

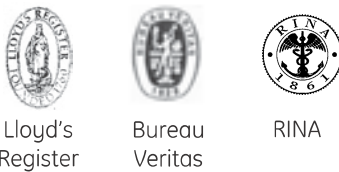
### Three and four pole contactors 9 to 105A (AC3) 25 to 140A (AC1)

- 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. <sup>(1)</sup>	Pack <sup>(3)</sup>	Cat. no. <sup>(1)</sup>	Pack <sup>(3)</sup>	Cat. no. <sup>(1)</sup>	Pack <sup>(3)</sup>
		kW HP	kW HP	kW HP	kW HP			Ref. no. see bottom		Ref. no. see bottom		Ref. no. see bottom		
25	9	2.2 3	4 5.5	4 5.5	5.5 7.5	2x10 <sup>6</sup>	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 <sup>6</sup>	0 1 0	0 0 1	CL01A300T♦ CL01A310T♦ CL01A301T♦	5 5 5			CL00D310T♦ CL00D301T♦ CL01D310T♦ CL01D301T♦	
32	18	4 5.5	7.5 10	7.5 10	10 13.5	1.7x10 <sup>6</sup>	0 1 0	0 0 1	CL02A300T♦ CL02A310T♦ CL02A301T♦	5 5 5			CL02D310T♦ CL02D301T♦	
45	25	7.5 10	11 15	11 15	15 20	1.2x10 <sup>6</sup>	0 1 0	0 0 1	CL25A300T♦ CL03A300M♦ CL03A310M♦ CL03A301M♦	5 10 10 10			CL25D300T♦ CL03D310M♦ CL03D301M♦	
45	25	7.5 10	12 16	12 16	15 20	2x10 <sup>6</sup>	0 1 0	0 0 1	CL04A300M♦ CL04A310M♦ CL04A301M♦	10 10 10			CL04D310M♦ CL04D301M♦	
60	32	9 12	16 22	16 22	18.5 25	2x10 <sup>6</sup>	0 1 0	0 0 1	CL45A300M♦ CL45A311M♦ <sup>(2)</sup>	10 10 10			CL45D300M♦	
60	40	11 15	18.5 25	22 30	25 34	2x10 <sup>6</sup>	0 1	0 1	CL06A300M♦ CL06A311M♦ <sup>(2)</sup>	10 1			CL06D300M♦	
90	50	15 20	22 30	25 34	30 40	1.8x10 <sup>6</sup>	0 1	0 1	CL07A300M♦ CL07A311M♦ <sup>(2)</sup>	1 1			CL07D300M♦	
110	65	18.5 25	30 40	37 50	40 55	1.7x10 <sup>6</sup>	0 1	0 1	CL08A300M♦ CL08A311M♦ <sup>(2)</sup>	1 1			CL08D300M♦	
110	80	22 30	37 50	45 60	45 60	1.5x10 <sup>6</sup>	0 1	0 1	CL09A300M♦ CL09A311M♦ <sup>(2)</sup>	1 1			CL09D300M♦	
140	95	25 34	45 60	50 68	55 75	1.7x10 <sup>6</sup>	0 1	0 1	CL10A300M♦ CL10A311M♦ <sup>(2)</sup>	1 1			CL10D300M♦	
140	105	30 40	55 75	55 75	65 88	1.5x10 <sup>6</sup>	0 1	0 1	CL10E300M♦ CL10E311M♦ <sup>(2)</sup>	1 1			CL10E300M♦	
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



## 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 Cat. AC3 Operations	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 <sup>6</sup>	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	0	1		0	1	CL00A301R♦	5			CL00D301R♦	10
25	12	3	5.5	5.5	7.5	2x10 <sup>6</sup>	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	0	1		0	1	CL01A301R♦	5			CL01D301R♦	10
32	18	4	7.5	7.5	10	1.7x10 <sup>6</sup>	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	0	1		0	1	CL02A301R♦	5			CL02D301R♦	10
45	25	7.5	11	11	15	1.2x10 <sup>6</sup>	0	0	CL25A300R♦	5	Ref. no. see bottom	Ref. no. see bottom		
		10	15	15	20		1	0	CL25A310R♦	5			CL25D310R♦	10
		0	1	0	1		0	1	CL25A301R♦	5			CL25D301R♦	10
45	25	7.5	12	12	15	2x10 <sup>6</sup>	0	0	CL03A300R♦	10	Ref. no. see bottom	Ref. no. see bottom		
		10	16	16	20		1	0	CL03A310R♦	10			CL03D310R♦	10
		0	1	0	1		0	1	CL03A301R♦	10			CL03D301R♦	10
60	32	9	16	16	18.5	2x10 <sup>6</sup>	0	0	CL04A300R♦	10	Ref. no. see bottom	Ref. no. see bottom		
		12	22	22	25		1	0	CL04A310R♦	10			CL04D310R♦	10
		0	1	0	1		0	1	CL04A301R♦	10			CL04D301R♦	10
60	40	11	18.5	22	25	2x10 <sup>6</sup>	0	0	CL45A300R♦	10	Ref. no. see bottom	Ref. no. see bottom		
		15	25	30	34		1	0	CL45A310R♦	10			CL45D310R♦	10
		0	1	0	1		0	1	CL45A301R♦	10			CL45D301R♦	10
90	50	15	22	25	30	1.8x10 <sup>6</sup>	0	0	CL06A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		20	30	34	40		1	0	CL06A310R♦	1			CL06D310R♦	1
		0	1	0	1		0	1	CL06A301R♦	1			CL06D301R♦	1
110	65	18.5	30	37	40	1.7x10 <sup>6</sup>	0	0	CL07A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		25	40	50	55		1	0	CL07A310R♦	1			CL07D310R♦	1
		0	1	0	1		0	1	CL07A301R♦	1			CL07D301R♦	1
110	80	22	37	45	45	1.5x10 <sup>6</sup>	0	0	CL08A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		30	50	60	60		1	0	CL08A310R♦	1			CL08D310R♦	1
		0	1	0	1		0	1	CL08A301R♦	1			CL08D301R♦	1
140	95	25	45	50	55	1.7x10 <sup>6</sup>	0	0	CL09A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		34	60	68	75		1	0	CL09A310R♦	1			CL09D310R♦	1
		0	1	0	1		0	1	CL09A301R♦	1			CL09D301R♦	1
140	105	30	55	55	65	1.5x10 <sup>6</sup>	0	0	CL10A300R♦	1	Ref. no. see bottom	Ref. no. see bottom		
		40	75	75	88		1	0	CL10A310R♦	1			CL10D310R♦	1
		0	1	0	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

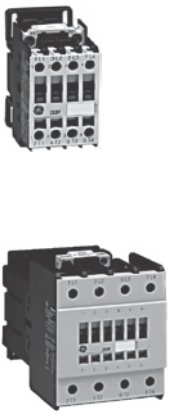
(1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.10).

(2) Multipack, see C.9


Four pole contactors. Screw terminal



Max.oper.current Non-inductive loads		Admissible power AC1				Electrical endurance Cat. AC1 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		kW	kW	kW	kW	Cat. no. (1)	Pack (2)	Cat. no. (1)	Pack (2)	Cat. no. (1)
25	12	9.5	16.5	18	21.5	1.5x10 <sup>6</sup>	4	0	CL01A400T◆	5	CL01D400T◆	10			
32	18	12	22	23	27.5	1.5x10 <sup>6</sup>	4	0	CL02A400T◆	5	CL02D400T◆	10			
45	25	17	29	32	39	2x10 <sup>6</sup>	4	0	CL03A400M◆	10	CL03D400M◆	10			
60	32	22.5	39.5	43	52	1.5x10 <sup>6</sup>	4	0	CL04A400M◆	10	CL04D400M◆	10			
90	50	34	59	64	78	1.5x10 <sup>6</sup>	4	0	CL05A400M◆	1	CL05D400M◆	1	CL05E400M◆	1	
110	65	42	72.5	79	95	1.8x10 <sup>6</sup>	4	0	CL07A400M◆	1	CL07D400M◆	1	CL07E400M◆	1	
140	95	53	92	100	121	1.8x10 <sup>6</sup>	4	0	CL09A400M◆	1	CL09D400M◆	1	CL09E400M◆	1	



Max.oper.current Non-inductive loads		Motors <440V, 3~ 50/60Hz		Admissible power AC3				Electrical endurance Cat. AC3 Operations	Power contacts		Control circuit: Alternating current		Control circuit: Direct current		Control circuit: Coil with electronic module (AC/DC)		
AC1 A	AC3 A	kW HP	kW HP	220V 230V	380V 400V	415V 440V	500V		kW HP	kW HP	kW HP	kW HP	Cat. no. (1)	Pack (2)	Cat. no. (1)	Pack (2)	Cat. no. (1)
25	12	3 4	5.5 7.5	5.5 7.5	7.5 10	7.5 10	10 13.5	2	2	CL01AB00T◆	5	CL01DB00T◆	5				
32	18	4 5.5	7.5 10	7.5 10	10 13.5	10 13.5	13.5 18	2	2	CL02AB00T◆	5	CL02DB00T◆	5				
45	25	7.5 10	12 16	12 16	15 20	15 20	20 27	2	2	CL03AB00M◆	10	CL03DB00M◆	10				
60	32	9 12	16 22	16 22	18.5 25	18.5 25	25 34	2	2	CL04AB00M◆	10	CL04DB00M◆	10				
90	40	11 15	18.5 25	22 30	25 34	25 34	34 45	2	2	CL05AB00M◆	1	CL05DB00M◆	1	CL05EB00M◆	1		
110	65	18.5 25	30 40	37 50	40 55	40 55	55 75	2	2	CL07AB00M◆	1	CL07DB00M◆	1	CL07EB00M◆	1		
110	80	22 30	37 50	45 60	45 60	45 60	60 80	2	2	CL08AB00M◆	1	CL08DB00M◆	1	CL08EB00M◆	1		



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

A

B

C

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E

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X



Max.oper.current Non-inductive load		Admissible power AC3				Electrical endurance Operations	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		d	b	Cat. no. <sup>(1)</sup>	Pack <sup>(2)</sup>	Cat. no. <sup>(1)</sup>	Pack <sup>(2)</sup>
		kW HP	kW HP	kW HP	kW HP			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	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



