UPI CWC Series Miniature Contactors

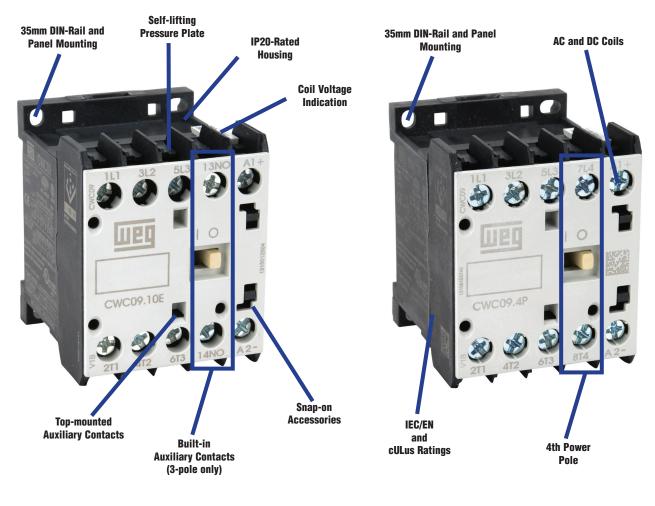
Features

- Rated up to 15hp @ 460V
- Direct mounting to the WEG RW17D overload relay
- Frame size is identical for AC and DC coil contactors up to 16A (CWC07-16).
- CWC025 frame available with AC coil only
- Heavy-duty operation
- Tool-free DIN-rail mounting
- WEG 18-month warranty

- Snap-on accessories
- DC coil low consumption: 1.7–2.7 W
- DC coil standard consumption: 2.6-3.7 W

The CWC series mini contactors are a complete solution for switching and controlling motors. The CWC's compact dimensions for its IEC current rating, up to 22A, AC-3 utilization category, allows it to take up less space inside electrical enclosures while still maintaining a powerful 15hp @ 460V. Dimensions of the 7A to 16A contactors are the same for both AC or DC coil voltages, making the panel design and assembly easier. DC models feature low consumption coils allowing the CWC to be operated directly from a PLC without interface relays.

More Horsepower in a Smaller Frame



Standards

• UL 508

• IEC/EN 60947-1

•CSA-C22.2 No. 14

Agency Approvals/Certifications

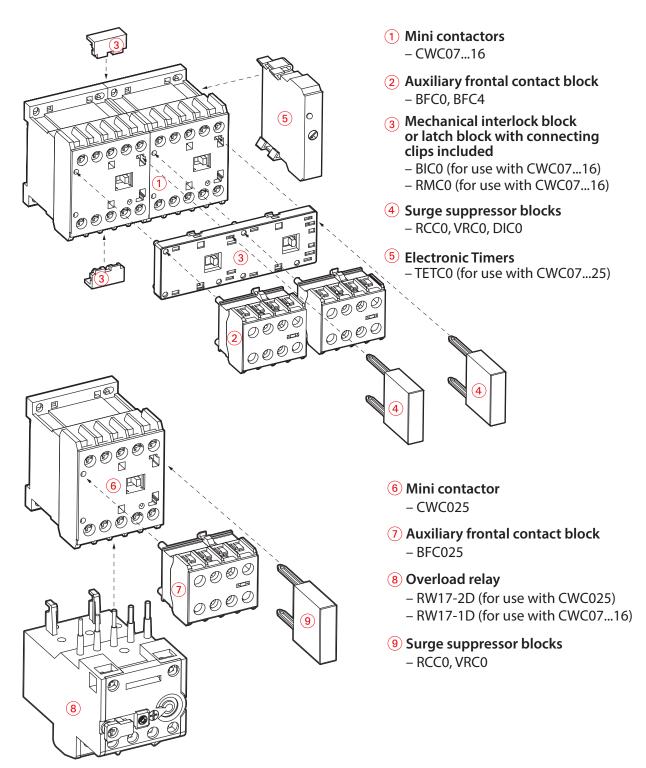
- cULus listed (File No. E202315/E189202)
- CE marked low voltage directive 2006/95/EC



