



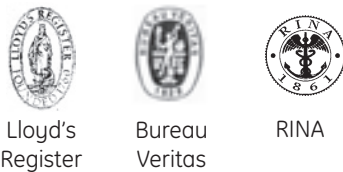
Three and four pole contactors 9 to 105A (AC3) 25 to 140A (AC1)

- Control circuit: Alternating current up to 690V
Direct current up to 440V
- Terminal numbering in accordance with EN 50005 and EN 50012
- Fixing by clipping onto 35mm DIN rail EN 50022-35 or by screws
- Screws protected against accidental contact in accordance with VDE 0106 T.100, VBG4.
- Ring terminal version
- Three coil terminals
- Mounting possibilities of front/side instantaneous auxiliary contact blocks, timed auxiliary contact blocks, mechanical latch, transient suppressor block and interface modules.
- Degree of protection: IP20 to CL00 ... CL02
IP10 to CL25 ... CL10
- Maximum number of auxiliary contacts: 4 for CL00 ... CL25
6 for CL04 ... CL45
8 for CL06 ... CL10

Standards

IEC/EN 60947-1	CSA 22.2/14
IEC/EN 60947-4-1	NFC 63-110
IEC/EN 60947-5-1	ASE 1025
EN 50005	VDE 0660/102
UL 508	CENELEC HD 419
NEMA ICS 1	
BS 5424 & 775	

Approvals



- Order codes ● pg. C.11
- Auxiliary contact blocks ● pg. C.15
- Accessories ● pg. C.16
- Technical data ● pg. C.31
- Terminal numbering ● pg. C.39
- Dimensions ● pg. C.52

Standard voltages

To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit.

Alternating current (V). Dual-frequency coil

♦	1	2	9	3	4	5	6	7	13	8	15
AC	24	42	48	110	120	220	230	240	400	440	480
50/60Hz				115							

Alternating current (V).

♦	E	K	L	N	T	U	W	Y	Z
AC	32	127		220		380	415	500	660
50Hz				230		400		690	
AC			208	277	380	480	460	600	
60Hz									

Direct current (V)

For contactors type CL...D / Operating limits: 0.80 ... 1.10 x Us

♦	B	D	E	F	G	H	I	J	K	N	P	R	T	X
Voltage	12	24	36	42	48	60	72	110	120	220	230	240	250	440
										125				

Coil with electronic module for contactors CL...E (can also be used with alternating current)

♦	D	F	H	J	N	Y
Voltage	24	42	60	110	220	440
	28	48	72	125	250	

Direct current (V). Coil with wide voltage range (0.70 ... 1.30 x Us)

For contactors type CL...D

♦	WB	WD	WE	WF	WG	WH	WI	WJ	WK	WN	WP	WR	WT	WX
DC	12	24	33	42	48	60	72	110	125	220	230	240	250	440

Maximum number of add-on auxiliary contact blocks:

CL00D...CL02D : 2NO or 1NC
CL03D...CL45D : 1NO and 1NC
CL05D...CL10D : 4NO or 2NC
CL05E...CL10E : 4 cont. aux.

Coil with electronic module for contactors CL...E

♦	WD	WE	WF	WH	WJ	WN
Voltage	24	33	48	72	110	220

Different auxiliary contact configurations, contact us.



