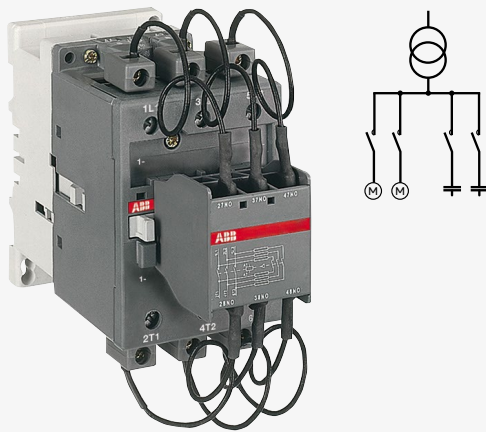


UAF..RA 3-pole contactors for capacitor switching

The solution for control networks with disturbances



The UAF..RA contactors can be used in installations in which peak current, due to energization of capacitors, far exceeds 100 times nominal current. They are delivered complete with their damping resistors and must be used without additional inductances. The capacitors must be discharged (maximum residual voltage at terminals ≤ 50 V) before being re-energized when the contactors are making.



- Unlimited peak current \hat{i}
- Protected against control voltage interruptions and dips

- Wide voltage ranges (ex: 100...250 V AC / DC)
- Can manage large voltage variations
- Reduced coil consumption
- Noise free
- Can withstand control voltage interruptions and dips (≤ 25 ms).



Ordering details

Rated operational power 400/415 V 40 °C AC-6b kvar	Rated control circuit voltage		Type	Order code	Weight Pkg (1 pce) kg
	V 50/60 Hz	V DC			
60	48...130	48...130	UAF75-30-00RA	1SBL417024R6900	1.350
	100...250	100...250	UAF75-30-00RA	1SBL417024R7000	1.350
70	-	20...60 (1)	UAF95-30-00RA	1SFL437024R7200	2.100
	48...130	48...130	UAF95-30-00RA	1SFL437024R6900	2.100
	100...250	100...250	UAF95-30-00RA	1SFL437024R7000	2.100
80	-	20...60 (1)	UAF110-30-00RA	1SFL457024R7200	2.100
	48...130	48...130	UAF110-30-00RA	1SFL457024R6900	2.100
	100...250	100...250	UAF110-30-00RA	1SFL457024R7000	2.100

(1) The connection polarities indicated close to the coil terminals must be respected: A1 for "+" pole and A2 for the "-" pole.

Selection table

Type	Power in kvar - 50/60 Hz (AC-6b)												Max. permissible peak current \hat{i}	gG type fuses A max. (*)			
	230/240 V			400/415 V			440 V			500/550 V					690 V		
	40 °C	55 °C	70 °C	40 °C	55 °C	70 °C	40 °C	55 °C	70 °C	40 °C	55 °C	70 °C			40 °C	55 °C	70 °C
UAF75-30-00RA	35	30	25	60	50	41	65	53	45	75	65	55	100	80	70	Unlimited	200
UAF95-30-00RA	40	35	30	70	60	53	75	65	58	85	75	70	120	105	85		250
UAF110-30-00RA	45	40	35	80	70	60	85	75	70	95	82	78	130	110	100		250

(*) The fuse ratings given in the column represent the maximum ratings ensuring type 1 coordination according to the definition of standard IEC 60947-4-1.

When the coil is energized, the early making auxiliary poles connect the capacitor to the network via the set of 3 resistors.
 Once the main poles are in the closed position, the auxiliary poles automatically break.
 When the coil is de-energized, the main poles break ensuring the breaking of the capacitor bank.

