

## Type AAR/5

<b>Ventilation</b>	forced ventilation is programmed and regulated by the regulator (BMR6 – 12).
<b>Isolation Voltage</b>	550 Vac
<b>THD(I)<sub>max</sub></b>	100% on the capacitors (> 60 % in the network)
<b>Frequency</b>	50 Hz
<b>Working voltage</b>	415 V
<b>Power</b>	Q <sub>n</sub> = received power on the required tension and frequency
<b>Operating voltage</b>	230 V via a built-in transformer
<b>Temperature range</b>	-5°C / +40°C
<b>Cabinet</b>	in robust sheet steel, RAL 7035
<b>Protection degree</b>	IP 40 , open door IP 20 (IP 55 on request)
<b>Lock</b>	By key.
<b>Short- circuit capacity</b>	40 kA
<b>Terminal</b>	series EE : at the top series G4M kit / G6M kit / G7M kit / G8M kit : at the bottom
<b>Wiring</b>	internal wiring is realized according to the norm N07VK CEI 20-22 II fireproof
<b>Contactors</b>	for high reliability each bank of capacitors is controlled by its own three-pole contactor. To limit the switching on inrush current each contactor is provided with chokes or resistors.
<b>Fuses</b>	Every bank is protected by a set of 3 HRC fuses (NH00 type – curve gG); the driving circuit is protected with tube fuses (10x38 mm)
<b>Capacitors</b>	single phase, connected in triangle self-healing, metalized polypropylene film, equipped with overpressure safety device and discharge resistor. All are compliant with standard dry type (only the dielectricum is impregnated with biodegradable oil, PCB free) <ul style="list-style-type: none"> <li>○ capacitance tolerance : -5% / +10%</li> <li>○ total losses of the capacitors : ≤0.4 W/kVAR</li> <li>○ temperature category : -25/D according to standard CEI EN 60831-1</li> </ul>
<b>Induction coil</b>	anti-harmonic induction coil tuned to 14% (135 Hz) separate source test voltage: coil to core 3 kV - 1 min. acc. to IEC 76/3 nad 289 tolerance of the inductance: -2% ... + 3% basing on L <sub>n</sub> fundamental current: designed for permanent overvoltage of 6% line distortion: U <sub>3</sub> = 0,5%; U <sub>5</sub> = U <sub>7</sub> = 5% basing on U <sub>n</sub> with duty cycle = 100% limit of linearity: I <sub>lin</sub> > 1,2 Σ I with L > 0,95 * L <sub>n</sub> thermal current: I <sub>th</sub> = 1,0 * I <sub>rms</sub>
<b>Regulator</b>	varmetric relay (type QSR or BMR) entry 5A for TI 5VA class 1, secondary current adapted to the network entry for voltage 415 V switching on/off times : 25 à 30 sec
<b>Reference standards</b>	capacitors : CEI EN 60831-1/2 IEC 831-1/2 UL 810 equipment : CEI EN 60439-1 EIC 439-1

## STANDARD CAPACITIES TYPE AAR/5

Type	Q <sub>n</sub>	I <sub>n</sub>	Steps	Principle	Regulator	Dimensions	Weight
	kVAr	A	kVAr	n x kVAr		h x w x d mm	kg
EE AAR/5	22,5	33	7,5 15	3 x 7,5	<b>QSR4</b>	1000 x 800 x 400	50
EE AAR/5	30	43	7,5 7,5 15	4 x 7,5			55
EE AAR/5	37,5	54	7,5 15 15	5 x 7,5			60
EE AAR/5	45	65	7,5 x 7,5 x 15 x 15	6 x 7,5			62
EE AAR/5	52,5	76	7,5 x 15 x 15 x 15	7 x 7,5			69
EE AAR/5	60	87	15 15 15 15	4 x 15			75
G4M kit AAR/5	75	108	15 30 30	5 x 15	<b>QSR4</b>	1100 x 800 x 600	85
G4M kit AAR/5	90	130	15 15 30 30	6 x 15		+ socle 100	95
G4M kit AAR/5	105	152	15 30 60	7 x 15			115
G4M kit AAR/5	120	173	30 30 60	4 x 30			125
G4M kit AAR/5	135	195	15 30 30 60	9 x 15			145
G4M kit AAR/5	150	217	30 60 60	5 x 30			165
G7M kit AAR/5	165	238	15 30 60 60	11 x 15	<b>BMR6</b>	2000 x 800 x 600	185
G7M kit AAR/5	180	260	30 30 60 60	6 x 30	<b>QSR4</b>	+ socle 100	205
G7M kit AAR/5	195	282	15 30 30 60 60	13 x 15	<b>BMR6</b>		225
G7M kit AAR/5	210	303	30 60 60 60	7 x 30	<b>QSR4</b>		235
G7M kit AAR/5	225	325	15 30 60 60 60	15 x 15	<b>BMR6</b>		255
G7M kit AAR/5	240	347	30 30 60 60 60	8 x 30			265
G7M kit AAR/5	270	390	30 60 60 60 60	9 x 30	<b>BMR6</b>		285
G7M kit AAR/5	300	434	60 60 60 60 60	5 x 60			305
G7M kit AAR/5	300	434	30 30 60 60 60 60	10 x 30			325
G7M kit AAR/5	330	434	30 60 60 60 60 60	11 x 30			430
G7M kit AAR/5	360	434	60 60 60 60 60 60	6 x 60			445
G8M kit AAR/5	330	477	1 x 30 + 5 x 60	11 x 30	<b>BMR12</b>	1000 x 800 x 2000	430
G8M kit AAR/5	360	520	6 x 60	6 x 60		+ socle 100	460
G8M kit AAR/5	390	564	1 x 30 + 6 x 60	13 x 30			520
G8M kit AAR/5	420	607	7 x 60	7 x 60			550
G8M kit AAR/6	450	650	1 x 30 + 7 x 60	15 x 30			580
G8M kit AAR/5	480	694	8 x 60	8 x 60			610
G8M kit AAR/5	510	737	1 x 30 + 8 x 60	17 x 30			620
G8M kit AAR/5	540	752	9 x 60	9 x 60			640
G8M kit AAR/5	600	867	10 x 60	10 x 60			720