Auxiliary contact blocks

Instantaneous		Number of contacts	Contacts				Type	Time	Cat. no.	Ref. no.	Pack				
	Frontal mounting	Terminal: screw	.3	.1	.7	.5									
			.4	.2	.8	.6									
			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							
	Side mounting	Terminal: ring terminal	1	1	0	0	0	BCRF10	108901	10					
			1	0	1	0	0	BCRF01	108902	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						
	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. <sup>(1)</sup>	Ref. no.	Pack						
	Interlock	Mechanical	.3	.1	.7	.5	CL00 ... CL10	BELA	104723	5						
			.4	.2	.8	.6										
			-	-	-	-										
			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					CL00 ... CL10	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

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

	For use with:	Control circ.	Type	Time	Cat. no.	Ref. no.	Pack
 <p><b>Electronic timer module</b></p>	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.	<b>BETL02C</b>	113602	5
	CL00 ... CL10	24-250V AC/DC	delay ON	1.5 - 45 sec.	<b>BETL45C</b>	113603	5
	CL00 ... CL10	24-250V AC/DC	delay OFF	0.1 - 2 sec.	<b>BETL02D</b>	113604	5
	CL00 ... CL10	24-250V AC/DC	delay OFF	1.5 - 45 sec.	<b>BETL45D</b>	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



### Conformity to standards

IEC/EN 60947-1	EN 50005	UNE 20109
IEC/EN 60947-4-1	CENELEC HD419	BS 5424 & 775
IEC/EN 60947-5-1	NF C63-110	NEMA ICS 1
UL 508	ASE 1025	VDE 0660/102
CSA 22.2/14		

### Approvals

cULus	RINA	CE
SETI	IMQ (up to Ith:32A)	
Lloyd's Register	Bureau Veritas	

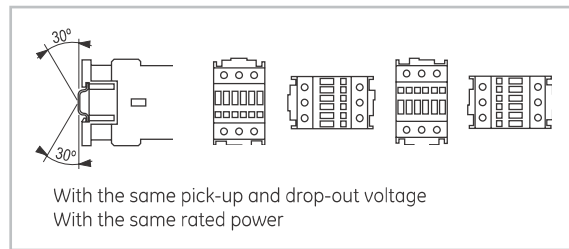
### Ambient conditions

Storage temperature	-55°C to +80°C	
Operation temperature	-40°C to +60°C	
Altitude	up to 3000m Nominal values	
	from 3000 up to 4000m	90%le 80%Ue
	from 4000 up to 5000m	80%le 75%Ue

### Climatic resistance (IEC 68-2)

Continuous tests 40 / 125 / 56	Cyclic test (6 cycles)
Cold (72h)	Humid heat
Temperature -40°C	First half-cycle (12h)
Dry heat (96h)	Low temperature +25°C
Temperature +125°C	Relative humidity 93%
Relative humidity < 50%	Second half-cycle (12h)
Humid heat (56h)	Low temperature +55°C
Temperature +40°C	Relative humidity 95%
Relative humidity 95%	

### Mounting positions



### Terminal capacity and tightening torque

		CL00 ... CL02	CL25	CL03 ... CL04	CL45	CL05 ... CL08	CL09 ... CL10
	Solid, stranded and finely stranded without end sleeve (mm²)	2 x 0.5 ... 2.5	2 x 0.5 ... 2.5	-	-	-	-
	Finely stranded with or without end sleeve (mm²)	2 x 1 ... 2.5	2 x 1 ... 2.5	-	-	-	-
	AWG wires	2 x 20 ... 12	2 x 20 ... 8	-	-	-	-
	Tightening torque (Nm)	1.6	2.2	-	-	-	-
		(Lb x in.)	15	20	-	-	-
	Solid, stranded and finely stranded without end sleeve (mm²)	-	-	0.75 ... 16	0.75 ... 16	1 ... 35	1.5 ... 50
	Finely stranded with end sleeve (mm²)	-	-	0.75 ... 16	0.75 ... 16	1 ... 35	1.5 ... 50
	Finely stranded w/o end sleeve (mm²)	-	-	1 ... 16	1 ... 16	1 ... 35	1.5 ... 50
	AWG wires	-	-	18 ... 6	18 ... 6	16 ... 2	16 ... 2
	Tightening torque (Nm)	-	-	1.4	1.8	4	5.6
		(Lb x in.)	-	-	12	16	35
	Solid (mm²)	-	-	0.75 ... 16	0.75 ... 16	1 ... 16	4 ... 35
	Stranded (mm²)	-	-	0.75 ... 16	0.75 ... 16	1 ... 25	4 ... 35
	Finely stranded w/o end sleeve (mm²)	-	-	0.75 ... 16	0.75 ... 16	1 ... 25	4 ... 35
	Finely stranded with end sleeve (mm²)	-	-	1 ... 16	1 ... 16	1 ... 25	4 ... 35
	AWG wires	-	-	18 ... 6	18 ... 6	16 ... 4	10 ... 1
Tightening torque (Nm)	-	-	1.4	1.8	4	5.6	
		(Lb x in.)	-	-	12	16	35
	Solid, stranded and finely stranded without end sleeve (mm²)	-	-	Max. 16	Max. 16	Max. 50 ... 4	Max. 50 ... 35
	Finely stranded w/o end sleeve (mm²)	-	-			Max. 25 ... 16	
	Finely stranded with end sleeve (mm²)	-	-			Max. 25 ... 16	
	AWG wires	-	-	Max. 6	Max. 6	Max. 25 ... 25	Max. 1
Tightening torque (Nm)	-	-	1.4	1.8	4	5.6	
		(Lb x in.)	-	-	12	16	35
	Ring terminals (Ø i)	3,6	4,2	4,2	4,2	6,2	6,2
	(acc. with IEC/EN 60947-1) (A)	8	10	10	10	12,5	12,5
	Tightening torque (Nm)	1,6	1,4	1,4	1,4	3	3
		(Lb x in.)	15	12	12	12	26

## Power circuit

	CL00	CL01	CL02	CL25	CL03	CL04	CL45	CL05	CL06	CL07	CL08	CL09	CL10
<b>Three pole version</b>													
Rated thermal current I <sub>th</sub> at θ ≤ 55°C (A)	25	25	32	45	45	60	60	-	90	110	110	140	140
Rated operational current I <sub>e</sub> AC-3 (A)	9	12	18	25	25	32	40	-	50	65	80	95	105
Rated operational voltage U <sub>e</sub> (V)	690	690	690	690	690	690	690	-	690	690	690	690	690
<b>Four pole version (4NO and 2NO+2NC)</b>													
Rated thermal current I <sub>th</sub> at θ ≤ 55°C (A)	-	25	32	-	45	60	-	90	-	110	110	140	-
Rated operational voltage U <sub>e</sub> (V)	-	690	690	-	690	690	-	690	-	690	690	690	-
<b>Three and four pole version</b>													
Rated insulation voltage U <sub>i</sub> (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum continuous current AC-1 (A)	25	25	32	45	45	60	60	90	90	110	110	140	140
Frequency limits (Hz)	25..400	25..400	25..400	25..400	25..400	25..400	25..400	25..400	25..400	25..400	25..400	25..400	25..400
Making capacity (RMS) (IEC 947) (A)	450	450	450	450	550	550	550	1000	1000	1000	1000	1280	1280
Breaking capacity (RMS) (IEC 947)													
U <sub>e</sub> ≤ 400V (A)	250	250	250	350	450	450	450	920	920	920	920	1050	1050
U <sub>e</sub> = 500V (A)	250	250	250	320	450	450	450	920	920	920	920	1050	1050
U <sub>e</sub> = 690V (A)	130	130	130	170	205	205	205	780	780	780	780	950	950
Short-time current													
1 sec. (A)	455	455	570	630	1010	1010	1265	1580	1580	2530	2530	3300	3300
5 sec. (A)	205	205	254	280	450	450	450	565	710	1130	1130	1485	1485
10 sec. (A)	144	144	180	200	320	320	400	500	500	800	800	1050	1050
30 sec. (A)	85	85	104	115	185	185	230	290	290	460	460	600	600
1 min. (A)	60	60	74	80	130	130	165	205	205	325	325	430	430
3 min. (A)	35	35	46	50	90	90	100	120	120	185	185	250	250
Recovery time (min.)	10	10	10	10	10	10	10	10	10	10	10	10	10
Protec. against short-circuit with fuses without TOR													
Coordination type "1"													
gL/gG (A)	50	50	63	63	100	100	125	200	200	200	200	250	250
Coordination type "2"													
gL-gG (A)	25	35	35	50	63	63	80	100	100	125	125	160	200
Without welding													
gL-gG (A)	10	10	25	35	35	35	50	80	80	100	100	140	160
Impedance per pole (mΩ)	2.35	2.35	2.41	1.65	1.28	1.28	0.95	0.85	0.85	0.86	0.86	0.76	0.76
Power dissipation per pole													
AC-1 (W)	1.47	1.47	2.46	3.34	2.59	4.6	3.42	6.89	6.86	10.40	10.40	14.89	14.89
AC-3 (W)	0.19	0.34	0.78	1.03	0.80	1.31	1.52	1.36	2.12	3.63	5.5	6.86	8.37
Insulation resistance													
Between adjacent poles (mΩ)	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
Between poles and earth (mΩ)	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
Between input and output (mΩ)	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10



