



DATA SHEET

AUTOMATIC CAPACITOR BANKS STANDARD



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AUTOMATIC CAPACITOR BANK STANDARD

THDI ≤ 25%

400V-50HZ

General characteristics

harmonic pollution rate THDI	≤25%
harmonic pollution rate THDV	≤3%
Network pollution level	Not very polluted
Network voltage	400/415V
Battery temperature	-5 à 40°C
Maximum current overload	1.3xIn
Maximum voltage overload	1.1xUn
Degrees of protection	IP55 (Cabinet height is equal to 1800 mm) IP33 (Cabinet height is less than 1800mm)
Capacitor voltage rating	Three-phase capacitors with Un=400V



QUALITY AND TEST

Standard(bank)	CEI 60439-1 ; CEI 60439-2 ; CEI 61921 ; IEC 439-1
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Cabinet characteristic

Type of mounting
Color
Steel sheet

Interior
RAL 7035 (grey)

- Frame: 1.5mm
- Panel: 1.5mm
- Door: 2mm
- Plinth: 2mm

Other characteristics

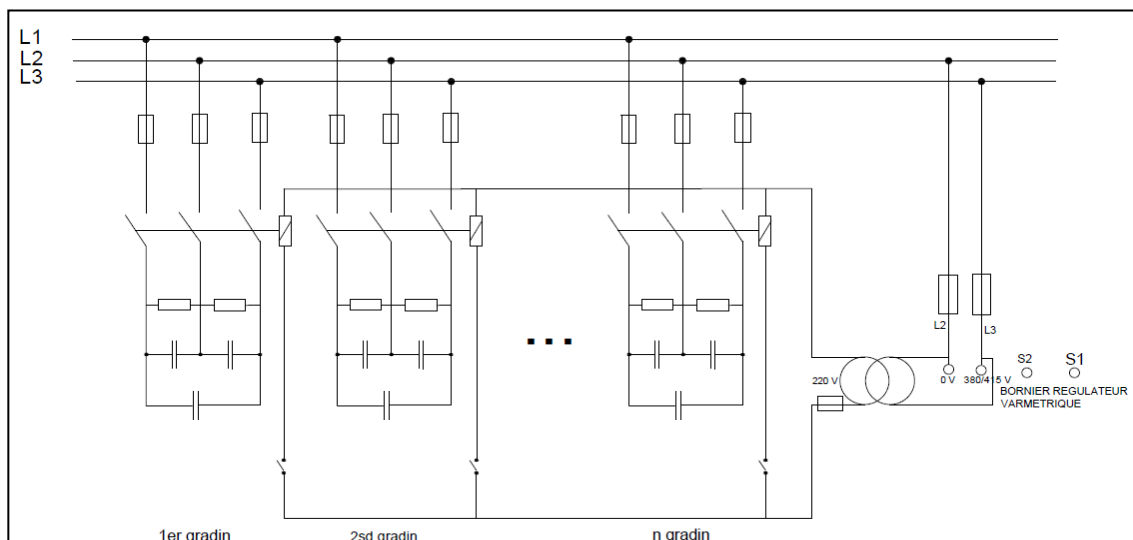
(Cabinet height is less than 1800mm)

- Welded frame construction
- Closing with three screws
- Foamed in the door

(Cabinet height is equal to 1800mm)

- Welded frame construction
- Foamed in the door / rear panel PU waterproof seal
- Polyamide handle lock (3 point locking, key 333)
- Multiple assembly possible
- Removable side panels
- Plinth and cover options

Wiring diagram



Internal components

Installation	Vertical. Interior installation, in a position favorable to ventilation
Ventilation	Forced ventilation, they are designed to allow the equipment proper ventilation of internal components
Regulator	The automatic correction regulator always maintains the programmed $\cos \phi$ value.
Fuses	The capacitors are protected by high-speed fuses. (Other protection is on request).
Contactors	Each step is connected / disconnected by a contactor (class AC6-b) able to offer a high reliability.

