

## CWB Line

Developed according to IEC 60947 and UL 508 international standards, the new WEG CWB line of contactors meets the requirements of a wide range of industrial applications. The CWBs are designed with the visual pattern and identity of WEG, a brand recognized worldwide for its quality.

### Standard Features

- “Zero-Width” Mechanical Interlock
- Simple and Compact Mounting of Surge Suppressor Blocks
- Contactor Coil Operated on AC or DC
- Simple and Organized Control Circuits
- Additional Contact Blocks
- Easy Access Power and Control Terminals



### CWB Contactor Catalog Number Sequence

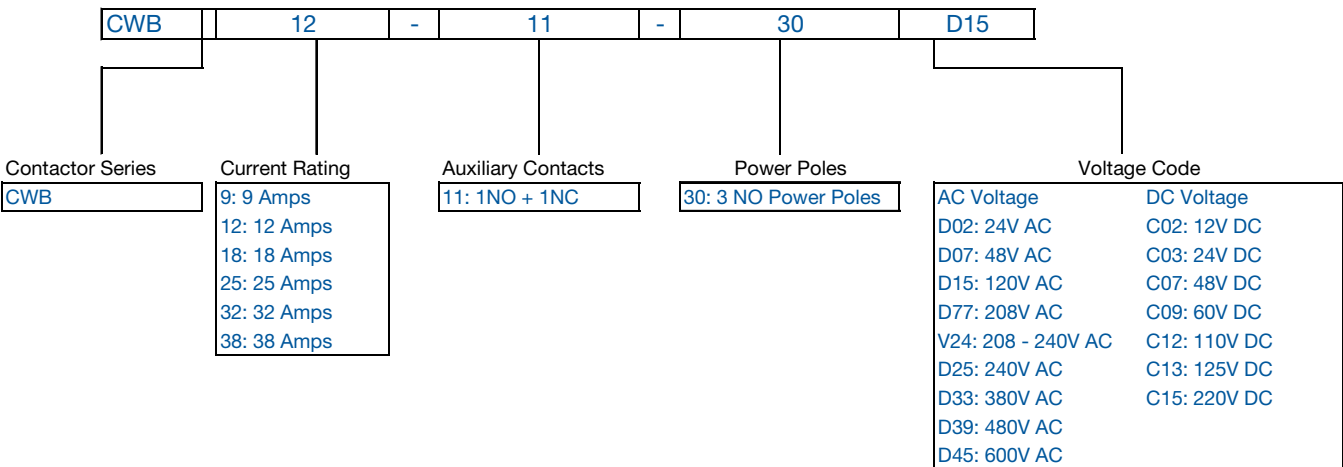


Table intended as reference only and not to create part numbers.

- General Information
- Circuit Protection
- Disconnect Switches
- Motor Protectors
- Contactors
- Overloads
- Enclosed Starters
- Relays
- Pushbuttons and Pilot Lights
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## CWB Series

### Selection Table

#### Three-Pole CWB Contactors from 9 up to 38 A (AC-3)

le máx. (Ue ≤440 V)	le = Ith (Ue ≤690 V) θ ≤55 °C	Maximum UL Horsepower						Built-in auxiliary contacts per contactor		Catalog Number	List Price AC Coil	List Price DC Coil	Multiplier
		Single Phase		Three Phase									
		115V	230V	200V	230V	480V	575V						
AC-3 A	AC-1 A												
9	25	3/4	1.5	3	3	5	7 1/2	1	1	CWB9-11-30 ♦	\$72	\$118	Z1
12	25	3/4	2	3	3	7 1/2	10	1	1	CWB12-11-30 ♦	\$89	\$123	
18	32	1	3	5	5	10	15	1	1	CWB18-11-30 ♦	\$103	\$150	
25	40	2	5	7 1/2	7 1/2	15	15	1	1	CWB25-11-30 ♦	\$118	\$177	
32	50	3	5	10	10	20	25	1	1	CWB32-11-30 ♦	\$140	\$220	
38	50	3	7.5	10	10	25	25	1	1	CWB38-11-30 ♦	\$164	\$282	

Note: to complete the Part Number, replace "♦" by the appropriate coil voltage code.

Coil voltage code	D02	D07	D15	D77	D25	D33	D39	D45	V24
V (50/60 Hz)	24	48	120	208	240	380	480	600	208-240v

Coil voltage code	C02	C03	C07	C09	C12	C13	C15
V dc	12	24	48	60	110	125	220

Note: other coil voltages available upon request.

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### Accessories and Spare Parts

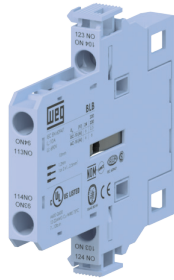
#### Front Mounted Auxiliary Contact Blocks<sup>4)</sup>



.063 kg

For use with	Max. n° of additional contacts / contactor	Auxiliary contacts		Catalog Number	List Price	Multiplier
		NO	NC			
CWB9...38	4 / CWB9...38	1	1	<b>BFB-11<sup>1)</sup></b>	<b>\$20</b>	Z1
		2	0	<b>BFB-20</b>	<b>\$20</b>	
		0	2	<b>BFB-02<sup>1)</sup></b>	<b>\$20</b>	
		2	2	<b>BFB-22<sup>1)</sup></b>	<b>\$32</b>	
		2	2	<b>BFB-22 EL<sup>3)</sup></b>	<b>\$32</b>	
		4	0	<b>BFB-40</b>	<b>\$32</b>	
		0	4	<b>BFB-04<sup>1)</sup></b>	<b>\$32</b>	
		3	1	<b>BFB-31<sup>1)</sup></b>	<b>\$32</b>	
		1	3	<b>BFB-13<sup>1)</sup></b>	<b>\$32</b>	