Control circuit

		CL00 ... CL25	CL03 ... CL45	CL05 ... CL08	CL09 ... CL10
<b>Alternating current</b>					
Rated insulation voltage $U_i$	(V)	1000	1000	1000	1000
Standard voltages $U_s$ 50 Hz	(V)	24...690	24...690	24...690	24...690
Standard voltages $U_s$ 60 Hz	(V)	24...600	24...600	24...600	24...600
Voltage operating limits monofrequency coils					
Operating	xUs	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1
Pick-up	xUs	0.6...0.8	0.65...0.8	0.65...0.8	0.65...0.8
Seal	xUs	0.35...0.55	0.4...0.6	0.4...0.6	0.4...0.6
Voltage operating limits 50/60 Hz coils					
Operating 50 Hz	xUs	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1
Operating 60 Hz	xUs	0.85...1.1	0.85...1.1	0.85...1.1	0.85...1.1
Pick-up 50 Hz	xUs	0.5...0.8	0.6...0.8	0.6...0.8	0.6...0.8
Pick-up 60 Hz	xUs	0.65...0.85	0.7...0.85	0.7...0.85	0.7...0.85
Seal 50 Hz	xUs	0.3...0.55	0.35...0.60	0.35...0.60	0.35...0.60
Seal 60 Hz	xUs	0.35...0.65	0.4...0.6	0.4...0.6	0.4...0.6
Consumption monofrequency coils					
Magnetic circuit closed	(VA)	6	9	15.5	15.5
Magnetic circuit opened (VA)		48	88	190	190
Consumption bifrequency coils					
Magnetic circuit closed (50 Hz/60 Hz)	(VA)	6.8 / 5.6	11.4 / 9.5	20 / 16.6	20 / 16.6
Magnetic circuit opened (50 Hz/60 Hz)	(VA)	53 / 44	120 / 100	245 / 204	245 / 204
Thermal power dissipation (50 Hz/60 Hz)	(W)	2.2 / 1.8	3.2 / 2.6	5.2 / 4.3	5.2 / 4.3
Power factor					
Magnetic circuit closed	cos $\varphi$	0.33	0.28	0.26	0.26
Magnetic circuit opened	cos $\varphi$	0.84	0.73	0.54	0.54
Opening and closing times					
Values between + 10 % $U_s$ and - 20 % $U_s$					
Time on energisation (NO)	(ms)	6...20	7...25	9...35	9...35
Time on de-energisation (NO)	(ms)	6...13	5...25	9...15	9...15
Values at $U_s$					
Time on energisation (NO)	(ms)	8...20	10...19	15...30	15...30
Time on de-energisation (NO)	(ms)	6...13	5...25	9...15	9...15
Mechanical endurance					
Monofrequency coils	$10^6$ ops.	15	15	15	15
Bifrequency coils (at 50 Hz)	$10^6$ ops.	10	10	8	8
Maximum rate					
Monofrequency coils. No load	ops./h	9000	9000	9000	5000
AC-1 at rated power	ops./h	1200	1200	1200	1200
AC-2 at rated power	ops./h	1000	1000	1000	750
AC-3 at rated power	ops./h	1200	1200	1200	600
AC-4 at rated power	ops./h	360	360	200	200
Bifrequency coils. No load	ops./h	3600	3600	3600	3600

		CL00D ... CL25D		Coils with electronic module		Coils with wide voltage range		
		CL00D ... CL25D	CL03D ... CL45D	CL05E ... CL08E	CL09E ... CL10E	CL00D..W ... CL25D..W	CL03D..W ... CL45D..W	CL05D..W ... CL10D..W
<b>Direct current</b>								
Rated insulation voltage $U_i$	(V)	1000	1000	1000	1000	1000	1000	1000
Standard voltages $U_s$	(V)	12...440	12...440	24...440	24...440	12...440	12...440	12...440
Operating limits								
Operating	xUs	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.7...1.3	0.7...1.3	0.7...1.3
Pick-up	xUs	0.45...0.65	0.45...0.65	0.70...0.80	0.70...0.80	0.45...0.55	0.45...0.55	0.45...0.55
Drop-out	xUs	0.15...0.3	0.15...0.3	0.4...0.6	0.4...0.6	0.15...0.3	0.15...0.3	0.15...0.3
Consumption								
Magnetic circuit closed	(W)	5.5	8	10	10	6.5	10.4	20
Magnetic circuit opened (W)		5.5	8	170	170	6.5	10.4	20
Opening and closing times								
Values between + 10 % $U_s$ and - 20 % $U_s$								
Time on energisation (NO)	(ms)	35...65	35...70	60...80	60...80	26...55	30...65	64...133
Time on de-energisation (NO)	(ms)	6...15	40...65	40...50	40...50	6...15	5...10	20...23
Values at $U_s$								
Time on energisation (NO)	(ms)	35...45	40...55	50...60	50...60	35...45	40...55	75...95
Time on de-energisation (NO)	(ms)	7...12	30...65	55...60	55...60	7...12	6...8	20...22
Mechanical endurance								
No load	$10^6$ ops.	15	15	12	12	15	15	12
Maximum rate								
No load	ops./h	3600	3600	2500	2500	3600	3600	3600
AC1 and AC3 at rated power	ops./h	1200	1200	1200	600	1200	1200	1200
AC4 at rated power	ops./h	360	360	200	200	360	360	200



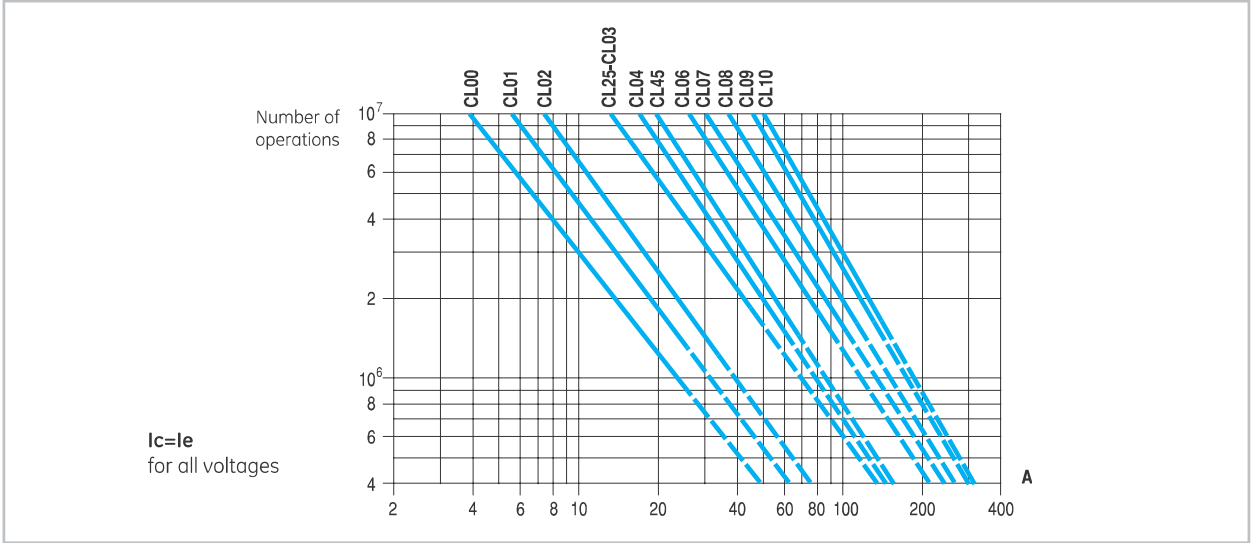
## Electrical endurance

### Mixed category AC4 / AC3

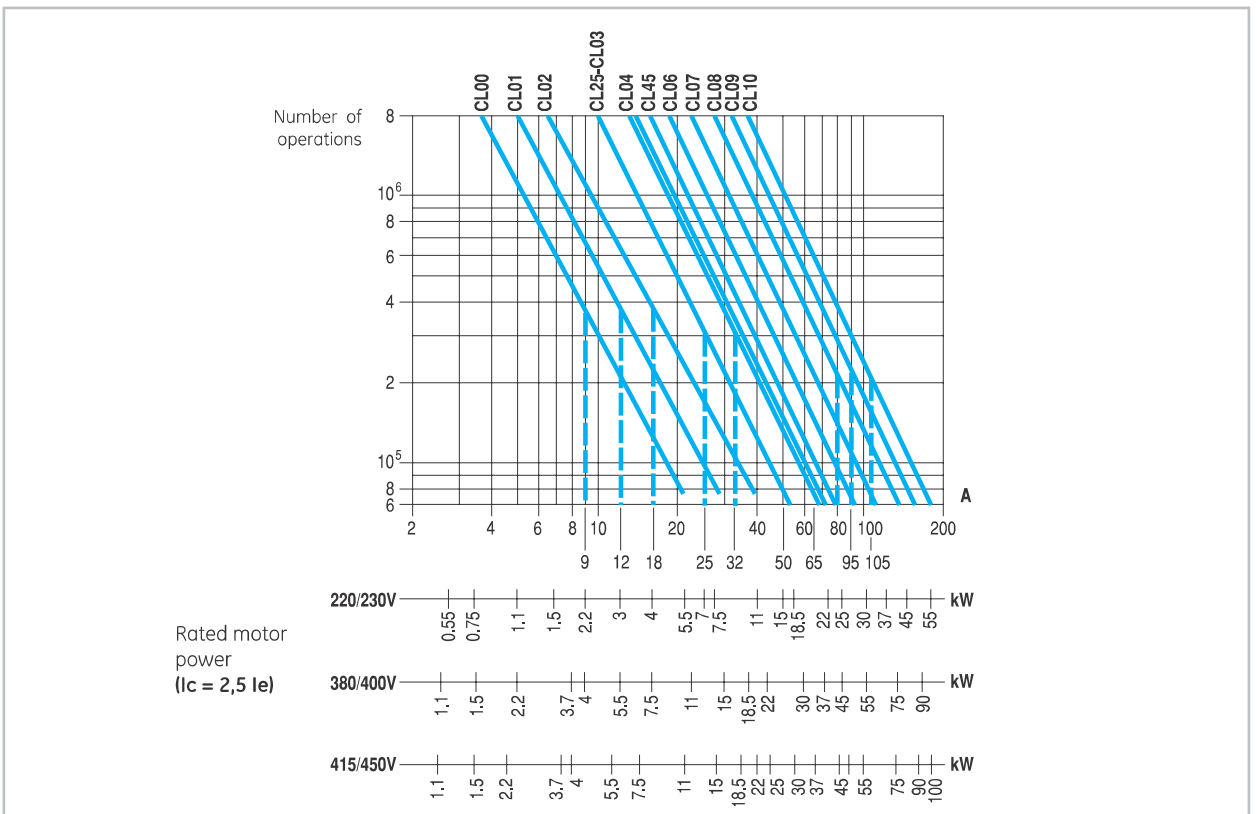
Electrical endurance for mixed category (AC-3/AC-4) is calculated with the following formula:

$$\text{Electrical endurance (AC-3/AC-4)} = \frac{\text{Electrical endurance (AC-3)}}{1 + \frac{\% \text{ oper AC-4}}{100}} \times \left( \frac{\text{Elec.endur. (AC-3)}}{\text{Elec.endur.(AC-4)}} - 1 \right)$$

