



The **GS** and **CS** series are specifically designed for fixed power factor correction in applications such as compensation for no-load transformers, fixed power factor correction of constant consumption. When electrical systems are affected by harmonics, CS series with blocking reactors is strongly recommended.

PERFORMANCE DATA

■ Rated voltage	415 Vac (others on request)
■ Max. voltage on capacitors (without harmonics)	450 Vac for GS-B15 series; 550 Vac for GS-B50 series; 550 Vac for CS series
■ Rated frequency	50 Hz (60 Hz on request)
■ Insulation voltage	690 Vac
■ Overvoltage	1,1 Un (rated voltage)
■ Capacitance tolerance	-5% / +10%
■ Discharge resistor	75V residual within 3 minutes (included)

QUALITY AND TESTING

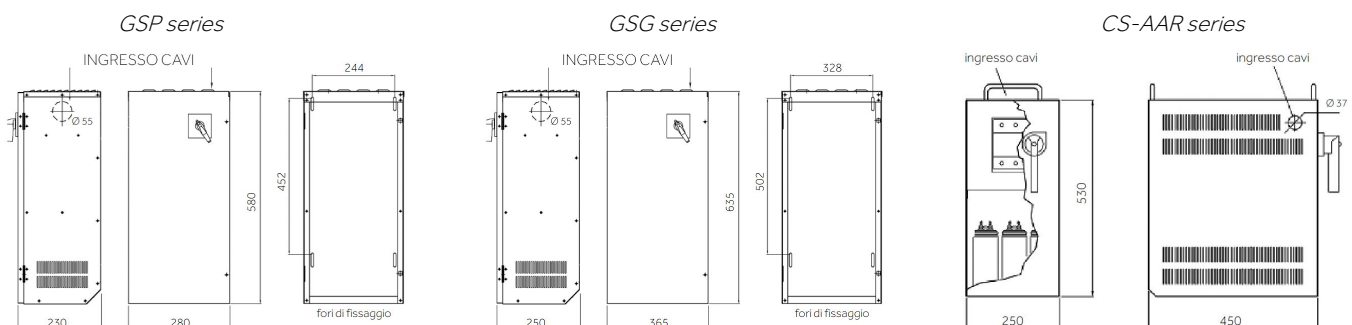
Regulations	IEC/EN 60831-1 / 2, IEC/EN 61921
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TECHNICAL DATA

Supply	Three-phase + earth.
Degree of protection	IP 30.
Installation	Vertical. GS series : cabinet for wall mounting. CS series: cabinet for floor mounting. Indoor installation, in a well ventilated position away from heat sources.
Ventilation	GS series : natural. CS series: forced.
Dielectric losses	$\leq 0,2 \text{ W / kvar.}$
Fuses	T version only. Each capacitors bank is protected by fuses. The protection system of both the power circuits (NH-00 curve gG fuses) and the auxiliary ones (isolable fuse holders and 10.3x38 fuses) foresees the use of high breaking power fuses (100kA).
Capacitors	Single-phase capacitors in self-healing metallized polypropylene (MKP), equipped with an anti-burst device and discharge resistance. They are impregnated in vegetable oil, PCB free. Delta connection. Type of continuous service. • overvoltage: $1.1 \times A$ (8h / 24h) • current overload: $1.3 \times I_n$ • capacity tolerance: -5% / +10% • losses due to dissipation: $\leq 0.4 \text{ W / kvar}$ • temperature category: -25 / D

CONSTRUCTION CHARACTERISTICS

GSP-GSG-CS-GS4	fixed bank, without any protection device.
GSPT-GSGT-CST-GS4T	fixed bank, equipped with protection device (isolating switch + fuses).



CONFIGURATION

General notes

- The cable entry is always side up;
- For the dimensions of the GS4 series, please take a look at the mechanical drawings of the cabinets, referring to the Type G4E.