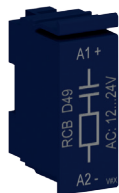
#### Side Mounted Auxiliary Contact Blocks<sup>4)</sup>



.034 kg

For use with	Max. n° of additional contacts / contactor	Auxiliary contacts		Catalog Number	List Price	Multiplier
		NO	NC			
CWB9...38	4 / CWB9...38	1	1	<b>BLB-11<sup>1)</sup></b>	<b>\$22</b>	Z1
		2	0	<b>BLB-20</b>		
		0	2	<b>BLB-02<sup>1)</sup></b>		
		1	1	<b>BLRB-11<sup>1)2)</sup></b>		
		2	0	<b>BLRB-20<sup>2)</sup></b>		
		0	2	<b>BLRB-02<sup>1)2)</sup></b>		

#### Plug-In Surge Suppressors



.008 kg

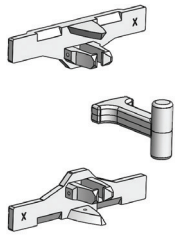
For use with	Voltage	Diagram	Catalog Number	List Price	Multiplier	
CWB9...38	24...48 V 50/60 Hz		<b>RCB-D53</b>	<b>\$30</b>	Z1	
	50...127 V 50/60 Hz		<b>RCB-D55</b>			
	130...250 V 50/60 Hz		<b>RCB-D63</b>			
	12...48 V 50/60 Hz / 12...60 V dc		<b>VRB-E49</b>			
	50...127 V 50/60 Hz / 60...180 V dc		<b>VRB-E34</b>			
	130...250 V 50/60 Hz / 180...300 V dc		<b>VRB-E50</b>			
	277...380 V 50/60 Hz / 300...510 V dc		<b>VRB-E41</b>			
	400...510 V 50/60 Hz		<b>VRB-D73</b>			
	12...600 V dc					<b>DIB-C33</b>
	12...250 V dc					<b>DIZB-C26</b>

Notes: 1) The arrangement of the contacts meets IEC 60947-4-1 Annex F (Mirror Contact) and IEC 60947-5-1 Annex L (Mechanically Linked Contact) requirements.  
 2) For combination of 2 side-mounted auxiliary contact blocks at the same side of the contactor.  
 3) BFB-22-EL: besides the regular contacts NO and NC, there are two special contacts: early make and late break.  
 4) The maximum number of auxiliary contacts assembled on the contactor are 4.

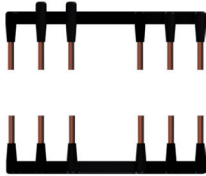
## CWB Series

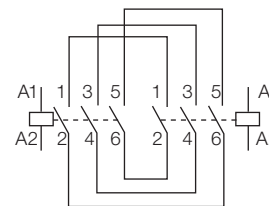
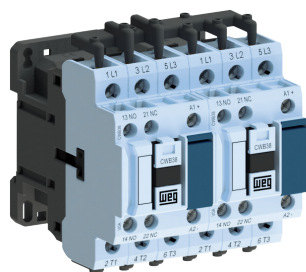
### Accessories and Spare Parts

#### Mechanical Interlock Kit

	For use with	Description	Catalog Number	List Price	Multiplier
.004 kg	CWB9...38	Kit for mechanical interlock between two contactors of the CWB line with no additional side space.  Contains: 1 interlock unit + 2 fixing clips.  <i>Note: it is not possible to interlock one contactor with AC coil with another with DC coil.</i>	<b>IM1</b>	<b>\$12</b>	Z1

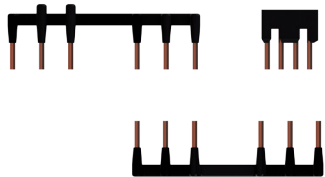
#### Easy Connection Busbars for Reversing Starters

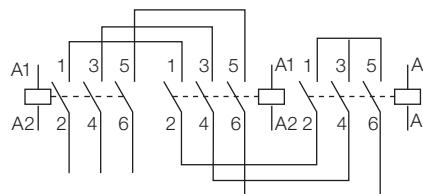
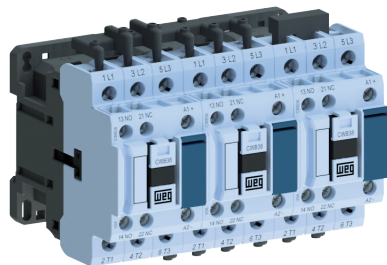
	For use with	Maximum rated operational power (AC-3) 3-phase motors - IV-poles - 50/60 Hz - 1800 rpm			Catalog Number	List Price	Multiplier
	K1 = K2	220 / 240 V kW / HP	380 / 400 V kW / HP	415 / 440 V kW / HP			
.042 kg	CWB9	2.2 / 3	3.7 / 5	4.5 / 6	<b>EC-R1</b>	<b>\$60</b>	Z1
	CWB12	3 / 4	5.5 / 7.5	5.5 / 7.5			
	CWB18	4.5 / 6	7.5 / 10	9.2 / 12.5			
	CWB25	5.5 / 7.5	11 / 15	11 / 15			
	CWB32	7.5 / 10	15 / 20	15 / 20			
	CWB38	9.2 / 12.5	18.5 / 25	18.5 / 25			