Three pole contactors. Screw terminal

Max.oper.current Non-inductive load AC1 A	Motors <440V, 3 ~ 50/60Hz AC3 A	Admissible power AC3				Electrical endurance Cat. AC3 Operations	Aux. contacts		Control circuit: Alternating current		Control circuit: Direct current		Control circuit: Coil with electronic module (AC/DC)	
		220V 230V	380V 400V	415V 440V	500V		.3 .4	.1 .2	Cat. no. (1)	Pack (3)	Cat. no. (1)	Pack (3)	Cat. no. (1)	Pack (3)
25	9	2.2 3	4 5.5	4 5.5	5.5 7.5	2x10 ⁶	0 1 0	0 0 1	CL00A300T♦ CL00A310T♦ CL00A301T♦	5 5 5				
25	12	3 4	5.5 7.5	5.5 7.5	7.5 10	2x10 ⁶	0 1 0	0 0 1	CL01A300T♦ CL01A310T♦ CL01A301T♦	5 5 5				
32	18	4 5.5	7.5 10	7.5 10	10 13.5	1.7x10 ⁶	0 1 0	0 0 1	CL02A300T♦ CL02A310T♦ CL02A301T♦	5 5 5				
45	25	7.5 10	11 15	11 15	15 20	1.2x10 ⁶	0 1 0	0 0 1	CL25A300T♦ CL03A300M♦ CL03A310M♦ CL03A301M♦	5 10 10 10				
45	25	7.5 10	12 16	12 16	15 20	2x10 ⁶	0 1 0	0 0 1	CL03A300M♦ CL03A310M♦ CL03A301M♦	10 10 10				
60	32	9 12	16 22	16 22	18.5 25	2x10 ⁶	0 1 0	0 0 1	CL04A300M♦ CL04A310M♦ CL04A301M♦	10 10 10				
60	40	11 15	18.5 25	22 30	25 34	2x10 ⁶	0 1	0 1	CL45A300M♦ CL45A311M♦ (2)	10 10				
90	50	15 20	22 30	25 34	30 40	1.8x10 ⁶	0 1	0 1	CL06A300M♦ CL06A311M♦ (2)	1 1				
110	65	18.5 25	30 40	37 50	40 55	1.7x10 ⁶	0 1	0 1	CL07A300M♦ CL07A311M♦ (2)	1 1				
110	80	22 30	37 50	45 60	45 60	1.5x10 ⁶	0 1	0 1	CL08A300M♦ CL08A311M♦ (2)	1 1				
140	95	25 34	45 60	50 68	55 75	1.7x10 ⁶	0 1	0 1	CL09A300M♦ CL09A311M♦ (2)	1 1				
140	105	30 40	55 75	55 75	65 88	1.5x10 ⁶	0 1	0 1	CL10A300M♦ CL10A311M♦ (2)	1 1				
Spare coils								CL00 - CL25	LB1A ♦	5	LB1D ♦	5		
								CL03 - CL45	LB3A ♦	5	LB3D ♦	5		
								CL06 - CL10	LB4A ♦	5	LB4D ♦	1		
								coil + electronic module CL06E - CL10E					LB4E ♦	1

- (1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.10).
- (2) Equipped with two blocks BCLF
- (3) Multipack, see C.9

