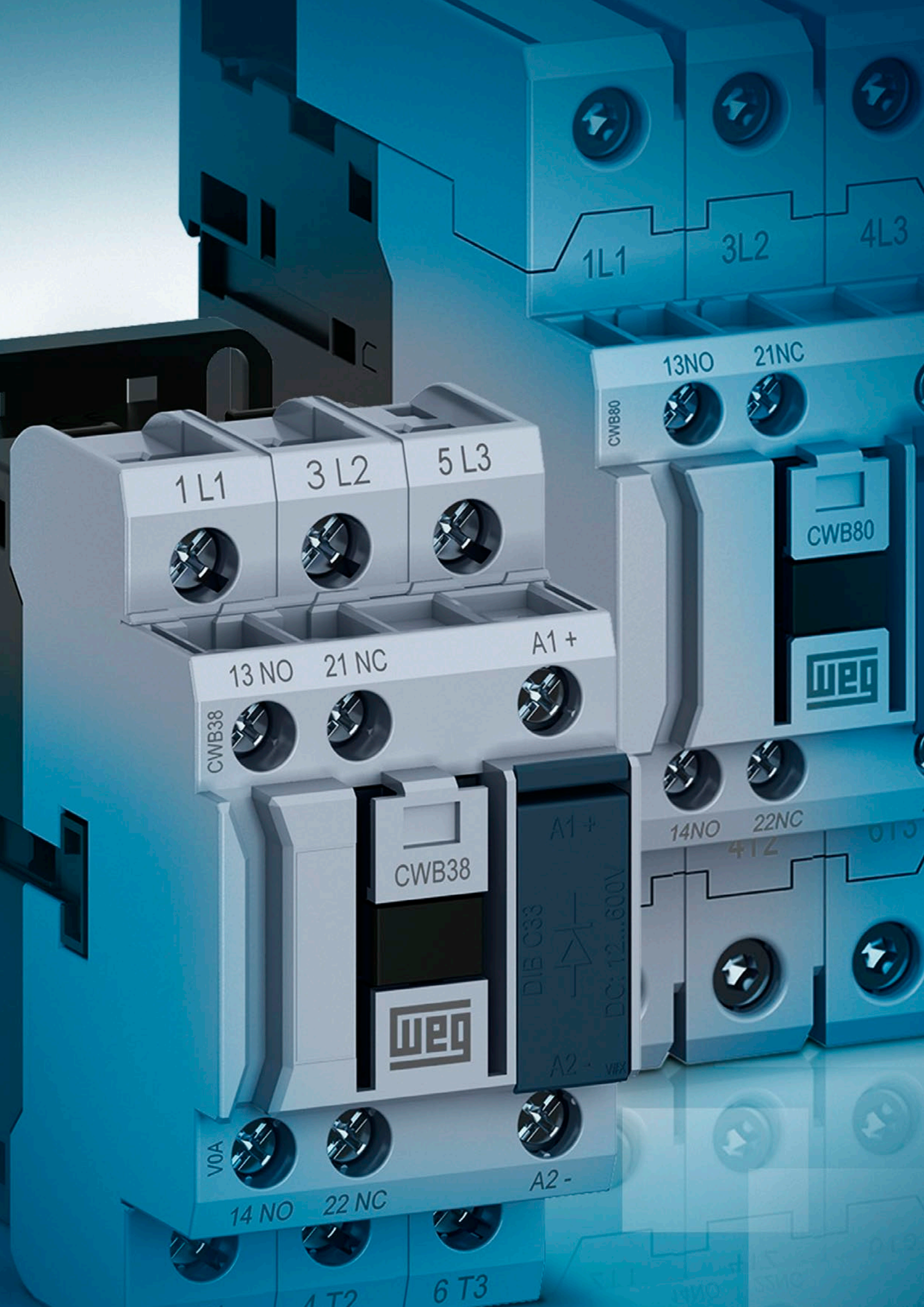


NEMA CONTACTORS - CWBN LINE

Compacts in size.
Giants in technology.