Circuit diagram

#### Easy Connection Busbars for Star-Delta Starters

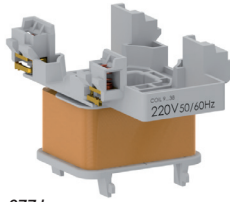
	For use with		Maximum rated operational power (AC-3) 3-phase motors - IV-poles - 50/60 Hz - 1800 rpm			Catalog Number	List Price	Multiplier
	K1 = K2	K3	220 / 240 V kW / HP	380 / 400 V kW / HP	415 / 440 V kW / HP			
.046 kg	CWB9	CWB9	3.7 / 5	7.5 / 10	7.5 / 10	<b>EC-SD1</b>	<b>\$75</b>	Z1
	CWB12	CWB9	5.5 / 7.5	9.2 / 12.5	11 / 15			
	CWB18	CWB9	7.5 / 10	11 / 15	11 / 15			
	CWB18	CWB12	9.2 / 12.5	15 / 20	15 / 20			
	CWB25	CWB18	11 / 15	22 / 30	22 / 30			
	CWB32	CWB18	15 / 20	22 / 30	30 / 40			
CWB38	CWB25	18.5 / 25	30 / 40	37 / 50				



Circuit diagram

### Accessories and Spare Parts

#### Individual Spare Coil for Contactors<sup>1)</sup>

 .077 kg	For use with	Control	Catalog Number	List Price	Multiplier
		CWB9...38	AC 50/60 Hz	BRB-38 ♦	\$22

Note: 1) Spare DC coils not available.

To complete the Part Number, replace “♦” by the appropriate coil voltage code.

#### Alternating Current

Coil voltage code	D02	D07	D13	D15	D17	D77	D23	D24	D25	D33	D34	D35	D36	D39	D45
V (50/60 Hz)	24	48	110	120	127	208	220	230	240	380	400	415	440	480	600

Note: other coil voltages available upon request.

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#### Terminal Markings According to EN 50005 and EN 50012

Diagram	Aux Contact Type	NO	NC	Catalog Number
3-pole contactors with built-in auxiliary contacts				
	11	1	1	CWB9...CWB38
Front mounted auxiliary contact blocks				
	20	2	0	BFB-20
	11	1	1	BFB-11
	02	0	2	BFB-02
	40	4	0	BFB-40
	22	2	2	BFB-22
	04	0	4	BFB-04
	31	3	1	BFB-31
	13	1	3	BFB-13

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Diagram	Aux Contact Type	NO	NC	Catalog Number
	11	1	1	BLB-11
	20	2	0	BLB-20
	02	2	0	BLB-02
	11	1	1	BLRB-11
	20	2	0	BLRB-20
	02	2	0	BLRB-02

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Reference code	CWB9						CWB12		CWB18		CWB25		CWB32		CWB38	
Standards	IEC 60947-1, IEC 60947-4-1, IEC 60947-5-1, UL 508															
Rated insulation voltage $U_i$ (pollution degree 3)	IEC 60947-4-1		(V)		690 V											
	UL, CSA		(V)		600 V											
Rated impulse withstand voltage $U_{imp}$	IEC 60947-1		(kV)		6 kV											
Rated operational frequency			(Hz)		25...400											
Mechanical lifespan	AC coil		(million cycles)		10											
	DC coil		(million cycles)		10											
Electrical lifespan	Ie AC-3		(million cycles)		1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Degree of protection (IEC 60529)	Main circuit				IP20 (front)											
	Control circuit and auxiliary contacts				IP20 (front)											
Mounting					By screws or DIN 35 mm rail (EN 50022)											
Number of coil terminals	AC operated contactors				2											
	DC operated contactors				2											
Vibration resistance (IEC 60068-2-6)	Open contactor		(g)		4											
	Closed contactor at $U_c$		(g)		4											
Shock resistance (½ sine wave = 11ms - IEC 60068-2-27)	Open contactor		(g)		10						10					
	Closed contactor at $U_c$		(g)		15						15					
Ambient temperature	Operating				-25 °C...+55 °C											
	Storage				-55 °C...+80 °C											
Altitude - rated values up to <sup>1)</sup>					3000 m											

#### Control Circuit - Alternating Current (AC)

Reference code	CWB9...38					
Rated insulation voltage $U_i$ (pollution degree 3)	IEC 60947-4-1		(V)		1000	
	UL, CSA		(V)		600	
Standard coil voltages 50/60 Hz			(V)		12...600	
Coil operating limits					up to 0.8 for 50 Hz / up to 0.85 for 60 Hz	
Coil 50/60 Hz	Pick up		(xUs)		0.3...0.6	
	Drop out		(xUs)			
Power consumption					60 Hz operation	
	Sealing		(VA)		7.5	
Coil 50/60 Hz	Power factor		(cos φ)		0.75	
	Pick up		(VA)		75	
Operation time	(Normally open) contact closing		(ms)		15...25	
	(Normally open) contact opening		(ms)		8...12	
Thermal power dissipation 50/60 Hz			(W)		5...7	

#### Control Circuit - Direct Current (DC)

Reference code	CWB9...38					
Rated insulation voltage $U_i$ (pollution degree 3)	IEC 60947-4-1		(V)		1000	
	UL, CSA		(V)		600	
Standard coil voltages 50/60 Hz			(V)		12...500	
Coil operating limits					up to 0.8	
Power consumption	Pick up		(xUs)		0.2...0.6	
	Drop out		(xUs)			
Power consumption					For 1.0 x Us and cold coil	
	Sealing		(W)		5.8	
Operation time	Pick up		(W)		5.8	
	(Normally open) contact closing		(ms)		35...45	
Average thermal power dissipation	(Normally open) contact opening		(ms)		8...12	
			(W)		5.8	

Note: 1) For site altitudes of 3000 to 4000 m, the adjustment factors are (0.90 x Ie and 0.80 x Ui) and for site altitudes of 4000 to 5000 m, the adjustment factors are (0.80 x Ie and 0.75 x Ui).