tMRC-1 Motor Controls

UPD CWC Series Miniature Contactors

Overview



LIED CWC Series Miniature Contactors Configuration

Three-Pole Contactors

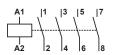
CWC09-01-30/04 9 20 [3] [5,4] [6] <			Three	e-Pole l	Mini C	ontact	ors wi	th AC (Coil (IE	C/EN -	- 60	947-1)	
Part Number Price AC-3 AC-7 Z20V 380V 440V 560V 660V Signature and Frequency			Curren	t Ratina	Max	<i>cimum</i>			onal Po	ower	#			
CWC07-10-30/V04 (A)	Part Number	Price						[hp]	1		j.			
CW027-10-30/04 Col	i ant Number	11100		-		380V		440V	500V		Ma			and Frequency
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CWC025-00-30V18 22 32 5.5 11 11 11 11 11 11 11 11 11 11 11 15 3 - - 120AC 60Hz/110VAC 50Hz CWC025-00-30V24 CWC025-00-30V47 Three-Pole Mini Contactors with DC Coil (IEC/EN - - 120AC 60Hz/110VAC 50Hz CWC07-10-30L02 Three-Pole Mini Contactors with DC Coil (IEC/EN - 60947-1) CWC07-10-30L02 7 18 1.5 3 3 3.7 3.7 3 3 1 - 12VDC low consumption CWC07-10-30L02 7 18 1.5 3 3 3.7 15 14 14 15 3 3 1 - 12VDC low consumption CWC07-01-30L02 9 20 2.2 4 4 4.5 4.5 4 3 1 - 12VDC low consumption CWC09-01-30L02 9 20 2.2 4 5.5 5.5 5.5 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>1</th><th>480VAC 60Hz/400-415 VAC 50Hz</th></th<>												-	1	480VAC 60Hz/400-415 VAC 50Hz
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CWC07-01-30L03 O Image: CWC09-10-30L03 Sector			/	81	[2]		[4]	[5]	[5]	[4]		-	1	
CWC09-10-30L02 9 20 2.2 4 5.4 4.5 4.5 4.5 4.5 5.4 5.5												_	1	24VDC low consumption
CWC09-01-30L02 9 20 [3] [5.4] [5.4] [6] [6] [5.4] 3 1 12VDC low consumption CWC09-01-30L03 0 12 22 3 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 7.5 <th></th> <th>1</th> <th>_</th> <th>12VDC low consumption</th>												1	_	12VDC low consumption
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CWC012-10-30L02 12 22 3 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 7.5			Э	20	[3]				[6]			-	1	12VDC low consumption
CWC012-10-30L02 12 22 3 5.5											3	-	1	24VDC low consumption
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CWC016-10-30L03 16 22 4 7.5 7.5 7.5 7.5 7.5 3 1 - 24VDC low consumption	CWC012-01-30L03										3	-	1	24VDC low consumption
	CWC016-10-30L02										3	1	-	12VDC low consumption
CIVC016 01 201 02	CWC016-10-30L03		16	22								1	-	24VDC low consumption
	CWC016-01-30L02		10		[5.4]	[10]	[10]	[10]	[10]	[10]	3	-	1	12VDC low consumption
CWC016-01-30L03 3 - 1 24VDC low consumption	CWC016-01-30L03										3	-	1	24VDC low consumption
Note: Low consumption 12VDC and 24VDC contactors can only use 2-pole auxiliary contact blocks.	Note: Low consumption 12	VDC and 2	4VDC cont	tactors car	only use	e 2-pole a	auxiliary	contact b	locks.					

LIED CWC Series Miniature Contactors Configuration

Four-Pole Contactors

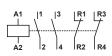
		Four-Po	ole Mini							947-1)	
		Curren	t Rating	Мах	kimum		Operati [hp]	onal Po	ower		nber Nain	Coil Voltore
Part Number	Price	AC-3	AC-1	230V	380V	400V	440V	500V	660V		tacts	Coil Voltage and Frequency
		(A)	(A)	230V	3000	415V	440V	0000	690V	NO	NC	
<i>CWC07-00-40V04</i>										4	-	24VAC 60Hz
CWC07-00-40V18]								4	-	120VAC 60Hz/110VAC 50Hz
<i>CWC07-00-40V24</i>]								4	-	208-240 VAC 60Hz
<i>CWC07-00-40V47</i>		7	18	1.5	3	3	3.7	3.7	3	4	-	480VAC 60Hz/400-415 VAC 50Hz
<i>CWC07-00-22V04</i>] '	10	[2]	[4]	[4]	[5]	[5]	[4]	2	2	24VAC 60Hz
CWC07-00-22V18]								2	2	120VAC 60Hz/110VAC 50Hz
<i>CWC07-00-22V24</i>]								2	2	208-240 VAC 60Hz
<i>CWC07-00-22V47</i>										2	2	480VAC 60Hz/400-415 VAC 50Hz
<i>CWC09-00-40V04</i>										4	-	24VAC 60Hz
<i>CWC09-00-40V18</i>										4	-	120VAC 60Hz/110VAC 50Hz
<i>CWC09-00-40V24</i>										4	-	208-240 VAC 60Hz
<i>CWC09-00-40V47</i>		- 9	20	2.2	4	4	4.5	4.5	4	4	-	480VAC 60Hz/400-415 VAC 50Hz
<i>CWC09-00-22V04</i>			20	[3]	[5.4]	[5.4]	[6]	[6]	[5.4]	2	2	24VAC 60Hz
<i>CWC09-00-22V18</i>										2	2	120VAC 60Hz/110VAC 50Hz
<i>CWC09-00-22V24</i>										2	2	208-240 VAC 60Hz
<i>CWC09-00-22V47</i>										2	2	480VAC 60Hz/400-415 VAC 50Hz
<i>CWC016-00-40V04</i>										4	-	24VAC 60Hz
<i>CWC016-00-40V18</i>										4	-	120VAC 60Hz/110VAC 50Hz
<i>CWC016-00-40V24</i>										4	-	208-240 VAC 60Hz
<i>CWC016-00-40V47</i>		16	22	4	7.5	7.5	7.5	7.5	7.5	4	-	480VAC 60Hz/400-415 VAC 50Hz
CWC016-00-22V04		10	22	[5.4]	[10]	[10]	[10]	[10]	[10]	2	2	24VAC 60Hz
CWC016-00-22V18]								2	2	120VAC 60Hz/110VAC 50Hz
CWC016-00-22V24										2	2	208-240 VAC 60Hz
CWC016-00-22V47										2	2	480VAC 60Hz/400-415 VAC 50Hz
		Four-Po	ole Mini	Conta	actors	with D	C Coil	(IEC/E	N – 60	947- 1)	
<i>CWC07-00-40L02</i>										4	-	12VDC Low consumption
CWC07-00-40L03		1_		1.5	3	3	3.7	3.7	3	4	-	24VDC Low consumption
CWC07-00-22R02		7	18	[2]	[4]	[4]	[5]	[5]	[4]	2	2	12VDC Standard consumption
CWC07-00-22R03										2	2	24VDC Standard consumption
<i>CWC09-00-40L02</i>					1				1	4	-	12VDC Low consumption
CWC09-00-40L03		1		2.2	4	4	4.5	4.5	4	4	-	24VDC Low consumption
CWC09-00-22R02		9	20	[3]	[5.4]	[5.4]	[6]	[6]	[5.4]	2	2	12VDC Standard consumption
CWC09-00-22R03		1								2	2	24VDC Standard consumption
CWC016-00-40L02					İ				1	4	_	12VDC Low consumption
CWC016-00-40L03				4	7.5	7.5	7.5	7.5	7.5	4	-	24VDC Low consumption
CWC016-00-22R02		16	22	[5.4]	[10]	[10]	[10]	[10]	[10]	2	2	12VDC Standard consumption
CWC016-00-22R03		1								2	2	24VDC Standard consumption
Note: Low consumption 12	VDC and 24	VDC conta	ctors can	only use	2-pole al	ixiliarv c	ontact bl	ocks.				1

