

# EasyPact TVS



CPB100K17



CPB100K50

> EasyPact TVS contactors,  
6 A to 630 A

3 pole & 4 pole Characteristics  
Accessories, spare parts  
Dimensions, mounting

- ▶ A-1
- ▶ A-17
- ▶ A-26

Control your motors. Do it Yourself simply your solution:  
direct-on-line starter, reversing starter, star-delta starter



CPB100K34

> EasyPact TVS thermal overload relays  
0.1 A to 630 A

Characteristics  
Dimensions, mounting

- ▶ B-1
- ▶ B-7

Footprint for complete compatibility with contactors  
(direct mounting under contactors)



CPB100K2H

> EasyPact TVS control relays  
4 NO/NC contacts

Characteristics  
Dimensions, mounting

- ▶ C-1
- ▶ C-4

Pilot your control circuits



CPB100K47

> EasyPact TVS motor protection circuit  
breaker 0.1A to 32A

Presentation  
Characteristics  
References  
Dimensions, mounting

- ▶ D-3
- ▶ D-5
- ▶ D-7
- ▶ D-12

> Coordination between protection  
and control components  
> Glossary, definitions, technical information

What coordination means  
Glossary  
Definitions  
Technical informations

- ▶ E-1
- ▶ E-5
- ▶ E-6
- ▶ E-7

Better continuity of service

# EasyPact TVS 3-pole contactors



Size	1	2	3
Rated operational current AC-3	A 6	A 25	A 40
Rated operational current AC-1	A 20	A 36	A 60
Rated operational power in AC-3	220/230 V	1.1	2.2
	380/400 V	2.2	4
	415/440 V	2.2	4
	500 V	3	5.5
	660/690 V	3	5.5

Width	45	56	75
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Coil rated operating voltage: 24...440 V AC according to the coil voltage code (see below)

Auxiliary built in contact: 1 NO or 1 NC

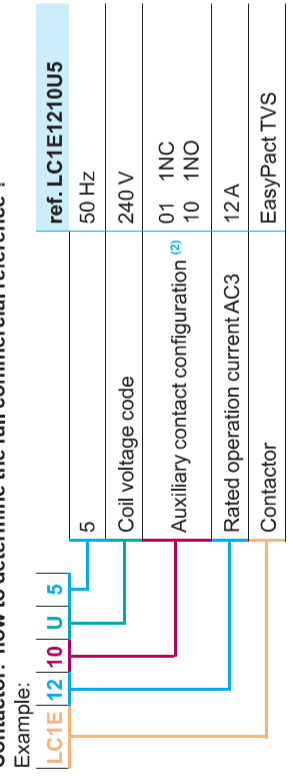
References <sup>(1)</sup>	LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65
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(1) Partial, see below.

### Coil voltage code for 3-pole contactors

	24	48	110	220	230	240	380	415	440
LC1E06-300	50 Hz	B5	E5	F5	M5	-	U5	Q5	N5
LC1E06-95	60 Hz	B6	-	F6	M6	-	Q6	-	R6
LC1E400-630	50/60Hz	B7	E7	F7	M7	P7	-	Q7	-
	50/60Hz	-	E7	F7	M7	-	U7	Q7	N7

### Contactors: how to determine the full commercial reference ?



(2) Example up to LC1E38 For details, please consult page A-3.

# from 6 to 630 A



Size	4	5	6	7	8	9
Rated operational current AC-3	80	95	120	160	200	250
Rated operational current AC-1	110	120	150	200	250	300
Rated operational power in AC-3	220/230 V	22	25	37	45	55
	380/400 V	37	45	55	75	90
	415/440 V	45	45	59	80	100
	500 V	45	55	75	90	110
	660/690 V	45	45	80	100	110

Width: 85

Coil rated operating voltage: 1 NO + 1 NC

References <sup>(1)</sup>	LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630
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(1) Partial, see below.

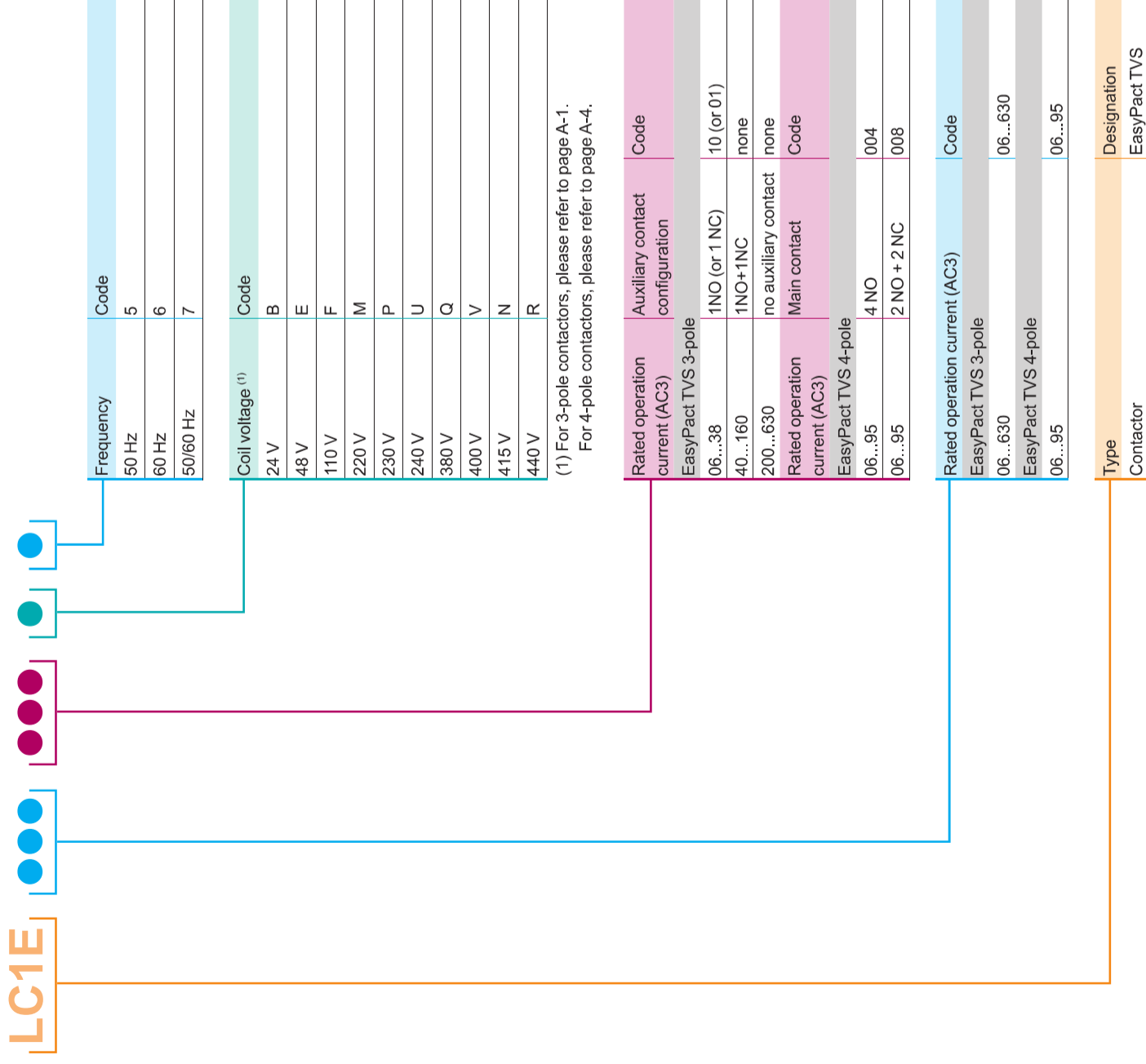
### Common characteristics

- > Contactors compatible with:
  - LAEN● auxiliary contact blocks (see page A-20)
  - LAETSD time delay auxiliary contact (from 25 A contactor) (see page A-20)
  - LAERC● RC switch suppressor (up to 95 A) (see page A-19)
  - LAEM● mechanical interlock (see page A-19)
  - LAEP● set of power connections (up to 95 A) (see page A-19)

### Utilisation categories

- > Class AC-1: AC loads with  $\cos \varphi$  at least equal to 0,95 (resistive load, heating, distribution, etc.).
- > Class AC-3: squirrel-cage motors with breaking taking place with the motor running.

# Commercial reference numbering system



**Contactor: how to determine the full commercial reference ?**

Example 1: you need a 32A contactor, 1 NC auxiliary contact, 24 V - 50 Hz coil ⇒ **LC1E3201B5**  
 Example 2: you need a 120A contactor, 1 NC + NO auxiliary contact, 220 V - 50 Hz coil ⇒ **LC1E120M5**

# EasyPact TVS 4-pole contactors from 6 to 95 A

1	2	3	4
A 6	A 9	A 12	A 18
A 16	A 20	A 25	A 32
mm 45	mm 56	mm 84.5	mm 95.5
Rated operational current AC-3	24	32	40
Rated operational current AC-1	45	60	80
Width	56	84.5	95.5
Coil rated operating voltage	24...415 V AC according to the coil voltage code (see below)		
Auxiliary built in contact	no built-in contact		
References <sup>(1)</sup>	LC1E06	LC1E09	LC1E12
	LC1E18	LC1E25	LC1E32
	LC1E38	LC1E40	LC1E48
	LC1E65	LC1E80	LC1E95

(1) Partial, see below.