### Technical Data

#### Main Contacts

Reference code		CWB9	CWB12	CWB18	CWB25	CWB32	CWB38	
Rated operational current Ie	AC-3 (Ue ≤440 V)	(A)	9	12	18	25	32	38
	AC-4 (Ue ≤440 V)	(A)	4.4	5.8	8.5	10.4	13.7	13.7
	AC-1 (θ ≤55 °C, Ue ≤690 V)	(A)	25	25	32	40	50	50
Rated operational voltage Ue	IEC 60947-4-1	(V)	690					
	UL, CSA	(V)	600					
Rated thermal current Ith (θ ≤55 °C)		(A)	25	25	32	40	50	50
Making capacity - IEC 60947		(A)	250	250	300	450	550	550
Breaking capacity IEC 60947	Ue ≤440 V	(A)	250	250	300	450	550	550
	Ue = 500 V	(A)	220	220	250	350	450	450
	Ue = 690 V	(A)	150	150	180	250	350	350
Short-time current (no current flowing during recovery time of 15min and θ ≤40 °C)	1s	(A)	210	210	240	380	400	430
	10s	(A)	105	105	145	240	260	310
	1min	(A)	61	61	84	120	138	150
	10min	(A)	30	30	40	50	60	60
Protection against short-circuits with fuses (g/L/gG)	@600 V - UL/CSA	(kA)	5					
	Coordination type 1	(A)	20	25	35	40	63	63
Impedance per pole		(mΩ)	2.5	2.5	2.5	2	2	2
Power dissipation per pole	AC-1	(W)	1.5	1.5	2.5	3.2	5	5
	AC-3	(W)	0.2	0.4	0.8	1.2	2	3
<b>Utilization category AC-3</b>								
Rated operational current Ie AC-3	Ue ≤440 V	(A)	9	12	18	25	32	38
	Ue ≤500 V	(A)	7.9	11	15.8	23	28.5	28.5
	Ue ≤690 V	(A)	7	9	12	16.5	21	21
Orientative rated operational power of three-phase motors 50/60 Hz IV poles - 1800 rpm	220 / 240 V	(kW)	2.2	3	4.5	5.5	7.5	9.2
		(HP)	3	4	6	7.5	10	12.5
	380 / 400 V	(kW)	3.7	5.5	7.5	11	15	18.5
		(HP)	5	7.5	10	15	20	25
	415 / 440 V	(kW)	4.5	5.5	9.2	11	15	18.5
		(HP)	6	7.5	12.5	15	20	25
	500 V	(kW)	5.5	7.5	9.2	15	18.5	18.5
		(HP)	7.5	10	12.5	20	25	25
	660 / 690 V	(kW)	5.5	7.5	11	15	18.5	18.5
		(HP)	7.5	10	15	20	25	25
<b>Utilization category AC-4</b>								
Rated operational current Ie AC-4	Ue ≤440 V	(A)	4.4	5.8	8.5	10.4	13.7	13.7
	Ue ≤500 V	(A)	3.9	5.1	7.5	12	13.9	13.9
	Ue ≤690 V	(A)	2.8	3.7	5.4	12	12.8	12.8
Orientative rated operational power of three-phase motors 50/60 Hz IV poles - 1800 rpm (200000 cycles)	220 / 240 V	(kW)	1.5	1.5	2.2	3	3.7	3.7
		(HP)	2	2	3	4	5	5
	380 / 400 V	(kW)	2.2	3.7	3.7	5.5	7.5	7.5
		(HP)	3	5	5	7.5	10	10
	415 / 440 V	(kW)	2.2	3	3.7	5.5	7.5	7.5
		(HP)	3	4	5	7.5	10	10
	500 V	(kW)	2.2	3	5.5	7.5	9.2	9.2
		(HP)	3	4	7.5	10	12.5	12.5
	660 / 690 V	(kW)	2.2	3	5.5	9.2	11	11
		(HP)	3	4	7.5	12.5	15	15

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## CWB Series

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#### Main Contacts

Reference code		CWB9	CWB12	CWB18	CWB25	CWB32	CWB38
Utilization category AC-1							
Conventional thermal current Ith ( $\theta \leq 55^\circ\text{C}$ )	(A)	25	25	32	40	50	50
Rated operational current	$\theta \leq 60^\circ\text{C}$ ( $U_e \leq 690\text{ V}$ )	(A)	25	25	32	40	50
	220 / 240 V	(kW)	9.5	9.5	12	15	19
Max. operational power $\theta \leq 55^\circ\text{C}$ (three-phase resistors)	380 / 400 V	(kW)	16.5	16.5	21	26	33
	415 / 440 V	(kW)	19	19	24.5	30.5	38
	500 V	(kW)	21.5	21.5	27.5	34.5	43
Current values for connection of	660 / 690 V	(kW)	28.5	28.5	36.5	45.5	57
	2 poles in parallel		le x 1.7				
	3 poles in parallel		le x 2.4				
Percentage of maximum operational current	4 poles in parallel		le x 3.2				
	600 ops./h	(%)	100	100	100	100	100