For reference numbers, see chapter X, pg. X.6



3P and 4P contactors

A
B
C
D
E
F
G
H
I
X

Three pole contactors. Ring terminal

Contactors

A

B

C

D

E

F

G

H

I

X



Max.oper.current Non- inductive load AC1 A	Motors <440V, 3 ~ 50/60Hz AC3 A	Admissible power AC3				Electrical endurance Operations Cat. AC3	Aux. contacts		Control circuit: Alternating current		Control circuit: Direct current			
		220V 230V	380V 400V	415V 440V	500V		-3 .4	.1 .2	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾	Pack ⁽²⁾		
25	9	2.2	4	4	5.5	2x10 ⁶	0	0	CL00A300R♦	5	Ref. no. see bottom	Ref. no. see bottom		
		3	5.5	5.5	7.5		1	0	CL00A310R♦	5			CL00D310R♦	10
		0	1	CL00A301R♦	5		CL00D301R♦	10						
25	12	3	5.5	5.5	7.5	2x10 ⁶	0	0	CL01A300R♦	5	Ref. no. see bottom	Ref. no. see bottom		
		4	7.5	7.5	10		1	0	CL01A310R♦	5			CL01D310R♦	10
		0	1	CL01A301R♦	5		CL01D301R♦	10						
32	18	4	7.5	7.5	10	1.7x10 ⁶	0	0	CL02A300R♦	5	Ref. no. see bottom	Ref. no. see bottom		
		5.5	10	10	13.5		1	0	CL02A310R♦	5			CL02D310R♦	10
		0	1	CL02A301R♦	5		CL02D301R♦	10						
45	25	7.5	11	11	15	1.2x10 ⁶	0	0	CL25A300R♦	5	Ref. no. see bottom	Ref. no. see bottom		
		10	15	15	20		1	0	CL25A310R♦	5			CL25D310R♦	10
		0	1	CL25A301R♦	5		CL25D301R♦	10						
45	25	7.5	12	12	15	2x10 ⁶	0	0	CL03A300R♦	10	Ref. no. see bottom	Ref. no. see bottom		
		10	16	16	20		1	0	CL03A310R♦	10			CL03D310R♦	10
		0	1	CL03A301R♦	10		CL03D301R♦	10						
60	32	9	16	16	18.5	2x10 ⁶	0	0	CL04A300R♦	10	Ref. no. see bottom	Ref. no. see bottom		
		12	22	22	25		1	0	CL04A310R♦	10			CL04D310R♦	10
		0	1	CL04A301R♦	10		CL04D301R♦	10						
60	40	11	18.5	22	25	2x10 ⁶	0	0	CL45A300R♦	10	Ref. no. see bottom	Ref. no. see bottom		
		15	25	30	34		1	0	CL45A310R♦	10			CL45D310R♦	10
		0	1	CL45A301R♦	10		CL45D301R♦	10						
90	50	15	22	25	30	1.8x10 ⁶	0	0	CL06A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		20	30	34	40		1	0	CL06A310R♦	1			CL06D310R♦	1
		0	1	CL06A301R♦	1		CL06D301R♦	1						
110	65	18.5	30	37	40	1.7x10 ⁶	0	0	CL07A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		25	40	50	55		1	0	CL07A310R♦	1			CL07D310R♦	1
		0	1	CL07A301R♦	1		CL07D301R♦	1						
110	80	22	37	45	45	1.5x10 ⁶	0	0	CL08A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		30	50	60	60		1	0	CL08A310R♦	1			CL08D310R♦	1
		0	1	CL08A301R♦	1		CL08D301R♦	1						
140	95	25	45	50	55	1.7x10 ⁶	0	0	CL09A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		34	60	68	75		1	0	CL09A310R♦	1			CL09D310R♦	1
		0	1	CL09A301R♦	1		CL09D301R♦	1						
140	105	30	55	55	65	1.5x10 ⁶	0	0	CL10A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		40	75	75	88		1	0	CL10A310R♦	1			CL10D310R♦	1
		0	1	CL10A301R♦	1		CL10D301R♦	1						

Spare coils


CL00 - CL25	LB1A ♦	5	LB1D ♦	5
CL03 - CL45	LB3A ♦	5	LB3D ♦	5
CL06 - CL10	LB4A ♦	5	LB4D ♦	1

(1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.10).


(2) Multipack, see C.9




Four pole contactors. Screw terminal



Max.oper.current Non-inductive loads		Admissible power AC1				Electrical endurance Operations	Power contacts		Control circuit: Alternating current		Control circuit: Direct current		Control circuit: Coil with electronic module (AC/DC)		
AC1 A	AC3 A	220V 230V	380V 400V	415V 440V	500V		Cat. AC1	d	b	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾	Pack ⁽²⁾
		kW	kW	kW	kW							Ref. no. see bottom		Ref. no. see bottom	
25	12	9.5	16.5	18	21.5	1.5x10 ⁶	4	0	CL01A400T♦	5	CL01D400T♦	10			
32	18	12	22	23	27.5	1.5x10 ⁶	4	0	CL02A400T♦	5	CL02D400T♦	10			
45	25	17	29	32	39	2x10 ⁶	4	0	CL03A400M♦	10	CL03D400M♦	10			
60	32	22.5	39.5	43	52	1.5x10 ⁶	4	0	CL04A400M♦	10	CL04D400M♦	10	CL05E400M♦	1	
90	50	34	59	64	78	1.5x10 ⁶	4	0	CL05A400M♦	1	CL05D400M♦	1	CL07E400M♦	1	
110	65	42	72.5	79	95	1.8x10 ⁶	4	0	CL07A400M♦	1	CL07D400M♦	1	CL09E400M♦	1	
140	95	53	92	100	121	1.8x10 ⁶	4	0	CL09A400M♦	1	CL09D400M♦	1			