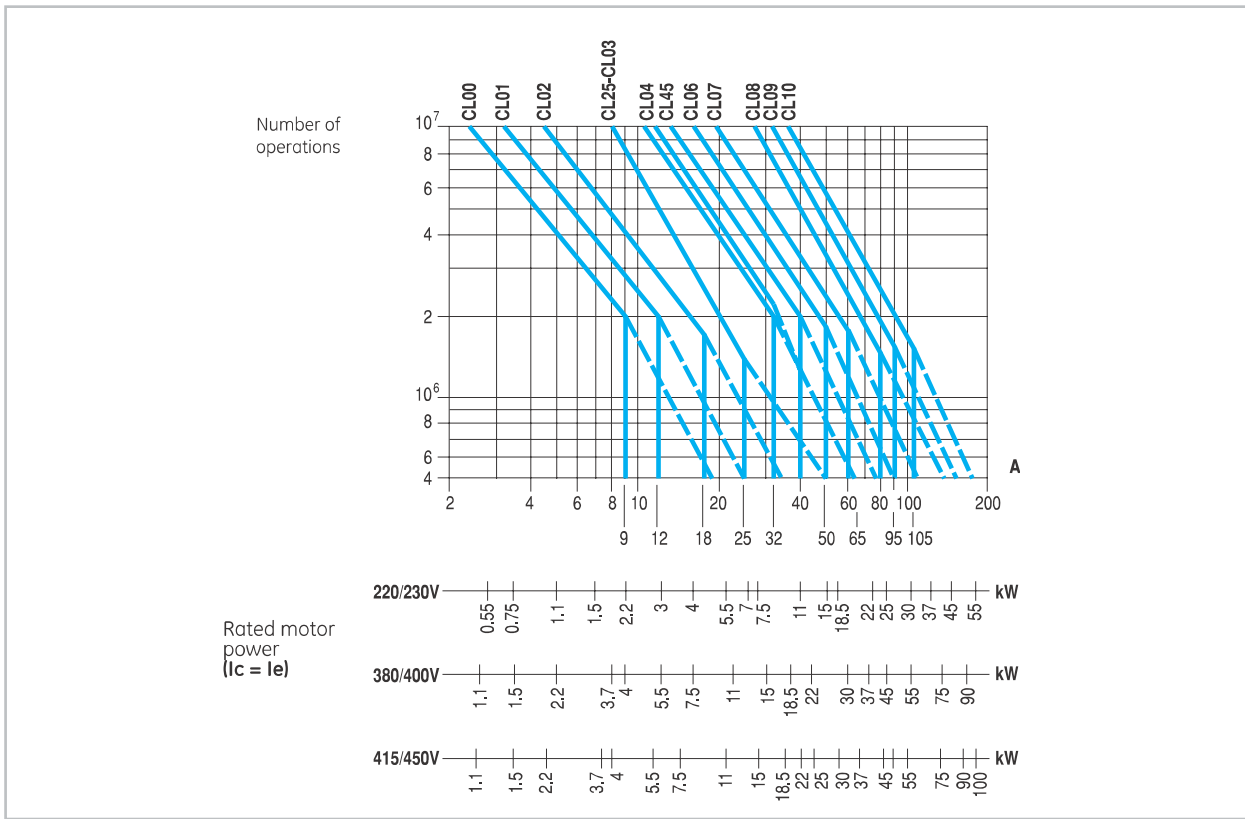
### Category AC1



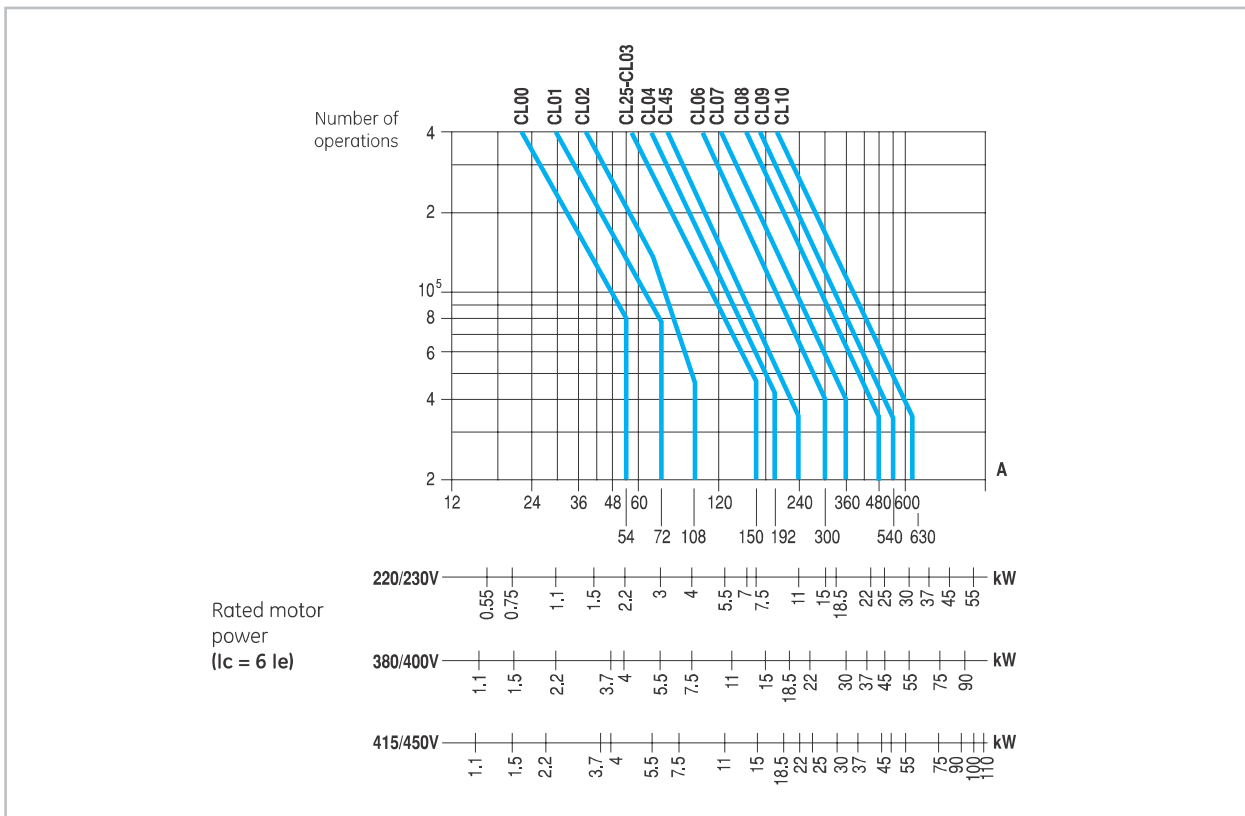
### Category AC2



Category AC3



Category AC4



## Internal auxiliary contacts

				CL00 ... CL02		CL03 ... CL04	
Rated insulation voltage $U_i$ according to IEC 60947	(V)			1000		1000	
Rated thermal current $I_{th}$ at $\theta \leq 55^\circ\text{C}$	(A)			20		20	
Making capacity (r.m.s.) acc. to IEC 60947							
AC-15	$U_e \leq 400\text{V}, 50/60\text{ Hz}$	(A)		250		250	
DC-13	$U_e \leq 220\text{V DC}$	(A)		250		250	
Breaking capacity (r.m.s.) acc.to IEC 60947							
AC-15	$U_e \leq 400\text{V}, 50/60\text{ Hz}$	(A)		250		250	
DC-13	$U_e \leq 220\text{V DC}$	(A)		2		2	
AC-15	Rated voltage and current $U_e$ - $I_e$	according to IEC		110/120V-10A 400/380V-6A 500V-4A	220/230V-10A 415/450V-5A 690/660V-2A	110/120V-10A 400/380V-6A 500V-4A	230/220V-10A 415/450V-5A 690/660V-2A
		according to UL, CSA		A600		A600	
DC-13	Rated voltage and current $U_e$ - $I_e$	according to IEC		24V-6A 110V-2A 440V-0.35A	48V-4A 220V-0.7A	24V-6A 110V-2A 440V-0.35A	48V-4A 220V-0.7A
		according to CSA		P600		P600	
Electrical endurance		ops.		$10^6$		$10^5$	
Minimum operational power (operational safety)				17V - 5mA		17V - 5mA	
Short-circuit protect.	Max.fuse class gI-gG without welding	(A)		10		10	
Insulation resistance	Between contacts	( $\text{m}\Omega$ )		$> 10$		$> 10$	
	Between contacts and earth	( $\text{m}\Omega$ )		$> 10$		$> 10$	
	Between input and output	( $\text{m}\Omega$ )		$> 10$		$> 10$	
Guaranteed no overlap between NO and NC contacts							
	Space	(mm)		1.3		2.6	
	Time	(ms)		1.5		1.5	
Impedance of the contacts		( $\text{m}\Omega$ )		1.28		1.28	

## Auxiliary contact blocks

				Instantaneous BCLF..., BCRF..., BCLL..., BRLL...		Timed blocks BTLF..., BTRF...	
Rated insulation voltage $U_i$ according to IEC 60947	(V)			1000		1000	
Rated thermal current $I_{th}$ at $\theta \leq 55^\circ\text{C}$	(A)			10		10	
Making capacity (I <sub>eff</sub> ) according to IEC 60947							
AC-15	$U_e \leq 400\text{V}, 50/60\text{ Hz}$	(A)		90		90	
DC-13	$U_e \leq 220\text{V DC}$	(A)		90		90	
Breaking capacity (I <sub>eff</sub> ) according to IEC 60947							
AC-15	$U_e \leq 400\text{V}, 50/60\text{ Hz}$	(A)		60		60	
DC-13	$U_e \leq 220\text{V DC}$	(A)		0.95		0.95	
AC-15	Rated voltage and current $U_e$ - $I_e$	according to IEC		120/110V-6A 400/380V-4A 500V-2.5A	230/220V-6A 440/415V-3.5A 690/660V-1.5A	120/110V-6A 400/380V-4A 500V-2.5A	230/220V-6A 440/415V-3.5A 690/660V-1.5A
		according to UL, CSA		A600		A600	
DC-13	Rated voltage and current $U_e$ - $I_e$	according to IEC		24V-4A 110V-0.7A 440V-0.15A	48V-2A 220V-0.3A	24V-4A 110V-0.7A 440V-0.15A	48V-2A 220V-0.3A
		according to UL, CSA		Q600		Q600	
Electrical endurance		$10^6$ ops.		1		1	
Mechanical endurance		$10^6$ ops.		10		5	
Minimum operational current (operational safety)				17V - 5mA		17V - 5mA	
Short-circuit protect.	Max.fuse class gI-gG without welding	(A)		10		10	
Insulation resistance	Between contacts	( $\text{m}\Omega$ )		$> 10$		$> 10$	
	Between contacts and earth	( $\text{m}\Omega$ )		$> 10$		$> 10$	
	Between input and output	( $\text{m}\Omega$ )		$> 10$		$> 10$	
Guaranteed no overlap between NO and NC contacts							
	Space	(mm)		1.3		1.3	
	Time	(ms)		1.5		5	
Impedance of the contacts		( $\text{m}\Omega$ )		1.28		1.28	
Timing (ambient temperature between $-25^\circ\text{C}$ and $+55^\circ\text{C}$ )							
	Accuracy			-		$\pm 5\%$	
	Loss of accuracy $0.5 \times 10^6$ ops.			-		$+20\%$	
	Loss of accuracy per rise $^\circ\text{C}$ ( $0 - 55^\circ\text{C}$ )			-		$+0.75\%$ per $^\circ\text{C}$	