Motors | Automation | Energy | Transmission & Distribution | Coatings



1L1

3L2

4L3

13NO

21NC

CWB80

CWB80



1L1

3L2

5L3

13NO

21NC

A1+

CWB38

CWB38



A1+

DIB C33

DC: 12...600V

A2-

14NO

22NC

4T2

6T3

V0A

14NO

22NC

A2-

4T2

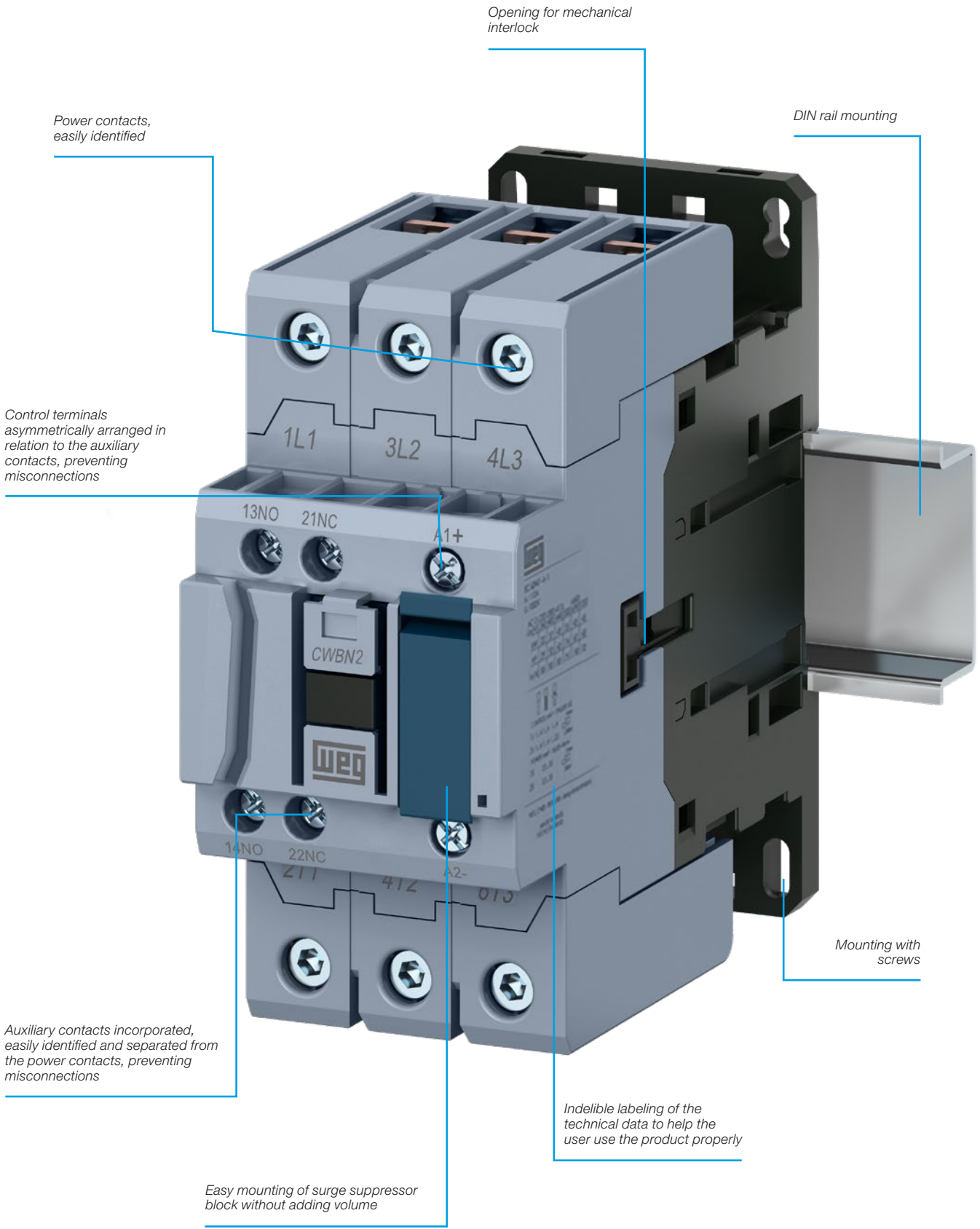
6T3

NEMA Contactors - CWBN Line

Summary

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Applications	05
NEMA Rated Contactors	06
Selection Table	07
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Accessories	10
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Dimensions (mm/in)	18

Construction Characteristics



Applications

The characteristics of the CWB contactors make them suitable for applications in many different segments.



Paper & Cellulose



Wood



Cement



Chemical and Petrochemical



Mining



Steel



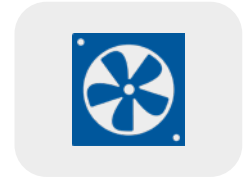
Oil & Gas



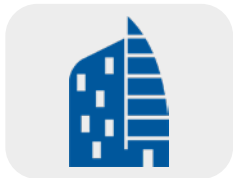
Irrigation and Pumping Systems



Sugar & Alcohol



Fans



Civil Construction



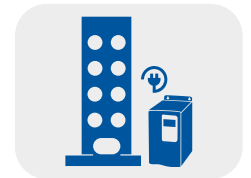
Refrigeration



Machines and Processes in General



Load Lifting



Automation





NEMA Rated Contactors

NEMA contactors have been a mainstay in the industrial marketplace in the US for decades. NEMA contactors were known for being robust & able to handle any industrial application. WEG's NEMA rated contactors meet or exceed the standards defined by the National Electrical Manufacturers Association (NEMA), for full voltage or reduced voltage motor starting¹⁾.

Available from Size 00 to Size 3

- Designed for industrial applications with reliability in mind
- Enclosed NEMA Starters & Custom NEMA Starter panels, available on request
- Reduced inventory with common accessories
- Ease of choosing product
- Adjustable overload protection available (no heaters needed)

The WEG CWBN series NEMA rated contactor line has been designed for industrial duty and with reliability in mind. Rated for inductive loads up to 95 Amps or 50 HP @ 460 V, WEG can offer the suitable contactor for your application.

Customers who are used to specifying contactors (and starters), by a particular NEMA size (size 00, 0, 1, 2, 3), now can use the WEG CWBN series, NEMA rated contactors. Customers get the ease of choosing the product, the reliability of WEG quality, and still get the sophisticated arc quenching techniques to reduce excess heat on the contacts.

Given their compact footprints, CWBN contactors allow total panel space optimization, with only a few compact frame sizes from 2 to 50 HP @ 460 V. Reducing inventory is a "snap" with CWB's common accessories. For example, side and front mounted auxiliary contact blocks are the same from 2 to 50 HP @ 460 V.

- Ease of choosing product
- Compact footprint
- Arc quenching technique
- Reduced inventory with common accessories
- Adjustable thermal overload relay for motor protection
- Reliable WEG Quality

Notes: 1) NEMA Standards Publication ICS 2-2000 (R2005).
Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts.



Selection Table

3 Pole NEMA Contactors

Current rating Amps A	Maximum UL Horsepower						Auxiliary contacts per contactor		Reference to fill in with the control voltage	Weight ²⁾ kg
	Single-phase		Three-phase				 •3 •4 NO	 •1 •2 NC		
	115 V	230 V	200 V	230 V	460 V	575 V				
9	1/3	1	1.5	1.5	2	2	1	1	CWB00-11-30◆	0.37
18	1	2	3	3	5	5	1	1	CWB00-11-30◆	0.37
25	2	3	7.5	7.5	10	10	1	1	CWB01-11-30◆	0.41
50	3	7.5	10	15	25	25	1	1	CWB02-11-30◆	0.91
95	7.5	15	25	30	50	50	1	1	CWB03-11-30◆	1.62

Replace “◆” by the appropriate coil voltage code³⁾.