Max.oper.current Non-inductive loads		Admissible power AC3				Electrical endurance Operations	Power contacts		Control circuit: Alternating current		Control circuit: Direct current		Control circuit: Coil with electronic module (AC/DC)	
AC1 A	Motors <440V, 3~ 50/60Hz AC3 A	220V 230V	380V 400V	415V 440V	500V		d	b	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾	Pack ⁽²⁾
		kW HP	kW HP	kW HP	kW HP					Ref. no. see bottom		Ref. no. see bottom		Ref. no. see bottom
25	12	3 4	5.5 7.5	5.5 7.5	7.5 10	2	2	CL01AB00T♦	5	CL01DB00T♦	5			
32	18	4 5.5	7.5 10	7.5 10	10 13.5	2	2	CL02AB00T♦	5	CL02DB00T♦	5			
45	25	7.5 10	12 16	12 16	15 20	2	2	CL03AB00M♦	10	CL03DB00M♦	10			
60	32	9 12	16 22	16 22	18.5 25	2	2	CL04AB00M♦	10	CL04DB00M♦	10			
90	40	11 15	18.5 25	22 30	25 34	2	2	CL05AB00M♦	1	CL05DB00M♦	1	CL05EB00M♦	1	
110	65	18.5 25	30 40	37 50	40 55	2	2	CL07AB00M♦	1	CL07DB00M♦	1	CL07EB00M♦	1	
110	80	22 30	37 50	45 60	45 60	2	2	CL08AB00M♦	1	CL08DB00M♦	1	CL08EB00M♦	1	



Spare coils					
	CL00 - CL25	LB1A ♦	5	LB1D ♦	5
	CL03 - CL45	LB3A ♦	5	LB3D ♦	5
	CL05A - CL08A	LB4A ♦	5	LB4D ♦	1
	Coil + Electronic module CL05E - CL08E	LB4E ♦	1		LB4E ♦ 1

(1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.10).
 (2) Multipack, see C.9

For reference numbers, see chapter X, pg. X.6



Four poles. Ring terminal



Max.oper.current Non-inductive load		Admissible power AC1				Electrical endurance Cat. AC1 Operations	Power contacts		Control circuit: Alternating current		Control circuit: Direct current		
AC1 A	AC3 A	220V 230V	380V 400V	415V 440V	500V		kW	kW	kW	kW	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾
25	12	9.5	16.5	18	21.5	1.5x10 ⁶	4	0	CL01A400R♦	5	CL01D400R♦	10	
32	18	12	22	23	27.5	1.5x10 ⁶	4	0	CL02A400R♦	5	CL02D400R♦	10	
45	25	17	29	32	39	2x10 ⁶	4	0	CL03A400R♦	10	CL03D400R♦	10	
60	32	22.5	39.5	43	52	1.5x10 ⁶	4	0	CL04A400R♦	10	CL04D400R♦	10	
90	50	34	59	64	78	1.5x10 ⁶	4	0	CL05A400R♦	1	CL05D400R♦	1	
110	65	42	72.5	79	95	1.8x10 ⁶	4	0	CL07A400R♦	1	CL07D400R♦	1	
140	95	53	92	100	121	1.8x10 ⁶	4	0	CL09A400R♦	1	CL09D400R♦	1	