## Coil voltage code for 4-pole contactors

LC1E06-95	50/60Hz	B7	E7	F7	M7	P7	U7	Q7	V7	N7
	24	48	110	220	230	240	380	400	415	

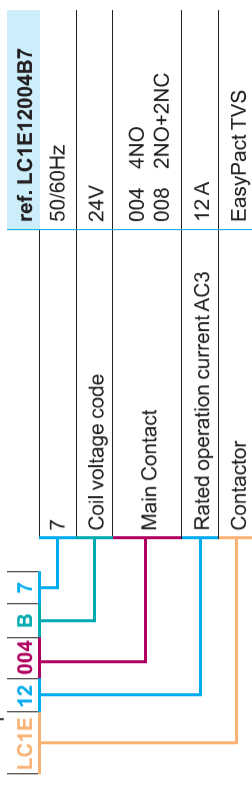
## Common characteristics

> Contactors compatible with:

- LAEN● auxiliary contact blocks (see page A-20)
- LAETSD time delay auxiliary contact (from 25 A contactor) (see page A-20)
- LAERC●● RC switch suppressor (up to 95 A) (see page A-19)

**Contactor: how to determine the full commercial reference ?**

Example:



Example 1: you need a 32 A contactor, 4 NO contact, 24 V - 50/60Hz

coil ⇒ **LC1E32004B7**

Example 2: you need a 95A contactor, 2NO+2NC contact, 220 V - 50/60Hz

coil ⇒ **LC1E95008M7**

# EasyPact TVS 3-pole contactors 6 to 630 A

## Power characteristics

Power circuit connections																						
Contactor type	LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65	LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630		
Number of poles	3																					
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3 (θ ≤ 55 °C)	9	12	18	25	32	38	40	50	65	80	95	120	160	200	250	300	400	500	630		
	In AC-3 (θ ≤ 55 °C)																					
	In AC-1 (θ ≤ 55 °C)	25		32																		
Rated operational voltage (Ue)	In AC-1 (θ ≤ 40 °C)				36	50	60	70	80	110	120											
	Up to																					
	Of the operational current																					
Frequency limits	Of the operational current	50 or 60																				
	θ ≤ 55 °C	20	25	32	36	50	60	70	80	110	120											
Conventional thermal current (Ith)	θ ≤ 40 °C																					
	At Ith and 50 Hz																					
Rated breaking capacity at 440 V	Conforming to IEC 60947	48	72	96	144	200	256	304	400	520	640	760	960	1280	1600	2000	2400	3200	4000	5040		
	Conforming to IEC 60947-4-1	60	90	120	180	250	320	380	500	650	800	950	1200	1600	2000	2500	3000	4000	5000	6300		
Rated making capacity at 440 V	10 s	80	105	145	240	260	310	320	400	520	640	800	950	1200	1500	1800	2650	3600	4200	5050		
	1 min	45	61	84	120	138	150	165	208	260	320	400	550	580	740	850	1300	1700	2400	3400		
	No current flowing for preceding 15 minutes with θ ≤ 40 °C	20	30	40	50	60	72	84	110	135	160	200	250	250	400	440	750	1000	1200	1600		
Maximum permissible current	For 10 s																					
	No current flowing for previous 60 minutes, at θ ≤ 40 °C																					
Protection by fuses against short-circuits (U ≤ 690 V)	Without thermal overload relay gG fuse	12	20	25	35	40	63	80	100	125	160											
	With thermal overload relay																					
Average impedance per pole	At Ith and 50 Hz	2.5						1.5	1	0.8			0.6				0.33	0.32	0.3	0.26	0.18	0.12
	AC-3	0.09	0.20	0.36	0.81	1.6	2.0	2.9	4.2	5.1	7.2		8.6	15			13	20	27	42	45	48
Power dissipation per pole for the above operational currents	AC-1	1.0	1.6		2.6	3.2	5.0	5.4	7.4	9.7	12		14	24			21	29	31	65	88	120
	AC-3 (Ue ≤ 440 V)	1.4			1.2	1	0.9						0.8				0.5	0.7	0.5	0.6	0.6	0.6
Electrical durability	AC-1 (Ue ≤ 440 V)	0.15			0.3								0.25				0.2		0.4	0.25	0.25	0.2
	AC-3 (Ue ≤ 440 V)	10				8		5		3		4				5			4	4	4	4
Mechanical durability																						
<b>Power circuit connections</b>																						
<b>Connection maximum c.s.a.</b>																						
Flexible cable with cable end	1 conductor	1...4			1...6			2.5...25		4...50			10...120									
	2 conductors	1...2.5			1...4			2.5...10		4...16			10...120 + 10...50									
Flexible cable without cable end	1 conductor	1...4			1...4			1.5...10		4...50			10...120									
	2 conductors	1...4			1...4			1.5...6		4...25			10...120 + 10...50									
Solid cable without cable end	1 conductor	1...4			1...4			2.5...25		4...50			10...120									
	2 conductors	1...4			1...4			2.5...16		4...25			10...120 + 10...50									
Cable with lug	Number of bars																					
	Bar																					
Bolt diameter	1 conductor				1.5	2.1		5		12			12									
	Power circuit connection							Ø8mm flat		Allen key n°4			Allen key n°4									
Tightening torque	Number of bars																					
	Bar																					
Tool	Power circuit connection																					
	Wrench																					

# EasyPact TVS 4-pole contactors 6 to 95 A

## Power characteristics

Power circuit connections											
Contactor type	LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E65	LC1E80	LC1E95
Number of poles	4										
Rated operational current (Ie) (Ue ≤ 415 V)	In AC-3 (θ ≤ 60 °C) In AC-1 (θ ≤ 60 °C)										
Rated operational voltage (Ue)	Up to 690										
Frequency limits	50/60										
Conventional thermal current (Ith) θ ≤ 60 °C	16 20 25 32 40 45 60 80 100 125										
Rated breaking capacity at 440 V	48 72 96 144 200 256 304 320 380 520 640 760										
Rated making capacity at 440 V	60 90 120 180 250 320 380 400 650 800 950										
Permissible short time rating No current flowing for preceding 15 minutes with θ ≤ 40 °C	10 s 105 145 180 240 260 310 320 320 640 800										
	45 61 84 120 138 150 165 260 320 400										
	20 30 40 50 60 72 110 135										
Maximum permissive current No current flowing for previous 60 minutes, at θ ≤ 40 °C	-										
Protection by fuses Without thermal overload relay gG fuse With thermal overload relay	12 20 25 35 40 63 80 125 160										
Average impedance per pole	2.5										
Power dissipation per pole for the above operational currents	1.0 1.6 2.6 2.5 3.2 5.0 5.4 1.5 6.4 9.7 12										
Electrical durability	0.15 0.3 0.35										
Mechanical durability	10 8 5 3										
Power circuit connections											
Connection maximum c.s.a.											
Flexible cable with cable end	1...4 1...6 2.5...25 4...50										
2 conductors	1...2.5 1...4 2.5...10 4...16										
Flexible cable without cable end	1...4 1.5...6 2.5...25 4...50										
2 conductors	1...4 1.5...6 2.5...16 4...25										
Solid cable without cable end	1...4 1.5...6 2.5...25 4...50										
1 conductor	1...4 1.5...6 2.5...16 4...25										
2 conductors	1...4 1.5...6 2.5...16 4...25										
Cable with lug	-										
Bar	-										
Number of bars	-										
Bar	-										
Bolt diameter	1.5 2.1 5 12										
Power circuit connection	Phillips N°2 or Ø6mm flat Allen key n°4										
Tightening torque	1.5 2.1 5 12										
Tool	Phillips N°2 or Ø6mm flat Allen key n°4										

# EasyPact TVS 3-pole contactors 6 to 630 A

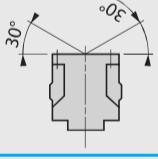
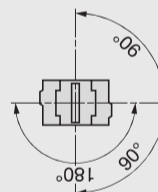
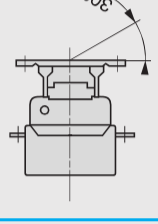
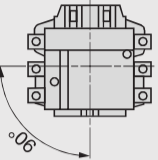
Control circuit: coil characteristics  
Built in auxiliary contact

