

EasyPact TVS

Catalog 2019

Motor starters from 6 to 630A



www.schneider-electric.com

Life Is On

Schneider
Electric

90 years of leadership in motor starter technology

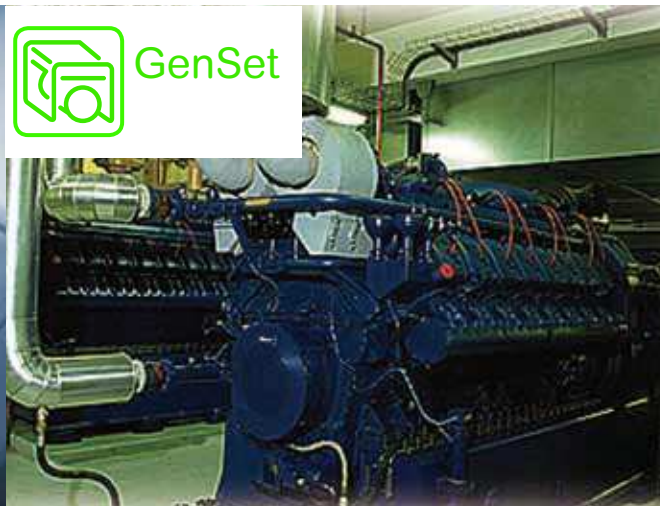
EasyPact TVS provide you **Essential** control & protection for your applications:



HVAC



GenSet



Pumps



Textile



Material
Handling



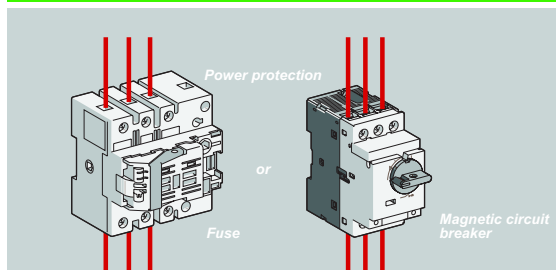
Packaging



2 principles to build your starter solution

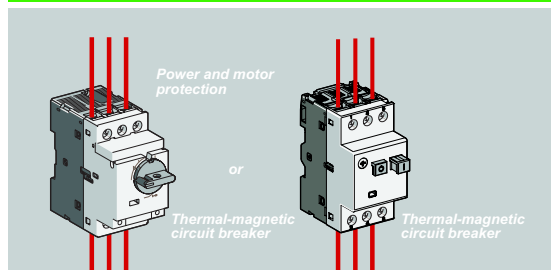
3-components solution

(Magnetic circuit breaker or fuse + Contactor + TOR)

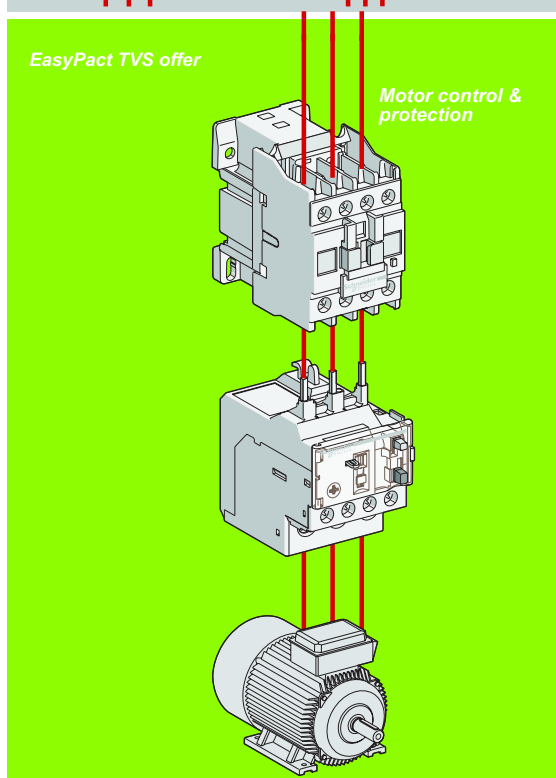


2-components solution

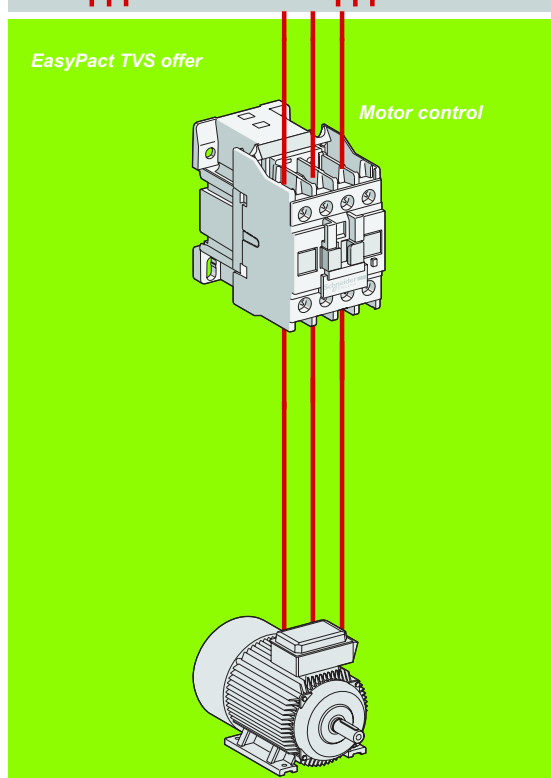
(Thermal-magnetic circuit breaker + Contactor)