Alternating Current (CWB00...CWB03)

Code	D02	D07	D15	D39	D45
V (50/60 Hz)	24	48	120	480	600

Code	V24
V (60 Hz)	208-240

Direct Current (CWB00...CWB02)

Code	C03	C07	C09	C12	C13	C15
V dc	24	48	60	110	125	220

Alternating Current/Direct Current with Electronic Module (CWB03)

Code	E04	E64	E65	E66
V ac (50/60 Hz) and V dc	24...60	48...130	110...255	250...500

Safety-Related Applications

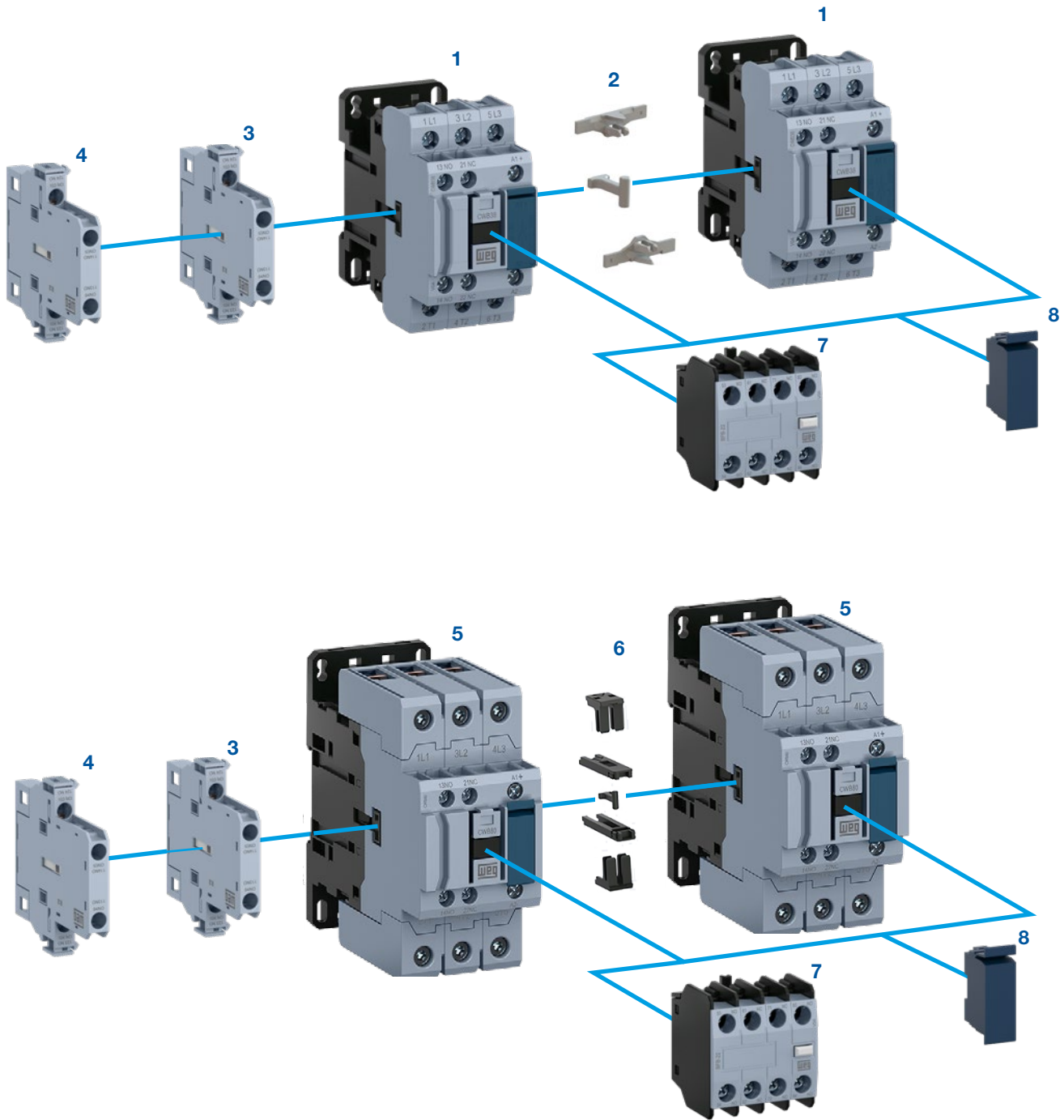
In automation systems of machines and equipment, it is common to use special contactors in combination with specific safety relays. The CWB line allows such combination due to the arrangement of the contacts, which comply with the requirements of IEC/EN 60947-4-1 Annex F (Mirror Contacts) and IEC/EN 60947-5-1 Annex L (Mechanically Linked Contacts and NR12 regulatory standard).

Notes: 1) Orientative values.

2) Weight for contactors with control circuit in alternate current. For control circuit in direct current, add 0.121 kg to the alternating-current models.

3) Other voltages on request.