Control circuit: coil characteristics with a.c. supply																				
Control type	LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65	LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630
Rated control circuit voltage (Uc) 50/60 Hz	24...440 according coil voltage code																			
Control voltage limits (θ ≤ 55 °C)	0.85...1.1 Uc																			
50 Hz or 60 Hz coils	Operational																			
Drop-out	0.35...0.55 Uc																			
Average consumption at 20 °C and at Uc	95						160			200			300	805	650			1075	1100	1650
~ 50 Hz coils	coil	coil	Inrush										0.8	0.9	0.9	0.9		0.9	0.9	0.9
	cos φ	coil	Sealed							20			22	55	10			15	18	22
~ 60 Hz coils	coil	coil	Inrush				140			220			0.3	0.9	0.9	0.9		0.9	0.9	0.9
	cos φ	coil	Sealed										0.8	0.9	0.9	0.9		0.9	0.9	0.9
Heat dissipation	8.5	8.5		8.3			13			22			22	66	10			15	18	22
Operating time	0.3	0.3											0.9	0.3	0.9	0.9		0.9	0.9	0.9
	W	2...3					6...10			18...24			3...8	18...24	8			14	18	20
Maximum operating rate at ambient temperature ≤ 60 °C	ms	12...22					20...26			20...35			20...50	20...35	40...65			40...75	40...80	40...80
Maximum operating rate at ambient temperature ≤ 55 °C		4...19					8...12			6...20			6...20	7...15	100...170			100...170	100...200	1200
	In operating cycles per hour	1800					1200						1200					2400		1200
<b>Control circuit connections</b>																				
<b>Connection maximum c.s.a.</b>																				
Flexible cable without cable end	1...4												1...2.5	1...4				1...4	1...4	1...4
Flexible cable with cable end	1...4												1...2.5					1...4	1...4	1...4
Solid cable without cable end	1...4												1...2.5	1...4				1...4	1...4	1...4
Tightening torque	N.m	1.2					1.2											1.2	1.2	1.2
Screwdriver		Phillips N° 2 - Ø6 mm flat																		
<b>Built in auxiliary contact</b>																				
Contacts conforming to	IEC 60947-5-1																			
Rated operational voltage (Ue)	V	LC1E06...E38: contactor's own 1NO or 1NC LC1E40...E160: contactor's own 1NO and 1NC																		
Rated insulation voltage (Ui)	690																			
Conventional thermal current (Ith)	A	690																		
Operating current frequency	Hz	10																		
Minimum switching capacity λ = 10 <sup>3</sup>	V	50 or 60																		
Short-circuit protection	mA	17																		
Raked making capacity	A	5																		
Short-time rating	A	gG fuse: 10 A ~: 140																		
Insulation resistance	mΩ	100																		
Non-overlap time	ms	500 ms 100 ms																		
	ms	>10																		
	ms	1.5 on energisation and on de-energisation																		

# EasyPact TVS 4-pole contactors 6 to 95 A

Control circuit: coil characteristics  
Built in auxiliary contact

Control circuit: coil characteristics with a.c. supply												
Contactor type	LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65	LC1E80	LC1E95
Rated control circuit voltage (Uc) 50/60 Hz	24...415 according coil voltage code											
Control voltage limits (θ ≤ 55 °C)	0.85...1.1 Uc 0.3...0.6 Uc											
50/60 Hz coils	Operational											
Drop-out												
Average consumption at 20 °C and at Uc	VA	95	95	160	200							
~ 50 Hz coils	coil	0.75	8.3	15	20							
	cos φ	0.3										
Sealed	coil	8.5										
	cos φ	0.3										
~ 60 Hz coils	coil	95	95	140	220							
	cos φ	0.75	8.3	13	22							
Sealed	coil	8.5										
	cos φ	0.3										
Heat dissipation	W	2.3		6...10								
Operating time	ms	12...22		20...26	20...35							
	Opening "O"	4...19		8...12	6...20							
Maximum operating rate at ambient temperature ≤ 60 °C	In operating cycles per hour	1800		1200								
Maximum operating rate at ambient temperature ≤ 55 °C		-										
Control circuit connections												
Connection maximum c.s.a.												
Flexible cable without cable end	mm²	1...4										
Flexible cable with cable end	mm²	1...4										
Solid cable without cable end	mm²	1...2.5										
Tightening torque	N.m	1...4										
Screwdriver		1.2		1.2								
		Phillips N° 2 - Ø6 mm flat										

Environment		LC1E06...E18	LC1E25...E38	LC1E40...E65	LC1E80...E95	LC1E120...E160	LC1E200...E300	LC1E400	LC1E500	LC1E630
<b>Contact type</b>										
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	V	690							
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	kV	6				8			
Conforming to standards			IEC 60947-4-1, IEC 60947-5-1				IEC 60947-4-1			
Product certifications			EAC, CE							
Degree of protection (front face only)	Conforming to IEC 60529		Protection against direct finger contact IP2X				IP00			
Protective treatment	Conforming to IEC 60068-2-30		IEC60068-2-30 Test Db, Variant 2							
Ambient air temperature around the device	Storage	°C	-60...+80							
	Operation		-5...+55							
	Permissible at UC <sup>(1)</sup>		-20...+70							
Maximum operating altitude	Without derating	m	3000							
Operating positions	Without derating		±30° in relation to normal vertical mounting plane							
										
										
										
										
Flame resistance	Conforming to IEC 60695-2-1	°C	850					6gn	9gn	6gn
Shock resistance <sup>(2)</sup>	Contactor open		7 gn							
	Contactor closed		10 gn					15gn		
1/2 sinewave = 11 ms	IEC 60068-2-7						7 gn			
Vibration resistance <sup>(2)</sup>	Conforming to		1.5 gn					1.5gn	2gn	
5...300 Hz	IEC 60068-2-6		3 gn					5gn	4gn	

<sup>(1)</sup> Derating see page E-4.

<sup>(2)</sup> Without change of contact states, in the most unfavorable direction (coil energised at Ue).

### Installation recommendations



### Avoid fire, product damage or power loss with a safe enclosure

Severe conditions such as dust, humidity, high temperature can result in people or equipments exposed to serious risks if the suitable protection of the electrical components is not taken.

### Special CRN steel enclosures is one of our solutions

A complete offer with 39 dimensions from 200 x 200 x 150 mm to 1000 x 800 x 300 mm:

- with plain door, without plain mounting plate
- with plain door and plain mounting plate
- with glazed door, without plain mounting plate.

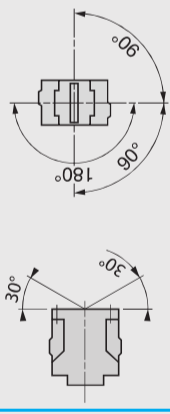
- Degree of protection IP 66.
- Compliance with standard IEC 62208.
- A wide range of accessories to fit to all your applications.

### Special CRN, suitable for any application

Indoors with harsh and dirty environments like machines, manufacturing plants, and logistic centers.

Specific optional devices re-enforce the protection: fans, filters.



Environment		LC1E06...E18	LC1E25...E38	LC1E40...E65	LC1E80...E95
<b>Contact type</b>					
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	V	690		
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	kV	6		
Conforming to standards			IEC 60947-4-1, IEC 60947-5-1		
Product certifications			EAC, CE		
Degree of protection (front face only)	Conforming to IEC 60529		Protection against direct finger contact IP2X		
Protective treatment	Conforming to IEC 60068-2-30		IEC60068-2-30 Test Db, Variant 2		
Ambient air temperature around the device	Storage	°C	-60...+80		
	Operation		-5...+55		
	Permissible at UC <sup>(1)</sup>		-20...+70		
Maximum operating altitude	Without derating	m	3000		
Operating positions	Without derating		±30° in relation to normal vertical mounting plane		
					
Flame resistance	Conforming to IEC 60695-2-1	°C	850		
Shock resistance <sup>(2)</sup>	Conforming to IEC 60068-2-7		7 gn	6 gn	
1/2 sinewave = 11 ms	Conforming to		10 gn	7 gn	
Vibration resistance <sup>(2)</sup>	IEC 60068-2-6		1.5 gn		
5...300 Hz			3 gn		

<sup>(1)</sup> Derating see page E-4.

<sup>(2)</sup> Without change of contact states, in the most unfavorable direction (coil energised at Ue).

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# EasyPact TVS 3-pole contactors

EasyPact TVS contactors for motor control up to 335 kW at 400 V, in category AC-3



LC1E06



LC1E65



LC1E120



LC1E300

## 3-pole contactors

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3		Rated operational current at 440V (AC-3) up to		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the control voltage code		Weight	
220 V	380 V	415 V	660 V	230 V	400 V	500 V	690 V	Fixing (1)	
kW	kW	kW	kW	A	A	A	A	kg	kg
<b>Connection by screw clamp terminals</b>									
1.1	2.2	2.2	3	3	6	1	0	LC1E0610●●	0.300
1.1	2.2	2.2	3	3	6	0	1	LC1E0601●●	0.300
2.2	4	4	5.5	5.5	9	1	0	LC1E0910●●	0.300
2.2	4	4	5.5	5.5	9	0	1	LC1E0901●●	0.300
3	5.5	5.5	7.5	7.5	12	1	0	LC1E1210●●	0.300
3	5.5	5.5	7.5	7.5	12	0	1	LC1E1201●●	0.300
4	7.5	9	10	10	18	1	0	LC1E1810●●	0.300
4	7.5	9	10	10	18	0	1	LC1E1801●●	0.300
5.5	11	11	15	15	25	1	0	LC1E2510●●	0.360
5.5	11	11	15	15	25	0	1	LC1E2501●●	0.360
7.5	15	15	18.5	18.5	32	1	0	LC1E3210●●	0.450
7.5	15	15	18.5	18.5	32	0	1	LC1E3201●●	0.450
9	18.5	18.5	18.5	18.5	38	1	0	LC1E3810●●	0.450
9	18.5	18.5	18.5	18.5	38	0	1	LC1E3801●●	0.450
11	18.5	22	22	30	40	1	1	LC1E40●●	0.980
15	22	25/30	30	33	50	1	1	LC1E50●●	0.980
18.5	30	37	37	45	65	1	1	LC1E65●●	0.980
22	37	45	45	45	80	1	1	LC1E80●●	1.520
25	45	45	55	45	95	1	1	LC1E95●●	1.520
37	55	59	75	80	120	1	1	LC1E120●●	2.300
45	75	80	90	100	160	1	1	LC1E160●●	2.300
<b>Connection by bars</b>									
55	90	100	110	110	200	0	0	LC1E200●●	4.600
75	132	140	160	160	250	0	0	LC1E250●●	4.700
90	160	160/185	200	220	300	0	0	LC1E300●●	8.500
110	200	220/250	257	280	400	0	0	LC1E400●●	9.1
147	250	280/295	355	335	500	0	0	LC1E500●●	11.35
185	335	375/400	400	450	630	0	0	LC1E630●●	18.6

## Coil voltage code for 3-pole contactors

	24	48	110	220	230	240	380	415	440
<b>LC1E06-300</b>	50 Hz	B5	E5	F5	M5	-	U5	Q5	N5
	60 Hz	B6	-	F6	M6	-	Q6	-	R6
<b>LC1E06-95</b>	50/60Hz	B7	E7	F7	M7	P7	-	Q7	-
<b>LC1E400-630</b>	50/60Hz	-	E7	F7	M7	-	U7	Q7	N7

## Separate components

Auxiliary contact blocks, add-on modules and accessories, see pages A-20 to A-21.

