



DATA SHEET

AUTOMATIC CAPACITOR BANKS REINFORCED

Whout anti-harmonic reactors



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AUTOMATIC CAPACITOR BANK REINFORCED

25%<THDI≤35%

400V-50HZ

General characteristics

harmonic pollution rate THDI	25%<THDI≤35%
harmonic pollution rate THDV	THDU≤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=525V



QUALITY AND TEST

Standard(bank)	CEI 60831-1 ; CEI 60831-2 ; CEI 61921 ; UL-810 ;
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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

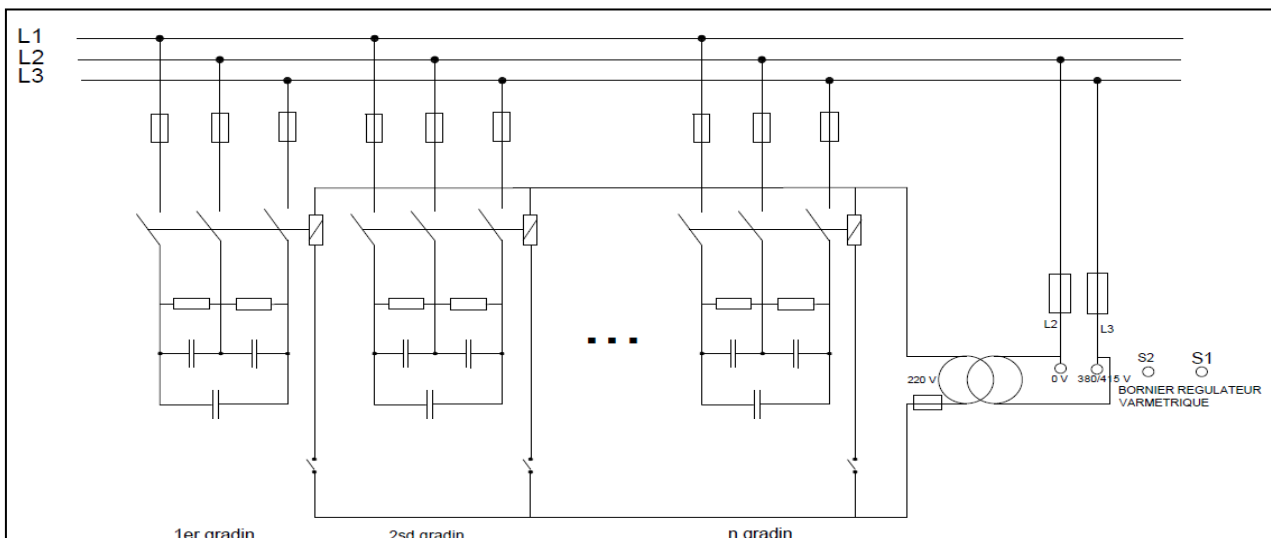
Other characteristics
(Cabinet height is less than 1800mm)

- 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=525V
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	Contactor 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	230	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)

Regulator	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<cos ϕ <1 inductive	0.8<cos ϕ <1 inductive/capacitive	0.8<cos ϕ <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

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TECHNICAL DETAILS

Code Product	Power (kVAr) (400V)	Current (A)	(Power of steps)	Cable entry	Switches (A) (Option)	Dimensions		
	Frequency==50HZ					Height	Width	Depth
BR-30	30	43	3x4.35 kVAr+2x8.7 kVAr	Bas	63	1800	750	600
BR-40	39	58	1x4.35 kVAr+2x8.7 kVAr +1x17.4 kVAr	Bas	125	1800	750	600
BR-50	52	72	4x8.7 kVAr +1x17.4 kVAr	Bas	125	1800	750	600
BR-60	61	87	5x8.7 kVAr +1x17.4 kVAr	Bas	160	1800	1050	600
BR-70	70	101	4x8.7 kVAr +2x17.4 kVAr	Bas	160	1800	1050	600
BR-80	78	115	3x8.7 kVAr +3x17.4 kVAr	Bas	250	1800	1050	600
BR-90	87	130	2x8.7 kVAr +2x17.4 kVAr+1x34.8 kVAr	Bas	250	1800	1050	600
BR-100	104	144	2x8.7 kVAr +3x17.4 kVAr+1x34.8 kVAr	Bas	250	1800	1050	600
BR-110	113	158	1x8.7 kVAr +4x17.4 kVAr+1x34.8 kVAr	Bas	250	1800	1050	600
BR-120	122	172	5x17.4 kVAr+1x34.8 kVAr	Bas	250	1800	1050	600
BR-130	130	187	1x8.7 kVAr +3x17.4 kVAr+2x34.8 kVAr	Bas	315	1800	1050	600
BR-140	139	202	4x17.4 kVAr+2x34.8 kVAr	Bas	315	1800	1050	600
BR-150	148	217	1x8.7 kVAr +2x17.4 kVAr+3x34.8 kVAr	Bas	400	1800	1450	600
BR-160	165	231	1x8.7 kVAr +5x17.4 kVAr+2x34.8 kVAr	Bas	400	1800	1450	600
BR-170	174	245	6x17.4 kVAr+2x34.8 kVAr	Bas	400	1800	1450	600
BR-180	182	260	1x8.7 kVAr +4x17.4 kVAr+3x34.8 kVAr	Bas	400	1800	1450	600
BR-190	191	274	5x17.4 kVAr+3x34.8 kVAr	Bas	500	1800	1450	600
BR-200	200	289	1x8.7 kVAr +3x17.4 kVAr+4x34.8 kVAr	Bas	500	1800	1450	600
BR-210	209	303	4x17.4 kVAr+4x34.8 kVAr	Bas	500	1800	1450	600
BR-220	218	318	1x8.7 kVAr +2x17.4 kVAr+5x34.8 kVAr	Bas	500	1800	1450	600
BR-230	226	332	3x17.4 kVAr+5x34.8 kVAr	Bas	500	1800	1450	600
BR-240	244	346	2x17.4 kVAr+6x34.8 kVAr	Bas	630	1800	600	600
BR-250	252	361	1x8.7 kVAr +4x17.4 kVAr+5x34.8 kVAr	Bas	630	1800	600	600
BR-260	261	375	3x17.4 kVAr+4x34.8 kVAr+1x69.6 kVAr	Bas	630	1800	800	600
BR-270	270	390	1x8.7 kVAr +1x17.4 kVAr+5x34.8 kVAr+1x69.6 kVAr	Bas	630	1800	800	600
BR-280	278	404	2x17.4 kVAr+5x34.8 kVAr+1x69.6 kVAr	Bas	630	1800	800	600
BR-290	287	419	1x8.7 kVAr +2x17.4 kVAr+3x34.8 kVAr+2x69.6 kVAr	Bas	630	1800	800	600
BR-300	305	433	1x8.7 kVAr +1x17.4 kVAr+4x34.8 kVAr+2x69.6 kVAr	Bas	800	1800	800	600
BR-310	313	447	7x34.8 kVAr+1x69.6 kVAr	Bas	800	1800	800	600
BR-320	322	462	1x8.7 kVAr +2x17.4 kVAr+6x34.8 kVAr+1x69.6 kVAr	Bas	800	1800	800	600
BR-330	330	476	5x17.4 kVAr+5x34.8 kVAr+1x69.6 kVAr	Bas	800	1800	800	600
BR-340	339	491	1x8.7 kVAr +5x17.4 kVAr+5x34.8 kVAr+1x69.6 kVAr	Bas	800	1800	1000	600
BR-350	348	505	6x17.4 kVAr+5x34.8 kVAr+1x69.6 kVAr	Bas	800	1800	1000	600
BR-360	357	519	1x8.7 kVAr +4x17.4 kVAr+4x34.8 kVAr+2x69.6 kVAr	Bas	800	1800	1000	600
BR-370	374	534	1x8.7 kVAr +5x17.4 kVAr+4x34.8 kVAr+2x69.6 kVAr	Bas	1000	1800	1000	600

