

A9 ... A30 3-pole contactors

Technical data

Magnet system characteristics

Contactor types		AC operated	A9	A12	A16	A26	A30
Coil operating limits		AC supply	at $\theta \leq 55^\circ\text{C}$ 0.85...1.1 x U_c				
acc. to IEC 60947-4-1			Please also refer to "Mounting characteristics and conditions for use"				
AC control voltage 50/60 Hz							
Rated control circuit voltage U_c		at 50 Hz	24...690 V				
		at 60 Hz	24...690 V				
Coil consumption	Average pull-in value	50 Hz	70 VA			120 VA	
		60 Hz	80 VA			140 VA	
		50/60 Hz (1)	74 VA / 70 VA			125 VA / 120 VA	
	Average holding value	50 Hz	8 VA / 2 W			12 VA / 3 W	
		60 Hz	8 VA / 2 W			12 VA / 3 W	
		50/60 Hz (1)	8 VA / 2 W			12 VA / 3 W	
Drop-out voltage			approx. 40...65 % of U_c				
Operating time							
Between coil energization and:	N.O. contact closing		10...26 ms				8...21 ms
	N.C. contact opening		7...21 ms				6...18 ms
Between coil de-energization and:	N.O. contact opening		4...11 ms				4...11 ms
	N.C. contact closing		9...16 ms				7...14 ms

(1) 50/60 Hz coils: see "Coil voltage code table".

Mounting characteristics and conditions for use

Contactor types		AC operated	A9	A12	A16	A26	A30
Mounting positions							
			Max. N.O. or N.C. built-in and add-on N.O. or N.C. auxiliary contacts: see accessory fitting details for 3-pole contactor A9 ... A30				
Control voltage / Ambient temperature							
Mounting positions	1, 1±30°, 2, 3, 4, 5	at $\theta \leq 55^\circ\text{C}$	0.85...1.1 x U_c				
		at $\theta \leq 70^\circ\text{C}$	U_c				
	6	at $\theta \leq 55^\circ\text{C}$	0.95...1.1 x U_c				
		at $\theta \leq 70^\circ\text{C}$	Unauthorized				
Mounting distances			The contactors can be assembled side by side				
Fixing							
On rail according to IEC 60715, EN 60715			35 x 7.5 mm or 35 x 15 mm				
By screws (not supplied)			2 x M4 screws placed diagonally				

A40 ... A110 3-pole contactors

Technical data

Magnet system characteristics

Contactor types	AC operated	A40	A50	A63	A75	A95	A110
Coil operating limits	AC supply	At $\theta \leq 55\text{ °C}$ 0.85...1.1 x U_c				at $\theta \leq 70\text{ °C}$ 0.85...1.1 x U_c	
acc. to IEC 60947-4-1		Please also refer to "Mounting characteristics and conditions for use"					
AC control voltage 50/60 Hz							
Rated control circuit voltage U_c		at 50 Hz 24...690 V					
		at 60 Hz 24...690 V					
Coil consumption	Average pull-in value	50 Hz	120 VA	180 VA		350 VA	
		60 Hz	140 VA	210 VA		450 VA	
	Average holding value	50/60 Hz (1)	125 VA / 120 VA	190 VA / 180 VA		410 VA / 365 VA	
		50 Hz	12 VA / 3 W	18 VA / 5.5 W		22 VA / 6.5 W	
		60 Hz	12 VA / 3 W	18 VA / 5.5 W		26 VA / 8 W	
		50/60 Hz (1)	12 VA / 3 W	18 VA / 5.5 W		27 VA / 7.5 W	
Drop-out voltage		Approx. 40...65 % of U_c					
Operating time							
Between coil energization and:	N.O. contact closing	8...21 ms	8...27 ms			10...25 ms	
	N.C. contact opening	6...18 ms	7...22 ms			7...22 ms	
Between coil de-energization and:	N.O. contact opening	4...11 ms	4...11 ms			7...15 ms	
	N.C. contact closing	7...14 ms	7...14 ms			10...18 ms	

(1) 50/60 Hz coils: see "Coil voltage code table".

Mounting characteristics and conditions for use

Contactor types	AC operated	A40	A50	A63	A75	A95	A110
Mounting positions							
		Max. built-in and add-on N.O. or N.C. auxiliary contacts: see accessory fitting details for 3-pole contactor A40 ... A110					
Control voltage / Ambient temperature							
Mounting positions	1, 1±30°, 2, 3, 4, 5	at $\theta \leq 55\text{ °C}$	0.85...1.1 x U_c			0.85...1.1 x U_c	
		at $\theta \leq 70\text{ °C}$	U_c			0.85...1.1 x U_c	
	6	at $\theta \leq 55\text{ °C}$	0.95...1.1 x U_c			Unauthorized	
		at $\theta \leq 70\text{ °C}$	Unauthorized			Unauthorized	
Mounting distances		The contactors can be assembled side by side					
Fixing							
On rail according to IEC 60715, EN 60715		35 x 7.5 mm or 35 x 15 mm	35 x 15 mm or 75 x 25 mm				-
By screws (not supplied)		2 x M4 screws placed diagonally	2 x M6 screws placed diagonally			2 x M6 screws placed diagonally	