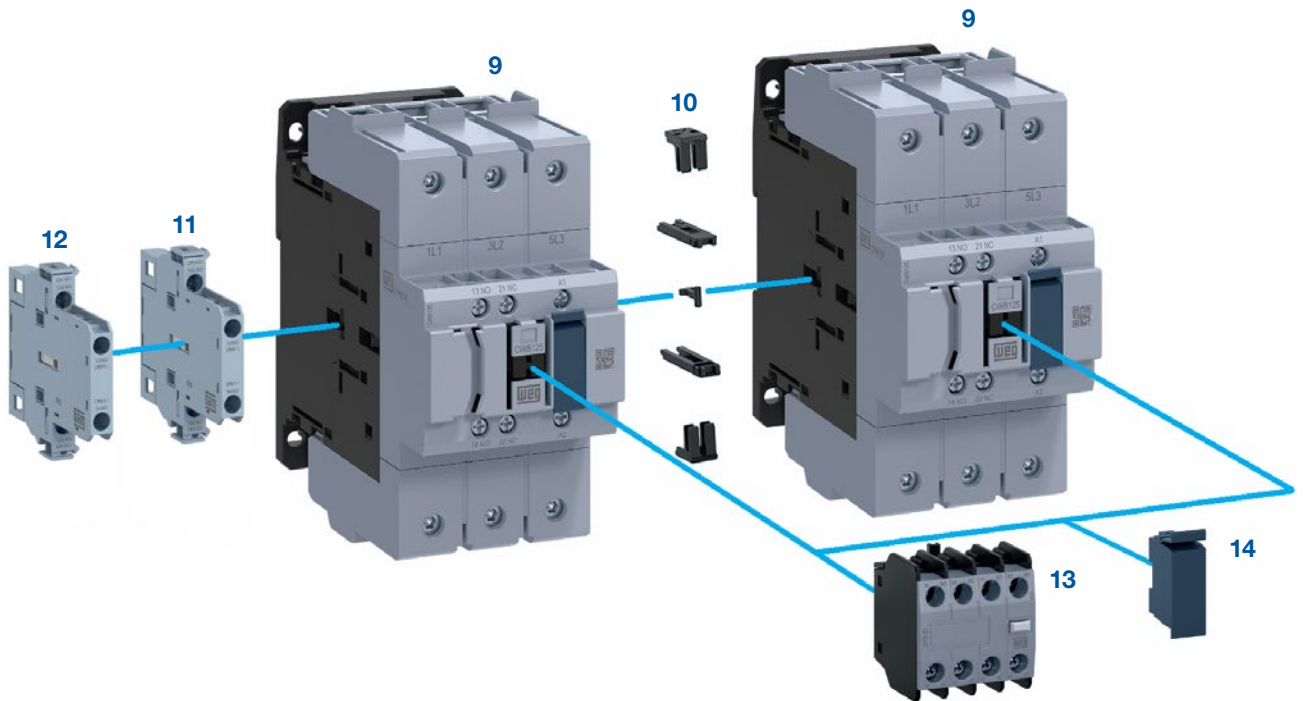
Accessory Overview



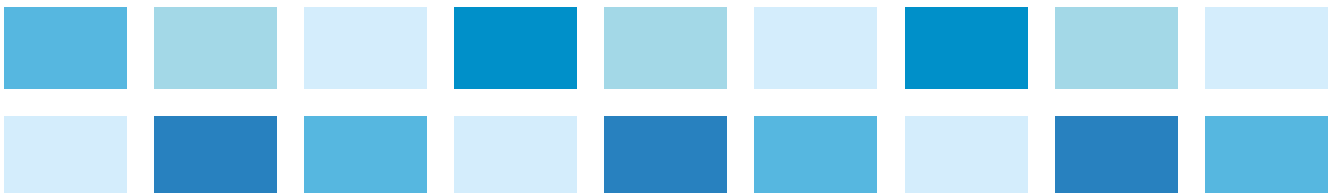
- 1 - CWBN00...1 contactors
- 2 - "Zero" mechanical interlocking set (IM1)
- 3 - BLB side mounting auxiliary contact blocks
- 4 - BLRB side mounting auxiliary contact blocks

- 5 - CWBN2
- 6 - "Zero" mechanical interlocking set (IM2)
- 7 - BFB front mounting auxiliary contact blocks
- 8 - Surge suppressor blocks

Accessory Overview




- 9** - CWBN3 contactors
- 10** - "Zero" mechanical interlocking set (IM2)
- 11** - BLB side mounting auxiliary contact block
- 12** - BLRB side mounting auxiliary contact block
- 13** - BFB front auxiliary contact block
- 14** - Surge suppressor block




Accessories


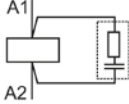
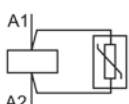
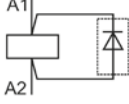
Front Mounted Auxiliary Contact Blocks

Illustrative picture	For use with	Max. nº of additional contacts / contactor	Auxiliary contacts		Reference	Code	Weight kg	
			NO	NC				
	CWBN00...CWBN3	4/CWBN00...CWBN3	Auxiliary contact blocks according to IEC/EN 60947					0.063
			1	1	BFB-11 ¹⁾	12123053		
			2	0	BFB-20	12122434		
			0	2	BFB-02 ¹⁾	12122946		
			2	2	BFB-22 ¹⁾	12123051		
			2 ²⁾	2 ²⁾	BFB-22 EL ²⁾	12771537		
			4	0	BFB-40	12122947		
			0	4	BFB-04 ¹⁾	12123048		
			3	1	BFB-31 ¹⁾	12123049		
1	3	BFB-13 ¹⁾	12123052					

Side Mounted Auxiliary Contact Block

Illustrative picture	For use with	Max. nº of additional contacts / contactor	Auxiliary contacts		Reference	Code	Weight kg
			NO	NC			
	CWBN00...CWBN3	4/CWBN00...CWBN3	1	1	BLB-11 ¹⁾	12187899	0.034
			2	0	BLB-20	12187334	
			0	2	BLB-02 ¹⁾	12187898	
			1	1	BLRB-11 ¹⁾³⁾	12230321	
			2	0	BLRB-20 ³⁾	12230319	
			0	2	BLRB-02 ¹⁾³⁾	12230320	

Plug-In Surge Suppressors

Illustrative picture	For use with	Voltage	Diagram	Reference	Code	Weight kg
	CWBN00...CWBN3	24...48 V 50/60 Hz		RCBD53	12242511	0.008
		50...127 V 50/60 Hz		RCBD55	12242512	
		130...250 V 50/60 Hz		RCBD63	12242513	
		12...48 V 50/60 Hz / 12...60 V dc		VRBE49	12242514	
		50...127 V 50/60 Hz / 60...180 V dc		VRBE34	12242515	
		130...250 V 50/60 Hz / 180...300 V dc		VRBE50	12242516	
		277...380 V 50/60 Hz / 300...510 V dc		VRBE41	12242517	
		400...510 V 50/60 Hz		VRBD73	12242558	
		12...600 V dc		DIBC33 ⁴⁾	12242560	
12...250 V dc	DIZBC26 ⁵⁾	12242561				

Notes: 1) They comply with the requirements of IEC/EN 60947-4-1 about mirror contacts and the requirements of IEC/EN 60947-5-1 about mechanically linked contacts.

2) BFB-22-EL: besides the regular contacts NO and NC, there are two special contacts: early make and late break.