## Coil spare parts

For maintenance, each coil can be ordered separately, see page A-22 to A-26.

(1) LC1E06 to E65: clip-on mounting on 35 mm rail AM1 DP or screw fixing.  
LC1E80 to E95: clip-on mounting on 35 mm rail AM1 DP or 75 mm rail AM1 DL or screw fixing.  
LC1E120 and E160: clip-on mounting on 2 x 35 mm rail AM1 DP or screw fixing.

# EasyPact TVS 4-pole contactors

EasyPact TVS contactors for motor control in category AC-1, 16 to 125A



LC1E06



LC1E65

## 4-pole contactors

Non inductive loads maximum current (555°C) utilisation category AC-1	number of poles	Basic reference, to be completed by adding the control voltage code(1)	weight (3)
16	4	LC1E06004●●	0.34
	2	LC1E06008●●	0.34
20	4	LC1E09004●●	0.34
	2	LC1E09008●●	0.34
25	4	LC1E12004●●	0.34
	2	LC1E12008●●	0.34
32	4	LC1E18004●●	0.34
	2	LC1E18008●●	0.34
40	4	LC1E25004●●	0.52
	2	LC1E25008●●	0.52
45	4	LC1E32004●●	0.52
	2	LC1E32008●●	0.52
60	4	LC1E38004●●	0.52
	2	LC1E38008●●	0.52
60	4	LC1E40004●●	1.30
	2	LC1E40008●●	1.30
80	4	LC1E65004●●	1.30
	2	LC1E65008●●	1.30
100	4	LC1E80004●●	1.60
	2	LC1E80008●●	1.60
125	4	LC1E95004●●	1.60
	2	LC1E95008●●	1.60

## Control voltage code

Volts	24	48	110	220	230	240	380	400	415
<b>LC1E06-95</b>	50/60 Hz	B7	E7	F7	M7	P7	U7	Q7	N7

## Separate components

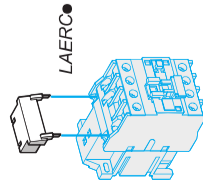
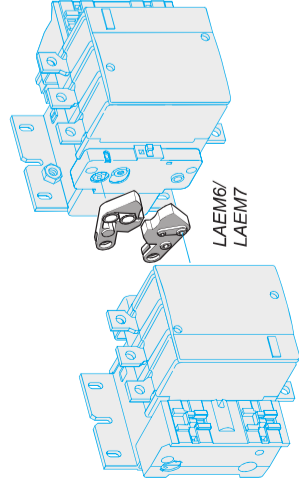
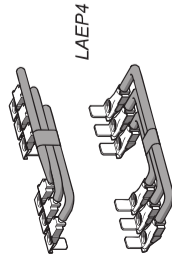
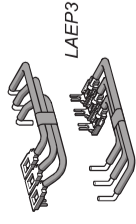
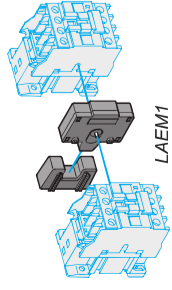
Auxiliary contact blocks, add-on modules and accessories, see pages A-20 to A-21.

## Coil spare parts

For maintenance, each coil can be ordered separately, please check with schneider electric.

(1) LC1E06 to E38: clip-on mounting on 35 mm rail AM1 DP or screw fixing.  
LC1E40 to E95: clip-on mounting on 35 mm rail AM1 DP or 75 mm rail AM1 DL or screw fixing.

# EasyPact TVS contactors 3-pole/4-pole Accessories for LC1E contactor



LC1E●●

## 3-pole accessories for LC1E contactor

Accessories for motor reverse assembly			
Contactors with screw clamp terminals			
Using 2 identical contactors		Mechanical interlock	
Cat. no.	Weight kg	Cat. no.	Weight kg
<b>Mechanical interlock</b>			
LC1E06...E12	LAEP1	LAEM1	0.030
LC1E18/E25	LAEP12	LAEM1	0.030
LC1E32/E38	LAEP2	LAEM1	0.030
LC1E40...E65	LAEP3	LAEM1	0.030
LC1E80/E95	LAEP4	LAEM4	0.095
LC1E120/E160	— (DIY) <sup>(1)</sup>	LAEM5	0.300
LC1E200/E250	— (DIY) <sup>(1)</sup>	LAEM6	0.110
LC1E300	— (DIY) <sup>(1)</sup>	LAEM7	0.250
LC1E400	— (DIY) <sup>(1)</sup>	LAEM7	0.250
LC1E500	— (DIY) <sup>(1)</sup>	LAEM7	0.250
LC1E630	— (DIY) <sup>(1)</sup>	LAEM8	0.270

<sup>(1)</sup>DIY: Do It Yourself.

## 4-pole accessories for LC1E contactor

Accessories for motor reverse assembly			
Contactors with screw clamp terminals			
Using 2 identical contactors		Mechanical interlock	
Cat. no.	Weight kg	Cat. no.	Weight kg
<b>Mechanical interlock</b>			
LC1E06...E12	LAEM1	LAEM1	0.030
LC1E18/E25	LAEM1	LAEM1	0.030
LC1E32/E38	LAEM1	LAEM1	0.030
LC1E40...E65	LAEM4	LAEM4	0.030
LC1E80/E95	LAEM4	LAEM4	0.095

## RC surge suppressor

- Effective protection for circuits highly sensitive to "high frequency" interference and transient generated when the contactor coil is switched off. For use only in cases where the voltage is virtually sinusoidal, i.e. less than 5 % total harmonic distortion.
- Voltage limited to 3 Uc max. and oscillating frequency limited to 400 Hz max.
- Slight increase in drop-out time (1.2 to 2 times the normal time).

Mounting			
For use with contactor		Rating	
Type	Weight kg	Cat. no.	Weight kg
V~	24...48	LAERCE	0.025
	50...127	LAERCG	0.025
	110...240	LAERCU	0.025
	380...415	LAERCN	0.025

# EasyPact TVS contactors Accessories for LC1E contactor



LAEN22



LAETS20

## Instantaneous auxiliary contact blocks for connection by screw lamps terminals

For use in normal operating environment			
Clip-on mounting		Number of contacts per block	
Cat. no.	Weight kg	Cat. no.	Weight kg
Front		1 NO / 1 NC	0.035
		2 NO	0.035
		2 NC	0.035
		2 NO / 2 NC	0.060

## Time delay auxiliary contact blocks for connection by screw clamp terminals 8 A - 690 V

For use only LC1E25 to LC1E630.			
Clip-on mounting		Number of contacts per block	
Cat. no.	Weight kg	Cat. no. <sup>(1)</sup>	Weight kg
Front		1 NO / 1 NC	0.060
		On-delay	
		1...30 s	LAETS20

## Instantaneous and time delay contact characteristics

Contact block type		LAEN11, 20, 02, 22		LAETS20	
Number of contacts		2 or 4		2	
Rated operational voltage (Ue)	Up to	690			
Rated insulation voltage (Ui)	Conforming to IEC 60947-5-1	690			
Conventional thermal current (Ith)	For ambient temperature $\theta \leq 60$ °C	10			
Minimum switching capacity	U min	17			
	I min	5			
Short-circuit protection	Conforming to IEC 60947-5-1	10			
Rated making capacity	Conforming to IEC 60947-5-1	~140			
Short-time rating	Permissible for	100			
	1 s	120			
	500 ms	140			
	100 ms	>10			
Insulation resistance		1.5 (on energisation and on de-energisation)			
Non-overlap time	Guaranteed between NC and NO contacts	—			
Overlap time	Guaranteed between LAE N22 N/C. and N/O contacts	—			
Time delay	Ambient air temperature for operation	-20...+70			
	Repeat accuracy	±2 %			
	Drift up to 0.5 million operating cycles	+15 %			
	Drift depending on ambient air temperature	0.25 % per °C			
Mechanical durability	In millions of operating cycles	10		4	
Rated operational power of contacts (Conforming to IEC 60947-5-1)	VA	24	48	115	230
		60	120	280	560
		16	32	80	160
		4	8	20	40
	V	a.c. supply categories AC14/15			
	V	1 million operating cycles			
	V	3 million operating cycles			
	V	10 million operating cycles			

# EasyPact TVS contactors

## Accessories for LC1E

Environment		LAEN11, 20, 02, 22	LAETS D
Contact block type		IEC 60947-5-1	
Conforming to standard		EAC	
Product certifications		"TH"	
Protective treatment	Conforming to IEC 60068	IP2X	
Degree of protection	Conforming to IEC 60529	-60...+80	
Ambient air temperature	Storage	-5...+55	
	Operation	-20...+70	
	Permissible for operation at U <sub>c</sub>	3000	
Maximum operating altitude	Without derating	Min: 1 x 1	
Connection by cable	Philips N° 2 and Ø 6 mm. Flexible or solid cable with or without cable end	Max: 2 x 2.5	
Tightening torque		1.2	

### 3-pole Accessories compatibility

Contactor	Built in contacts	LAEN●●	LAETS D	LAERC●	LAEM	LAEP●
LC1E06						
LC1E09						
LC1E12		1	-			
LC1E18	1 NO or 1NC					1
LC1E25				1		
LC1E32						
LC1E38						
LC1E40		1	or	1		
LC1E65						
LC1E80	1 NO + 1NC				1	
LC1E95						
LC1E120						
LC1E160						
LC1E200						DIY (1)
LC1E250						
LC1E300						
LC1E400		2	or	0		
LC1E500		1	or	1		
LC1E630						

(1) Do it Yourself.