CWC07-10...CWC016-10



CWC07-00-40...CWC016-00-40

CWC07-01...CWC016-01



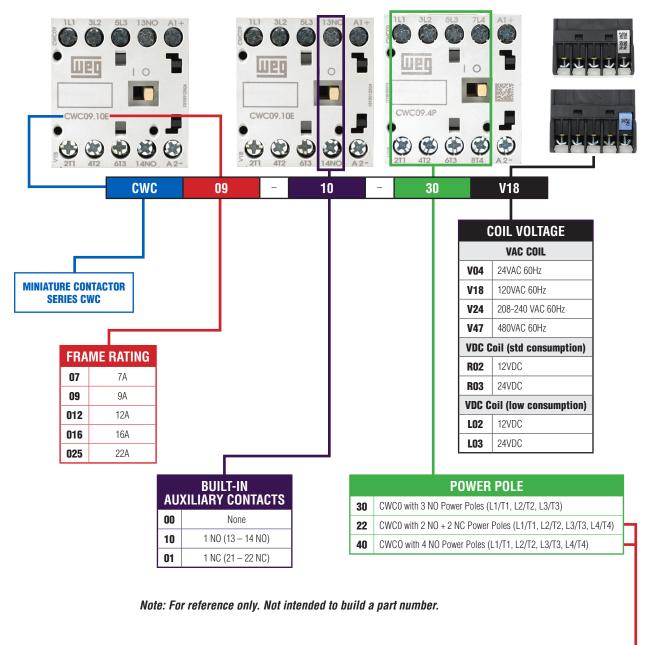
CWC07-00-22...CWC016-00-22

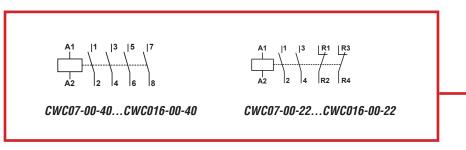


CWC025-00

LIED CWC Series Miniature Contactors Configuration

How to Identify Your Part Number





	CWC Miniature Contac	ctors	General Te	chnical Chara	acteristics					
Contactor part numbers			CWC07	CWC09	<i>CWC012</i>	<i>CWC016</i>	<i>CWC025</i>			
Standards			IEC/EN 60947-1, IEC/EN 60947-4, DIN VDE 0660(102), UL508							
Rated insulation voltage U	IEC/EN 60947-4-1, VDE 0660	(V)			690					
(pollution degree 3)	UL, CSA	(V)			600					
Rated impulse withstand voltage Ump	(IEC/EN 60947-1)	(kV)			4					
Rated operational frequency (contact switchable)	(Hz)			25-400					
Mechanical lifespan	AC coil Ops x 10 ⁶			1	0		3			
methanital mespan	DC coil Ops x 10 ⁶			1	2		-			
Electrical lifespan	le AC-3 Ops x 10 ⁶		1.4	1.3	1.2	1.1	0.6			
Degree of protection	Main circuits		IP20							
(VDE 0160)	Control circuits and auxiliary con	tacts	IP20							
Mounting			Screw or DIN-rail 35mm (EN 50022)							
Coil terminals			2							
Vibration resistance	Contactor open	(g)	2							
	Contactor closed	(g)	4							
Mechanical shock resistance	Contactor open	(g)			6					
(½ sinusoid = 11ms)	Contactor closed	(g)			10					
Ambient temperature	Operation		-25 to +55°C [-13 to +131°F]							
-	Storage		-55 to +80°C [-67 to +176°F]							
Maximum operating altitude (up to 3000m [9842.5 ft]							
Altitude derating	0.72 x rated hp				000 m [9842.5 – 1	-				
	0.60 x rated hp			4000 - 50	000 m [13123.4 – 1	6404.2 ft]				