#### Auxiliary Contacts

Reference code		CWB9...38 (built-in)	BFB (front mounted)	BLB (side mounted)
Standards		IEC 60947-5-1		
Rated insulation voltage $U_i$ (pollution degree 3)	IEC 60947-4-1	(V)	1000	
	UL, CSA	(V)	600	
Rated operational voltage $U_e$	IEC 60947-4-1	(V)	690	
	UL, CSA	(V)	600	
Conventional thermal current Ith ( $\theta \leq 55^\circ\text{C}$ )	(A)	10		
Rated operational current $I_e$	220 / 230 V	(A)	10	
	380 / 440 V	(A)	4	
	500 V	(A)	2.5	
	660 / 690 V	(A)	1.5	
	AC-15 (IEC 60947-5-1)		1.5	
DC-13 (IEC 60947-5-1)	24 V	(A)	4	
	48 V	(A)	2	
	110 V	(A)	0.7	
	220 V	(A)	0.3	
	440 V	(A)	0.15	
	600 V	(A)	0.1	
Making capacity	$U_e \leq 690\text{ V}$ 50/60 Hz - AC-15	(A)	10 x $I_e$	
Breaking capacity	$U_e \leq 400\text{ V}$ 50/60 Hz - AC-15	(A)	1 x $I_e$	
Short-circuit protection max. fuse (gL/gG)		(A)	10	
Control circuit reliability		(V / mA)	17 / 5	
Electrical lifespan		(million cycles)	1	
Mechanical lifespan		(million cycles)	10	
Non-overlapping time between NO and NC contacts		(ms)	1.5	
Impedance per pole		(m $\Omega$ )	2.5	

### Main Contacts

Reference code			CWB9	CWB12	CWB18	CWB25	CWB32	CWB38
Horsepower ~ 1Ø	110-120 V	(HP)	0.75	0.75	1	2	3	3
	220-240 V	(HP)	1.5	2	3	5	5	7.5
Horsepower ~ 3Ø	200 V	(HP)	3	3	5	7.5	10	10
	230 V	(HP)	3	3	5	7.5	10	10
	460 V	(HP)	5	7.5	10	15	20	25
	575 V	(HP)	7.5	10	15	15	25	25
Short-circuit rating	5 kA - 600 V							
General purpose for 600 V			25	25	32	40	50	50
Coil ratings	12 V ac to 600 V ac, 50/60 Hz							
12 - 500 V dc								

### NEMA Ratings

Reference code			CWB9	CWB18	CWB32
NEMA size			00	0	1
Horsepower ~ 3Ø Normal starting duty <sup>1)</sup>	200 V	(HP)	1.5	3	7.5
	230 V	(HP)	1.5	3	7.5
	460 V	(HP)	2	5	10
	575 V	(HP)	2	5	10

Note: 1) When operation requires jogging (inching) or plugging or when normal operation requires continued operation in excess of 5 operations per minute, the Normal Starting Duty horsepower ratings are not applied.

### Terminal Capacity and Tightening Torque

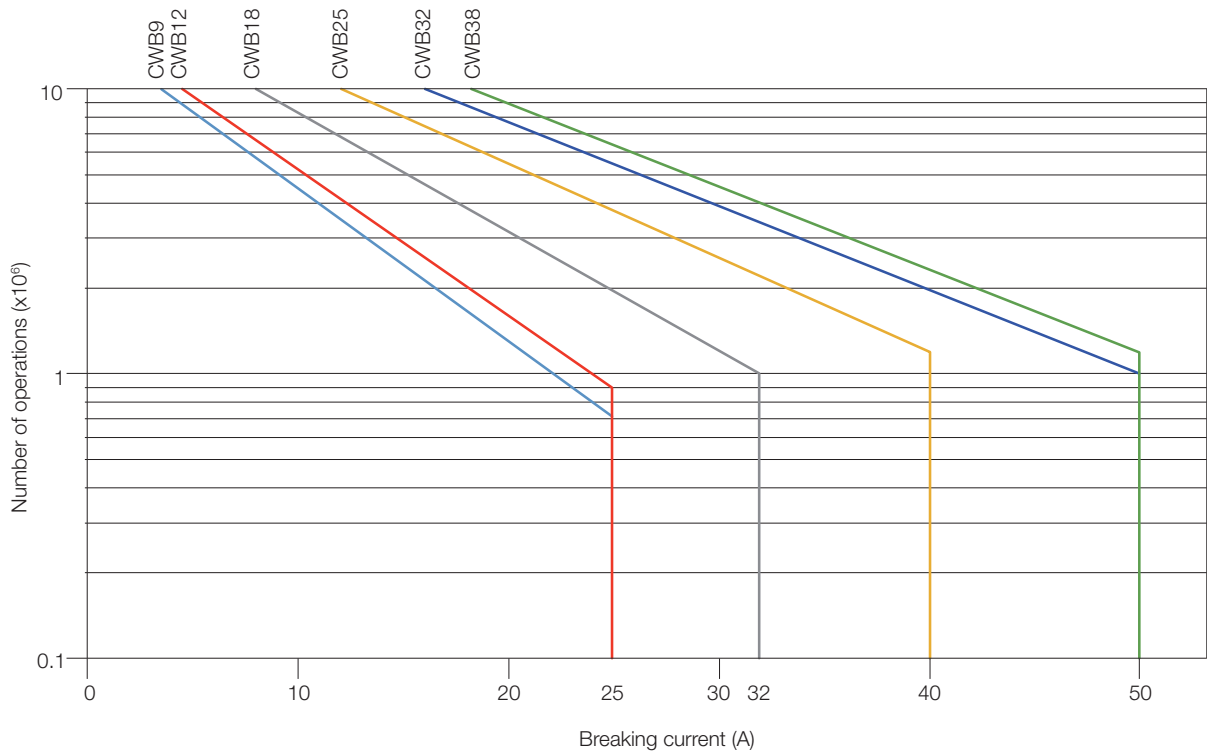
Reference code			CWB9 - CWB18		CWB25 - CWB38	
Conductors	Connection	Number of conductors	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG
Control and auxiliary circuits		1	1...4	16...12	1...4	16...12
		2	1...2.5	16...14	1...2.5	16...14
		1	1...4	16...12	1...4	16...12
		2	1...4	16...12	1...4	16...12
		1	1...4	16...12	1...4	16...12
		2	1...4	16...12	1...4	16...12
Terminal screw	M4 Flat/Philips					
Power circuit		1	1...6	16...10	1.5...10	16...8
		2	1...4	16...12	1.5...6	16...10
		1	1...6	16...10	2.5...10	14...8
		2	1...6	16...10	2.5...10	14...8
		1	1...6	16...10	2.5...10	14...8
		2	1...6	16...10	2.5...10	14...8
Terminal screw	M3.5 Flat/Philips					
<b>Tightening torque (N.m / (lb.in))</b>						
Power circuit				1.7 / (15)		2.5 / (22)

