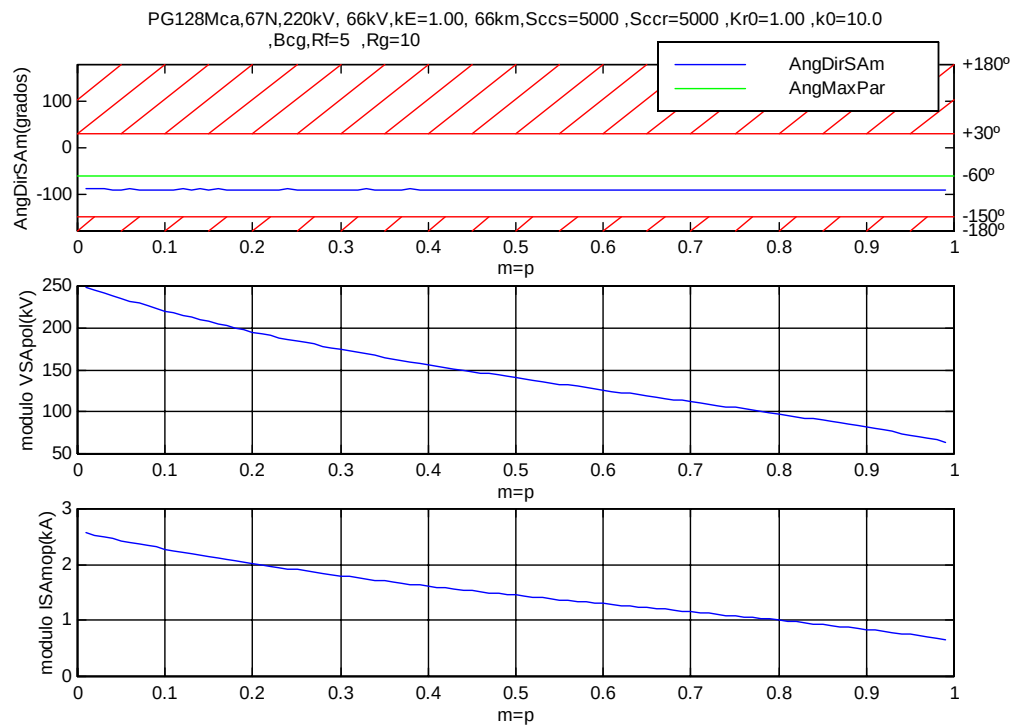
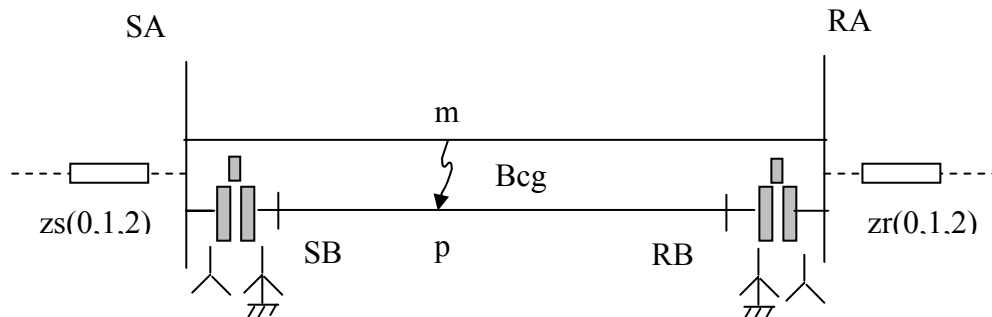


Unidad	AB	BC	CA	AG	BG	CG
Cobertura 1-m	--	0.36	--	--	--	>1.00

Programa: PG128Mca

Caso Standard, Falta Bcg: Salida n01

Esquema:



Direccionalidad: m=0...1

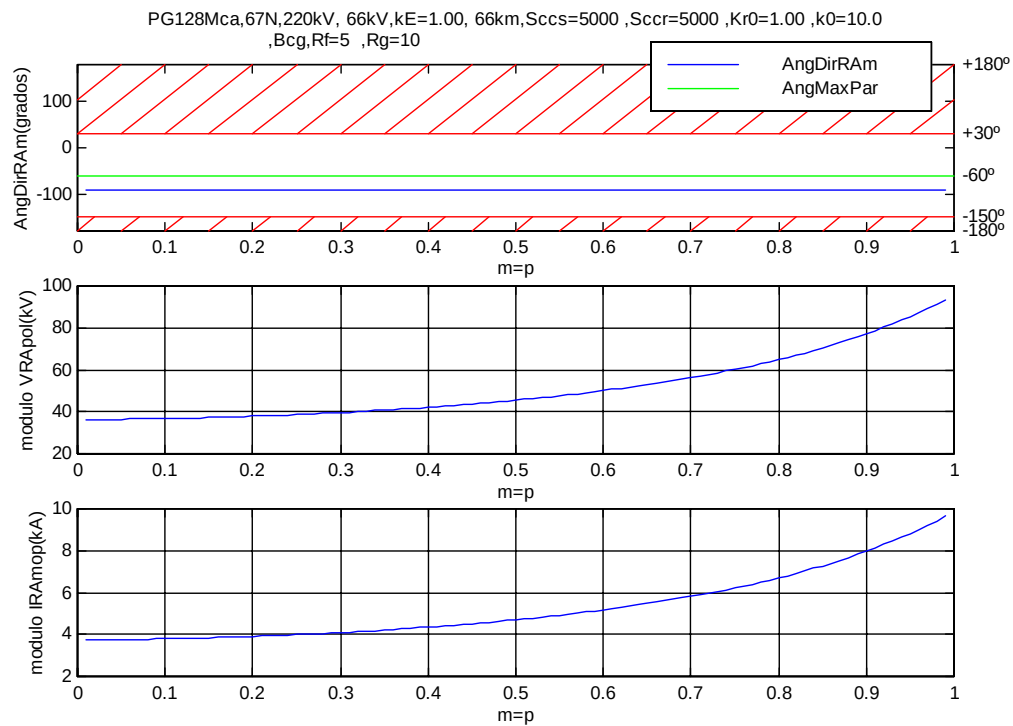
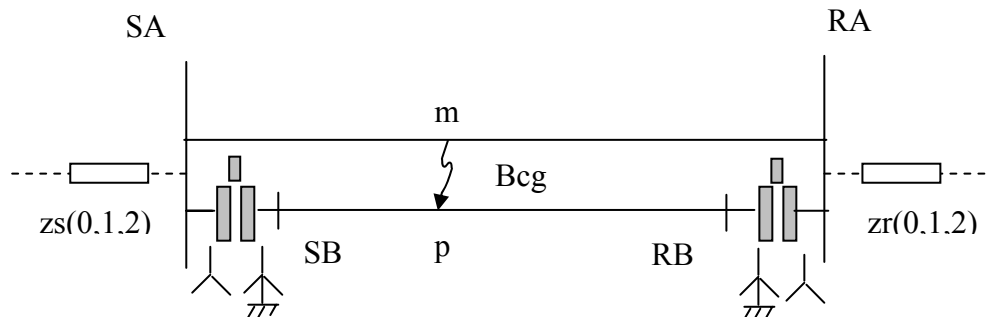
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

Programa: PG128Mca

Caso Standard, Falta Bcg: Salida n02

Esquema:



Direccionalidad: 1-m=0...1

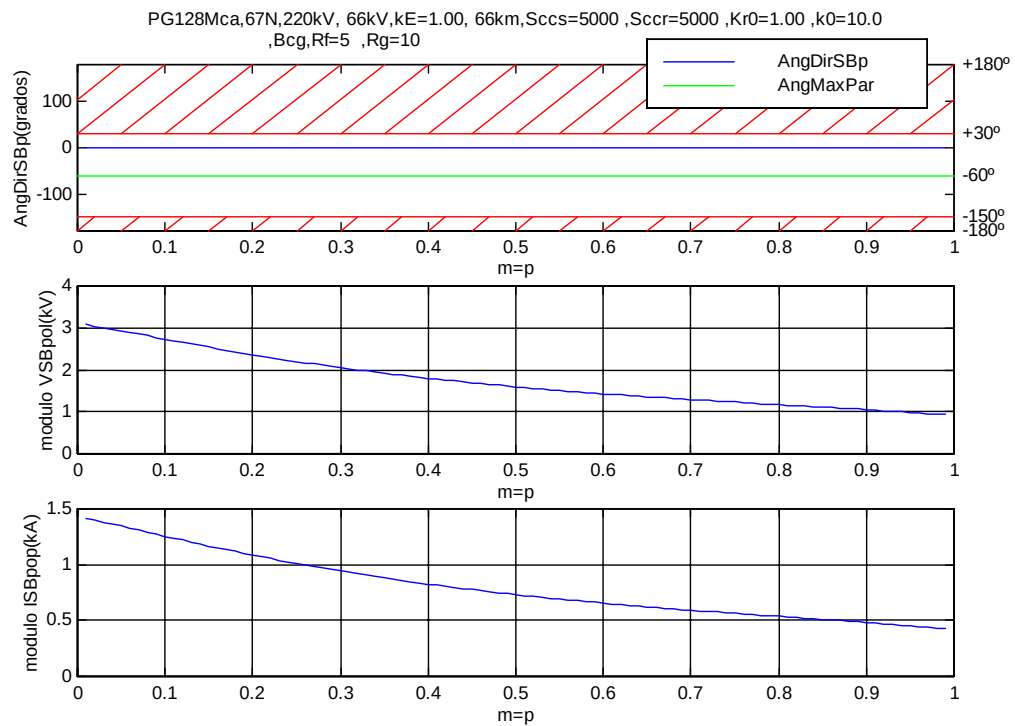
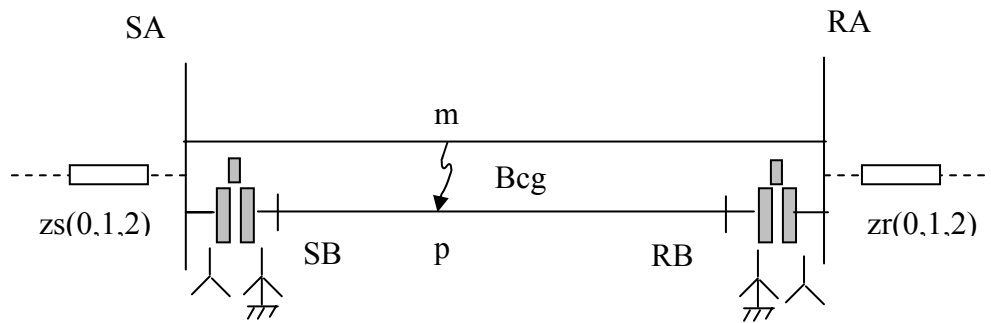
Sensibilidad de Tensión : decreciente (con 1-m)

Sensibilidad de Corriente: decreciente (con 1-m)

Programa: PG128Mca

Caso Standard, Falta Bcg: Salida n03

Esquema:

Direccionalidad: $m=0...1$

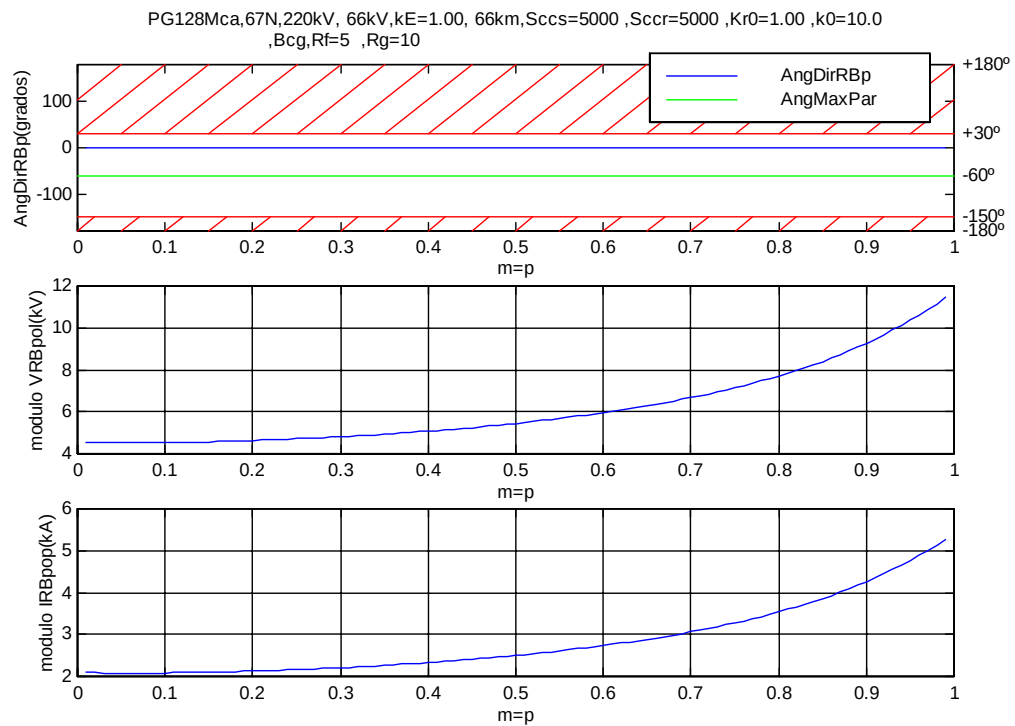
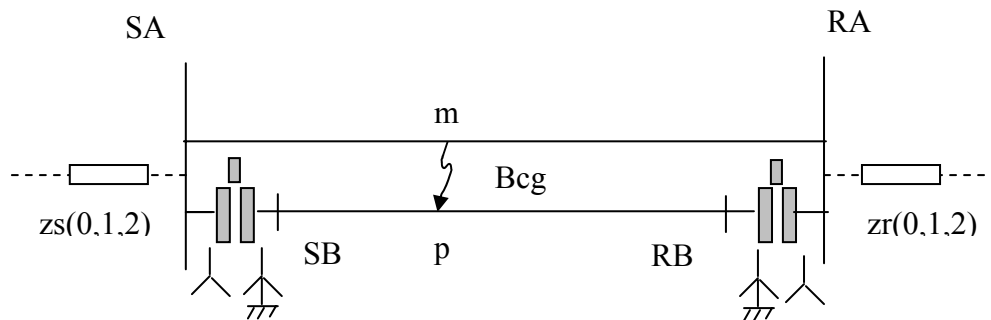
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

Programa: PG128Mca

Caso Standard, Falta Bcg: Salida n04

Esquema:



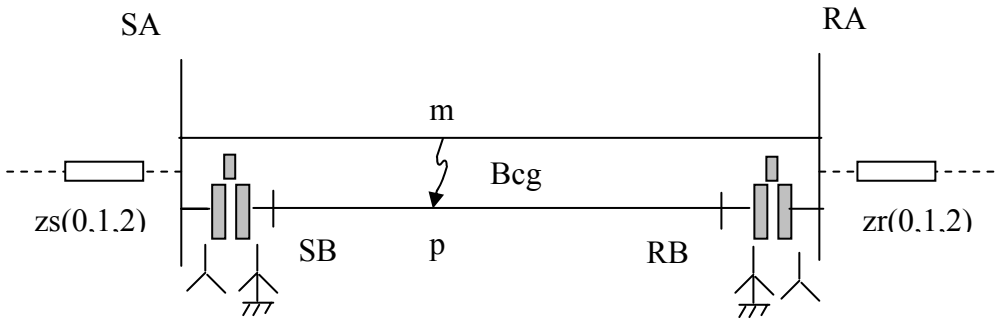
Direccionalidad: 1-m=0...1

Sensibilidad de Tensión : decreciente (con 1-m)