Technical data

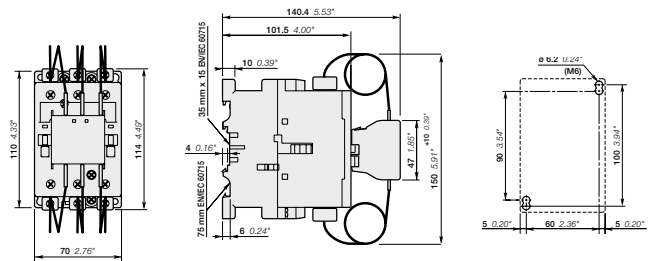
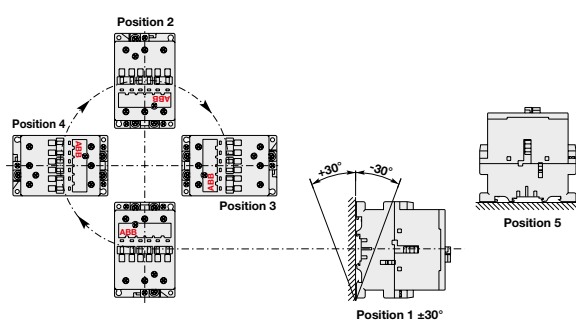
Types	UAF75..RA	UAF95..RA UAF110..RA
Short-circuit protection	Sized 1.5 ... 1.8 In of the capacitor	
gG type fuses	240 cycles/h	
Max. electrical switching frequency	100 000 operating cycles	
Electrical durability AC-6b		
Connection capacity (min. ... max.)		
Main conductors (poles)		
Rigid Solid ($\leq 4 \text{ mm}^2$)	1 x 6...50 mm ²	10...95 mm ²
Stranded ($\geq 6 \text{ mm}^2$)	2 x 6...25 mm ² + 6...16 mm ²	6...35 mm ²
Flexible with ferrule	1 x 6...35 mm ²	10...70 mm ²
Flexible with ferrule	2 x 6...16 mm ² + 6...10 mm ²	6...35 mm ²
Coil terminals		
Rigid solid	1 x 1...4 mm ²	0.75...2.5 mm ²
Rigid solid	2 x 1...4 mm ²	0.75...2.5 mm ²
Flexible with ferrule	1 x 1...2.5 mm ²	0.75...2.5 mm ²
Flexible with ferrule	2 x 0.75...2.5 mm ²	0.75...2.5 mm ²
Degree of protection acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	Protection against direct contact in acc. with EN 50274	
Main terminals	IP10	
Coil terminals	IP20	
Screw terminals	Delivered in open position, screws of unused terminals must be tightened	
Main terminals	M6	M8
	Screwdriver type	Hexagon socket (s = 4 mm)
Coil terminals	M3.5	
	Screwdriver type	Pozidriv 2 screws with cable clamp
Tightening torque		
Main terminals	Recommended 4 Nm / 35 lb.in Max. 4.5 Nm	6 Nm / 53 lb.in 6.5 Nm
Coil terminals		
Main terminals	Recommended 1 Nm / 9 lb.in Max. 1.2 Nm	
Electromagnetic compatibility	acc. to EN/IEC 60947-1, 60947-4-1 - Environment A (1)	

(1) This product has been designed for environment A. Use of this product in environment B may cause unwanted electromagnetic disturbances in which case the user may be required to take adequate mitigation measures.

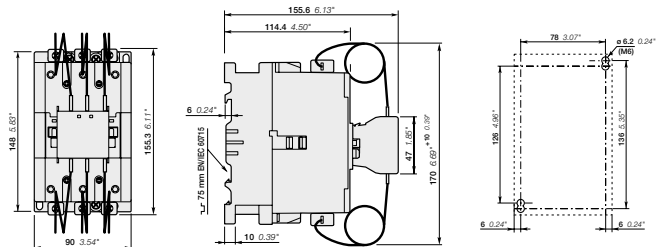
Main accessory fitting details

Contactor types	Main poles	Available auxiliary contacts	Front mounted accessories Auxiliary contact blocks	Side mounted accessories Auxiliary contact blocks
			1-pole CA 5-...	2-pole CAL...
UAF75-30-00RA	3 0	0 0	1 to 2 x CA 5-...	+ 1 to 2 x CAL 5-11
UAF95-30-00RA	3 0	0 0	1 to 2 x CA 5-...	+ 1 to 2 x CAL 18-11
UAF110-30-00RA	3 0	0 0	1 to 2 x CA 5-...	+ 1 to 2 x CAL 18-11

Mounting positions



UAF75..RA



UAF95..RA, UAF110..RA

Main dimensions mm, inches