Reference code			BFB (front mounted)		BLB (side mounted)	
Conductors	Connection	Number of conductors	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG
Auxiliary contact blocks		1	1...2.5	16...14	1...2.5	16...14
		2	1...2.5	16...14	1...2.5	16...14
		1	1...2.5	16...14	1...2.5	16...14
		2	1...2.5	16...14	1...2.5	16...14
		1	1...2.5	16...14	1...2.5	16...14
		2	1...2.5	16...14	1...1.5	16
Terminal screw	M3.5 Flat/Philips					
<b>Tightening torque (N.m / (lb.in))</b>						
Auxillary circuit				1 / (8.8)		1 / (8.8)

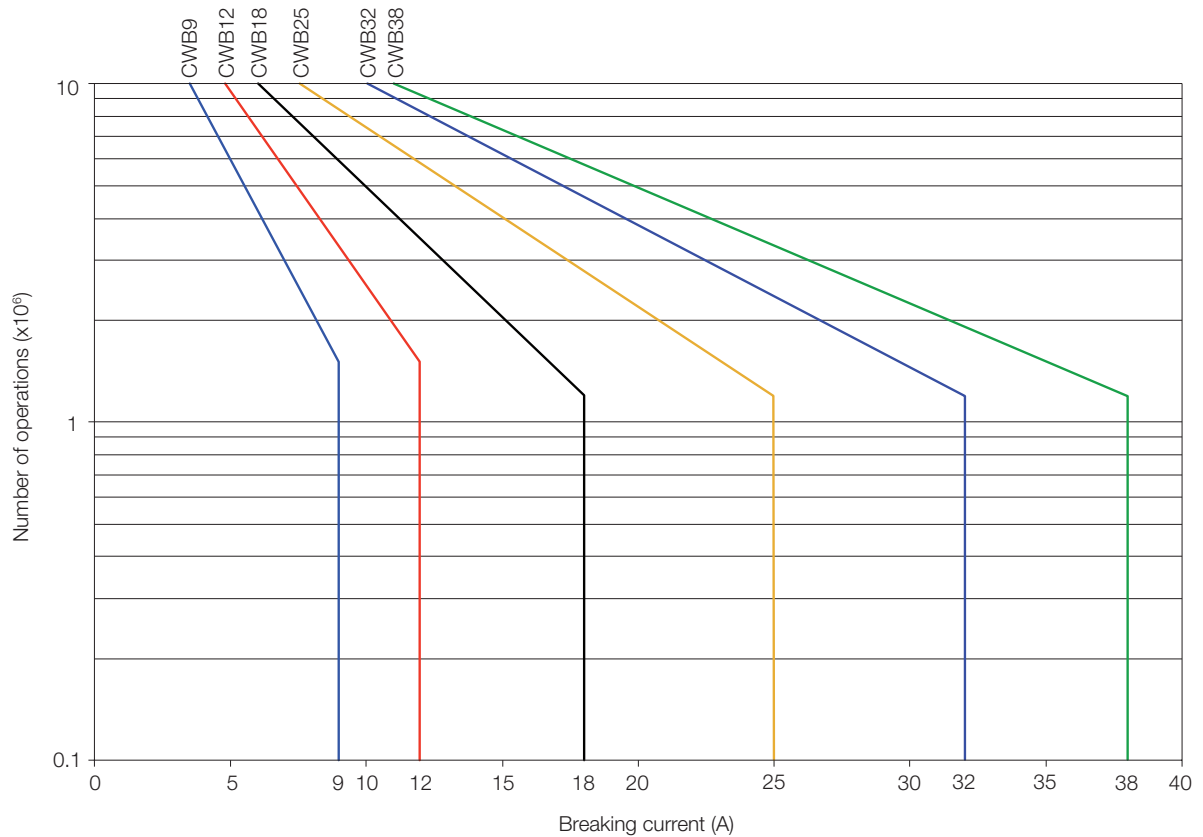
## CWB Series

### Electrical Lifespan

#### Utilization Category AC-1 ( $U_e \leq 690$ V ac)

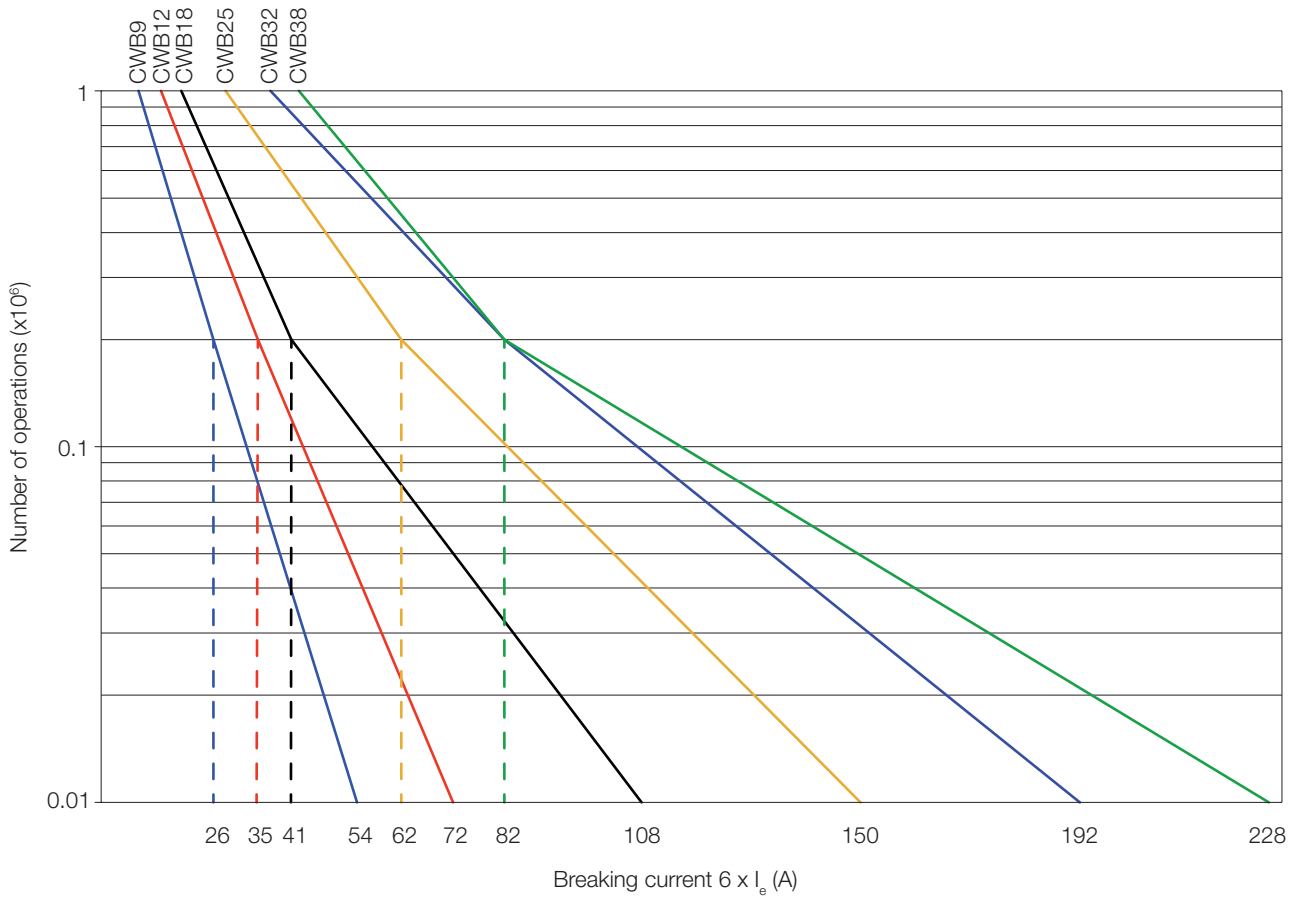


#### Utilization Category AC-3 ( $U_e \leq 440$ V ac)



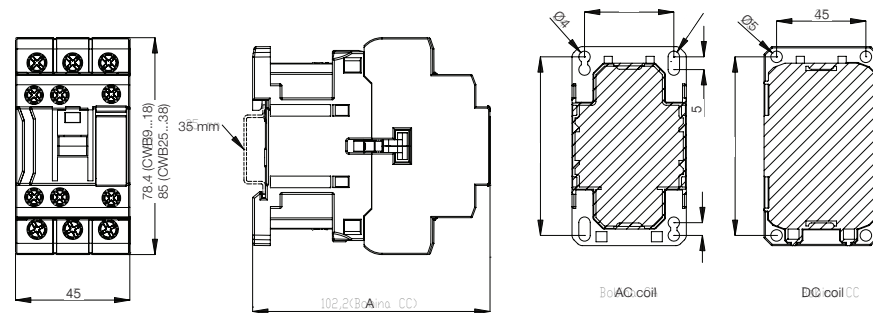
### Electrical Lifespan

Utilization Category AC-4 ( $U_e < 440 \text{ Vac}$ )



## CWB Series

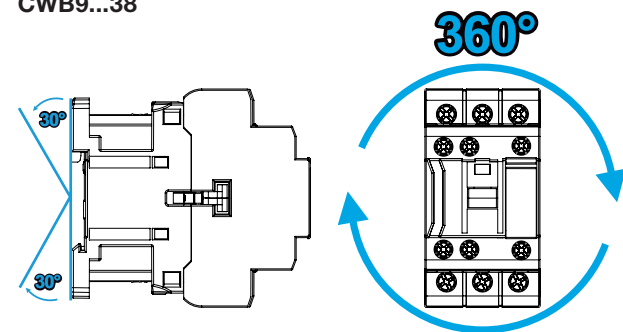
**CWB9...18, CWB25...38**



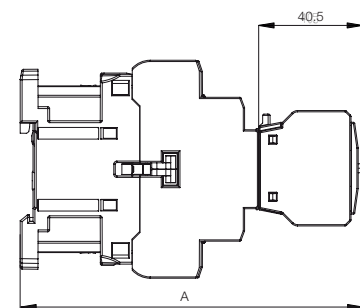
Models	A	
	AC coil	DC coil
CWB9...18	89.5	95.7
CWB25...38	93	102.2