	UL508 a	and I	EC/EN Speci	fications							
Contactor part numbers			CWC07	CWC09	<i>CWC012</i>	<i>CWC016</i>	<i>CWC025</i>				
Standards			UL508/CSA Ratings								
Rated operating voltage		(V)			600						
UL general purpose rating		(A)	18	20	22	22	30				
Switching motor loads full voltage		(Hz)	50/60								
	115V	(A)	7.2	7.2	9.8	16	20				
1-phase	230V	(A)	6.9	8	12	12	17				
1-pilase	115V	(hp)	1/3	1/3	1/2	1	1-1/2				
	230V	(hp)	3/4	1	2	2	3				
	208V	(A)	6.9	7.8	11	11	17.5				
	230V	(A)	6	9.6	9.6	15.2	22				
	460V	(A)	7.6	7.6	11	14	21				
3-phase	575V	(A)	6.1	9	9	11	17				
5-pilase	208V	(hp)	1-1/2	2	3	3	5				
	230V	(hp)	1-1/2	3	3	5	7-1/2				
	460V	(hp)	5	5	7-1/2	10	15				
	575V	(hp)	5	7-1/2	7-1/2	10	15				
Short circuit current rating (SCCR)	600V	(kA)	5	5	5	5	5				
Standards			IEC Ratings (IEC/EN 60947)								
Rated operating voltage		(V)			690						
Rated thermal current Ith	AC-1 ($\leq 55^{\circ}$ C)	(A)	18	20	22	22	32				
	AC-3 (U_e \leq 440V)	(A)	7	9	12	16	22				
Switching motor loads		(Hz)			50/60						
	220-240 V	(A)	7	9	12	16	22				
	380-400 V	(A)	7	9	12	16	22				
	415-440 V	(A)	7	9	12	16	22				
	500V	(A)	6.2	7.5	8.8	13	16				
3-phase	660-690 V	(A)	4.5	5.5	6.6	10	13				
o phase	220-240 V	(kW)	1.5	2.2	3	3.7	5.5				
	380-400 V	(kW)	3	3.7	5.5	7.5	11				
	415-440 V	(kW)	3.7	4.5	5.5	7.5	11				
	500V	(kW)	3.7	4.5	5.5	7.5	11				
	660-690 V	(kW)	3	3.7	5.5	7.5	11				

Control Circuit - Alternating Current (AC)											
Contactor part numbers			CWC07 CWC09 CWC012 CWC016 C								
Rated insulation voltage U	IEC/EN 60947-4-1, VDE 0660	(V)	1000								
(pollution degree 3)	UL, CSA	(V)			600						
	50Hz	(V)			10-550						
Coils rated voltage	60Hz	(V)			12-660						
	12-660										
				Coi	l operating li	mits					
Coil 60Hz	Pick up percent of voltage	(%)			40-76						
	Drop out percent of voltage	(%)			25-65						
Coil 50/60 Hz	Pick up percent of voltage	(%)			50-80						
	Drop out percent of voltage	(%)			20–60						
				Ave	rage consum	otion					
	Magnetic circuit closed	(VA)	2.5–3.5				10.8-13.2				
	Power factor	(cos φ)			0.32						
Coil 60Hz	Power dissipation per pole	(W)		-							
	Magnetic circuit closing	(VA)		72							
	Power factor	(cos φ)	0.85				0.93				
Coil 50/60 Hz	Magnetic circuit closed	(VA)	(VA) 2–3								
Coil 50/60 Hz	Magnetic circuit closing	(VA) 30									
Avorago timo	Closing NO contacts	(ms)	8–20			13–16					
Average time	Opening NO contacts	(ms)		6-	-13		13.5–17				

	Control Circuit - Direct Current (DC)										
Contactor part numbers			CWC07, CV	<i>VC09, CWC012, CWC016</i>							
Coil type			Standard	Low consumption	4P (2P/2R)						
Rated insulation voltage U	IEC/EN 60947-4-1, VDE 0660	(V)		1000							
(pollution degree 3)	UL, CSA	(V)		600							
Standard voltages		(V)	12–440								
			Coi	l operating limits							
Coil operating limite	Pick up percent of voltage	(%)	40–70								
Coil operating limits	Drop out percent of voltage	(%)	15–40								
			Po	wer consumption							
Rowar concumption	Magnetic circuit closed	(W)	2.6-3.7	1.7–2.7	2.9–4						
Power consumption	Magnetic circuit closing	(W)	2.6–3.7	1.7–2.7	2.9–4						
Closing NO contacts		(ms)		35–45							
Operation time	Opening NO contacts	(ms)	7–12								