3) For side mounting of two side-auxiliary contact blocks on the same contactor side.

4) Contactors assembled with surge suppressor DIB will increase in 6 times the opening time.

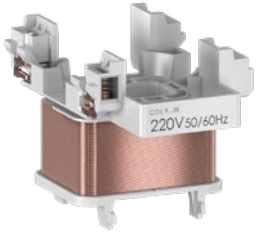
5) Contactors assembled with surge suppressor DIZB will increase in 4 times the opening time.

Accessories

Mechanical Interlock

Illustrative picture	For use with	Description	Reference	Code	Weight kg
	CWBN00...CWBN1	Mounting set for interlocking two contactors with the same frame type. Fitting through snaps without tools.	IM1	12244300	0.004
	CWBN2...CWBN3		IM2	13765620	

Spare Coils for Contactors¹⁾

Illustrative picture	For use with	Control type	Reference to fill in with the control voltage	Code	Weight kg
	CWBN00...1	AC	BRB-38 ♦	On request	0.8
	CWBN2	AC	BRB-80 ♦	On request	0.09
	CWBN2	DC	BRB-80 ♦	On request	0.40
	CWBN3	AC	BRB-110 ♦	On request	0.15
	CWBN3	AC / DC	BRB-125 ♦	On request	0.15

Replace “♦” by the appropriate coil voltage code.

Alternating Current (CWBN00...CWBN3)

Code	D02	D07	D15	D39	D45
V (50/60 Hz)	24	48	120	480	600

Code	V24
V (60 Hz)	208-240

Direct Current (CWBN2)

Code	C03	C07	C09	C12	C13	C15
V dc	24	48	60	110	125	220

Alternating Current/Direct Current with Electronic Module (CWBN3)

Code	E04	E64	E65	E66
V ac (50/60 Hz) and V dc	24...60	48...130	110...255	250...500

Technical Data

Terminal Markings According to IEC/EN 60947

Diagram	Configuration	Auxiliary contacts		Reference code
		NO	NC	
3-poles contactors with built-in auxiliary contacts				
	11	1	1	CWBN00-11-30◆ CWBN0-11-30◆ CWBN1-11-30◆ CWBN2-11-30◆ CWBN3-11-30◆
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
	22	2	2	BFB-22 EL
	04	0	4	BFB-04
	31	3	1	BFB-31
	13	1	3	BFB-13
Side mounted auxiliary contact blocks				
	11	1	1	BLB11
	20	2	0	BLB20
	02	2	0	BLB02
	11	1	1	BLRB11
	20	2	0	BLRB20
	02	2	0	BLRB02

Technical Data

Basic Data

Models		CWBN00	CWBN0	CWBN1
Compliance with the standards		IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947		
Rated insulation voltage U_i (pollution degree 3)	IEC/EN 60947-4-1 (V) UL, CSA (V)	690 600		
Rated impulse-withstand voltage U_{imp}	IEC/EN 60947-1 (kV)	6		
Frequency limits	(Hz)	25...400		
Mechanical lifespan	AC coil (million cycles)	10		
	DC coil (million cycles)	10		
Electrical lifespan	I_e AC-3 (million cycles)	2.0	1.8	1.6
Degree of protection (IEC/EN 60529)	Main terminals	IP10 (front)		
	Coil and auxiliary contacts	IP20 (front)		
Mounting	By screws or DIN 35 mm rail (EN 50022)			
Coil connection points	Contactors with AC coil	2		
	Contactors with DC coil	2		
Vibration resistance (IEC/EN 60068-2-6)	Open contactor (g)	4		
	Closed contactor (g)	4		
Resistance to mechanical shocks (½ senoidal = 11ms - IEC/EN 60068-2-27)	Open contactor (g)	10		
	Closed contactor (g)	15		
Ambient temperature	Operating	-25 °C...+55 °C		
	Storage	-55 °C...+80 °C		
Maximum operation altitude without modification in the rated values ¹⁾		3,000 m		

Models		CWBN2	CWBN3
Compliance with the standards		IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947	
Rated insulation voltage U_i (pollution degree 3)	IEC/EN 60947-4-1 (V) UL, CSA (V)	1,000 600	
Rated impulse-withstand voltage U_{imp}	IEC/EN 60947-1 (kV)	6	
Frequency limits	(Hz)	25...400	
Mechanical lifespan	AC coil (million cycles)	6	
	DC coil (million cycles)	6	
Electrical lifespan	I_e AC-3 (million cycles)	1.6	1.1
Degree of protection (IEC/EN 60529)	Main terminals	IP10 (front)	
	Coil and auxiliary contacts	IP20 (front)	
Mounting	By screws or DIN 35 mm rail (EN 50022)		
Coil connection points	Contactors with AC coil	2	
	Contactors with DC coil	2	
Vibration resistance (IEC/EN 60068-2-6)	Open contactor (g)	4	
	Closed contactor (g)	4	
Resistance to mechanical shocks (½ senoidal = 11ms - IEC/EN 60068-2-27)	Open contactor (g)	10	
	Closed contactor (g)	15	
Ambient temperature	Operating	-25 °C...+55 °C	
	Storage	-55 °C...+80 °C	
Maximum operation altitude without modification in the rated values ¹⁾		3,000 m	

Note: 1) For altitudes of 3,000...4,000 m ($0.90xI_e$ and $0.80xU_i$) and of 4,000...5,000 m ($0.80xI_e$ and $0.75xU_i$).