### Mechanical latch blocks

	RMLF...	
Rated insulation voltage $U_i$	1000 V	
Standard voltages $U_s$ : 50 to 60 Hz and DC	24...690 V	
Operating limits	0.75...1.1 xUs	
Consumption for unlatching (auto cut-out)	24 to 72 V	210 W / VA
	110 to 440 V	130 W / VA
Electrical unlatching control <sup>(1)</sup>		
Minimum impulse	10 ms	
Maintained	auto cut-out by integral contact	
Manual unlatching control	by local push-button	
Electrical making control		
Minimum pulse	40 ms auto cut-out by integral contact	
Manual making control	by local push-button	
Auxiliary contact NC		
Utilisation AC-15 according to IEC	120V - 6A	500V - 1.5A
	230V/220V - 4A	690V/660V - 1A
	400V/380V - 2.5A	
according to UL/CSA	A600	
Utilisation DC-13 according to IEC	24V - 3A	220V - 0.3A
	48V - 1.5A	400V - 0.15A
	110V - 0.6A	
according to UL/CSA	Q600	
Mechanical endurance		
CL00...CL45	3 million (1200 ops./h)	
CL05...CL10	0.1 million (300 ops./h)	
Wiring diagram Alternating current		
Alternating current / Direct current		

(1) The contactor coil and the unlatch control must not be energised simultaneously

### Terminal capacity

	Terminal: screw BCLF, BCLL, BTLF y RMLF	Terminal: ring terminal BCRF, BTRF
Solid	2 x 0.5 to 2.5 or 1 x 4	
Stranded and finely stranded without end sleeve	2 x 0.5 to 2.5 or 1 x 4	
Finely stranded with end sleeve	2 x 0.5 to 2.5 or 1 x 4	
AWG wires, solid and stranded	12 - 22 AWG 75°C	
Tightening torque	1.1 Nm / 10 Lb x in.	
	Ring terminal	3.6 min. 6.5 max.
	Tightening torque	0.8 Nm / 7 Lb x in.

Contact sequence

		Basic contactor	Auxiliary contact blocks Front mounted		Auxiliary contact blocks Lateral mounted		
			BCLF 10 BCRF 10	BCLF 01 BCRF 01	BCLL 20 BRLL 20	BCLL 11 BRLL 11	
Three pole contactors 3 NO	CL00... CL01... CL02...						
	CL25...						
	CL03... CL04...						
	CL45...						
	CL06...						
	CL07... CL08...						
	CL09...						
	CL10...						
	Four pole contactors 4 NO	CL01... CL02...					
		CL03... CL04...					
CL05...							
CL07...							
CL09...							
Four pole contactors 2 NO + 2 NC		CL01... CL02...					
	CL03... CL04...						
	CL05...						
	CL07... CL08...						

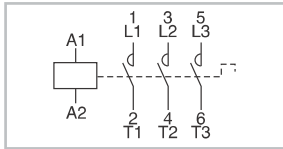




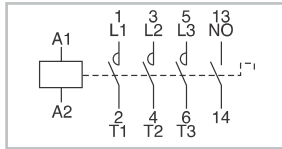
**Terminal numbering**

**Three-pole and four-pole AC contactors**

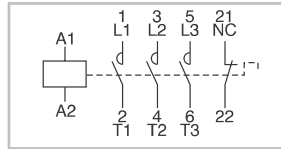
CL00A300 ... CL10A300  
 CL25D300 ... CL45D300  
 CL06E300 ... CL10E300



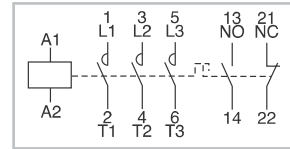
CL00\_310 ... CL02\_310  
 CL03\_310 ... CL04\_310



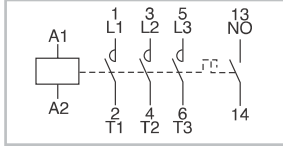
CL00\_301 ... CL02\_301  
 CL03\_301 ... CL04\_301