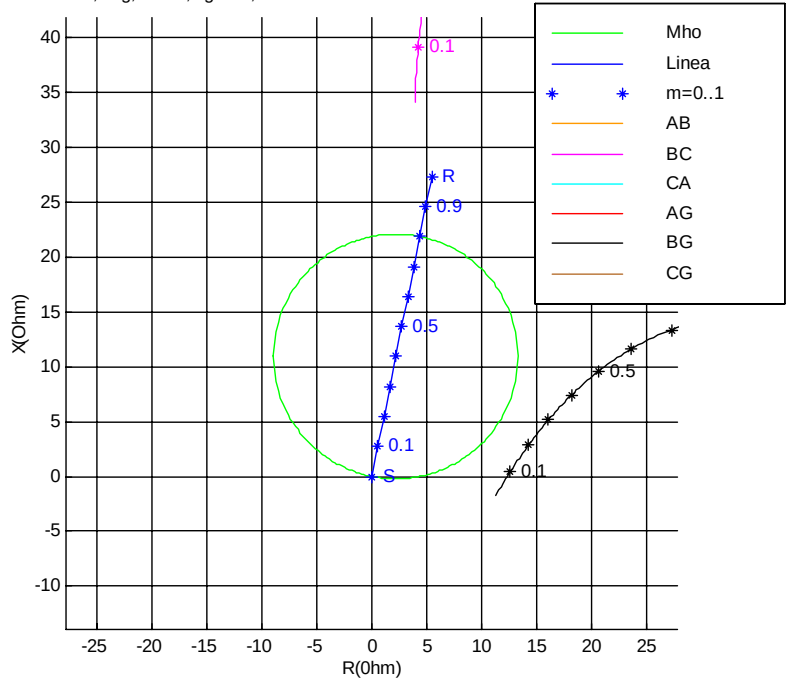
Sensibilidad de Corriente: decreciente (con 1-m)

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida z01

Esquema:

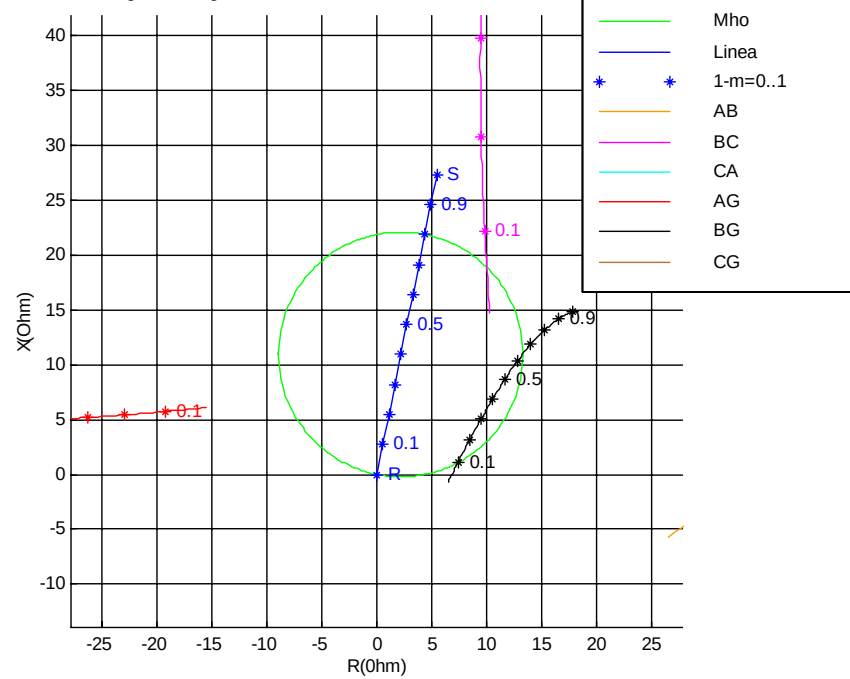
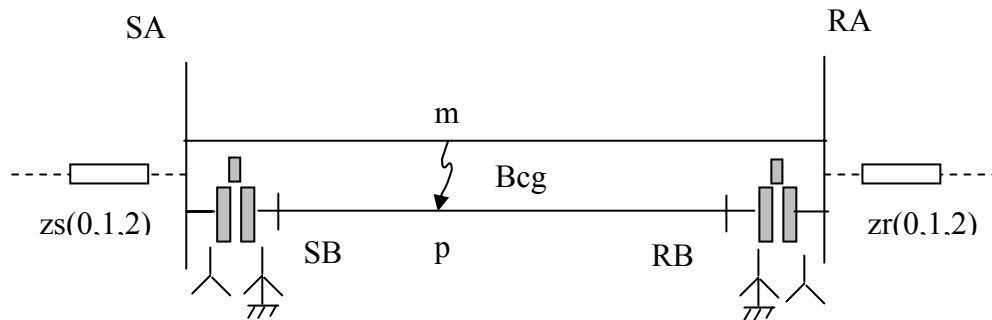