Technical Data

Control Circuit - Alternating Current (AC)

Models			CWBN00/0/1	CWBN2	CWBN3
Rated insulation voltage U _i (pollution degree 3)	IEC/EN 60947-4-1	(V)	690	1,000	1,000
	UL, CSA	(V)	600	600	600
Standard voltages at 50/60 Hz		(V)	12...500	24...500	24...500
Coil operating limits	At 50 Hz	(xUs)	0.8...1.1	0.8...1.1	0.8...1.1
	At 60 Hz	(xUs)	0.8...1.1	0.8...1.1	0.8...1.1
Average consumption Coil 50/60 Hz (60 Hz operation)	Magnetic circuit closed	(VA)	7.5	17.5	25
	Power factor switched on	(cos φ)	0.27	0.28	0.40
	Thermal power dissipation	(W)	1.5...2.5	4...5.5	9...11
	Closing of the magnetic circuit	(VA)	75	185	410
	Power factor switching on	(cos φ)	0.7	0.55	0.48
Average consumption Coil 50/60 Hz (50 Hz operation)	Magnetic circuit closed	(VA)	9	27	27
	Power factor switched on	(cos φ)	0.24	0.25	0.4
	Thermal power dissipation	(W)	1.5...2.5	5.5...7.8	11...13.4
	Closing of the magnetic circuit	(VA)	90	202	426
	Power factor switching on	(cos φ)	0.8	0.56	0.5
Average operating time	Closing of the NO contacts	(ms)	15...25	10...15	8...12.5
	Opening of the NO contacts	(ms)	8...12	8...12	4...8

Control Circuit - Direct Current (DC)

Models			CWBN00/0/1	CWBN2	CWBN3
Rated insulation voltage U _i (pollution degree 3)	IEC/EN 60947-4-1	(V)	690	1,000	-
	UL, CSA	(V)	600	600	-
Standard voltages		(V)	12...500	12...500	-
Coil operating limits		(xUs)	0.8...1.1	0.8...1.1	-
Average consumption DC coil	Magnetic circuit closed	(W)	5.8	10.6	-
	Closing of the magnetic circuit	(W)	5.8	105.5	-
Average operating time	Closing of the NO contacts	(ms)	35...45	20...30	-
	Opening of the NO contacts	(ms)	8...12	4...8	-

Control Circuit - Electronic Coils (AC/DC)

Models			CWBN00/0/1	CWBN2	CWBN3
Rated insulation voltage U _i (pollution degree 3)	IEC 60947-4-1, VDE 0660	(V)	-	-	1,000
	UL, CSA	(V)	-	-	600
Standard voltages		(V)	-	-	24...500
Coil operating limits	at V dc	(xUs)	-	-	0.8...1.1
	at 50 Hz	(xUs)	-	-	0.8...1.1
	at 60 Hz	(xUs)	-	-	0.8...1.1
Average consumption			-	-	1.0 x Us and cold coil
AC power supply (60 Hz)	Magnetic circuit closed	(VA)	-	-	10.8
	Power factor	(cos φ)	-	-	0.47
	Thermal power dissipation	(W)	-	-	5.1
	Closing of the magnetic circuit	(VA)	-	-	217
	Power factor	(cos φ)	-	-	0.88
DC power supply	Magnetic circuit closed	(W)	-	-	2...5
	Closing of the magnetic circuit	(W)	-	-	180...220
Average operating time	Closing of the NO contacts	(ms)	-	-	32...48
	Opening of the NO contacts	(ms)	-	-	30...55

Technical Data

Main Contacts

Models			CWBN00	CWBN0	CWBN1	CWBN2	CWBN3
Rated operational current I_e	AC-3 ($U_e \leq 440$ V)	(A)	9	18	25	50	95
	AC-4 ($U_e \leq 440$ V)	(A)	4.4	8.5	10.4	21	52
	AC-1 ($\theta \leq 55$ °C, $U_e \leq 690$ V)	(A)	25	32	40	90	140
Rated operational voltage U_e	IEC/EN 60947-4-1	(V)	690			1,000	
	UL, CSA	(V)	600				
Conventional thermal current I_{th} ($\theta \leq 55$ °C)		(A)	25	32	40	90	140
Making capacity - IEC/EN 60947		(A)	250	300	450	1,000	1,100
Breaking capacity IEC/EN 60947	($U_e \leq 400$ V)	(A)	250	300	450	1,000	1,100
	($U_e = 500$ V)	(A)	220	250	350	880	970
	($U_e = 690$ V)	(A)	150	180	250	640	700
Acceptable short-time current (no current flowing during recovery time of 15min and $\theta \leq 40$ °C)	1s	(A)	210	240	380	820	1,200
	10s	(A)	105	145	240	400	720
	1min	(A)	60	80	120	230	410
	10min	(A)	30	40	50	110	140
Short circuit protection of the main contacts	@600 V - UL/CSA	(kA)	5				10
	Coordination type 1	(A)	25	50	63	100	-
Fuse (gL/gG)	Coordination type 2	(A)	20	25	35	80	-
Impedance per pole		(m Ω)	2.5	2.5	2	1.6	0.7
Average power dissipation per pole	AC-1	(W)	1.5	2.5	3.2	13	15
	AC-3	(W)	0.2	0.8	1.2	4	7
Minimum switching capacity ¹⁾	(V/mA)		50/100				
Utilization category AC-3							
Rated operational current I_e ($\theta \leq 55$ °C)	$U_e \leq 440$ V	(A)	9	18	25	50	95
	$U_e \leq 500$ V	(A)	9	15.8	23	45	84
	$U_e \leq 690$ V	(A)	7	12.8	16.5	35	61
Orientative rated operational power Three-phase induction motors (50/60 Hz) IV poles - 1,800 rpm	220/240 V	(kW)	2.2	4.5	6.5	15	22
		(cv)	3	6	8.7	20	30
	380/400 V	(kW)	4	7.5	12.5	22	45
		(cv)	5.5	10	16.8	29	60
	415/440 V	(kW)	4.5	9.2	12.5	30	55
		(cv)	6	12.5	16.8	40	75
	500 V	(kW)	5.5	10	15	30	55
		(cv)	7.5	13.4	20	40	75
	660/690 V	(kW)	5.5	11	15	33	55
		(cv)	7.5	15	20	44	75
Maximum percentage	600 ops./h	(%)	100	100	100	100	100
Utilization category AC-4							
Rated operational current I_e	($U_e \leq 440$ V)	(A)	4.4	8.5	10.4	21	52
	($U_e \leq 500$ V)	(A)	3.9	8	12	17.6	46
	($U_e \leq 690$ V)	(A)	2.8	5.4	12	17	33
Orientative rated operational power Three-phase induction motors (50/60 Hz) IV poles - 1,800 rpm (200,000 operations)	220/240 V	(kW)	1.5	2.2	3	5.5	15
		(cv)	2	3	4	7.4	20
	380/400 V	(kW)	2.2	4	5.5	11	22
		(cv)	3	5.4	7.4	14.7	30
	415/440 V	(kW)	2.2	3.7	5.5	11	30
		(cv)	3	5	7.4	14.7	40
	500 V	(kW)	2.2	5	7.5	15	30
		(cv)	3	6.7	10	20.1	40
	660/690 V	(kW)	2.2	5	10	15	30
		(cv)	3	6.7	13.4	20.1	40

