

Technical informations

Ratings of Auxiliary contacts

Type	Rated current(A)																AC1 (lth) A
	AC13				DC 13				AC 12				DC 13				
	110V	120V	440V	550V	24V	48V	110V	220V	110V	220V	440V	550V	24V	48V	110V	220V	
CGC-9A(D)~22A(D)	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
CGC-32A(D)~85A(D)	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
CGC-100~800	6	5	3	3	6	3	1.2	0.2	10	10	5	5	5	3	1.5	0.25	16

Coil characteristics

Operating limits

When the operating coil is in the energized state an operating tolerance of between 85~110% of the coil's rated voltage is permitted, at temperatures up to 40℃ at standard operating frequency. Operation out with the above may cause deterioration to electrical insulation and mechanical operation.

Selections of coil

In CGC-9A~85A contactors, 50Hz coil and 60Hz coil are separated.

But in CGC-100~800 contactors, the coils are AC/DC common use. (under DC 220V)

Characteristics of AC coil

AC 220V

Type	Coil consumption (VA)		Thermal dissipation (W)	Operational voltage(V)		Coil current (mA)	Operational time (ms)	
	Inrush	Holding		Pick-up	Drop-out		Closing	Opening
CGC-9A(/4)~22A(/4)	95	9	2	141~156(142~157)*	105~125(112~132)*	41(36)	10~17	6~9
CGC-32A(/4), 40A(/4)	95	9	2	150~165(151~166)*	110~130(117~137)*	41(36)	11~19	6~10
CGC-50A(/4)~85A(/4)	220	17	5	145~160(146~161)*	100~120(107~127)*	77(68)	16~25	8~15
CGC-100, 125	298	12.3	4.4	77	48	56	30~34	63~67
CGC-150	298	12.3	4.4	77	48	56	37~41	47~52
CGC-180, 200	380	11.6	4.7	77	48	53	45	45
CGC-100(/4)~220(/4)	380	11.6	4.7	77	48	53	45	45
CGC-300(/4), 400(/4)	571	14	5	77	48	64	45~50	48~52
CGC-600(/4), 800(/4)	1000	29	7.8	150	91	132	66~69	55

Note) 1. Average values. 2. () * values for 50Hz.

AC 110V

Type	Coil consumption (VA)		Thermal dissipation (W)	Operational voltage(V)		Coil current (mA)	Operational time (ms)	
	Inrush	Holding		Pick-up	Drop-out		Closing	Opening
CGC-9A(/4)~22A(/4)	95	9	2	75~85(74~84)*	55~65(54~64)*	73(73)*	11~18	6~9
CGC-32A(/4), 40A(/4)	95	9	2	75~85(74~84)*	55~65(54~64)*	73(73)*	13~20	6~9
CGC-50A(/4)~85A(/4)	220	17	5.5	68~78(67~77)*	40~50(39~49)*	154(154)*	16~25	9~16
CGC-100, 125	162	9.8	3.1	77	48	89	46~50	49~53
CGC-150	162	12.2	3	77	48	111	56~60	44~48
CGC-180, 200	220	9.1	3.4	77	48	83	60	41
CGC-100(/4)~220(/4)	220	9.1	3.4	77	48	83	60	41
CGC-300(/4), 400(/4)	393	14	4.4	77	48	128	64~68	43~47
CGC-600(/4), 800(/4)	1000	17	6.3	77	48	155	66~70	45~49

Note) 1. Average values. 2. () * values for 50Hz.

Characteristics of DC coil

DC 110V

Type	Coil consumption (VA)		Thermal contact (W)	Operational voltage(V)		Coil current (mA)	Operational time (ms)	
	Inrush	Holding		Pick-up	Drop-out		Closing	Opening
CGC-9D(/4)~22D(/4)	9	9	50	60~75	15~35	82	45~55	8~15
CGC-32D(/4), 40D(/4)	9	9	50	60~75	15~35	82	45~55	8~15
CGC-50D(/4)~85D(/4)	220	5	-	65~80	15~35	46	20~30	13~20