Table

Code	Type	50Hz			60Hz			Capacitance μF	Weight kg.	THDI Max. (%)	THDlc Max. (%)	Protection device
		Qn	Un	In	Qn	Un	In					
		kvar	V	A	kvar	V	A					
8951412125325	GSP-B15	12,5	415	17	12,5	380	19	3 x 77	13	15	50	-
8951412250325	GSP-B15	25	415	35	25	380	38	3 x 154	16	15	50	-
8951412375325	GSP-B15	37,5	415	52	37,5	380	57	3 x 231	19	15	50	-
8951412500325	GSG-B15	50	415	70	50	380	76	3 x 308	21	15	50	-
8951412625325	GSG-B15	62,5	415	87	62,5	380	95	3 x 385	26	15	50	-
8951412750325	GS4-B15	75	415	104	75	380	114	3 x 462	38	15	50	-
8951413100325	GS4-B15	100	415	139	100	380	152	3 x 616	43	15	50	-
8971412125355	GSP-B50	12,5	415	17	12,5	380	19	3 x 77	15	35	80	-
8971412250355	GSP-B50	25	415	35	25	380	38	3 x 154	18	35	80	-
8971412375355	GSP-B50	37,5	415	52	37,5	380	57	3 x 231	21	35	80	-
8971412500355	GSG-B50	50	415	70	50	380	76	3 x 308	23	35	80	-
8971412625355	GSG-B50	62,5	415	87	62,5	380	95	3 x 385	28	35	80	-
8971412750355	GS4-B50	75	415	104	75	380	114	3 x 462	40	35	80	-
8971413100355	GS4-B50	100	415	139	100	380	152	3 x 616	41	35	80	-
8951413012325	GSP-B15 T	12,5	415	17	12,5	380	19	3 x 77	16	15	50	Sez+Fus 25A
8951413025325	GSP-B15 T	25	415	35	25	380	38	3 x 154	19	15	50	Sez+Fus 50A
8951413037325	GSP-B15 T	37,5	415	52	37,5	380	57	3 x 231	22	15	50	Sez+Fus 80A
8951413050325	GSG-B15 T	50	415	70	50	380	76	3 x 308	24	15	50	Sez+Fus 100A
8951413062325	GSG-B15 T	62,5	415	87	62,5	380	95	3 x 385	29	15	50	Sez+Fus 125A
8951413075325	GS4-B15 T	75	415	104	75	380	114	3 x 462	41	15	50	Sez+Fus 160A
8951414010325	GS4-B15 T	100	415	139	100	380	152	3 x 616	42	15	50	Sez+Fus 2x100A
8971413012355	GSP-B50 T	12,5	415	17	12,5	380	19	3 x 77	18	35	80	Sez+Fus 25A
8971413025355	GSP-B50 T	25	415	35	25	380	38	3 x 154	23	35	80	Sez+Fus 50A
8971413037355	GSP-B50 T	37,5	415	52	37,5	380	57	3 x 231	25	35	80	Sez+Fus 80A
8971413050355	GSG-B50 T	50	415	70	50	380	76	3 x 308	28	35	80	Sez+Fus 100A
8971413062355	GSG-B50 T	62,5	415	87	62,5	380	95	3 x 385	35	35	80	Sez+Fus 125A
8971413075355	GS4-B50 T	75	415	104	75	380	114	3 x 462	47	35	80	Sez+Fus 160A
8971414010355	GS4-B50 T	100	415	139	100	380	152	3 x 616	48	35	80	Sez+Fus 2x100A

CS series with blocking reactors:

-the dissipation losses of the inductances are 6 W / kvar (AVG);

-the max. harmonic distortion of voltage allowed in the networks is: THDU = 3% (189 Hz). Others available on request.

Code	Type	50Hz			60Hz			Capacitance μF	Weight kg.	THDI Max. (%)	THDU Max. (%)	Protection device
		Qn	Un	In	Qn	Un	In					
		kvar	V	A	kvar	V	A					
8981402250700	CS-AAR/100	25	400	36	27	380	41	3 x 154	41	100	3%	-
8981402500700	CS-AAR/100	50	400	72	54	380	76	3 x 308	59	100	3%	-
8981403025705	CS-AAR/100T	25	400	36	27	380	41	3 x 154	44	100	3%	Sez+Fus 50A
8981403050705	CS-AAR/100T	50	400	72	54	380	76	3 x 308	62	100	3%	Sez+Fus 100A

Version with contactor available on request.