Note: 1) In order to achieve acceptable reliability for application and/or continuity test on the power contacts, a minimum voltage and current of 50 V and 100 mA, respectively, must be used. For lower values, the auxiliary contacts must be used.

Technical Data

Main Contacts

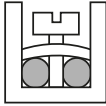
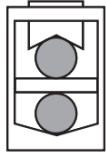
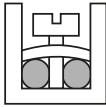
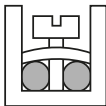
Models			CWBN00	CWBN0	CWBN1	CWBN2	CWBN3
			Utilization category AC-1				
			3P and 4P (NO)				
Conventional thermal current I_{th}	$\theta \leq 55^\circ\text{C}$	(A)	25	32	40	90	140
	$\theta \leq 65^\circ\text{C}$	(A)	20	26	32	72	112
	$\theta \leq 75^\circ\text{C}$	(A)	18	22	28	63	98
Maximum orientative operational current according to the ambient temperature	$\theta \leq 60^\circ\text{C}$ ($U_e \leq 690\text{ V}$)	(A)	25	32	40	90	140
Max. operational power $\theta \leq 55^\circ\text{C}$ (three-phase resistors)	240 V	(kW)	10.4	13.3	16.6	37.4	58.2
	400 V	(kW)	17.3	22.2	27.7	62.4	97.0
	440 V	(kW)	19.1	24.4	30.5	68.6	106.7
	500 V	(kW)	21.7	27.7	34.6	77.9	121.2
	690 V	(kW)	29.9	38.2	47.8	107.6	167.3
Current values for connection	2 poles in parallel		$I_e \times 1.7$				
	3 poles in parallel		$I_e \times 2.4$				
	4 poles in parallel		$I_e \times 3.2$		-		
Percentage of maximum operational current	600 ops./h	(%)	100	100	100	100	100

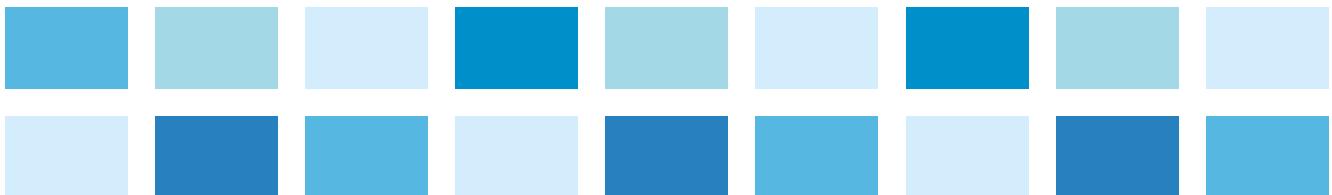
Auxiliary Contacts

Models			CWBN00...3 (built-in)	BFB (front mounted)	BLB (side mounted)
Compliance with the standards			IEC/EN 60947-5-1		
Rated insulation voltage U_i (pollution degree 3)	IEC/EN 60947-4-1, VDE 0660	(V)	690		
	UL, CSA	(V)	600		
Rated operational voltage U_e	IEC/EN 60947-4-1, VDE 0660	(V)	690		
	UL, CSA	(V)	600		
Conventional thermal current I_{th} ($\theta \leq 55^\circ\text{C}$)			10		
Rated operational current I_e					
AC-15 (IEC/EN 60947-5-1)	220/230 V	(A)	10		
	380/440 V	(A)	4		
	500 V	(A)	2.5		
	660/690 V	(A)	1.5		
DC-13 (IEC/EN 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)	$10 \times I_e$		
Breaking capacity	$U_e \leq 400\text{ V}$ 50/60 Hz - AC-15	(A)	$1 \times I_e$		
Short circuit protection with fuse (gL/gG)			(A)		
Control circuit reliability			(V / mA)		
Electrical lifespan			(million cycles)		
Mechanical lifespan			(million cycles)		
Non-overlapping time between NO and NC contacts			(ms)		
Impedance of the contacts			(m Ω)		

Technical Data

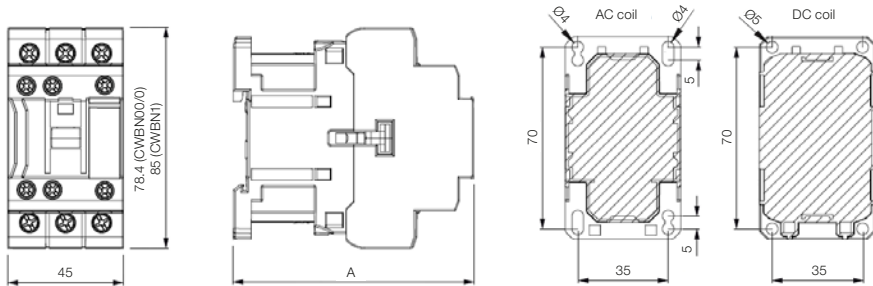
Terminal Capacity and Tightening Torques