Max.oper.current Non-inductive load		Admissible power AC3				Power contacts	Control circuit: Alternating current		Control circuit: Direct current				
AC1 A	Motors <440V, 3~ 50/60Hz AC3 A	220V 230V	380V 400V	415V 440V	500V		kW HP	kW HP	kW HP	kW HP	Cat. no. ⁽¹⁾	Pack ⁽²⁾	Cat. no. ⁽¹⁾
25	12	3 4	5.5 7.5	5.5 7.5	7.5 10	2	2	CL01AB00R♦	5	CL01DB00R♦	5		
32	18	4 5.5	7.5 10	7.5 10	10 13.5	2	2	CL02AB00R♦	5	CL02DB00R♦	5		
45	25	7.5 10	12 16	12 16	15 20	2	2	CL03AB00R♦	10	CL03DB00R♦	10		
60	32	9 12	16 22	16 22	18.5 25	2	2	CL04AB00R♦	10	CL04DB00R♦	10		



Spare coils




CL00 - CL25	LR1A ♦	5	LR1D ♦	5
CL03 - CL45	LR3A ♦	5	LR3D ♦	5
CL05A - CL08A	LR4A ♦	5	LR4D ♦	1

- (1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.10).
 (2) Multipack, see C.9



For reference numbers, see chapter X, pg. X.6



Auxiliary contact blocks

Instantaneous		Number of contacts	Contacts				Type	Time	Cat. no.	Ref. no.	Pack
			.3 .4	.1 .2	.7 .8	.5 .6					
	Frontal mounting	Terminal: screw									
		1	1	0	0	0			BCLF10	104700	10
		1	0	1	0	0			BCLF01	104701	10
		1	0	0	1	0			BCLF10G	104702	10
		1	0	0	0	1			BCLF01G	104703	10
		Terminal: ring terminal									
1	1	0	0	0			BCRF10	108901	10		
1	0	1	0	0			BCRF01	108902	10		
	Side mounting	Terminal: screw									
		2	2	0	0	0			BCLL20	104706	10
		2	1	1	0	0			BCLL11	104707	10
		For combinations of more than 4 front-mounted and 2 side-mounted auxiliary contact blocks									
		2	2	0	0	0			BRLL20	104704	10
		2	1	1	0	0			BRLL11	104705	10
2	0	2	0	0			BRLL02	106622	10		
Pneumatic timer											
	Front mounting	Terminal: screw									
		2	0	0	1	1	Delay ON	0.1 - 30 sec.	BTLF30C	104709	10
		2	0	0	1	1	Delay ON	1 - 60 sec.	BTLF60C	104710	10
		2	0	0	1	1	Delay OFF	0.1 - 30 sec.	BTLF30D	104711	10
		2	0	0	1	1	Delay OFF	1 - 60 sec.	BTLF60D	104712	10
		Terminal: ring terminal									
		2	0	0	1	1	Delay ON	0.1 - 30 sec.	BTRF30C	108903	10
		2	0	0	1	1	Delay ON	1 - 60 sec.	BTRF60C	108904	10
		2	0	0	1	1	Delay OFF	0.1 - 30 sec.	BTRF30D	108905	10
		2	0	0	1	1	Delay OFF	1 - 60 sec.	BTRF60D	108906	10
Seaking cover protection for pneumatic timer								BTLFX	113001	5	

Accessories

		Number of contacts	Contacts				For use with:	Cat. no. ⁽¹⁾	Ref. no.	Pack	
			.3 .4	.1 .2	.7 .8	.5 .6					
	Interlock	Mechanical									
		-	-	-	-	-	CL00 ... CL10	BELA	104723	5	
		Mech./ electrical									
		2	0	2	-	-	CL00 ... CL10	BELA02	104724	5	
Support interlock											
Only for direct current contactors						CL00D...CL10D	SBELA	101017	5		
	Mechanical latch blocks	Frontal mounted to the contactor							RMLF ♦	see bottom	10
		♦	D	G	HC	J	N	U	Y		
50Hz	24, 32	42, 48		110, 115, 120, 127	220, 230, 240		380, 400, 415, 440, 480	500, 660/690			
60Hz	24, 32	48, 60		110, 115, 120, 127	208, 220, 240, 277		380, 400, 415, 440, 480	600			
DC	24, 32, 36	42, 48	60, 72	110, 120, 125	220, 230, 240, 250		440				

1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.10).

