



The **GS** and **CS** series devices are specially designed for fixed power factor correction in applications such as off-load correction of transformers, fixed power factor correction of constant loads. For systems with a high presence of harmonics, the CS series with tuning reactor is available.

PERFORMANCE DATA

■ Rated voltage	415 Vac GS series 400 Vac CS series
■ Max. voltage on capacitors (without harmonic distortion)	450 Vac GS-B15 series; 550 Vac GS-B50 series; 550 Vac CS series
■ Rated frequency	50 Hz (60 Hz on request)
■ Insulation voltage	690 Vac
■ Tolerance on capacitance	-5% / +10%

QUALITY

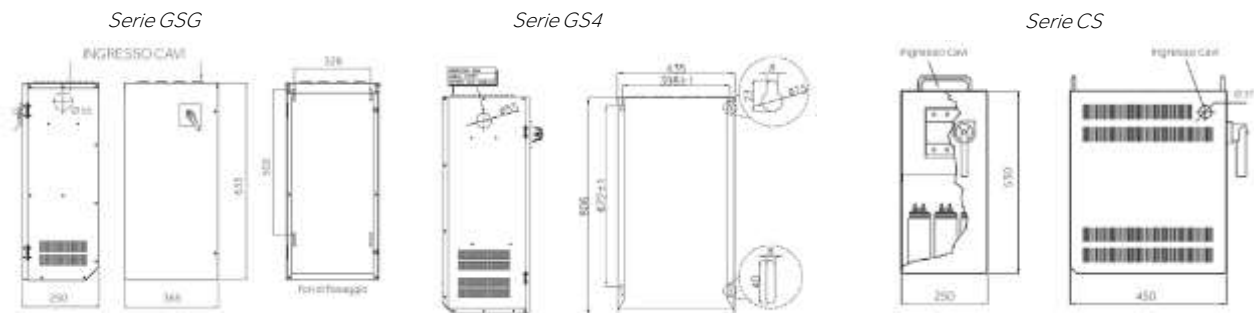
Regulations	IEC/EN 60831-1 / 2, IEC/EN 61921
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TECHNICAL DATA

Power supply	Three-phase + earth.
Degree of protection	IP 30.
Installation	Vertical. GS Series: wall-mounted. CS Series: floor-standing. Indoor installation, in a position that favours ventilation and free from sunlight.
Ventilation	GS series: natural. CS series: forced .
Fuses	T and M versions only. The capacitive batteries are protected by triplets of high breaking capacity fuses (100kA). The protection of the power circuits uses NH-00 curve gG fuses; for the auxiliary circuits sectionable fuse holders and 10.3x38 fuses.
Disconnecter Contactors	T and M versions only. Three-pole vacuum with door lock. Only in M versions. Each battery is driven by a three-pole contactor (Class AC6-b). The limitation of current peaks caused by the insertion of capacitive batteries is ensured by means of precharge resistors.
Capacitors	Single-phase capacitors made of self-healing metallised polypropylene (MKP), equipped with anti-explosion device and discharge resistance. Impregnated in PCB-free vegetable oil. Delta connection. Type of continuous service. - overvoltage: 1.1 x Un (8h / 24h) - current overload: 1.3 x In - dissipation losses: ≤0.4 W/kvar - temperature category: -25 / D

VERSIONS

GSG; CS; GS4	single battery without protection device.
GSG-T; CS-T; GS4-T	single battery with disconnector and protection device (fuses).
GSG-M; CS-M; GS4-M	single battery with disconnector , protection device (fuses) and contactor for battery insertion (requires external 230V power supply by installer)



STANDARD CONFIGURATIONS

Note

- The cable entry is always side and top;