		Conductor cross-section				
Power circuit		CWBN00/0	CWBN1	CWBN2	CWBN3	
Model		Phillips number 2	Phillips number 2	ALLEN 4 mm	ALLEN 4 mm	
Mounting system screw type						
Flexible conductor without terminal	(mm ²)		1 x 1...6 2 x 1...6	1 x 2.5...10 2 x 2.5...10	-	-
Flexible conductor with terminal	(mm ²)		1 x 1...6 2 x 1...4	1 x 1.5...10 2 x 1.5...6	-	-
Solid wire	(mm ²)		1 x 1...6 2 x 1...6	1 x 2.5...10 2 x 2.5...10	-	-
Tightening torque	(Nm)		1.7	2.5	-	-
Flexible conductor without terminal	(mm ²)		-	-	1 x 2.5...35 2 x 2.5...35	1 x 2.5...70 2 x 2.5...70
Flexible conductor with terminal	(mm ²)		-	-	1 x 2.5...35 2 x 2.5...35	1 x 2.5...70 2 x 2.5...70
Solid wire	(mm ²)		-	-	1 x 2.5...35 2 x 2.5...35	1 x 2.5...70 2 x 2.5...70
Tightening torque	(Nm)		-	-	5.0	6.0
Control and auxiliary circuit		CWBN00...3				
Models		Phillips number 2				
Mounting system screw type						
Flexible conductor without terminal	(mm ²)		1 x 1...4 2 x 1...4			
Flexible conductor with terminal	(mm ²)		1 x 1...4 2 x 1...2.5			
Solid wire	(mm ²)		1 x 1...4 2 x 1...4			
Tightening torque	(Nm)		1.0			
Auxiliary contact blocks		BFB (front)		BLB (side)		
Models		Phillips number 2				
Mounting system screw type						
Conductor cross-section						
Flexible conductor without terminal	(mm ²)		1 x 1...2.5 2 x 1...2.5			
Flexible conductor with terminal	(mm ²)		1 x 1...2.5 2 x 1...2.5			
Solid wire	(mm ²)		1 x 1...2.5 2 x 1...2.5			
Tightening torque	(Nm)		1.0			



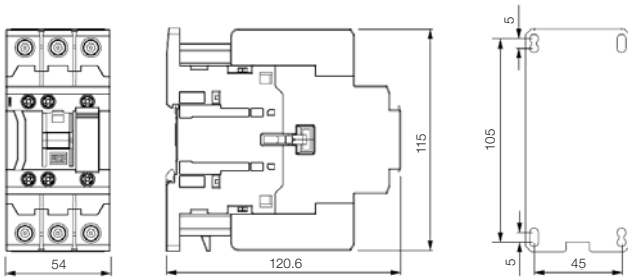
Dimensions (mm)

CWBN00...1

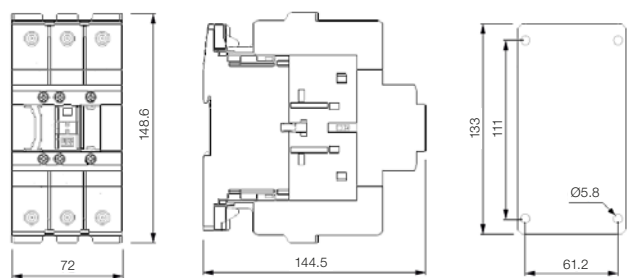


Models	A	
	AC coil	DC coil
CWBN00/0	89.5	98.5
CWBN1	93	102.2

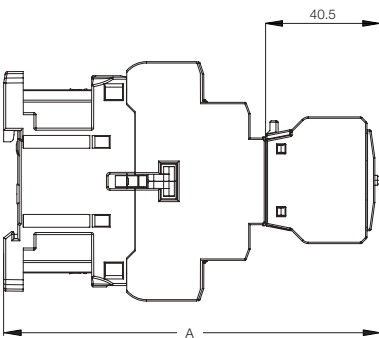
CWBN2



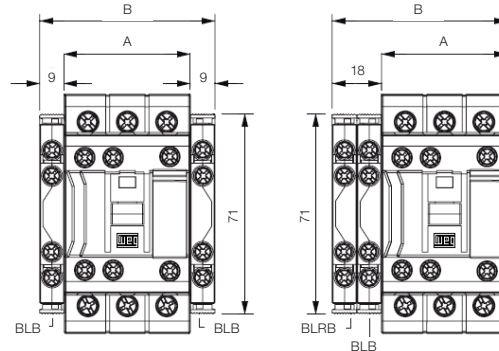
CWBN3



CWBN00...3 + BFB (Front Contact Block)



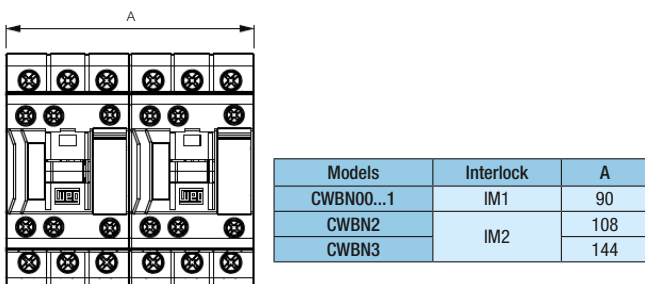
CWBN00...3 + BLB / BLRB (Side Mounted Contact Block)



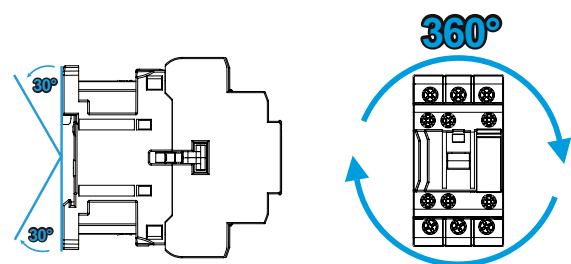
Models	A	
	AC coil	DC coil
CWBN00/0	130	139.2
CWBN1	133.4	142.6
CWBN2	161.1	161.1
CWBN3	184.5	184.5

Models	A	B
CWBN00...1	45	63
CWBN2	54	72
CWBN3	72	90

CWBN00...3 + IM (Mechanical Interlock)



Mounting Position CWBN00...3



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Cod: 50080158 | Rev: 01 | Date (m/a): 05/2021.

The values shown are subject to change without prior notice.

The information contained is reference values.