### 4-pole Accessories compatibility

Contactor	LAEN●●	LAETS D	LAERC●
LC1E06			
LC1E09			
LC1E12			
LC1E18			
LC1E25			
LC1E32			
LC1E38	1	or	1
LC1E40			
LC1E50			
LC1E65			
LC1E80			
LC1E95			

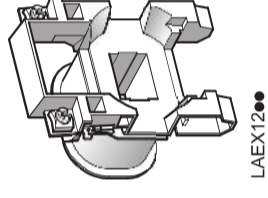
# EasyPact TVS 3-poles contactors

## Coil replacement for EasyPact TVS, LC1E06 to E38

### For 3-pole contactors LC1E06...E25

#### Specifications

Average consumption at 20 °C:  
 ■ inrush (cos φ = 0.75) 50 Hz: 70 VA; 60 Hz: 70 VA  
 ■ sealed (cos φ = 0.3) 50 Hz: 7 VA; 60 Hz: 7.5 VA  
 Operating range (θ ≤ 55 °C): 0.85... 1.1 U<sub>c</sub>.

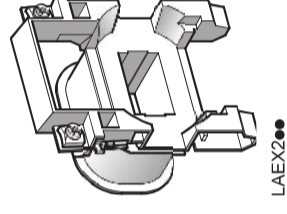


Control circuit voltage U <sub>c</sub>	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Weight
V	Ω	H	50 Hz	Ω	H	60 Hz	Ω	H	50/60 Hz	kg
24	5.37	0.21	LAEX12B5	5.37	0.18	LAEX12B6	5.2	0.17	LAEX12B7	0.067
48	21.7	0.84	LAEX12E5	-	-	-	21.0	0.68	LAEX12E7	0.067
110	124	4.41	LAEX12F5	124	3.68	LAEX12F6	117.1	3.80	LAEX12F7	0.067
220	515	17.6	LAEX12M5	516	14.7	LAEX12M6	507.5	16.48	LAEX12M7	0.067
240	562	21.0	LAEX12U5	-	-	-	-	-	-	0.067
380	1550	52.6	LAEX12Q5	1550	43.8	LAEX12Q6	1397.4	45.38	LAEX12Q7	0.067
415	1690	62.8	LAEX12N5	-	-	-	-	-	-	0.067
440	1990	70.6	LAEX12R5	1990	58.9	LAEX12R6	-	-	-	0.067

### For 3-pole contactors LC1E32/E38

#### Specifications

Average consumption at 20 °C:  
 ■ inrush (cos φ = 0.75) 50 Hz: 70 VA; 60 Hz: 70 VA  
 ■ sealed (cos φ = 0.3) 50 Hz: 7 VA; 60 Hz: 7.5 VA  
 Operating range (θ ≤ 55 °C): 0.85... 1.1 U<sub>c</sub>.



Control circuit voltage U <sub>c</sub>	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Weight
V	Ω	H	50 Hz	Ω	H	60 Hz	Ω	H	50/60 Hz	kg
24	5.37	0.21	LAEX2B5	5.37	0.18	LAEX2B6	5.2	0.18	LAEX2B7	0.073
48	21.7	0.84	LAEX2E5	-	-	-	21.1	0.73	LAEX2E7	0.073
110	124	4.41	LAEX2F5	124	3.68	LAEX2F6	117.0	4.07	LAEX2F7	0.073
220	515	17.6	LAEX2M5	516	14.7	LAEX2M6	509.7	17.72	LAEX2M7	0.073
240	562	21.0	LAEX2U5	-	-	-	-	-	-	0.073
380	1550	52.6	LAEX2Q5	1550	43.8	LAEX2Q6	1536.1	53.40	LAEX2Q7	0.073
415	1690	62.8	LAEX2N5	-	-	-	-	-	-	0.073
440	1990	70.6	LAEX2R5	1990	58.9	LAEX2R6	-	-	-	0.073

(1) The last two digits in the reference represent the voltage code.

# EasyPact TVS 3-poles contactors

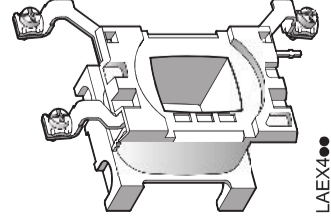
Coil replacement for EasyPact TVS,  
LC1E40 to E95

## For 3-pole contactors LC1E40...E65

### Specifications

Average consumption at 20 °C:  
 ■ inrush ( $\cos \varphi = 0.75$ ): 50 Hz: 160 VA; 60 Hz: 140 VA  
 ■ sealed ( $\cos \varphi = 0.3$ ): 50 Hz: 15 VA; 60 Hz: 13 VA  
 Operating range ( $\theta \leq 60^\circ\text{C}$ ): 0.85...1.1 Uc

Control circuit voltage Uc	50 Hz		60 Hz		Cat. no. (1)	Inductance of closed circuit	Average resistance at 20 °C $\pm 10\%$	Inductance of closed circuit	Cat. no. (1)	Weight
	$\Omega$	H	$\Omega$	H						
24	1.98	0.12	LAEX3B5	1.98	0.10	LAEX3B6	1.9	0.11	LAEX3B7	0.110
48	7.97	0.48	LAEX3E5	-	-	-	7.7	0.43	LAEX3E7	0.110
110	42.3	2.51	LAEX3F5	42.3	2.09	LAEX3F6	34.4	1.93	LAEX3F7	0.110
220	182	10.0	LAEX3M5	182	8.36	LAEX3M6	153.9	8.64	LAEX3M7	0.110
240	202	12.0	LAEX3U5	-	-	-	-	-	-	0.110
380	512	30.3	LAEX3Q5	512	25.3	LAEX3Q6	425.8	23.89	LAEX3Q7	0.110
415	635	35.8	LAEX3N5	-	-	-	-	-	-	0.110
440	682	40.1	LAEX3R5	682	33.4	LAEX3R6	-	-	-	0.110



## For 3-pole contactors LC1E80/E95

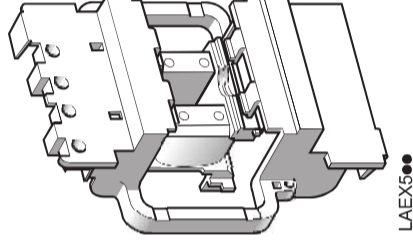
### Specifications

Average consumption at 20 °C:  
 ■ inrush ( $\cos \varphi = 0.75$ ): 50 Hz: 200 VA; 60 Hz: 220 VA  
 ■ sealed ( $\cos \varphi = 0.3$ ): 50 Hz: 20 VA; 60 Hz: 22 VA  
 Operating range ( $\theta \leq 55^\circ\text{C}$ ): 0.85...1.1 Uc.

Control circuit voltage Uc	50 Hz		60 Hz		Cat. no. (1)	Inductance of closed circuit	Average resistance at 20 °C $\pm 10\%$	Inductance of closed circuit	Cat. no. (1)	Weight
	$\Omega$	H	$\Omega$	H						
24	1.4	0.09	LAEX4B5	1.05	0.04	LAEX4B6	1.2	0.09	LAEX4B7	0.145
48	5.5	0.35	LAEX4E5	-	-	-	4.3	0.36	LAEX4E7	0.145
110	31.0	1.90	LAEX4F5	22.0	0.90	LAEX4F6	24.0	1.92	LAEX4F7	0.145
220	127	7.50	LAEX4M5	98	3.80	LAEX4M6	95.0	7.29	LAEX4M7	0.145
240	152	5.4	LAEX4U5	-	-	-	-	-	-	0.145
380	381	14.11	LAEX4Q5	300	12.17	LAEX4Q6	298.6	23.47	LAEX4Q7	0.145
415	463	16.6	LAEX4N5	-	-	-	-	-	-	0.145
440	513	18.4	LAEX4R5	392	14.3	LAEX4R6	-	-	-	0.145

# EasyPact TVS 3-poles contactors

Coil replacement for EasyPact TVS,  
LC1E120 to E160



## For 3-pole contactors LC1E120/E160

### Specifications

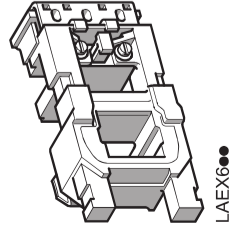
Average consumption at 20 °C:  
 ■ inrush ( $\cos \varphi = 0.8$ ): 50 Hz: 300 VA  
 ■ sealed ( $\cos \varphi = 0.8$ ): 50 Hz: 22 VA  
 Operating range ( $\theta \leq 55^\circ\text{C}$ ): 0.85...1.1 Uc.