Fuses

Type of fuses	fuses NH00 series gG for each module
Breaking capacity	High capacity 120kA
Operating temperature	-15 à 50°C
Standards	IEC 60269

(Made in Europe)

Control circuit transformer(s)

Primary voltage	400V
Secondary voltage	230V
Standards	EN 60076, EN 61558

(Made in Europe)

Capacitors

Capacitor Technology	Auto healing dry type resin capacitor equipped with an anti-burst pressure system and discharge resistor, protected by an inert N2 gas.
Capacitor voltage rating	Three-phase capacitors with Un=400V
Tolerance on the capacitor value	-5 / +10 %
Maximum current overload	1.8 x In
Transient current	250 In
Maximum voltage overload	1.1 x Un - 8 hours per day
Altitude	<4000m
Test voltage (Terminal-terminal)	2.15*Un, AC 2s
Test voltage (Terminal-case)	3.9 KV, AC 2s
Dielectric loss	<0.2 W / kVAR
Min/Max temperature	-40 à 60°C
Maximum humidity	95 % non-condensing
Protection class	IP20
Standards (capacitors)	CEI 60831-1 ; CEI 60831-2 ; UL-810

(Made in Europe)

Contactors

Type	Contactors for capacitive load (AC6b)
Voltage	400-440V
Auxiliary	230V
Maximum operating rate	<ul style="list-style-type: none"> 12.5 kVAR /25 kVAR/33.3 kVAR : 240 hours of operation 40 kVAR /60 kVAR : 100 hours of operation
Lifetime	<ul style="list-style-type: none"> 12.5 kVAR /25 kVAR : 200000 operation 33.3 kVAR /40 kVAR /60 kVAR : 100000 operation
Power (Depends on the power of the steps)	12.5kVAR / 25 kVAR / 33.3 kVAR /40 kVAR /60 kVAR
Standards	IEC 60947-1,2

(Made in Europe)

DISCONNECTORS-SWITCHES (OPTIONAL)

CURRENT (A)	Power	Rated insulation voltage (Ui)	Rated impulse withstand voltage	Presumed short circuit current	Standards
63	30	800	8KV	50KA-eff	CEI 60947-3
80	37	800	8KV	50KA-eff	CEI 60947-3
100	45	800	8KV	25KA-eff	CEI 60947-3
125	55	800	8KV	100KA-eff	CEI 60947-3
160	75	800	8KV	100KA-eff	CEI 60947-3
200	90	800	8KV	100KA-eff	CEI 60947-3
250	115	800	8KV	80KA-eff	CEI 60947-3
315	145	1000	12KV	50KA-eff	CEI 60947-3
400	185	1000	12KV	100KA-eff	CEI 60947-3
500	255	1000	12KV	100KA-eff	CEI 60947-3
630	290	1000	12KV	70KA-eff	CEI 60947-3
800	365	1000	12KV	50KA-eff	CEI 60947-3
1000	460	1000	12KV	100KA-eff	CEI 60947-3
1250	579	1000	12KV	100KA-eff	CEI 60947-3
1800	610	1000	12KV	100KA-eff	CEI 60947-3
2000	745	1000	12KV	100KA-eff	CEI 60947-3
2500	1083	1000	12KV	100KA-eff	CEI 60947-3
3200	1556	1000	12KV	100KA-eff	CEI 60947-3

(Made in Europe)

RegulatorS	RG-T (STANDARD)	RGI-S (On request)	RG-BS (On request)
Type		Var-métrique	
Dimensions	144*144 mm PR16	144*144 mm	96*96mm PR19
Protection class	IP 40 Front pannel	IP 54 Front pannel	IP 40 Front pannel
Precision	1%±1 digits (V, I, COS) ; 2%±1 digits (W, Var, VA, harmonique)		
Overvoltage setting	475 VAC		0-500 VAC
Current range		50mA-5.5A (other current range on request)	
Measuring range with transformer	50mA-10KA Primary of transformer 5...10000/5A	50mA-10KA Transformer ratio 1-2000	50mA-10KA Transformer ratio 1-2000
Input load	< 2VA courant, < 3VA Voltage		
Cos _φ setting	0.85<cosφ<1 inductive	0.8<cosφ<1 inductive/capacitive	0.8<cosφ<1 inductive/capacitive
Setting of C/K		0.02-1.00	
Delay between steps	2-1800 s a switch for on / off separately		
Interface/Protocole Communication		RS-585 Modbus RTU	RS-585 Modbus RTU
THD- V-Alarm programmable		•	•
Discharge time programmable		•	•
Overvoltage alarm programmable	•	•	•
Automatic calculation of steps		•	•
Energy measurement		•	•
Display of parameters for each phase		•	•
Alarm contact output		•	•
POWER SUPPLY		•	•
Operating voltage	400VAC ±10%	150-525 VAC ±10%	400VAC ±10%
Operating frequency		50HZ/60HZ	
Power consumption	<10 VA	<25VA	<10 VA
Number of steps	6 / 8 / 12	6/9/12	6/8//12
Operating temperature	-5...+55°C	-20...+70°C	-5...+55°C
Ambient humidity	85%	95%	85%
Mounting	Front panel mounting /Socket with screw terminal		
Types of connection	Phase2/phase3, 1 current transformator on phase1	All type of connexion	All type of connexion

