

Coil Data - AC / Two Winding DC

			CA7-9-M40 (31; 22)	CA7-12-M40 (31; 22)	CA7-16-M40 (31; 22)	CA7-23-M40 (31; 22)	CA7-40-M22 CAL7-20	CA7-40-M40 CAL7-30	CA7-90-M22	CA7-90-M40 CAL7-60
Voltage Range										
AC: 50Hz, 60Hz, 50/60 Hz	Pickup	[xU _s]							0.85...1.1	
	Dropout	[xU _s]							0.3...0.6	
DC, Two Winding (90D)	Pickup	[xU _s]	0.8...1.1 (9V coils = 0.65...1.3; 24V coils = 0.7...1.25)							
	Dropout	[xU _s]	0.1...0.6							
Coil Consumption										
AC: 50Hz, 60Hz, 50/60 Hz	Pickup	[VA]	75	75	75	105	135	135	400VA/240W	400VA/240W
	Hold-in	[VA/W]	9.5/2.7	9.5/2.7	9.5/2.7	12.3/3.1	13.3/3.3	13.3/3.3	24/9	24/9
DC: Two Winding (90D)	Pickup	[W]	~	~	~	~	~	~	325	325
	Hold-in	[W]	~	~	~	~	~	~	5.5	5.5
Operating Times										
AC: 50Hz, 60Hz, 50/60 Hz	Pickup	[ms]	15...30	15...30	15...30	15...30	15...30	15...30	20...30	20...40
	Dropout	[ms]	10...60	10...60	10...60	10...60	10...60	10...60	20...40	20...40
with RC Suppressor	Dropout	[ms]	10...60	10...60	10...60	10...60	10...60	10...60	20...40	20...40
DC: Two Winding (90D)	Pickup	[ms]	~	~	~	~	~	~	15...20	15...25
	Dropout	[ms]	~	~	~	~	~	~	20...25	15...25

Coil Data - Electronic DC

Voltage Range			Coil Consumption & Operating Times ①						
Voltage Code	Nominal Voltage US [VDC]	Ratings [xU _s]	Average/Peak Pickup [W]		Hold-in [W]		Dropout Voltage [xU _s]	Pickup [ms]	Dropout [ms]
			CA7-9E...37E	CA7-40E	CA7-9E...37E	CA7-40E			
12E	12	0.7...1.25	10/17	16/25	1.7	2.5	0.3...0.4	25...50	27...45
24E	24	0.7...1.25	10/17	16/25	1.7	2.5			
36E	36...48	0.7...1.25	10/17	16/25	1.7...1.9	2.5...2.7			
48E	48...72	0.8...1.25	10/17	16/25	1.7...1.9	2.5...2.7			
110E	110...125	0.7...1.12 ②	12/19	16/26	2.0...2.1	2.7...2.8	0.3...0.4	25...50	23...33
220E	220...250	0.7...1.1	14/22	18/29	2.7...3.0	3.5...4.0			

① The hold-in demand of the CA7-9E...55E is very low but the pick-up demand is approximately 1 ampere at 24 VDC. When sizing (dimensioning) a power supply for applications involving parallel switched contactors then multiply the peak demand by the number of contactors to be simultaneously switched and add to the hold-in demand of all other control circuit burdens, including other contactors, pilot devices, solenoids, etc.

② At 110VDC, coil code 110E has an operating range of 0.7...1.25 xU_s.