

## GSCH005 – METAL-OXIDE POLYMER-HOUSED SURGE ARRESTERS WITHOUT GAPS FOR A.C. SYSTEMS FOR SUBSTATIONS FROM 12 kV to 245 kV

### LOCAL SECTION – CELG D

In addition on what specified in the common part, the following requirements are prescribed:

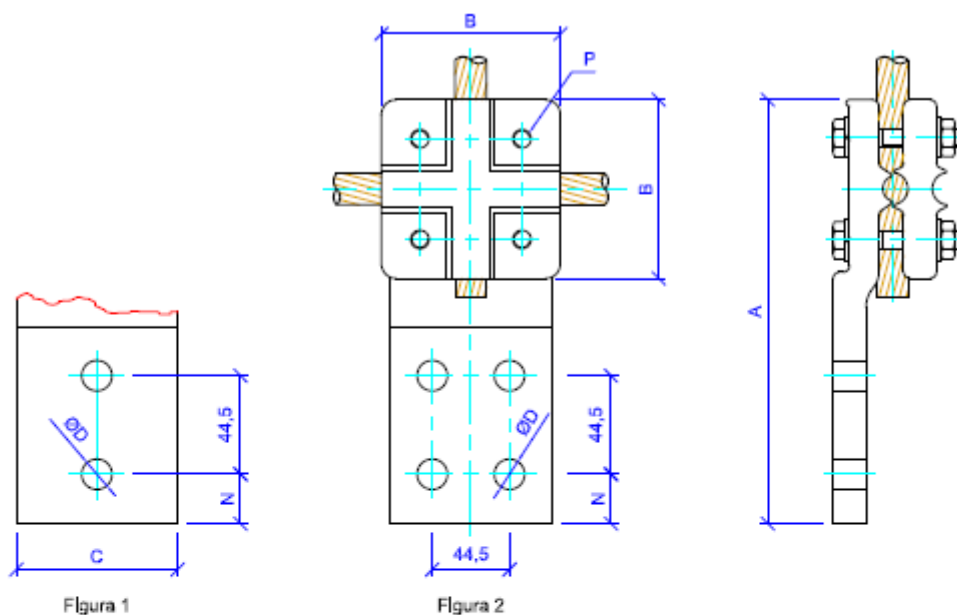
#### 6 – TECHNICAL CHARACTERISTIC

Main Voltage (kV)	Designation	Insulation Level	Rated Frequency (Hz)	Rated Voltage $U_r$ (kV)	Continuous Operating Voltage $U_c$ (kV)	Nominal Discharge Current $I_n$ (kA)	Rated Short-Circuit Current	Residual Voltage for Step Current Impulse (kV)	Residual Voltage for Lightning Current Impulse (kV)	Residual Voltage for Switching Current Impulse (kV)	High Current Impulse (kA)	Rated Static Mechanical Load (daN)
138	SM	145/275/650	60	120	98	10	40	-	310	270	100	100
69	SL	72,5/140/325	60	60	48	10	31,5	-	200	150	100	50
34,5	SL	36/70/170	60	30	24,4	10	20	-	100	78	100	50
13,8	SL	17,5/38/95	60	12	10,2	10	20	-	40	32,8	100	50

**ANNEX C – COMPONENT LIST**

Type Code	Company	Company Code	TAM Company Code	Highest System Voltage (kV)	Designation	Rated Frequency (Hz)	Rated Voltage Ur (kV)	Continuous Operating Voltage Uc (kV)	Nominal Discharge Current In (kA)	Pollution Level (mm)	Housed
	CELG	542		36,2	SL	60	30	24,4	10	34,7 mm/kV	Polymer
	CELG	543		72,5	SL	60	60	48	10	34,7 mm/kV	Polymer
	CELG	6990		72,5	SL	60	60	48	10	34,7 mm/kV	Polymer
	CELG	41290		15	SL	60	12	10,2	10	34,7 mm/kV	Polymer
	CELG	41478		145	SM	60	120	98	10	34,7 mm/kV	Polymer

**ANNEX A | DIMENSIONAL DRAWINGS**



Item	Faixas para os condutores aplicáveis		Dimensões (mm)					Figura	Quantidade de parafusos (P)
	CA/CU (AWG/MCM)	Cabo CAA (AWG/MCM)	A ± 10	B ± 3	C ± 3	N ± 2	Ø D		
1	4 - 500,0	6 - 397,5	147	60	42	16	14,2	1	4 x M12
2	2 - 1.000,0	4 - 954,0	160	73	76			2	

**Figure 1 – Terminal**