TECHNICAL DETAILS

Code Product	Power (kVAr) (400V)	Current (A)	(Power of steps)	Cable entry	Switches (A) (Option)	Dimensions		
	Fréquence 50Hz					Height	Width	Depth
B10	10	14	2x2.5 kVAr +5 kVAr	Haut	63	750	500	400
B15	15	22	2x2.5 kVAr +2x5 kVAr	Haut	63	750	500	400
B20	20	29	2x5 kVAr +1x10 kVAr	Haut	63	750	500	400
B25	25	36	1x5 kVAr +1x7.5KVAr+1x12.5 kVAr	Haut	63	750	500	400
B30	30	43	1x7.5 kVAr +1x10 kVAr +1x12.5 kVAr	Haut	63	750	500	400
B35	35	51	2x10 kVAr +1x15 kVAr	Haut	80	750	500	400
B40	40	58	2x10 kVAr +1x20 kVAr	Haut	125	750	500	400
B45	45	65	1x10 kVAr +1x15 kVAr +1x20 kVAr	Haut	125	750	500	400
B50	50	72	2x12.5 kVAr +1x25 kVAr	Haut	125	750	500	400
B55	55	79	1x10 kVAr +1x20 kVAr +1x25 kVAr	Haut	125	750	500	400
B60	60	87	1x15 kVAr +1x20 kVAr +1x25 kVAr	Haut	160	750	500	400
B65	65	94	2x12.5 kVAr +2x20 kVAr	Haut	160	750	500	400
B70	70	101	2x10 kVAr +2x25 kVAr	Haut	160	750	500	400
B75	75	108	2x12.5 kVAr +2x25 kVAr	Haut	160	750	500	400
B80	80	115	2x10 kVAr +3x20 kVAr	Haut	160	750	500	400
B85	85	122	2x10 kVAr +1x15 kVAr +2x25 kVAr	Haut	160	1050	500	400
B90	90	130	2x10 kVAr +1x20 kVAr +2x25 kVAr	Haut	250	1050	500	400
B95	95	137	2x10 kVAr +3x25 kVAr	Haut	250	1050	500	400
B100	100	144	2x12.5 kVAr +3x25 kVAr	Haut	250	1050	500	400
B110	110	158	2x10 kVAr +1x15 kVAr +3x25 kVAr	Haut	250	1050	500	400
B120	120	172	2x10 kVAr +4x25 kVAr	Haut	250	1050	500	400
B130	130	187	1x10 kVAr +1x20 kVAr +4x25 kVAr	Haut	315	1050	500	400
B140	140	202	2x10 kVAr +1x20 kVAr +4x25 kVAr	Haut	315	1050	500	400
B150	150	217	2x12.5 kVAr +3x25 kVAr +1x50 kVAr	Haut	400	1050	500	400
B160	160	231	2x10 kVAr +1x15 kVAr +1x25 kVAr +2x50 kVAr	Haut	400	1450	500	400
B170	170	245	2x10 kVAr +2x25 kVAr +2x50 kVAr	Haut	400	1450	500	400
B180	180	260	1x10 kVAr +1x20 kVAr +2x25 kVAr +2x50 kVAr	Haut	400	1450	500	400
B190	190	274	2x20 kVAr +2x25 kVAr +2x50 kVAr	Haut	400	1450	500	400
B200	200	289	2x12.5 kVAr +5x25 kVAr +1x50 kVAr	Haut	500	1450	500	400
B210	210	303	1x10 kVAr +6x25 kVAr +1x50 kVAr	Haut	500	1450	500	400
B220	220	318	2x10 kVAr +4x25 kVAr +2x50 kVAr	Haut	500	1450	500	400
B225	230	325	2x12.5 kVAr +4x25 kVAr +2x50 kVAr	Haut	500	1450	500	400
B230	230	332	2x15 kVAr +4x25 kVAr +2x50 kVAr	Haut	500	1450	500	400
B240	240	347	1x20 kVAr +4x25 kVAr +2x30 kVAr +1x60 kVAr	Haut	500	1450	500	400