For reference numbers, see chapter X, pg. X.6



Accessories

Transient voltage suppressor block



For use with:	Type	Control circuit	Ue	Cat. no.	Ref. no.	Pack
Fixation to the coil terminals, that allows simultaneous use with the auxiliary contact blocks.						
CL00 ... CL45	R/C	AC	12V ... 48V	BSLR2G	104713	10
CL00 ... CL45	R/C	AC	50V ... 127V	BSLR2K	104714	10
CL00 ... CL45	R/C	AC	130V ... 250V	BSLR2R	104715	10
CL05A ... CL10A	R/C	AC	12V ... 48V	BSLR3G	104716	10
CL05A ... CL10A	R/C	AC	50V ... 127V	BSLR3K	104717	10
CL05A ... CL10A	R/C	AC	130V ... 250V	BSLR3R	104718	10
CL ... D	Diode	DC	12V ... 600V	BSLDZ	104719	10
CL00 ... CL10	Varistor	AC / DC	24V ... 48V	BSLV3G	104720	10
CL00 ... CL10	Varistor	AC / DC	50V ... 127V	BSLV3K	104721	10
CL00 ... CL10	Varistor	AC / DC	130V ... 250V	BSLV3R	104722	10
CL00 ... CL10	Varistor	AC / DC	277V ... 500V	BSLV3U	110836	10

Electronic timer module



For use with:	Control circ.	Type	Time	Cat. no.	Ref. no.	Pack
Fixation to the coil terminals, that allows simultaneous use with the auxiliary contact blocks.						
CL00 ... CL10	24-250V AC/DC	delay ON	0.1 - 2 sec.	BETL02C	113602	5
CL00 ... CL10	24-250V AC/DC	delay ON	1.5 - 45 sec.	BETL45C	113603	5
CL00 ... CL10	24-250V AC/DC	delay OFF	0.1 - 2 sec.	BETL02D	113604	5
CL00 ... CL10	24-250V AC/DC	delay OFF	1.5 - 45 sec.	BETL45D	113605	5

Accessories

	For use with:			Cat. no.	Ref. no.	Pack
Identification	CL00 ... CL10	Sheets of labels (sheets of 260 labels each)		EAT 260	100548	1
	CL00 ... CL10	Labelling plate base (50 pieces in one pack)		SPR	100549	1
Pole terminal protector IPXXB	CL03 ... CL04			PTP04	113850	8
	CL45			PTP45	113851	6
	CL05 ... CL08			PTP08	113852	8
	CL09 ... CL10			PTP10	113853	8

Spares

	For use with:	Number of sets	Type		Cat. no.	Ref. no.	Pack
Contact kits	CL00	3	NO		V31200B	104738	1
	CL01_3 /CL01_4	3	NO		V31201B	104739	1
	CL01_B	4	2NO-2NC		VB1201B	104740	1
	CL02_3 /CL02_4	3	NO		V31202B	104741	1
	CL02_B	4	2NO-2NC		VB1202B	104742	1
	CL25_3	3	NO		V31225B	104757	1
	CL03_3 /CL03_4	3	NO		V31203B	104743	1
	CL03_B	4	2NAO-2NC		VB1203B	133170	1
	CL04_3 /CL04_4	3	NO		V31204B	104745	1
	CL04_B	4	2NO-2NC		VB1204B	133885	1
	CL45_3	3	NO		V31245B	104758	1
	CL05_4	4	NO		V31205B	104747	1
	CL05_B	4	2NO-2NC		VB1205B	104748	1
	CL06	3	NO		V31206B	104749	1
	CL07_3 /CL07_4	3	NO		V31207B	104750	1
	CL07_B	4	2NO-2NC		VB1207B	104751	1
	CL08_3 /CL08_4	3	NO		V31208B	104752	1
	CL08_B	4	2NO-2NC		VB1208B	104753	1
	CL09	3	NO		V31209B	104754	1
	CL10	3	NO		V31210B	104755	1

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