Control circuit voltage Uc	50 Hz		60 Hz		Cat. no. (1)	Inductance of closed circuit	Average resistance at 20 °C $\pm 10\%$	Inductance of closed circuit	Cat. no. (1)	Weight
	$\Omega$	H	$\Omega$	H						
24	1.24	0.09	LAEX5B5	0.87	0.07	LAEX5B6	0.87	0.07	LAEX5B6	0.210
48	4.51	0.36	LAEX5E5	-	-	-	-	-	-	0.210
110	26.5	2.00	LAEX5F5	20.0	1.45	LAEX5F6	20.0	1.45	LAEX5F6	0.210
220	105	7.65	LAEX5M5	79.6	5.69	LAEX5M6	79.6	5.69	LAEX5M6	0.210
240	125	8.89	LAEX5U5	-	-	-	-	-	-	0.210
380	339	22.3	LAEX5Q5	243	17.0	LAEX5Q6	243	17.0	LAEX5Q6	0.210
415	368	27.7	LAEX5N5	-	-	-	-	-	-	0.210
440	442	30.3	LAEX5R5	339	22.3	LAEX5R6	-	-	-	0.210

(1) The last two digits in the reference represent the voltage code.

# EasyPact TVS 3-poles contactors

Coil replacement for EasyPact TVS,  
LC1E200 to E300



## For 3-pole contactors LC1E200...E250

### Specifications

Average consumption at 20 °C:

- inrush ( $\cos \varphi = 0.9$ ) 50 Hz: 805 VA; 60 Hz: 970 VA
- sealed ( $\cos \varphi = 0.3$ ) 50 Hz: 55 VA; 60 Hz: 66 VA

Heat dissipation: 18...24 W.

Operating time à  $U_c$ : closing = 20...35 ms, opening = 7...15 ms.

Control circuit voltage $U_c$	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Weight
V	$\Omega$	H	50 Hz	$\Omega$	H	60 Hz	kg
24	0.18	0.03	LAEX6B5	0.13	0.02	LAEX6B6	0.510
48	0.71	0.12	LAEX6E5	-	-	-	0.510
110	4.2	0.65	LAEX6F5	2.7	0.44	LAEX6F6	0.510
220	17	2.59	LAEX6M5	11.1	1.80	LAEX6M6	0.510
240	20	3.09	LAEX6U5	-	-	-	0.510
380	51.3	7.8	LAEX6Q5	34	5.3	LAEX6Q6	0.510
415	62.3	9.1	LAEX6N5	-	-	-	0.510
440	62.3	9.1	LAEX6R5	43.5	6.9	LAEX6R6	0.510

## For 3-pole contactors LC1E300

### Specifications

Average consumption at 20 °C:

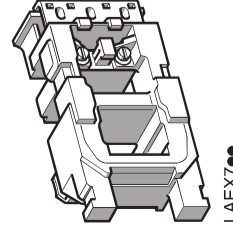
- inrush ( $\cos \varphi = 0.9$ ) 50 Hz or 60 Hz: 650 VA
- sealed ( $\cos \varphi = 0.3$ ) 50 Hz or 60 Hz: 10 VA.

Heat dissipation: 8 W.

Operating time à  $U_c$ : closing = 40...65 ms, opening = 100...170 ms.

Operate on networks with harmonic numbers  $\leq 7$ .

Operating cycles/hour ( $\theta \leq 55$  °C):  $\leq 2400$



Control circuit voltage $U_c$	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Average resistance at 20 °C ±10 %	Inductance of closed circuit	Cat. no. (1)	Weight
V	$\Omega$	H	50 Hz	$\Omega$	H	60 Hz	kg
24	20	(2)	LAEX7B5	20	(2)	LAEX7B6	0.770
48	67	(2)	LAEX7E5	-	-	-	0.770
110	440	(2)	LAEX7F5	440	(2)	LAEX7F6	0.770
220	1578	(2)	LAEX7M5	1578	(2)	LAEX7M6	0.770
240	1968	(2)	LAEX7U5	-	-	-	0.770
380	4631	(2)	LAEX7Q5	4631	(2)	LAEX7Q6	0.770
415	4631	(2)	LAEX7N5	-	-	-	0.770
440	6731	(2)	LAEX7R5	6731	(2)	LAEX7R6	0.770

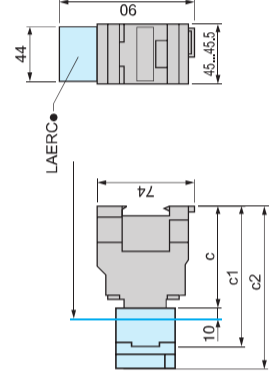
(1) The last two digits in the reference represent the voltage code.

(2) Please consult your Regional Sales Office.

# EasyPact TVS 3-pole contactors

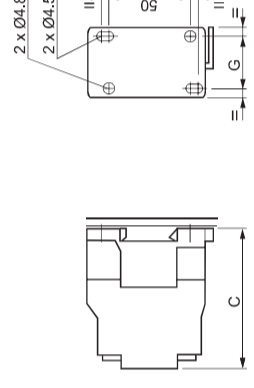
LC1E06 to E95

## LC1E06...E25



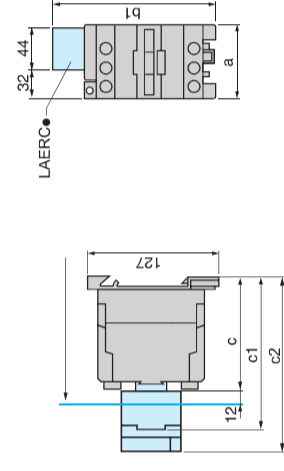
LC1	E06...E18	E25
c	80	85
c1 with LAEN	113	118
c2 with LAETSD	-	136

## LC1E06...E25



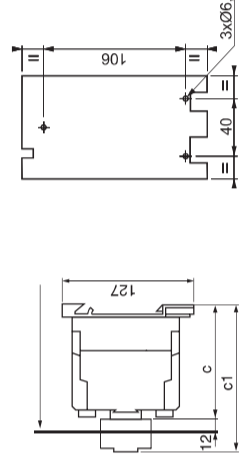
LC1	E06	E09	E12	E18	E25
c	80	80	80	80	85
G	35	35	35	35	35

## LC1E40...E65



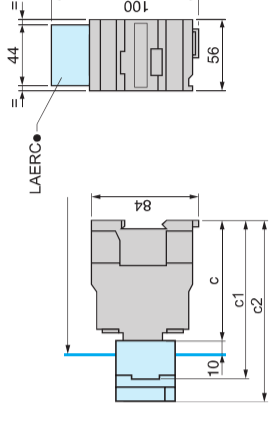
LC1	E40...E65
a	75
b1 with LAERC	135
c	115
c1 with LAEN	147
c2 with LAETSD	165

## LC1E40...E65



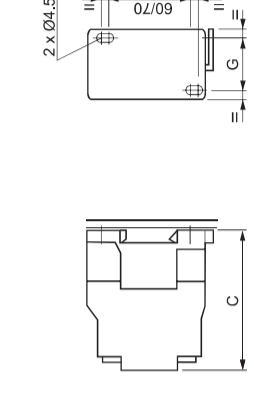
LC1	E40...E65
c	115

## LC1E32/38



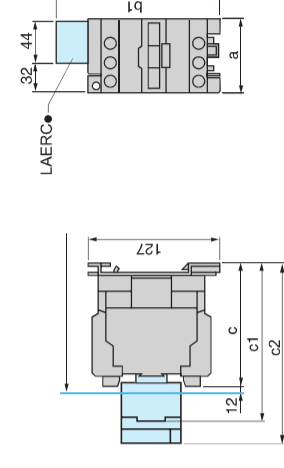
LC1	E32/38
c	86
c1 with LAEN	120
c2 with LAETSD	138

## LC1E32/38



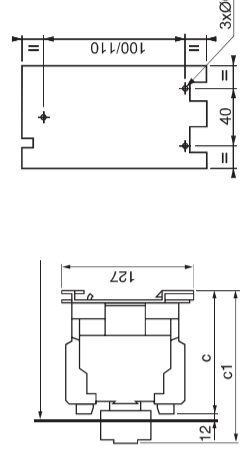
LC1	E32/38
c	86
G	40

## LC1E80/95



LC1	E80/95
a	85
b1 with LAERC	135
c	124
c1 with LAEN	153
c2 with LAETSD	171

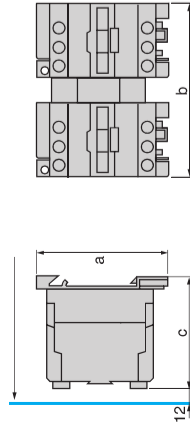
## LC1E80/95



LC1	E80/95
c	124

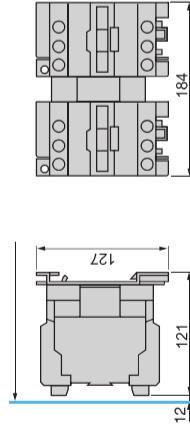
## EasyPact TVS 3-pole contactors LC1E06 to E95