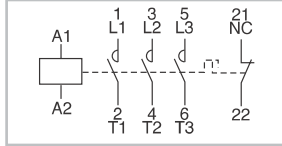
CL45A311 ... CL10A311



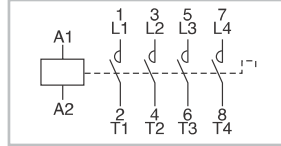
CL25\_310



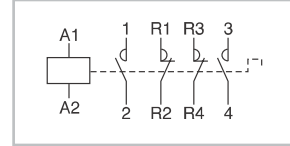
CL25\_301



CL00A400 ... CL08A400  
 CL01D400 ... CL04D400  
 CL05E400 ... CL09E400

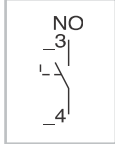


CL01AB00 ... CL08AB00  
 CL01DB00 ... CL04DB00  
 CL05EB00 ... CL08EB00

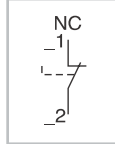


**Auxiliary contact blocks. Front mounting**

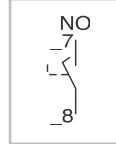
BC\_F10



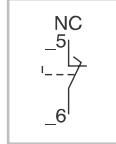
BC\_F01



BCLF10G

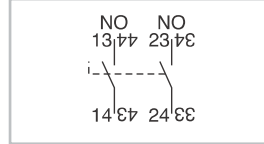


BCLF01G

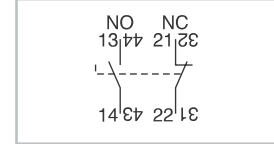


**Auxiliary contact blocks. Lateral mounting**

BCLL20

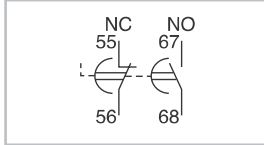


BCLL11

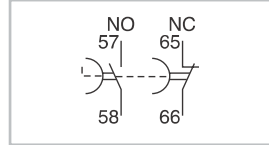


**Pneumatic timer blocks**

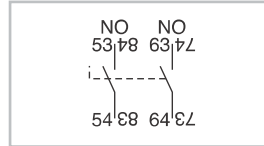
BT\_F\_C



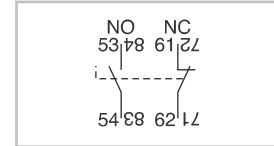
BT\_F\_D



BRL120



BRL111

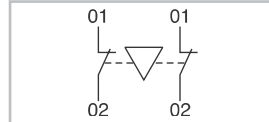


**Mechanical and mechanical/electrical interlock**

BELA

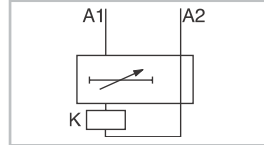


BELA02

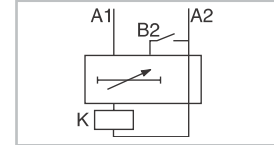


**Electronic timer blocks**

BETL\_C

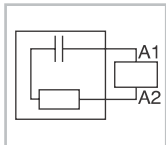


BETL\_D

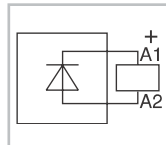


**Voltage suppressor blocks**

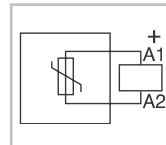
BSLR2, BSLR3  
 IMRC



BSLDZ  
 IMD1Z

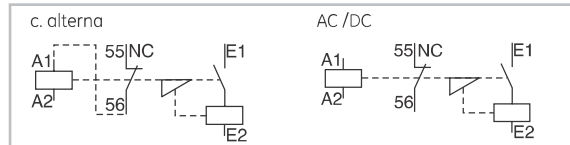


BSLV3  
 IMV3



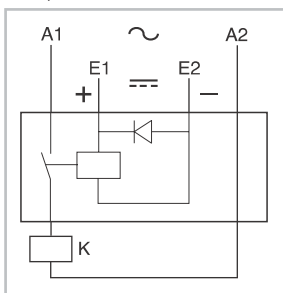
**Mechanical latch block**

RMLF

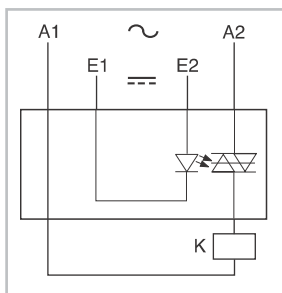


**Interface modules**

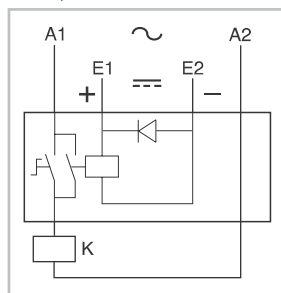
IMRD, IMRG



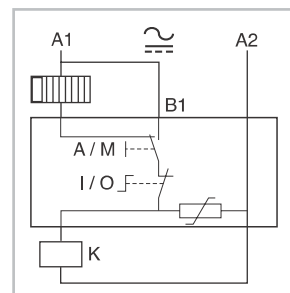
IMSSD







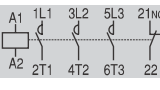

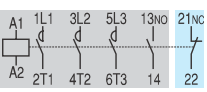

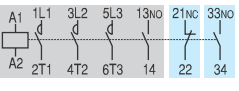

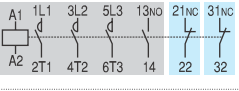

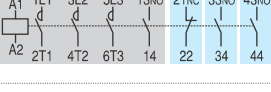

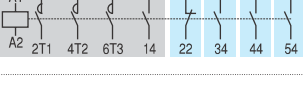

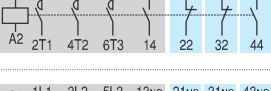

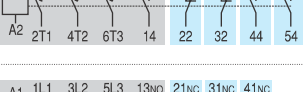

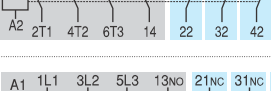

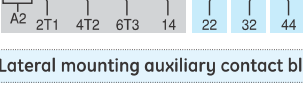



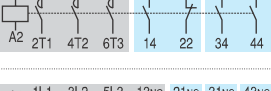

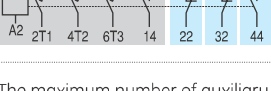

IMRFD, IMRFG



IMAMS



## Terminal numbering according to EN 50012

		Auxiliary contacts		Possible basic contactors + Auxiliary contacts blocks to be added		
		Combination				
		Description				
<b>Without auxiliary contact blocks</b>						
	10E	1	0		CL00_310... - CL04_310...	
	01E	0	1		CL00_301... - CL04_301...	
<b>Front mounting auxiliary contact blocks with one contact each</b>						
	11E	1	1		CL00_310... - CL04_310... + BC_F01	
	21E	2	1		CL00_310... - CL04_310... + BC_F01 + BC_F10	
	12E	1	2		CL00_310... - CL04_310... + BC_F01 + BC_F01	
	31E	3	1		CL00_310... - CL04_310... + BC_F01 + BC_F10 + BC_F10	
	41E	4	1		CL00_310... - CL04_310... + BC_F01 + BC_F10 + BC_F10 + BC_F10	
	22E	2	2		CL00_310... - CL04_310... + BC_F01 + BC_F01 + BC_F10	
	32E	3	2		CL00_310... - CL04_310... + BC_F01 + BC_F01 + BC_F10 + BC_F10	
	13E	1	3		CL00_310... - CL04_310... + BC_F01 + BC_F01 + BC_F01	
	23E	2	3		CL00_310... - CL04_310... + BC_F01 + BC_F01 + BC_F01 + BC_F10	
<b>Lateral mounting auxiliary contact blocks with two contacts each</b>						
	11E	1	1		CL00_300... - CL45_300... + BCLL11	
	31E	3	1		CL00_300... - CL45_300... + BCLL11 + BCLL20	
	22E	2	2		CL00_300... - CL45_300... + BCLL11 + BCLL11	

The maximum number of auxiliary contacts is 4 for CL00 to CL25, 6 for CL03 -CL04 and 8 for CL45, CL06 to CL10. When using the pneumatic BTLF-block, these numbers are reduced to two, resp. four. (2 for CL00 to CL25, 4 for CL03 and CL04, etc.)

Terminal numbering according to EN 50012 (continued)

Description	Auxiliary contacts Combination		Possible basic contactors + Auxiliary contacts blocks to be added	
	NO	NC		
<b>Without auxiliary contact blocks</b>				
				CL25_300... - CL45_300... 
<b>Front mounting auxiliary contact blocks with one contact each</b>				
	10E	1	0	CL25_300... - CL45_300... + BC_F10 CL06_300... - CL10_300... + BC_F10
	01E	0	1	CL25_300... - CL45_300... + BC_F01 CL06_300... - CL10_300... + BC_F01
	11E	1	1	CL25_300... - CL45_300... + BC_F10 + BC_F01 CL06_300... - CL10_300... + BC_F10 + BC_F01
	21E	2	1	CL25_300... - CL45_300... + BC_F10 + BC_F01 + BC_F10 CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F10
	12E	1	2	CL25_300... - CL45_300... + BC_F10 + BC_F01 + BC_F01 CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F01
	31E	3	1	CL25_300... - CL45_300... + BC_F10 + BC_F01 + BC_F10 + BC_F10 CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F10 + BC_F10
	41E	4	1	CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F10 + BC_F10
	22E	2	2	CL25_300... - CL45_300... + BC_F10 + BC_F01 + BC_F01 + BC_F10 CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F01 + BC_F10
	32E	3	2	CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F01 + BC_F10 + BC_F10
	13E	1	3	CL25_300... - CL45_300... + BC_F10 + BC_F01 + BC_F01 + BC_F01 CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F01 + BC_F01
	23E	2	3	CL06_300... - CL10_300... + BC_F10 + BC_F01 + BC_F01 + BC_F10 + BC_F10
<b>Lateral mounting auxiliary contact blocks with two contacts each</b>				
	11E	1	1	CL25_300... - CL45_300... + BCLL11 CL06_300... - CL10_300... + BCLL11
	31E	3	1	CL25_300... - CL45_300... + BCLL11 + BCLL20 CL06_300... - CL10_300... + BCLL11 + BCLL20
	22E	2	2	CL25_300... - CL45_300... + BCLL11 + BCLL11 CL06_300... - CL10_300... + BCLL11 + BCLL11

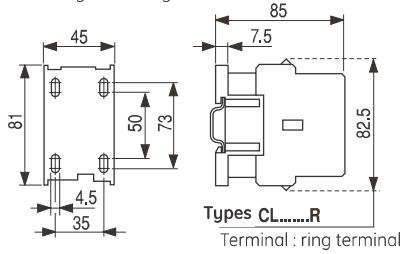


## Dimensional drawings. Three pole contactors

### Alternating current

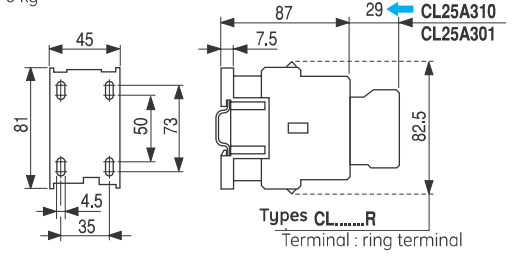
CL00A3..., CL01A3..., CL02A3...

0.280 kg 0.280 kg 0.280 kg



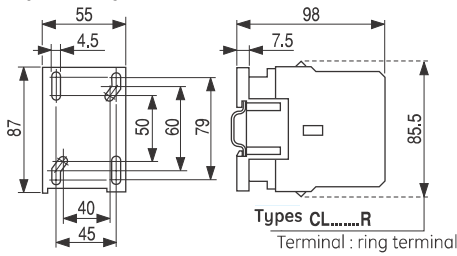
CL25A3...

0.270 kg



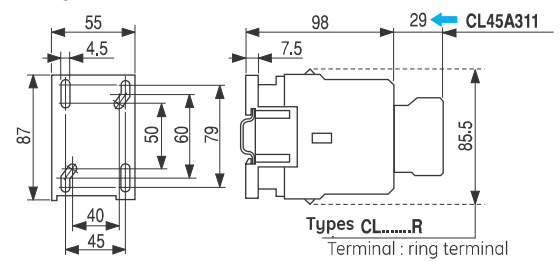
CL03A3..., CL04A3...

0.490 kg 0.500 kg



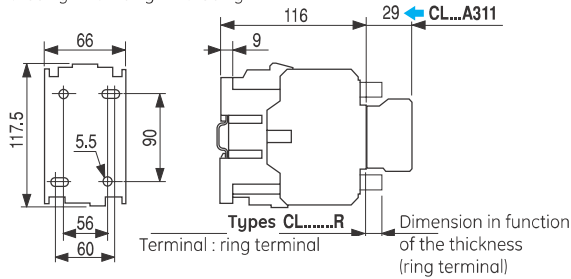
CL45A3...

0.520 kg



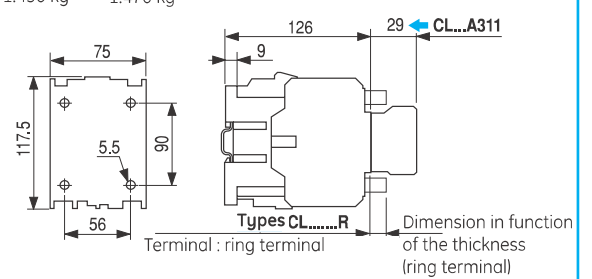
CL06A3..., CL07A3..., CL08A3...

1.105 kg 1.120 kg 1.130 kg



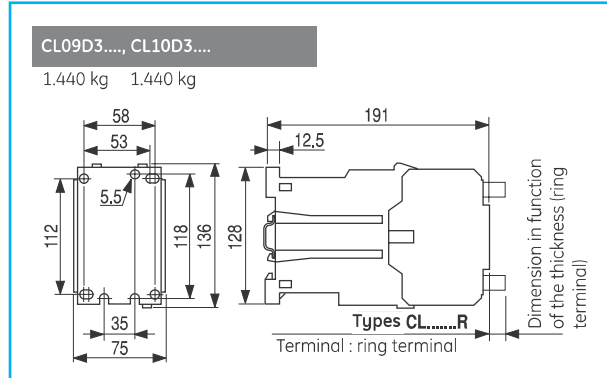
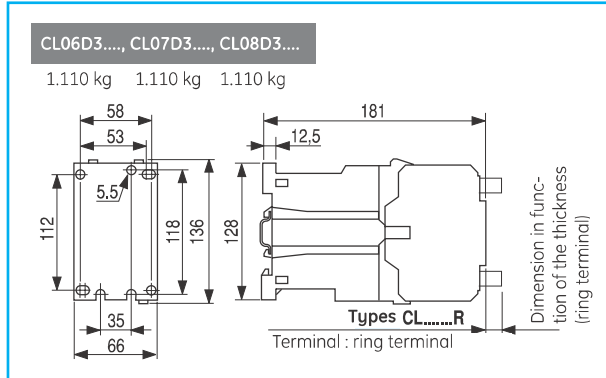
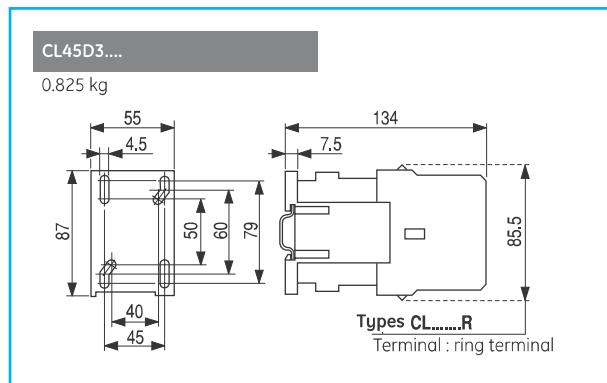
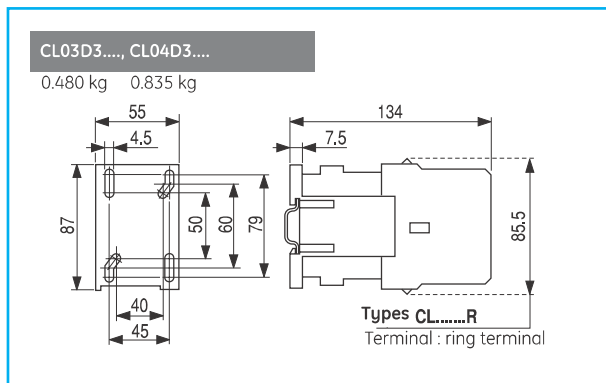
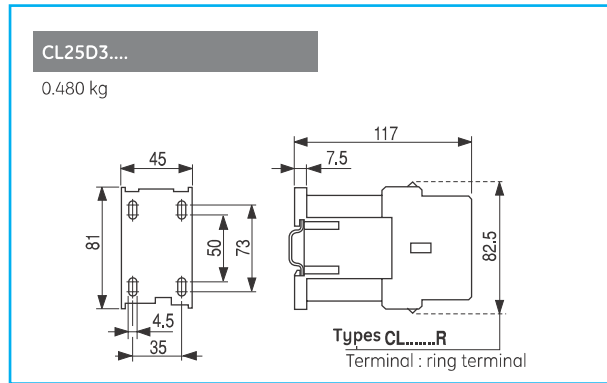
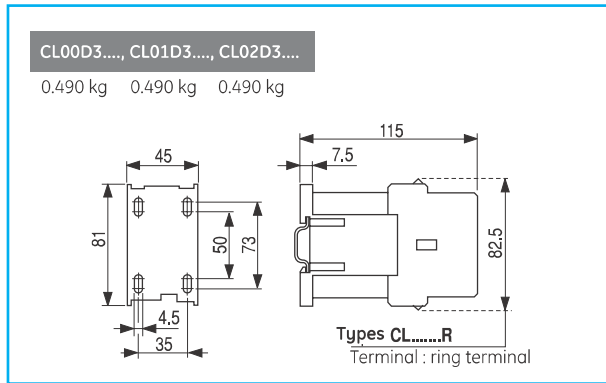
CL09A3..., CL10A3...

