

IEC Technical data

A145 – AF750

Across the line
contactors

1

Magnet System Characteristics for A... Contactors

Contactor types:	A...	145	185	210	260	300	-	-	-	-
Rated control circuit voltage U_c										
- at 50 Hz	V	24 ... 690								
- at 60 Hz	V	24 ... 690								
Coil operating limits according to IEC 60947-4-1		$\sigma \leq 70^\circ\text{C}$ 0.85 ... 1.1 x U_c								
Drop-out voltage in % of U_c		roughly 25 ... 65 %								
Coil consumption										
Average pull-in value	50 Hz	VA	550		1350					
	60 Hz	VA	600		1550					
	50/60 Hz ①	VA/VA	700/650		1700/1550					
Average holding value	50 Hz	VA/W	35/11		60/16					
	60 Hz	VA/W	40/12		65/19					
	50/60 Hz ①	VA/W	44/13		80/21					
Operating time										
between coil energization and:										
- N.O. contact closing	ms		13 ... 27		17 ... 35					
- N.C. contact opening	ms		8 ... 22		12 ... 30					
between coil de-energization and										
- N.O. contact opening	ms		5 ... 10		7 ... 13					
- N.C. contact closing	ms		9 ... 13		10 ... 16					

Magnet System Characteristics for AF... Contactors

Contactor types:	AF...	145	185	210	260	300	400	460	580	750
Rated control circuit voltage U_c										
- at 50 Hz	V	48 ... 250								
- at 60 Hz	V	48 ... 250								
- d.c.	V	24 ... 250								
Coil operating limits according to IEC 60947-4-1		$\sigma \leq 70^\circ\text{C}$ 0.85 ... 1.1 x U_c								
Drop-out voltage in % of U_c		55 %								
Coil consumption										
Average pull-in value	50 Hz	VA	430		470		890		850	
	60 Hz	VA	430		470		890		850	
	d.c.	W	500		520		990		950	
Average holding value	50 Hz	VA/W	12/3.5		10/2.5		12/4		12/4.5	
	60 Hz	VA/W	12/3.5		10/2.5		12/4		12/4.5	
	d.c.	W	2		2		4		4.5	
Operating time										
between coil energization and:										
- N.O. contact closing	ms		30 ... 115				50 ... 120			
- N.C. contact opening	ms		30 ... 115				50 ... 120			
between coil de-energization and										
- N.O. contact opening	ms		25 ... 80				40 ... 70			
- N.C. contact closing	ms		25 ... 80				40 ... 70			

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