

Controls

Miniature Contactors - CWC Series

General Ratings

Type		CWC07	CWC09	CWC012	CWC016
General Purpose Rating	(A)	18	20	22	22
Rated Operational Voltage – (Ue)	(V)	12...690 V			
Rated Insulation Voltage – (Ui)	(V)	600 V acc. UL / 690 V acc. IEC			
Rated Impulse Withstand Voltage - (Uimp)	(V)	4000 V			
Mechanical Lifespan	(Ops x 10 ⁶)	10 (AC coil) / 12 (DC coil)			
Electrical Lifespan	(Ops x 10 ⁶)	1.4	1.3	1.2	1.1
Degree of Protection		IP20			
Max. Duty Cycle Monofrequency coil.	No Load (Ops/h)	2500 (AC coil) / 2000 (DC coil)			
	AC-1, AC-3 (Ops/h)	600			
	AC-4 (Ops/h)	300			
High Reliability		Ie min=5mA Ue min = 17V			
Coil Consumption (at 1,0 x Us and cold coil)	AC (60Hz)	Pick-up (VA)	35		
		Cos Ø	0.85		
		Sealed (VA)	2.5...3.5		
		Cos Ø	0.28		
	DC	Pick-up (W)	2.3...3.1		
		Sealed (W)	2.3...3.1		
Coil Operation Limits	Monofrequency coils	xUs	0.85...1.1		
	AC (60Hz)	Pick-up xUs	0.40...0.76		
		Drop-out xUs	0.25...0.65		
	DC	Pick-up xUs	0.40...0.70		
		Drop-out xUs	0.15...0.40		
Opening and closing times AC (60Hz)		Energization (ms)	8...20		
		De-energization (ms)	6...13		
DC		Energization (ms)	35...45		
		De-energization (ms)	7...12		
Weight		kg (oz)	0.19 (6.70)		
Ambient Temperature		Operating °C (°F)	-25...+60 (-13...+140)		
		Storage °C (°F)	-55...+80 (-67...+176)		
Terminal Capacity (main contacts) Number of conductors and Cross section (Min. and Max.)	Flexible without cable lug (mm ²)	1 or 2 x (1.0 ... 2.5)			
	Flexible with cable lug (mm ²)	1 or 2 x (1.0 ... 2.5)			
	AWG Cables	1 or 2 x (18 ... 12)			
Tightening torque		Nm (lb.in)	1 ... 1.5 (8.9...13.3)		