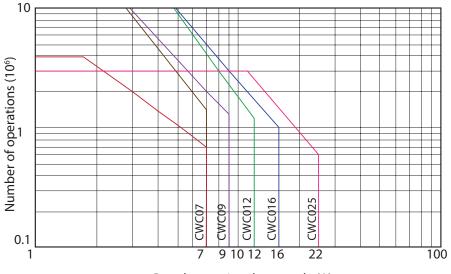
	CWC Series Minia	ature	Contactors	Power Circ	uit		
Contactor part numbers			CWC07	CWC09	<i>CWC012</i>	CWC016	CWC025
<u> </u>	AC-3 (U _e ≤ 440V)	(A)	7	9	12	16	22
Rated operational current le	$AC-4 (U_e \le 440V)$	(A)	2.8	3.5	4.5	5	9
	$AC-1 (\theta \le 55^{\circ}C, U_{e} \le 690V)$	(A)	18	20	22	22	32
	IEC/EN 60947-4-1, VDE 0660	(V)	10	20	690	22	52
Rated operational voltage U _®	UL, CSA ¹	(V)			600		
Rated thermal current Ith ($\Theta \leq \xi$		(V) (A)	18	20	22	22	32
Making capacity - IEC/EN 6094		(A)	70	90	120	160	250
making capacity - 120/21 0094	$(U_e \le 400V)$	(A)	50	72	96	128	200
Breaking capacity	$(U_e = 500V)$	(A)	50	72	96	128	200
IEC/EN 60947	$(U_e = 690V)$	(A)	35	54	72	96	150
	1 sec	(A)	250	250	250	250	-
	5 sec	(A)	125	125	125	125	
Short-time current	10 sec	(A) (A)	95	95	95	95	
(no current flowing during recovery time of 10 min	30 sec	(A) (A)	70	70	70	70	
and $\theta \leq 40^{\circ}$ C)			-	-	-	-	
	1 min	(A)	50	50	50	50	-
	3 min	(A)	40	40	40	40	-
Protection against	@ 600V - UL/CSA ¹	(kA)	05	05	5	25	50
short-circuits with fuses (IEC gL/gG) ² or UL Class CC	Coordination type 1	(A)	35	35	35	35	50
	Coordination type 2	(A)	20	20	25	25	35
Average impedance per pole		$(m\Omega)$	6	6	5	5	6
Average power dissipation per		(W)	1.9	2.4	2.4	2.4	6.1
pole	AC-3	(W)	0.3	0.5	0.7	1.3	3.8
				1	ation Categor	у АС-3	
Potod operational surrant l	$(U_e \le 440V)$	(A)	7	9	12	16	22
Rated operational current I.	$(U_e \le 500V)$	(A)	6.2	7.5	8.8	13	16
$\theta \leq 55^{\circ}C$	$(U_e \le 690V)$	(A)	4.5	5.5	6.6	10	13
	$(U_e \le 1000V)$	(A)			Not available	-	
	220/230 V	(kW)	1.5	2.2	3	3.7	5.5
	220/230 V	(hp)	2	3	4	5	7.5
	380V	(kW)	3	3.7	5.5	7.5	11
		(hp)	4	5	7.5	10	15
	400/415 V	(kW)	3	3.7	5.5	7.5	11
Rated operational power		(hp)	4	5	7.5	10	15
	440V	(kW)	3.7	4.5	5.5	7.5	11
		(hp)	5	6	7.5	10	15
	500V	(kW) (hp)	<u>3.7</u> 5	4.5 6	5.5	7.5	11 15
		(HP) (kW)	3	3.7	5.5	7.5	15
	660/690 V	(kvv) (hp)	4	5	7.5	10	15
	600 ops/hr	(%)	100	100	100	100	100
Maximum electrical	1200 ops/hr	(%)	75	75	75	75	75
operations per hour	3000 ops/hr	(%)	50	50	50	50	50
	1.000 000/11	(73)	00		ation Categor		00
Rated operational current le Al	C-4 (11, < 440 V)	(A)	2.8	3.5	4.5	5	9
		(KW)	0.55	0.75	0.75	1.1	2.2
	220/230 V	(hp)	0.33	1	1	1.5	2.9
	000//001/	(kW)	1.1	1.1	1.8	2.2	4
Rated operational power (200,000 operations)	380/400 V	(hp)	1.5	1.5	2.4	2.9	5.4
	4151/	(kW)	1.1	1.5	2.2	2.2	4.5
	415V	(hp)	1.5	2	2.9	2.9	6
	440V	(kW)	1.1	1.5	2.2	2.2	4.5
	4401	(hp)	1.5	2	2.9	2.9	6
		(kW)	1.1	1.5	2.2	2.2	4.5
	15000						
	500V	(hp)	1.5	2	2.9	2.9	6
	500V 660/690 V	(hp) (kW) (hp)	1.5 1.1 1.5	2 1.5 2	2.9 2.2 2.9	2.9 2.2 2.9	6 4.5 6

¹Note: Specifications only valid for 50/60 Hz three-phase, 4 poles WEG standard motors. ²Note: Not sold by Automation Direct.

Built-In Auxiliary Contacts Technical Characteristics								
Standards	IEC 60947-5-1, IEC 60947-4-1							
Rated insulation voltage U	IEC, VDE 0660	(V)	690					
(pollution degree 3)	UL, CSA	(V)	600					
Rated operational voltage U	IEC, VDE 0660	(V)	690					
naleu operational voltaye oe	UL, CSA	(V)	600					
Rated thermal current I the ($\Theta \leq$	55°C)	(A)	10					
Rated operational current I.								
	$U_e \leq 240V$	(A)	10					
	380–400 V	(A)	6					
AC-15 (IEC 60947-5-1)	415–440 V	(A)	6					
	500V	(A)	4					
	660–690 V	(A)	2					
		UL/CSA	A600					
	24V	(A)	6					
DC-13 (IEC 60947-5-1)	60V	(A)	2					
DC-13 (ILC 00947-3-1)	110V	(A)	1					
	220–240 V	(A)	0.3					
		UL/CSA	Q600					
Making capacity (rms)	Ue 400 V 50/60 Hz - AC-15	(A)	10 x le (AC-15)					
Breaking capacity (rms)	Ue 400 V 50/60 Hz - AC-15	(A)	10 x le (AC-15)					
Maximum IEC fuse class gL/ (short-circuit protection) gL/	(A)	10						
Control circuit reliability		(V/mA)	17/5					
Electrical endurance	(millions operations)		1					
Mechanical endurance		10						

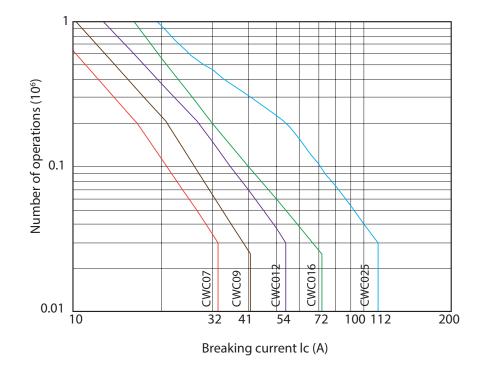
LIED CWC Series Miniature Contactors Electrical Durability