### Mounting Position

**CWB9...38**

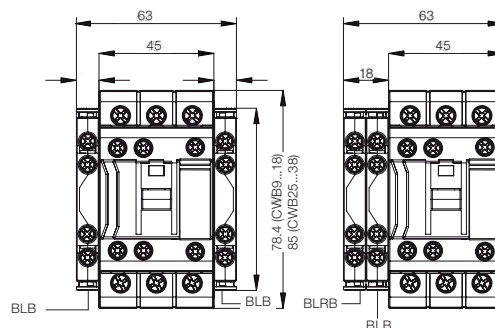


**CWB9...18, CWB25...38 + BFB**  
(Front Mounted Auxiliary Contact Block)



Models	A	
	AC coil	DC coil
CWB9...18	130	136.2
CWB25...38	133.5	142.7

**CWB9...18, CWB25...38 + BLB**  
(Side Mounted Auxiliary Contact Block)



General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

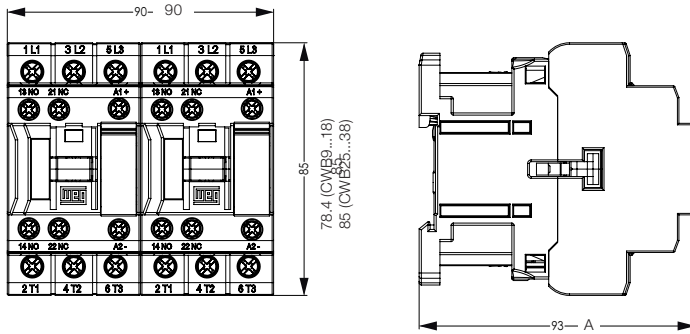
Terminal Blocks

Power Factor Correction

Appendix A

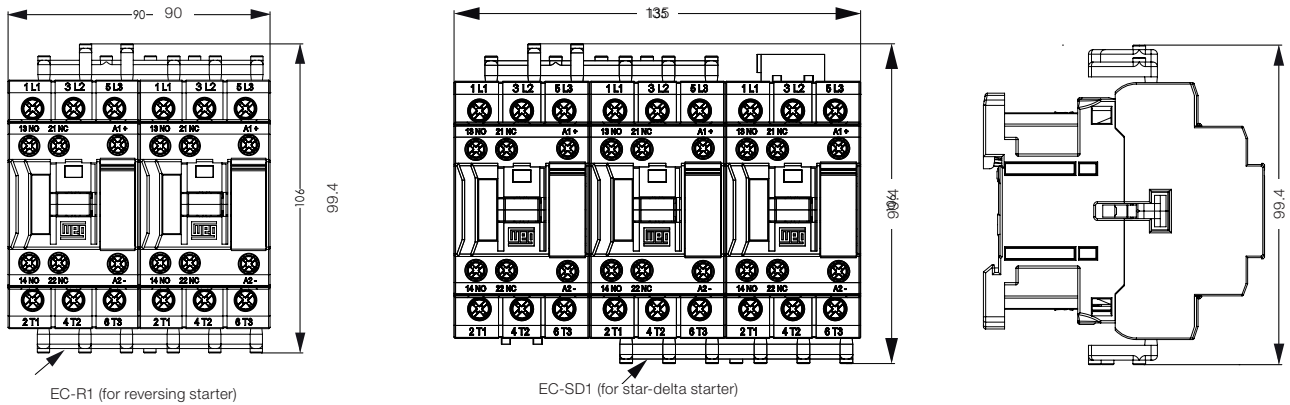
Appendix B

### 2 x CWB9...38 + IM1 (Mechanically Interlocked)

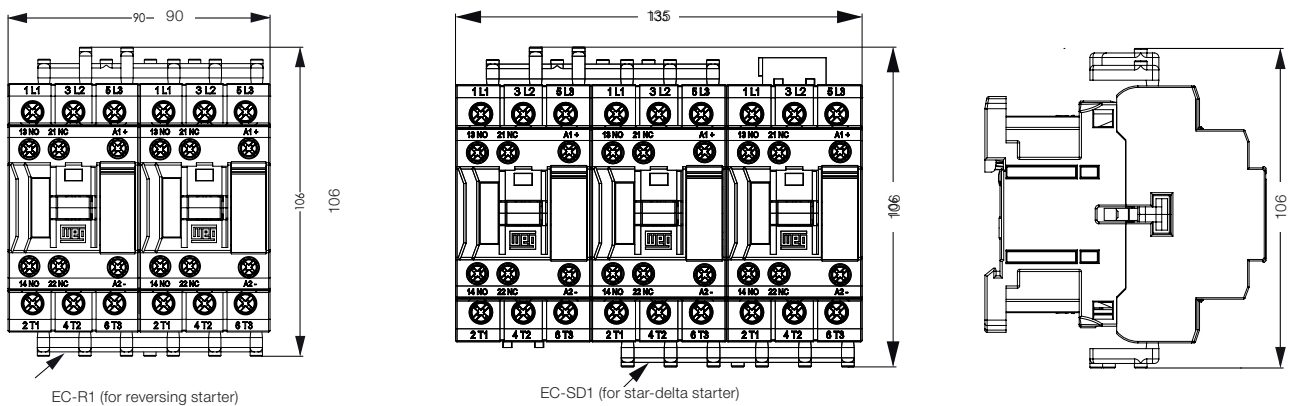


Models	A	
	AC coil	DC coil
CWB9...18	89.5	95.7
CWB25...38	93	102.2

### CWB9...18 + Easy Connection Busbars



### CWB25...38 + Easy Connection Busbars



General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B