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Code Product	Power (kVAr) (400V)	Current (A)	(Power of steps)	Cable entry	Switches (A) (Option)	Dimensions		
	Frequency==50HZ					Height	Width	Depth
BR-380	383	548	6x17.4 kVAr+4x34.8 kVAr+2x69.6 kVAr	Bas	1000	1800	1000	600
BR-390	392	563	3x8.7 kVAr +3x17.4 kVAr+3x34.8 kVAr+3x69.6 kVAr	Bas	1000	1800	1000	600
BR-400	400	577	5x17.4 kVAr+3x34.8 kVAr+3x69.6 kVAr	Bas	1000	1800	1000	600
BR-410	409	592	1x8.7 kVAr +3x17.4 kVAr+4x34.8 kVAr+3x69.6 kVAr	Bas	1000	1800	1000	600
BR-420	418	606	2x8.7 kVAr +3x17.4 kVAr+4x34.8 kVAr+3x69.6 kVAr	Bas	1000	1800	1200	600
BR-430	426	621	1x8.7 kVAr +4x17.4 kVAr+4x34.8 kVAr+3x69.6 kVAr	Bas	1000	1800	1200	600
BR-440	444	635	1x8.7 kVAr +3x17.4 kVAr+5x34.8 kVAr+3x69.6 kVAr	Bas	1000	1800	1200	600
BR-450	452	650	4x17.4 kVAr+3x34.8 kVAr+4x69.6 kVAr	Bas	1000	1800	1200	600
BR-500	505	721	5x17.4 kVAr+4x34.8 kVAr+4x69.6 kVAr	Bas	1000	1800	1200	600
BR-550	557	793	2x17.4 kVAr+5x34.8 kVAr+5x69.6 kVAr	Bas	1000	1800	1600	600
BR-600	592	865	2x17.4 kVAr+4x34.8 kVAr+6x69.6 kVAr	Bas	1800	1800	1600	600
BR-650	644	937	1x17.4 kVAr+2x34.8 kVAr+6x69.6 kVAr+1x139.2 kVAr	Bas	2000	1800	1600	600
BR-700	696	1009	4x34.8 kVAr+6x69.6 kVAr+1x139.2 kVAr	Bas	2000	1800	1600	600
BR-750	748	1081	1x17.4 kVAr+3x34.8 kVAr+5x69.6 kVAr+2x139.2 kVAr	Bas	2000	1800	2000	600
BR-800	800	1153	2x17.4 kVAr+2x34.8 kVAr+6x69.6 kVAr+2x139.2 kVAr	Bas	2500	1800	2000	600
BR-850	853	1225	1x17.4 kVAr+2x34.8 kVAr+7x69.6 kVAr+2x139.2 kVAr	Bas	2500	1800	2000	600
BR-900	905	1297	4x34.8 kVAr+7x69.6 kVAr+2x139.2 kVAr	Bas	2500	1800	2000	600
BR-950	957	1369	1x17.4 kVAr+3x34.8 kVAr+2x69.6 kVAr+5x139.2 kVAr	Bas	2500	1800	2400	600
BR-1000	992	1441	1x17.4 kVAr+2x34.8 kVAr+3x69.6 kVAr+5x139.2 kVAr	Bas	2500	1800	2400	600

NB: Other power and voltage on request



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

www.tuv.com
ID 9000013216



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