AC-3 ($U_e \le 440$ VAC)



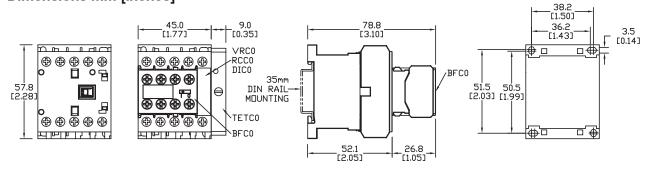
Rated operational current le (A)

AC-4 (U_e \leq 440VAC)

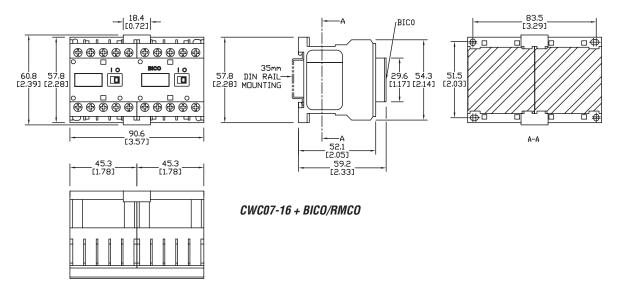


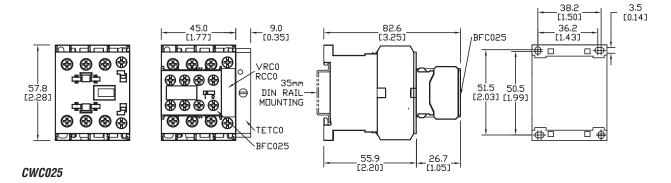
UPD CWC Series Miniature Contactors Dimensions

Dimensions mm [inches]

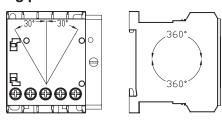


CWC07, CWC09, CWC012, CWC016 + VRC0/RCC0/DIC0





Mounting position for CWC miniature contactors



Front Mounting Auxiliary Contact Blocks

				Aux	iliary Co	ntact	Bloc <u>ks</u>			· · · · · · · · · · · · · · · · · · ·			
		21	Maximum # of Cor				2 Maximum # of Contacts						
Use		Contacts	Terminal	Part	Price				Terminal	Part	Price		
With	N.O. 2	N.С. 0	Markings 23 33 1 1 24 34	Number BFC0-20*		With	N.O. 2	N.C. 0	$ \begin{array}{c c} Markings \\ \hline 13 & 23 \\ \hline 1 & 1 \\ \hline 1 & 1 \\ 14 & 24 \end{array} $	Number BFC4-20*			
(9)	1	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFC0-11*			1	1	$\begin{array}{c c} 14 & 24 \\ \hline 13 & 21 \\ \hline 14 & 7 \\ \hline 14 & 22 \end{array}$	BFC4-11*			
Three-Pole Contactors (CWC07, CWC09, CWC012, CWC016)	0	2	$\begin{array}{ccc} 21 & 31 \\ \hline $	BFC0-02*		CWC016)	0	2	$\begin{array}{c c} 11 & 21 \\ \hline \\ \hline \\ \hline \\ 12 & 22 \end{array}$	BFC4-02*			
CW		41	Maximum # of Cor	ntacts		C09,		4 //	Aaximum # of Con	tacts			
07, CWC09,	4	0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFCO-40		CWCO7, CW	4	0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFC4-40			
tactors (CWC	2	2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFC0-22		Four-Pole Contactors (CWC07, CWC09, CWC016)	2	2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	BFC4-22			
ree-Pole Con	0	4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BFCO-04		Four-Pole	0	4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BFC4-04			
Th	3	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BFCO-31			3	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFC4-31			
	1	3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFCO-13			1	3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BFC4-13			
		21	Maximum # of Cor	ntacts		*Note	: Low consul	mption 12VD ntact blocks	C and 24VDC contactor	rs can only use	2-pole		
tactors	2	0	$\begin{array}{ccc} 23 & 33 \\ 1 & 1 \\ 24 & 34 \end{array}$	BFC025-20			auxinary CU						
Three-Pole Contactors CWC025	1	1	$\begin{array}{cccc} 23 & 31 \\ \hline 1 & 7 \\ \hline 24 & 32 \end{array}$	BFC025-11				C0-11		BFCO-	11		
Thi	0	2	$\begin{array}{cccc} 21 & 31 \\ \hline & & \\ \hline & & \\ 22 & 32 \end{array}$	BFC025-02				VIB BFC0-	24NO 32NC				

Auxiliary Contact Blocks Technical Specifications

Auxiliary Contacts BFC0/B	FC4/BFC025 Technic	al Spe	cifications				
Standards	IEC 60947-5-1, IE	EC 60947-	-4-1				
Rated insulation voltage U	IEC, VDE 0660	(V)	1000				
(pollution degree 3)	UL, CSA	(V)	600				
Poted anarational valtage II	IEC, VDE 0660	(V)	690				
Rated operational voltage U _e							
Rated thermal current Im ($\Theta \leq$	10						
Making capacity (rms)	Ue 400V 50/60 Hz - AC-15	(A)	30				
Breaking capacity (rms)	U₀ 400V 50/60 Hz - AC-15	(A)	3				
Maximum IEC fuse class gL/g (short-circuit protection)	G without welding	(A)	10				
Minimum switching capacity		(V/mA)	17/5				
Electrical endurance	cal endurance (millions operations) 1						
Mechanical endurance	(milions operations)		10				