### 2 x LC1E06...E65 with LAEM1



LC1	E06...25	E32...38	E40...65
a	74	84	127
b	104	126	164
c	80	86	114

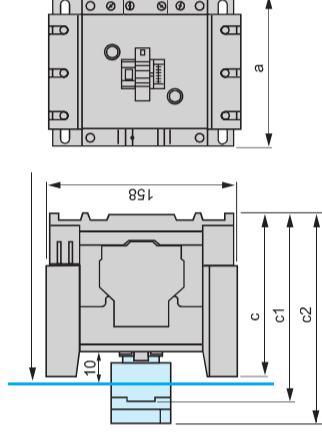
### 2 x LC1E80/95 with LAEM4



## EasyPact TVS 3-pole contactors LC1E120 and 160 A

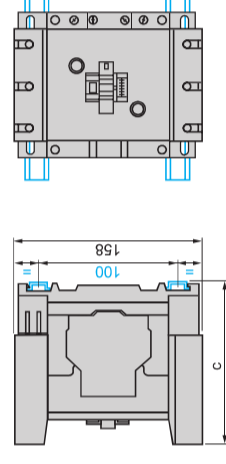
### LC1E120/160

On panel with accessories



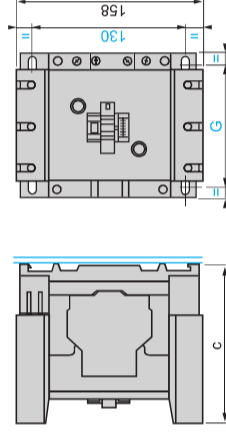
a	120
c	Without add-on blocks 132
c1	With LAEN 150
c2	With LAETSD 168

### On 2 mounting rails DZ5 MB on 120 mm centres



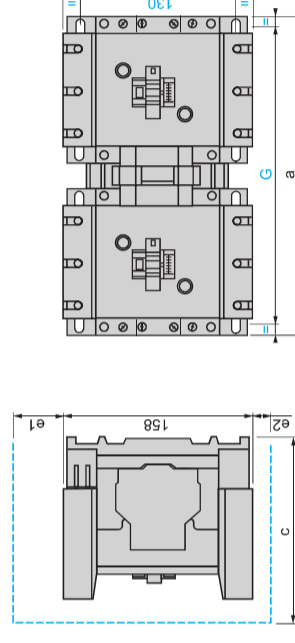
c	(AM1 DP200 or DR200)	134.5
c	(AM1 DE200 or ED...)	150

### On Panel



LC1E120	LC1E160	
c	(AM1 DP200 or DR200)	132
G		91/110
		96/110

### 2 x LC1E120 or LC160 with LAEM5



2 x LC1E120 or 160	a	c	e1	e2	G
For 120 and 160	266	148	56	18	242/256

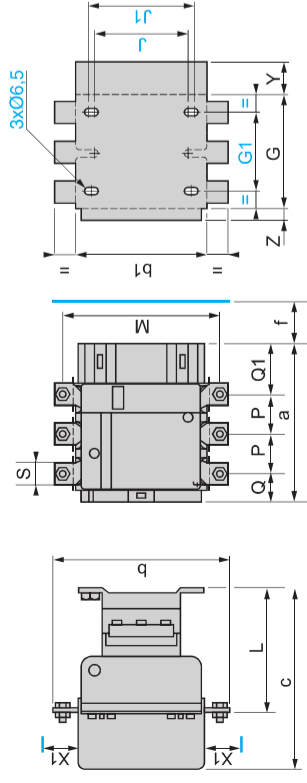
c, e1 and e2: including cabling

# EasyPact TVS 3-pole contactors

LC1E200, E250 and E300 A

## LC1E200 - LC1E250 - LC1E300

On panel



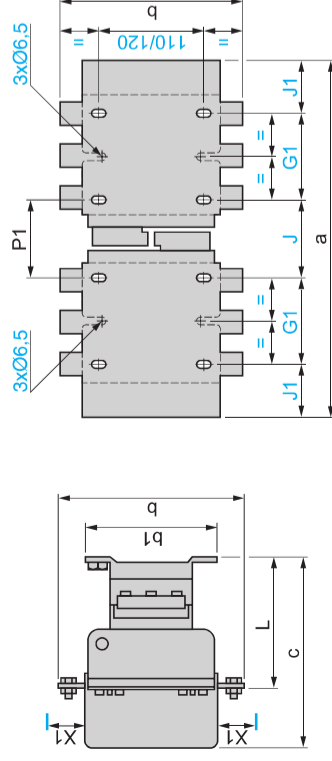
X1 (mm) = minimum electrical clearance according to operating voltage and breaking capacity.

	220...500 V	600...690 V
LC1E200	10	15
LC1E250, 300	10	15

a	b	b1	c	f	g	g1	j	j1	l	m	p	q	q1	s	y	z	
LC1E200	168.5	174	137	181	130	111	80	106	120	113.5	154	40	29	59.5	20	44	13.5
LC1E250	168.5	197	137	181	130	111	80	106	120	113.5	172	48	21	51.5	25	44	13.5
LC1E300	213	206	145	219	147	154.5	96	106	120	145	181	48	43	74	25	38	20.5

f = minimum distance required for coil removal.

## 2 x LC1E200 or LC1E250 with LAEM6 - 2 x LC1E300 with LAEM7



X1 (mm) = minimum electrical clearance according to operating voltage and breaking capacity.

	220...500 V	600...690 V
LC1E200	10	15
LC1E250, 300	10	15

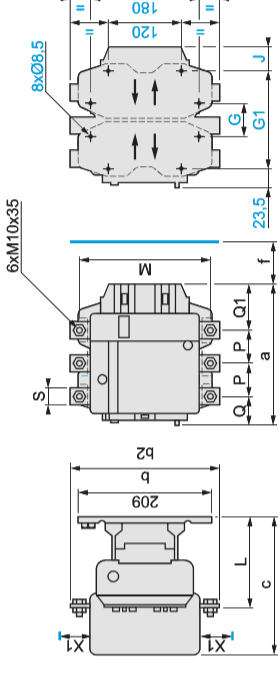
a	b	b1	c	f	g	g1	j	j1	l	p1
2 x LC1E200	357	174	137	181	80	78	59.5	113.5	78	78
2 x LC1E250	357	197	137	181	80	78	59.5	113.5	62	62
2 x LC1E300	447	206	145	219	96	124	65.5	145	107	107

# EasyPact TVS 3-pole contactors

LC1E400, E500 and E630 A

## LC1E400 - LC1E500

On panel



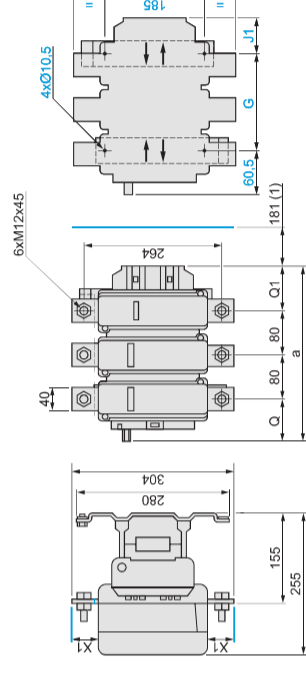
X1 (mm) = minimum electrical clearance according to operating voltage and breaking capacity.

	220...500 V	600...690 V
LC1E400	15	20
LC1E500	15	20

a	b	b2	c	f	g*	Gmin.	Gmax.	G1*	G1min.	G1max.	J	L	M	P	Q	Q1	S	
LC1E400	213	206	375	219	146	80	66	102	170	156	192	145	181	48	43	74	25	
LC1E500	233	238	400	232	150	80	66	120	170	156	210	39.5	146	208	55	46	77	30

f = minimum distance required for coil removal.

## LC1E630



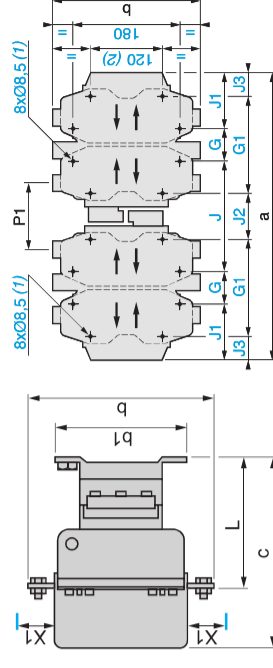
X1 (mm) = minimum electrical clearance according to operation voltage and breaking capacity.

	220...500 V	600...690 V
LC1E630	20	30

(1) Minimum distance required for coil removal.

a	g*	G min	G max.	J1	Q	Q1
LC1E630	309	180	100	68.5	60	89

## 2 x LC1E400, LC1E500, LC1E630



X1 (mm) = minimum electrical clearance according to operating voltage and breaking capacity.

	220...500 V	600...690 V
LC1E400, 500	15	20
LC1E630	20	30

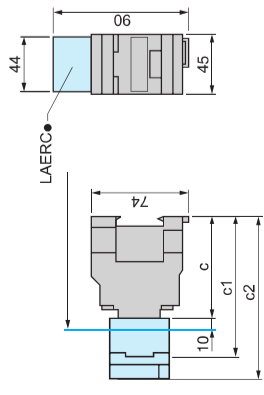
(1) Except LC1E630 : 4 x Ø 10.5.