PG128Mca,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,Bcg,Rf=5 ,Rg=10 ,Proteccion:SAm



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	--	--	--

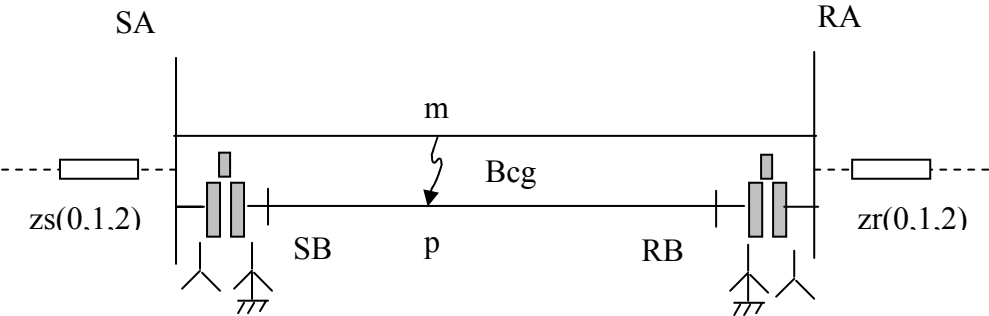
Esquema:



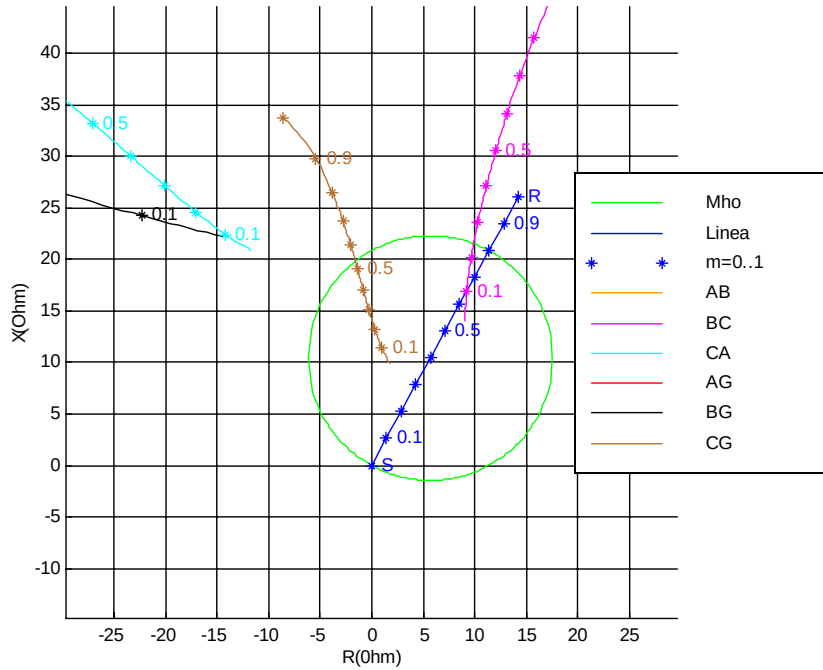
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.06	--	--	0.09-0.66	--