	AC Auxiliary Contact Block Ratings UL/CSA										
Contact Thermal Maximum Current (A)									Maximum Apparent		
Rating Code		12	OV	24	IOV	48	ROV	60	IOV	Power (VA)	
Designation	Current (A)	Make	Break	Make	Break	Make	Break	Make	Break	Make	Break
A600	10	60	6	30	3	15	1.5	12	1.2	7200	720
C600	2.5	15	1.5	7.5	0.75	3.75	0.375	3	0.3	1800	180

	DC Auxiliary Contact Block Ratings UL/CSA									
Contact Rating Code	Thermal Continuous			Maximum Make or Break Apparent						
Designation	Current (A)	125V	250V	Power (VA)						
Q600	2.5	0.55	0.27	69						
R300	1	0.22	0.11	28						

Terminals Capacity and Tightening Torque – Power, Control Circuits, and Auxiliary Contact Blocks



Terminals Capacity and Tightening Torque - Power, Control Circuits and Auxiliary Contact Blocks							
Terminal Type		CWCU	1716	CW	C025	BFCO/BFC4/BFC025	
		Main Contacts	Auxiliary Contacts	Main Contacts	Auxiliary Contacts	Auxiliary Contacts	
Solid cable	mm ²	1x 0.5–2.5	2x 0.5–2.5	1x 0.5–2.5	2x 0.5–2.5	-	
Sullu cable	11111-	2x 0.5–2.5	2X 0.3-2.5	2x 0.5–2.5	1x 4	-	
Cable without ferrule	mm ²	1x 0.75–2.5	2x 0.5–2.6	2x 1–2.5	1x 0.75–2.5	1x 0.75–4	
	111112	2x 0.75–2.5	2X 0.3-2.0	2x 2.5–6	2x 0.75–2.5	2x 0.75–2.5	
	mm ²	1x 2.5		2x 1–2.5	1x 0.5–2.5	1x 0.5–4	
Cable with ferrule	11111-	2x 2.5	_	2x 2.5–6	2x 0.5–2.5	2x 0.5–2.5	
Wire gauge	AWG	1 or 2x 18–12	22–14	1 or 2x 18–10	22–14	22–14	
Terminal screws		M3 flat/philips	M3.5 flat/philips	M3 flat/philips	M3.5 flat/philips	M3.5 flat/philips	
Tightening torque	N∙m [lb∙in]	1–1.5 [8.85–13.28]	1–1.7 [8.85–15.05]	1.4–1.7 [12.39–15.05]	1–1.5 [8.85–13.28]	0.8–1.5 [7.08–13.28]	

Surge Suppressors

Surge Suppressors								
Part Number	Price	Circuit Diagram	Voltage	Max. Clamping Voltage @ Current (lp)	For Use With			
RCC0-1D49			12-24 VAC 50/60 Hz					
RCC0-2D53		A1	24-48 VAC 50/60 Hz	- N/A	RC Resistor/ Capacitor AC Loads (The capacitor is used to absorb the voltage spike)	CWC07 CWC09 CWC012 CWC016 CWC025		
RCC0-3D55			50-127 VAC 50/60 Hz					
RCC0-4D63			130-250 VAC 50/60 Hz					
<i>RCC0-5D84</i>		A2	275-380 VAC 50/60 Hz					
RCC0-6D73			400-510 VAC 50/60 Hz					
VRC0-1E49			12-48 VAC 50/60 Hz / 12-60 VDC	135V @ 10A	MOV			
VRCO-2E34			50-127 VAC 50/60 Hz / 60-180 VDC	395V @ 10A 710V @ 10A	Varistor AC or DC Loads The voltage surge is limited to 3 times the voltage rating of			
VRCO-3E50			130-250 VAC 50/60 Hz / 180-300 VDC					
VRCO-4E41			277-380 VAC 50/60 Hz / 300-510 VDC	650V @ 10A	the suppressor (300% of the rated coil voltage).			
VRC0-5D73			400-510 VAC 50/60 Hz	775V @ 10A	Clamps voltage			
DICO-1C33			12-600 VDC (1N4007)	N/A	Diode DC Loads The diode allows the reminiscent current to flow from a DC coil very smoothly and avoids an increase in voltage through the coil. Flyback suppression	CWC07 CWC09 CWC012 CWC016		



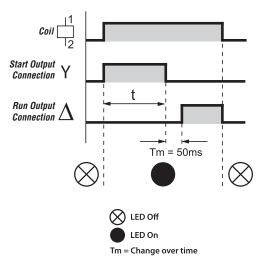
RCC0-5D84

Electronic Timing Relays (cwco7...cwco25)

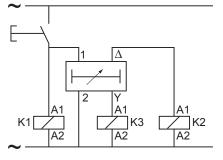
Star-Delta (TETCO) with LED Status Indication								
Part Number Price Voltage Timing Function								
TETCO-U030S-D52		24-28 VDC 50/60 Hz						
TETCO-U030S-D61		110-130 VDC 50/60 Hz	3 to 30 seconds	Star-Delta				
TETCO-U030S-D66		220-240 VDC 50/60 Hz						
Note: Right side mounting								