1.450 kg 1.470 kg

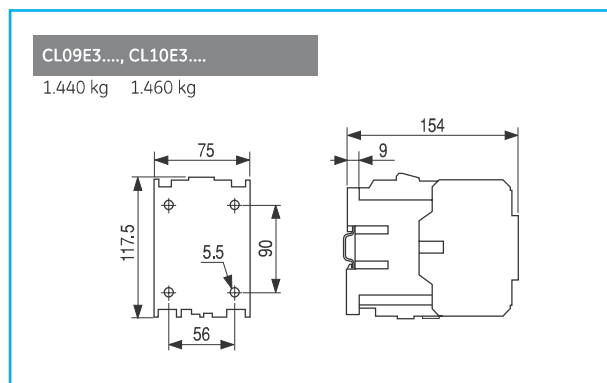
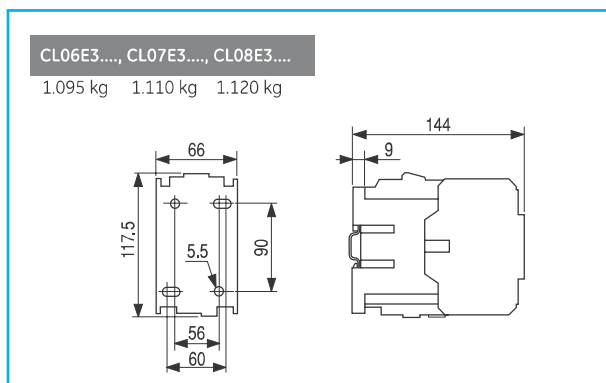


## Three pole contactors

### Direct current

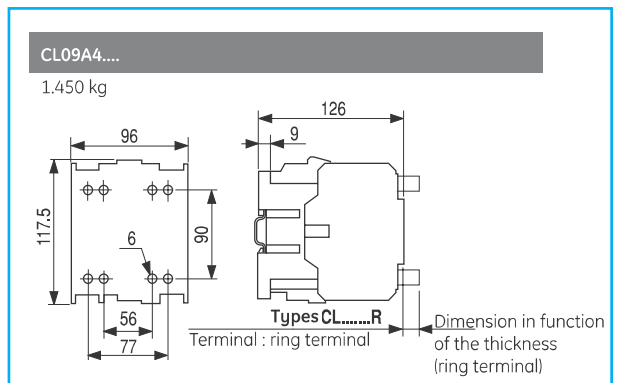
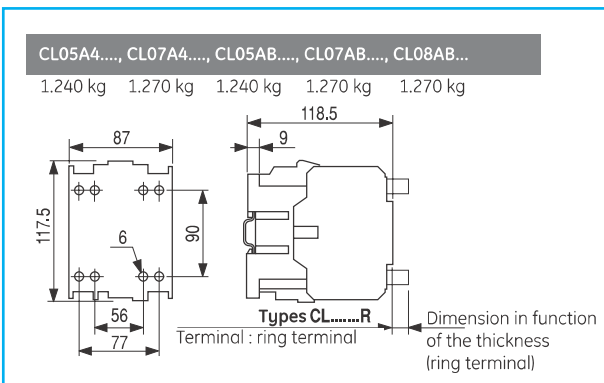
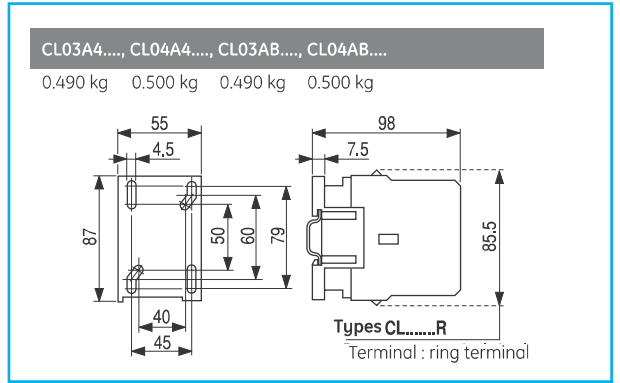
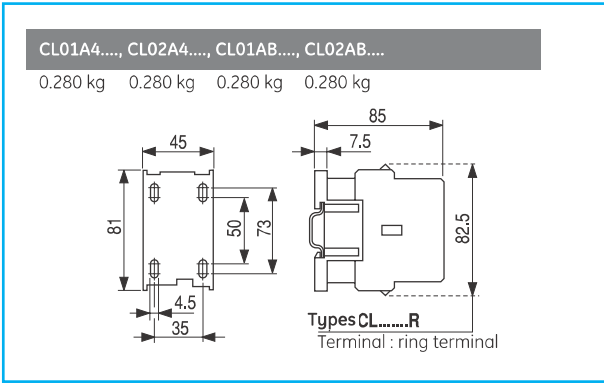


### Coil with electronic module

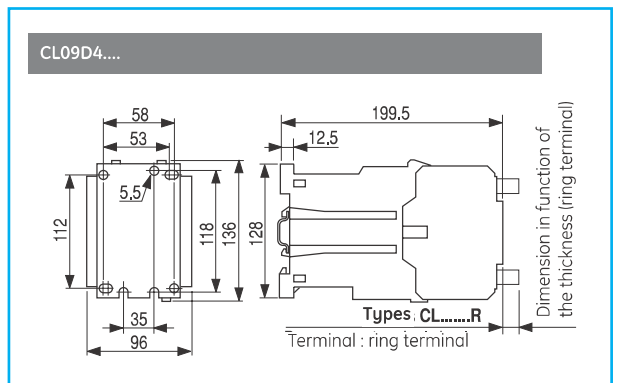
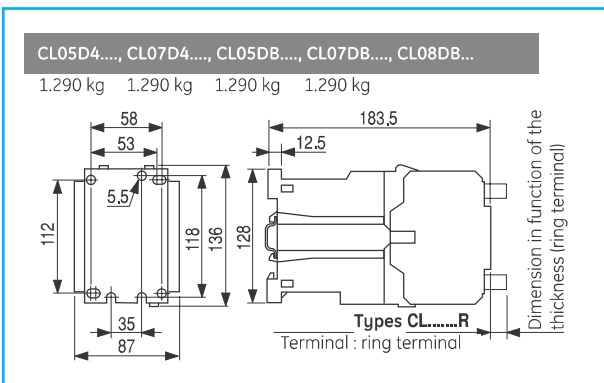
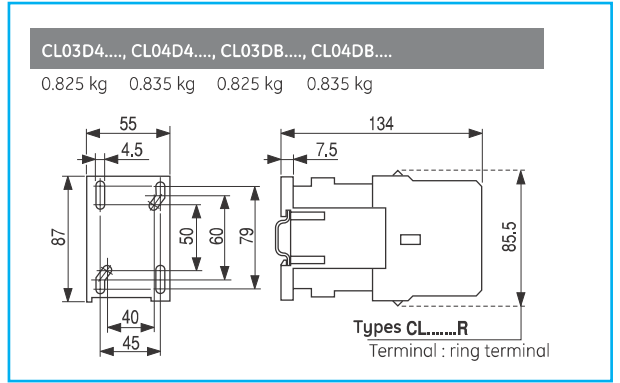
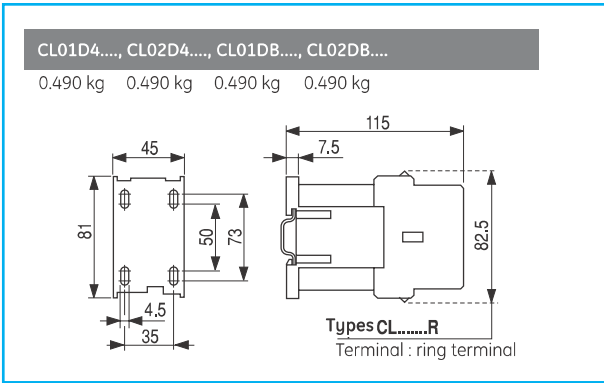