(2) Except LC1E630 : 180mm.

a	b	b1	c	g	G1	J	J1	J2	J3	L	P1
2 x LC1E400	446	206	209	80	170	157	64.5	67	19.5	145	107
3 x LC1E500	485	238	209	80	170	156	84.5	66	39.5	146	112
4 x LC1E630	636	304	280	180	-	139	68.5	-	-	155	137

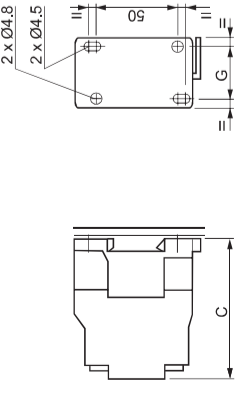


LC1E06...E18



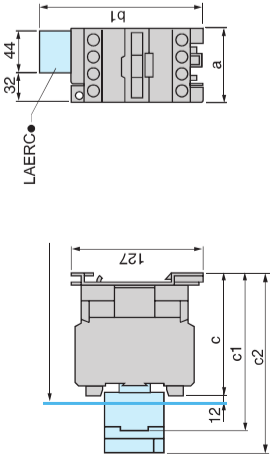
LC1	E06/E18	80
c		113
c1 with LAEN		135
c2 with LAETSD		147

LC1E06...E18



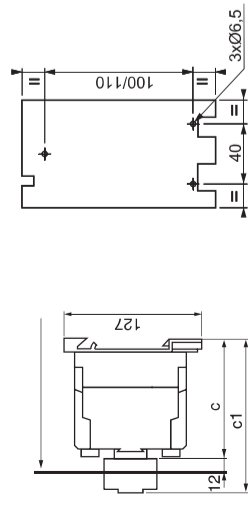
LC1	E06	E09	E12	E18
c	80	80	80	80
G	35	35	35	35

LC1E40/65



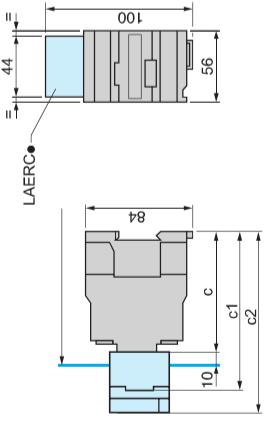
LC1	E40...E65	85
a		135
b1 with LAERC		110/125
c1 with LAEN		143
c2 with LAETSD		165

LC1E40/65



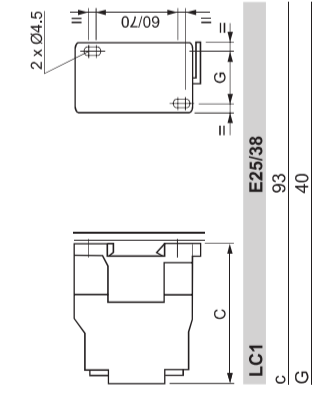
LC1	E40/E65	114
c		121

LC1E25...E38



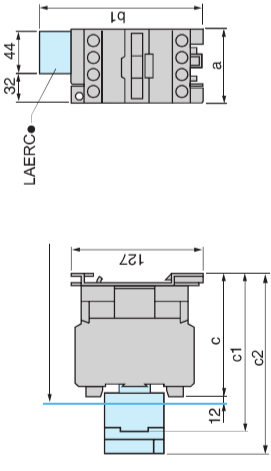
LC1	E25/38	93
c		125
c1 with LAEN		147
c2 with LAETSD		160

LC1E25...E38



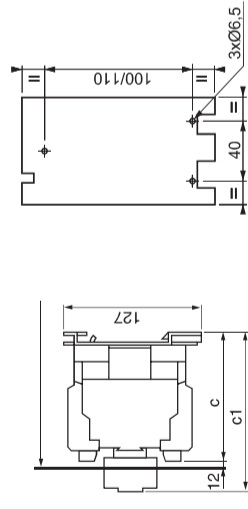
LC1	E25/38	93
c		125
G		147

LC1E80/95



LC1	E80/95	95
a		135
b1 with LAERC		120/135
c1 with LAEN		160
c2 with LAETSD		172

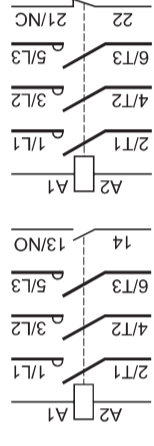
LC1E80/95



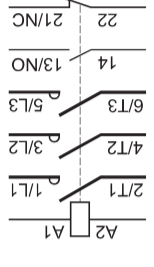
LC1	E80/95	121
c		172

Contactors (3-pole)

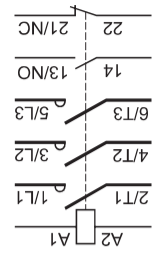
LC1E06...38



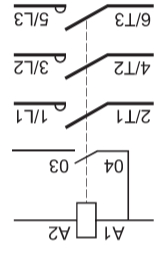
LC1E40...95



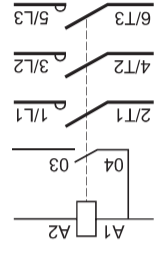
LC1E120/160



LC1E200, 250, 300

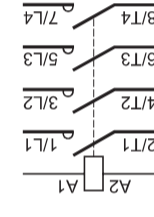


LC1E 400, 500, 630

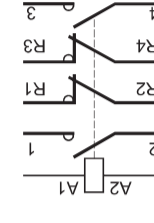


Contactors (4-pole)

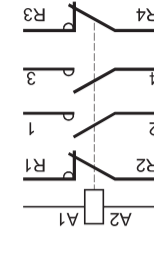
LC1E06...95004



LC1E06...38008



LC1E40...95008



# EasyPact TVS contactors

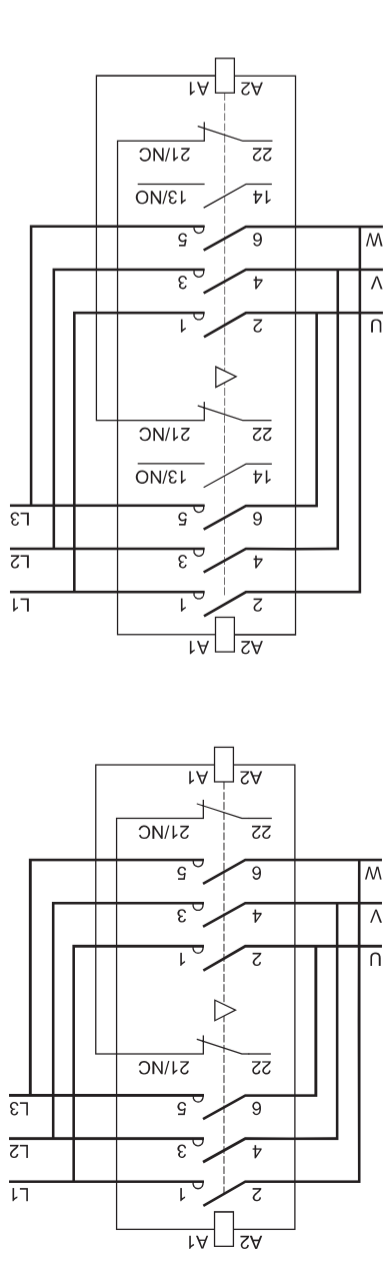
## LC1E06...630 A

### Reversing contactors

2 x LC1E06...38

2 x LC1E40...95

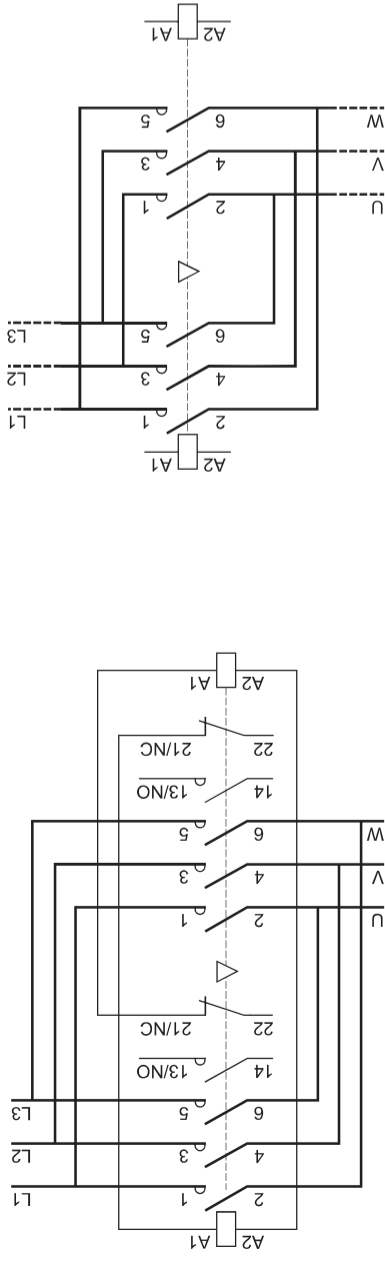
Horizontally mounted



2 x LC1E120, 160

2 x LC1E200, 250, 300

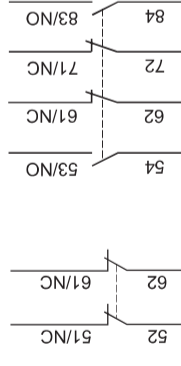
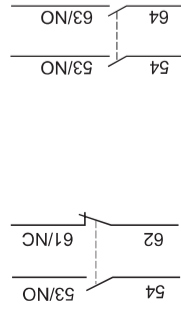
Horizontally mounted



### Front mounting add-on contact blocks

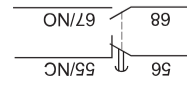
1NO + 1NC (LAEN11) 2NO (LAEN20)

2NC (LAEN02) 2NO +2NC (LAEN22)



### Time delay auxiliary contacts

On delay 1NO + 1NC (LAETS0)



### Mechanical interlock

LAEM●