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Code Product	Power (kVAr) (400V)	Current (A)	(Power of steps)	Cable entry	Switches (A) (Option)	Dimensions		
	Fréquence 50Hz					Height	Width	Depth
B250	250	361	1x20 kVAr +2x25 kVAr +4x30 kVAr +1x60 kVAr	Haut	500	1450	500	400
B260	260	375	1x20 kVAr +2x30 kVAr +3x60 kVAr	Bas	630	1800	600	600
B270	270	390	3x30 kVAr +3x60 kVAr	Bas	630	1800	600	600
B275	275	397	1x15 kVAr + 1x20 kVAr + 2x30 kVAr + 3x60 kVAr	Bas	630	1800	600	600
B280	280	404	2x20 kVAr +2x30 kVAr +3x60 kVAr	Bas	630	1800	600	600
B290	290	419	1x20 kVAr +3x30 kVAr +3x60 kVAr	Bas	630	1800	600	600
B300	300	433	2x25 kVAr +3x50 kVAr +1x100 kVAr	Bas	800	1800	600	600
B310	310	447	1x10 kVAr +2x30 kVAr +4x60 kVAr	Bas	800	1800	600	600
B320	320	461	2x10 kVAr +2x30 kVAr +4x60 kVAr	Bas	800	1800	600	600
B330	330	475	2x15 kVAr +2x30 kVAr +4x60 kVAr	Bas	800	1800	600	600
B340	340	489	2x20 kVAr +3x60 kVAr +1x120 kVAr	Bas	800	1800	600	600
B350	350	503	2x10 kVAr +1x30 kVAr +5x60 kVAr	Bas	800	1800	600	600
B360	360	517	2x30 kVAr +3x60 kVAr +1x120 kVAr	Bas	800	1800	800	600
B370	370	533	1x10 kVAr +4x60 kVAr +1x120 kVAr	Bas	1000	1800	800	600
B380	380	548	2x10 kVAr +4x60 kVAr +1x120 kVAr	Bas	1000	1800	800	600
B390	390	563	1x10 kVAr + 1x20 kVAr +6x60 kVAr	Bas	1000	1800	800	600
B400	400	577	2X20 kVAr + 6x60 kVAr	Bas	1000	1800	800	600
B410	410	591	1X10 kVAr + 2X20 kVAr +6x60 kVAr	Bas	1000	1800	800	600
B420	420	606	3X20 kVAr + 4X60 kVAr +1x120 kVAr	Bas	1000	1800	1000	600
B430	430	620	2x20 kVAr +1x30 kVAr +4x60 kVAr + 1x120 kVAr	Bas	1000	1800	1000	600
B440	440	635	1x20 kVAr +2x30 kVAr + 4x60 kVAr + 1x120 kVAr	Bas	1000	1800	1000	600
B450	450	650	1x30 kVAr + 7x60 kVAr	Bas	1000	1800	1000	600
B500	500	722	2x20 kVAr + 1x40 kVAr + 3x60 kVAr +2x120 kVAr	Bas	1250	1800	1000	600
B550	550	793	1x20 kVAr + 2x25 kVAr + 8x60 kVAr	Bas	1250	1800	1000	600
B600	600	866	3x20 kVAr + 9x60 kVAr		1800	1800	1200	600
B650	650	938	1x20 kVAr + 3x30 kVAr +9x60 kVAr	Bas	2000	1800	1200	600
B700	700	1009	2x20 kVAr + 9x60 kVAr + 1x120 kVAr	Bas	2000	1800	1200	600
B750	750	1081	3x20 kVAr +2x60 kVAr +1x90kVAr+4x120kVAr	Bas	2000	1800	1200	600
B800	800	1153	1x20 kVAr +2x30 + 6x60 kVAr + 3x120 kVAr	Bas	2500	1800	1600	600
B850	850	1225	1x20 kVAr +2x25 kVAr + 5x60 kVAr + 4x120 kVAr	Bas	2500	1800	1600	600
B900	900	1297	2x30 kVAr + 6x60 kVAr + 4x120 kVAr	Bas	2500	1800	1600	600
B950	950	1369	1x20 kVAr +1x30 kVAr +5x60 kVAr +5x120 kVAr	Bas	2500	1800	1600	600
B1000	1000	1441	1x40 kVAr + 6x60 kVAr + 5x120 kVAr	Bas	2500	1800	2000	600

NB: Other power and voltage on request

Society CAPCONDO S.A.R.L,



Management System
ISO 9001:2015
Valid until:
2024-04-29



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