Code	Type	Qn	A	In	capacitance	Dimensions (l x w x h) mm	Weight	THDI Max.	THDIc Max.	Protection
		kvar	V	A	µF		Kg	(%)	(%)	
8951412125325	GSG-B15	12,5	415	17	3 x 77	368x256x635	13	15	50	-
8951412250325	GSG-B15	25	415	35	3 x 154	368x256x635	16	15	50	-
8951412375325	GSG-B15	37,5	415	52	3 x 231	368x256x635	19	15	50	-
8951412500325	GSG-B15	50	415	70	3 x 308	368x256x635	21	15	50	-
8951412625325	GSG-B15	62,5	415	87	3 x 385	368x256x635	26	15	50	-
8951412750325	GS4-B15	75	415	104	3 x 462	435x326x806	38	15	50	-
8951413100325	GS4-B15	100	415	139	3 x 616	435x326x806	43	15	50	-
8971412125355	GSG-B50	12,5	415	17	3 x 77	368x256x635	15	35	80	-
8971412250355	GSG-B50	25	415	35	3 x 154	368x256x635	18	35	80	-
8971412375355	GSG-B50	37,5	415	52	3 x 231	368x256x635	21	35	80	-
8971412500355	GSG-B50	50	415	70	3 x 308	368x256x635	23	35	80	-
8971412625355	GSG-B50	62,5	415	87	3 x 385	368x256x635	28	35	80	-
8971412750355	GS4-B50	75	415	104	3 x 462	435x326x806	40	35	80	-
8971413100355	GS4-B50	100	415	139	3 x 616	435x326x806	41	35	80	-
8951413012325	GSG-B15-T	12,5	415	17	3 x 77	368x256x635	16	15	50	25A fuses
8951413025325	GSG-B15-T	25	415	35	3 x 154	368x256x635	19	15	50	50A fuses
8951413037325	GSG-B15-T	37,5	415	52	3 x 231	368x256x635	22	15	50	80A fuses
8951413050325	GSG-B15-T	50	415	70	3 x 308	368x256x635	24	15	50	100A fuses
8951413062325	GSG-B15-T	62,5	415	87	3 x 385	368x256x635	29	15	50	125A fuses
8951413075325	GS4-B15-T	75	415	104	3 x 462	435x326x806	41	15	50	160A fuses
8951414010325	GS4-B15-T	100	415	139	3 x 616	435x326x806	42	15	50	Fuses 2x100A
8971413012355	GSG-B50-T	12,5	415	17	3 x 77	368x256x635	18	35	80	25A fuses
8971413025355	GSG-B50-T	25	415	35	3 x 154	368x256x635	23	35	80	50A fuses
8971413037355	GSG-B50-T	37,5	415	52	3 x 231	368x256x635	25	35	80	80A fuses
8971413050355	GSG-B50-T	50	415	70	3 x 308	368x256x635	28	35	80	100A fuses
8971413062355	GSG-B50-T	62,5	415	87	3 x 385	368x256x635	35	35	80	125A fuses
8971413075355	GS4-B50-T	75	415	104	3 x 462	435x326x806	47	35	80	160A fuses
8971414010355	GS4-B50-T	100	415	139	3 x 616	435x326x806	48	35	80	Fuses 2x100A
8971412125505	GSG-B50-M	12,5	415	17	3 x 77	368x256x635	18	35	80	25A fuses
8971412250505	GSG-B50-M	25	415	35	3 x 154	368x256x635	23	35	80	50A fuses
8971412375505	GSG-B50-M	37,5	415	52	3 x 231	368x256x635	25	35	80	80A fuses
8971412500505	GSG-B50-M	50	415	70	3 x 308	368x256x635	28	35	80	100A fuses
8971412625505	GSG-B50-M	62,5	415	87	3 x 385	368x256x635	35	35	80	125A fuses
8971412750505	GS4-B50-M	75	415	104	3 x 462	435x326x806	47	35	80	160A fuses

CS series with tuning reactor:

- total dissipation losses 6 W / kvar (AVG);
- maximum permissible voltage harmonic distortion is THDU = 3% (189 Hz).

Code	Type	Qn	A	In	capacitance	Dimensions (l x w x h) mm	Weight	THDI Max.	THDIc Max.	Protection
		kvar	V	A	µF		kg	(%)	(%)	
8981402125705	CS-AAR/100	12,5	400	18	3 x 77	250x450x530	32	100	3%	-
8981402250700	CS-AAR/100	25	400	36	3 x 154	250x450x530	41	100	3%	-
8981402500700	CS-AAR/100	50	400	72	3 x 308	250x450x530	59	100	3%	-
8981403012705	CS-AAR/100-T	12,5	400	18	3 x 77	250x450x530	35	100	3%	25A fuses
8981403025705	CS-AAR/100-T	25	400	36	3 x 154	250x450x530	44	100	3%	50A fuses
8981403050705	CS-AAR/100-T	50	400	72	3 x 308	250x450x530	62	100	3%	100A fuses
8981402125675	CS-AAR/100-M	12,5	400	18	3 x 77	250x450x530	36	100	3%	25A fuses
8981402250675	CS-AAR/100-M	25	400	36	3 x 154	250x450x530	45	100	3%	50A fuses
8981402500675	CS-AAR/100-M	50	400	72	3 x 308	250x450x530	63	100	3%	100A fuses