

IEC Technical data

A/AF9 – AF110

Magnet System Characteristics for A... Contactors

Contactor types: A...			9	12	16	26	30	40	45	50	63	75	95	110						
Rated control circuit voltage U_c																				
– at 50 Hz			V																	
– at 60 Hz			V																	
Coil operating limits according to IEC 60947-4-1			$\vartheta \leq 55^\circ\text{C}$						$\vartheta \leq 70^\circ\text{C}$											
Drop-out voltage in % of U_c			roughly 40 ... 65 %																	
Coil consumption																				
Average pull-in value			50 Hz VA			60 Hz VA			50/60 Hz ① VA/VA			50 Hz VA/W			60 Hz VA/W			50/60 Hz ① VA/W		
Average holding value			50 Hz VA/W			60 Hz VA/W			50/60 Hz ① VA/W			50 Hz VA/W			60 Hz VA/W			50/60 Hz ① VA/W		
Operating time																				
between coil energization and:																				
– N.O. contact closing			ms			ms			ms			ms			ms					
– N.C. contact opening			ms			ms			ms			ms			ms					
between coil de-energization and:																				
– N.O. contact opening			ms			ms			ms			ms			ms					
– N.C. contact closing			ms			ms			ms			ms			ms					

Magnet System Characteristics for AF... Contactors

Contactor types: AF...			-	-	-	-	-	-	45	50	63	75	95	110						
Rated control circuit voltage U_c																				
– at 50 Hz			V																	
– at 60 Hz			V																	
– d.c.			V																	
Coil operating limits according to IEC 60947-4-1			$\vartheta \leq 70^\circ\text{C}$																	
Drop-out voltage in % of U_c			0.85 ... 1.1 x U_c																	
Coil consumption			55 %																	
Average pull-in value			50 Hz VA			60 Hz VA			d.c. W			50 Hz VA/W			60 Hz VA/W			d.c. W		
Average holding value			50 Hz VA/W			60 Hz VA/W			d.c. W			50 Hz VA/W			60 Hz VA/W			d.c. W		
Operating time																				
between coil energization and:																				
– N.O. contact closing			ms			ms			ms			ms			ms					
– N.C. contact opening			ms			ms			ms			ms			ms					
between coil de-energization and:																				
– N.O. contact opening			ms			ms			ms			ms			ms					
– N.C. contact closing			ms			ms			ms			ms			ms					

① 50/60 Hz coils: voltage codes 8 0 to 8 8. see page 1.28.