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida z03

Esquema:



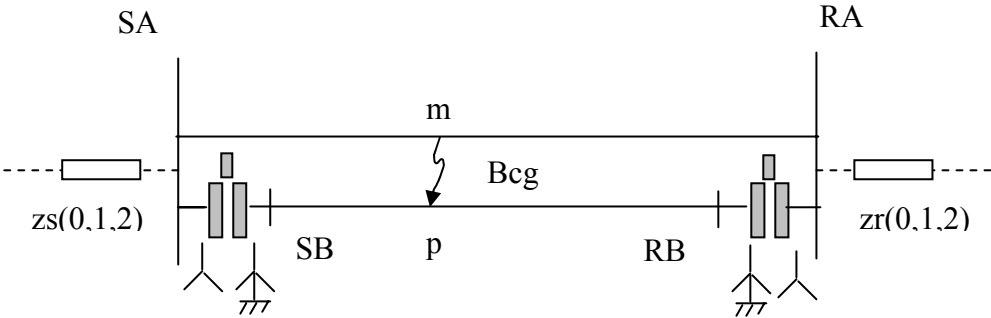
PG128Mca,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,Bcg,Rf=5 ,Rg=10 ,Proteccion:SBp



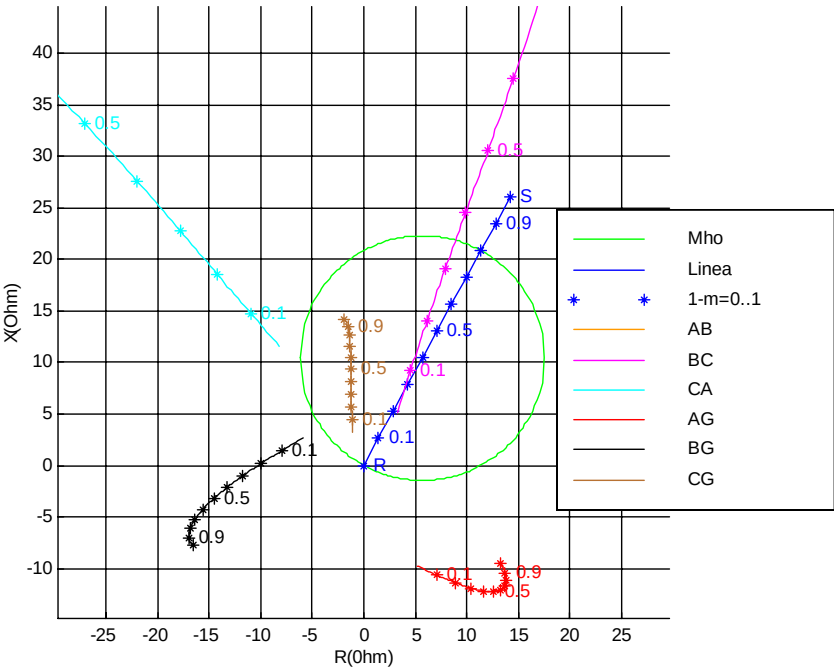
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.25	--	--	--	0.55

Programa: PG128Mca
Caso Standard, Falta Bcg: Salida z04

Esquema:



PG128Mca,21nc,220kV, 66kV,kE=1.00, 66km,Sccs=5000 ,Sccr=5000 ,Kr0=1.00 ,k0=10.0
,Bcg,Rf=5 ,Rg=10 ,Proteccion:RBp



Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	0.36	--	--	--	>1.00