**Dimensional drawings. Four pole contactors**

**Alternating current**

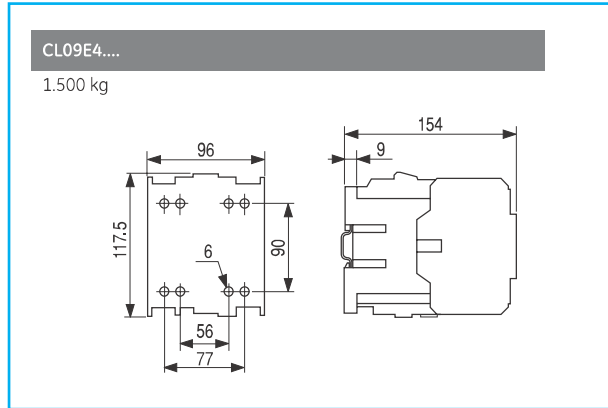
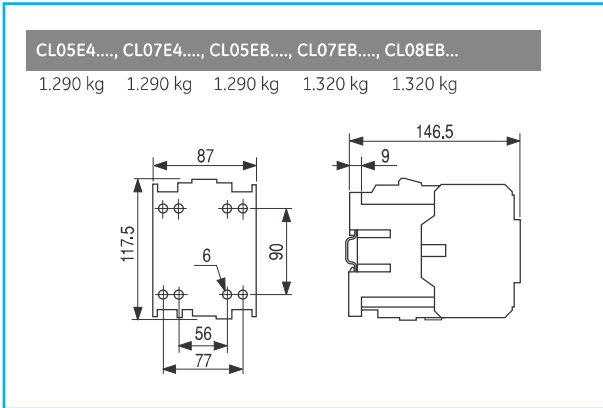


**Direct current**



## Four pole contactors

### Coil with electronic module



A

B

C

D

E

F

G

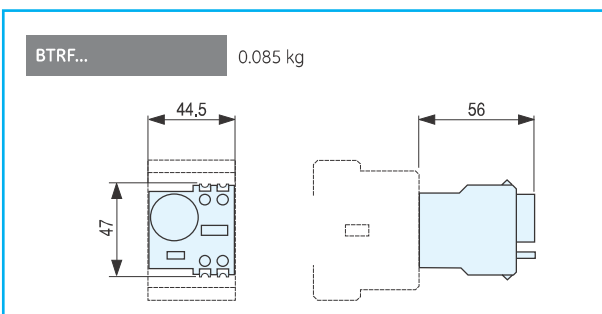
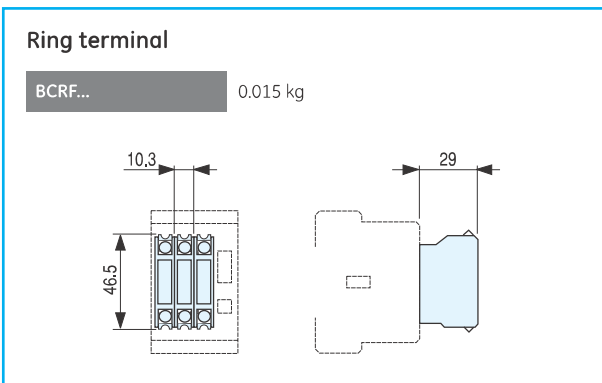
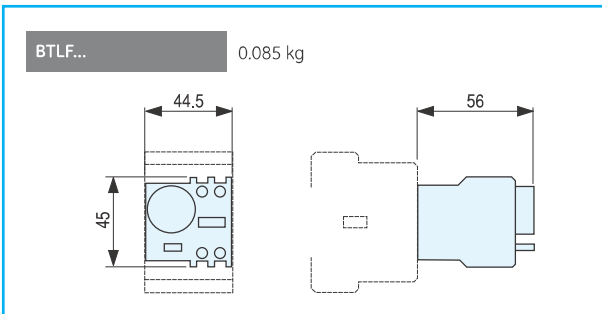
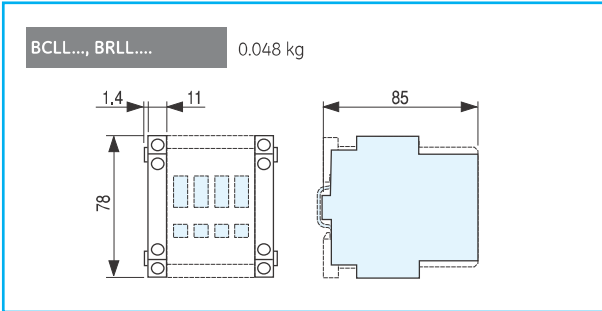
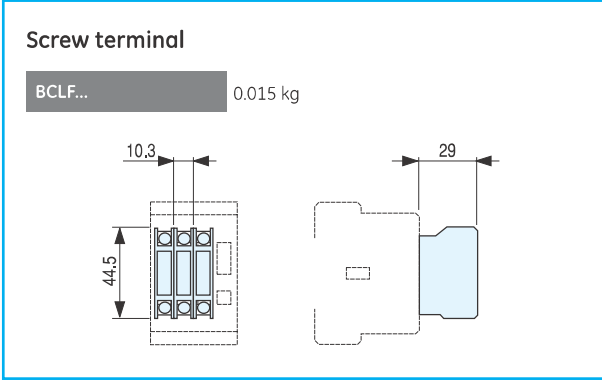
H

I

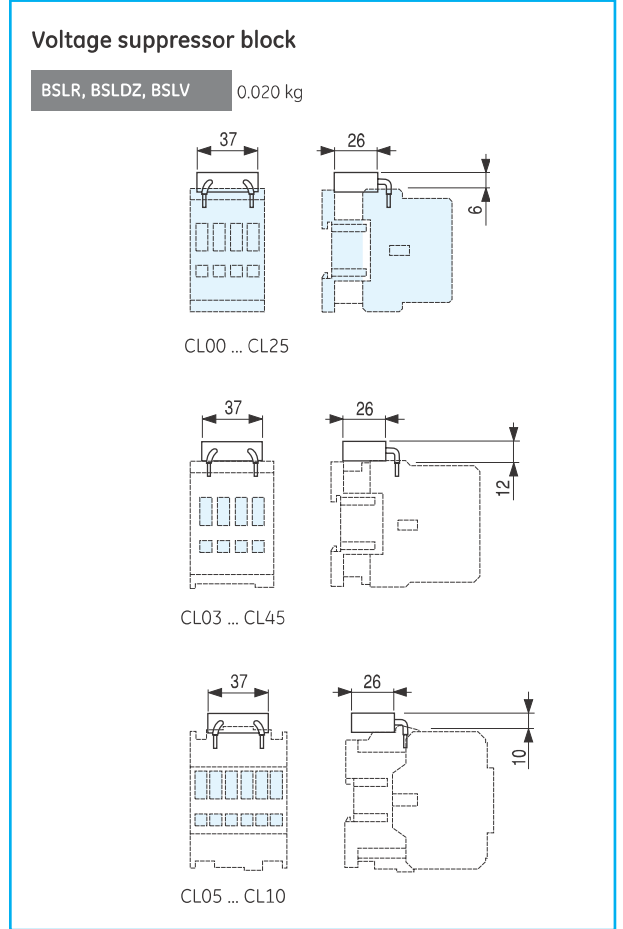
X

**Dimensional drawings**

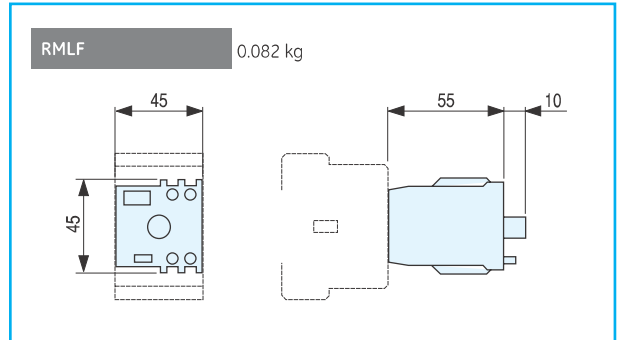
**Auxiliary contact blocks**



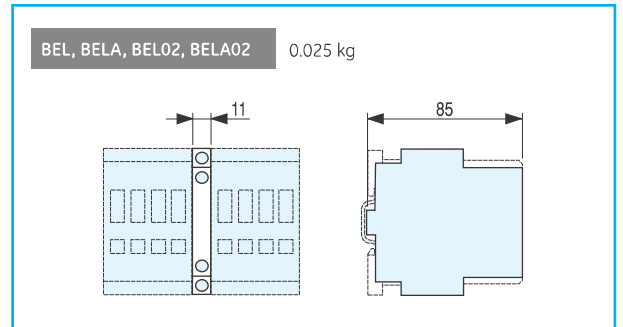
**Accessories**



**Mechanical latch block**



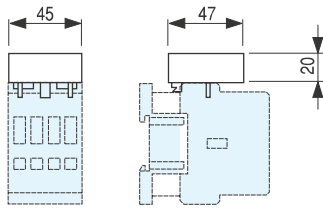
**Mechanical / mechanical-electrical interlock**



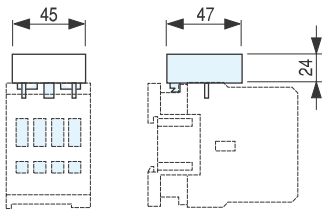


**Electronic timer block**

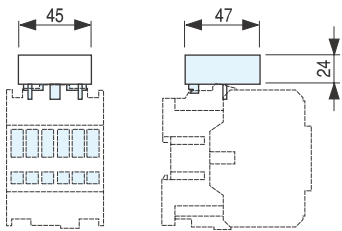
BETL02, BETL45 0.040 kg



CL00 ... CL25



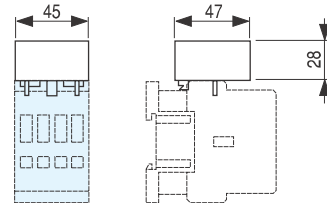
CL03 ... CL45



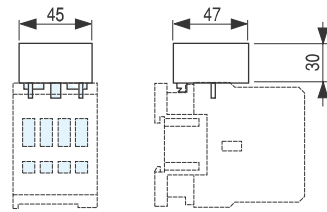
CL05 ... CL10

**Interface modules**

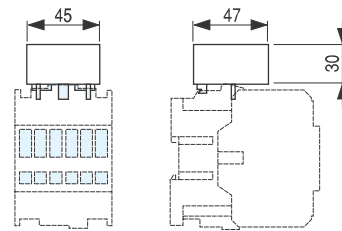
IMR..., IMRF..., IMSSD, IMAMS 0.020 kg



CL00 ... CL25



CL03 ... CL45



CL05 ... CL10

A

B

**C**

D

E

F

G

H

I

X