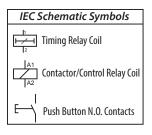
TETCO-U030S-XXX



Timing Diagram



IEC Wiring Diagram

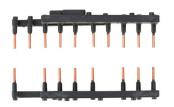


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Wiring Kits (Jumper Assemblies)

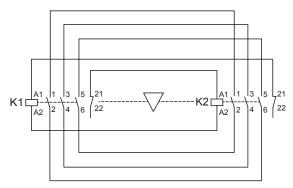
- Quick and easy assembly for wye-delta and reversing starters
- Allows assembly of WEG overload relay RW17D

Reversing Wiring Kit for Mini Contactors CWC07 to CWC016										
Part Number	Price	Max Rated Operational Power of Three-Phase Motors 50/60 Hz kW [hp]						Rated Operational Current I _® AC-3	Mini Contactors	
Number		220V 230V	380V	400V 415V	440V	500V	660V 690V	(U $_{e} \leq 440V$)	K1 = K2	
		1.5 [2]	3 [4]	3 [4]	3.7 [5]	3.7 [5]	3 [4]	7	CW	C07
ECCO-R		2.2 [3] 4 [5.4]		4 [5.4]	4.5 [6]	4.5 [6]	4 [5.4]	9	CWC09	
E000-N		3 [4]	3 [4] 5.5 [7.5] 5.5 [7		5.5 [7.5]] 5.5 [7.5] 5.5 [7.5]		12	CWC012	
		4 [5.4] 7.5 [10]		7.5 [10]	7.5 [10]	7.5 [10]	7.5 [10]	16	CWC016	
	Star-Delta Wiring Kit for Mini Contactors CWC07 to CWC016									
Part Number	Price		Max Rat Three-	Phase N	rational (Notors 5 [hp]	f	Rated Operational Current I _® AC-3	Mini Contactors		
		220-	230 V	400-	415 V	660-	690 V	$(U_e \leq 440V)$	K1 = K2	K3
		3.7	[5]	5.5	[7.5]	5.5	[7.5]	12	CWC07	CWC07
ECCO-SD		3.7	[5]	7.5	[10]	9.2 [12.5]	18	CWC012	0000/
		5.5	[7.5]	11	[15]	15	[20]	25	CWC016	CWC09

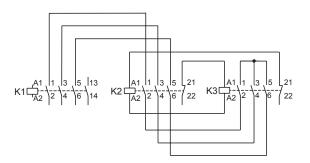




ECC0-R Wiring Diagram



ECC0-SD Wiring Diagram



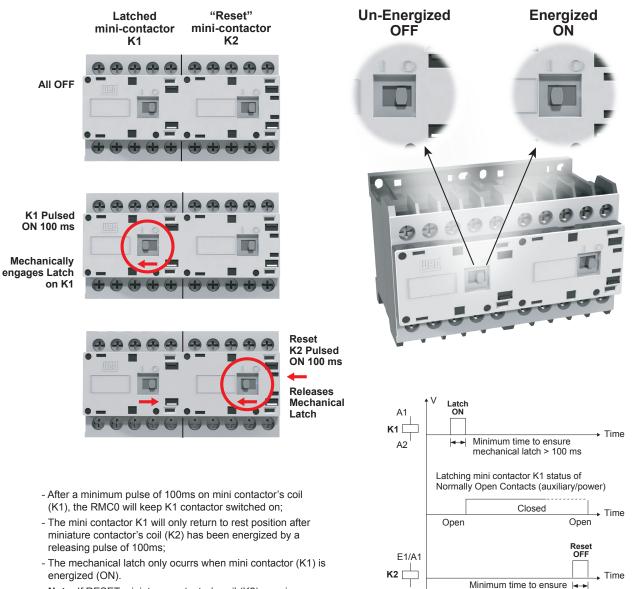
Mechanical Interlock Block and Latch Block

Mechanical Interlock Block and Latch Block						
Part Number	Part Number Price Description					
BICO		Mechanical interlock, front mounted, use with any CWC07 through CWC016 series miniature contactor. Mechanically connects two CWC series mini contactors and prevents both contactors from being pulled in at the same time. For reversing contactors.	CWC07 CWC09			
RMCO		Latch block, front mounted, use with any CWC07 through CWC016 series miniature contactor. Mechanically connects two CWC series mini contactors and enables one contactor to operate with a pulse input signal. Retention block for contactor.				



Note: Do not use BICO or RMCO accessory with mini contactors with low consumption DC coils.

Operation Description of Latched Block RMCO



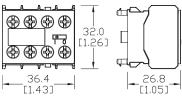
E2/A2

Note: If RESET miniature contactor's coil (K2) remains energized, the latching of mini contactor (K1) is not enabled.

mechanical release > 100 ms

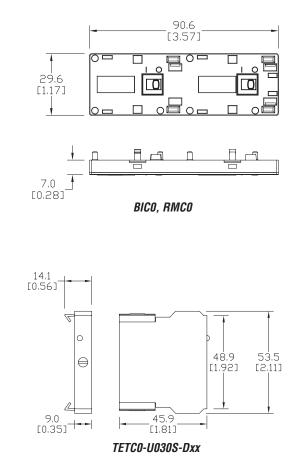
LIED CWC Series Miniature Contactors Accessories - Dimensions

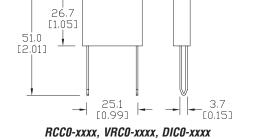
Dimensions mm [in]



BFCO-xx, BFC4-xx, BFC025-xx

29.2 [1.15] - ^{8,2} [0,32]





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