EasyPact TVS offer

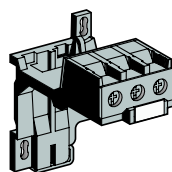
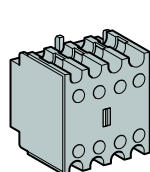


EasyPact TVS offer



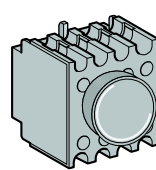
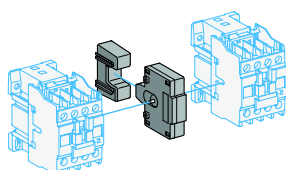
To build the essential solutions
in an easy and simple way

Control



Terminal
block

Reversor
starter



Star-Delta
solution

Designed for the essential

> Easy choice for
simple applications

General contents

EasyPact TVS contactors, 6 A to 630 A

A

EasyPact TVS thermal overload relays 0.1 A to 630 A

B

EasyPact TVS control relays 4 NO/NC contacts

C

EasyPact TVS motor protection circuit breaker 0.1A to 32A

D

Coordination between protection and control components

E

EasyPact TVS



> EasyPact TVS contactors,
6 A to 630 A



> EasyPact TVS thermal overload relays
0.1 A to 630 A



> EasyPact TVS control relays
4 NO/NC contacts



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

> Coordination between protection
and control components

> Glossary, definitions, technical
information

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

3 pole & 4 pole Characteristics

▶ A-1

Accessories, spare parts

▶ A-17

Dimensions, mounting

▶ A-26

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

Characteristics

▶ B-1

Dimensions, mounting

▶ B-7

Pilot your control circuits

Characteristics

▶ C-1

Dimensions, mounting

▶ C-4

Characteristics

▶ D-1

References

▶ D-3

Dimensions, mounting

▶ D-7

Better continuity of service

What coordination means

▶ E-1

Glossary

▶ E-5

Definitions

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Technical informations

▶ E-7

EasyPact TVS 3-pole contactors

											
Size		1						2		3	
Rated operational current AC-3	A	6	9	12	18	25	32	38	40	50	65
Rated operational current AC-1	A	20	25		32	36	50		60	70	80
Rated operational power in AC-3	220/230 V	1.1	2.2	3	4	5.5	7.5	9	11	15	18.5
	380/400 V	2.2	4	5.5	7.5	11	15	18.5	18.5	22	30
	415/440 V	2.2	4	5.5	9	11	15	18.5	22	25/30	37
	500 V	3	5.5	7.5	10	15	18.5	18.5	22	30	37
	660/690 V	3	5.5	7.5	10	15	18.5	18.5	30	33	37
Width	mm	45				45.5	56		75		
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							1 NO + 1 NC		
References ⁽¹⁾		LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65

(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	R5
	60 Hz	B6	-	F6	M6	-	-	Q6	-	R6
LC1E06-95	50/60Hz	B7	E7	F7	M7	P7	-	Q7	-	-
LC1E400-630	50/60Hz	-	E7	F7	M7	-	U7	Q7	N7	-

Contactors: how to determine the full commercial reference ?

Example:

LC1E	12	10	U	5		ref. LC1E1210U5
					5	50 Hz
					Coil voltage code	240 V
					Auxiliary contact configuration ⁽²⁾	01 1NC 10 1NO
					Rated operation current AC3	12 A
					Contactor	EasyPact TVS

Example 1: you need a 32 A contactor, 1 NC auxiliary contact, 24 V - 50 Hz coil ⇒ **LC1E3201B5**

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

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

from 6 to 630 A

										
4		5 ⁽³⁾		6 ⁽³⁾		7 ⁽³⁾		8 ⁽³⁾		9 ⁽³⁾
80	95	120	160	200	250	300	400	500	630	
110	120	150	200	250	300	320	500	700	1000	
22	25	37	45	55	75	90	110	147	185	
37	45	55	75	90	132	160	200	250	335	
45	45	59	80	100	140	160/185	220/250	280/295	375/400	
45	55	75	90	110	160	200	257	355	400	
45	45	80	100	110	160	220	280	335	450	
85		120		168.5		213	213	233	309	
1 NO + 1 NC				-		-				
LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630	

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)



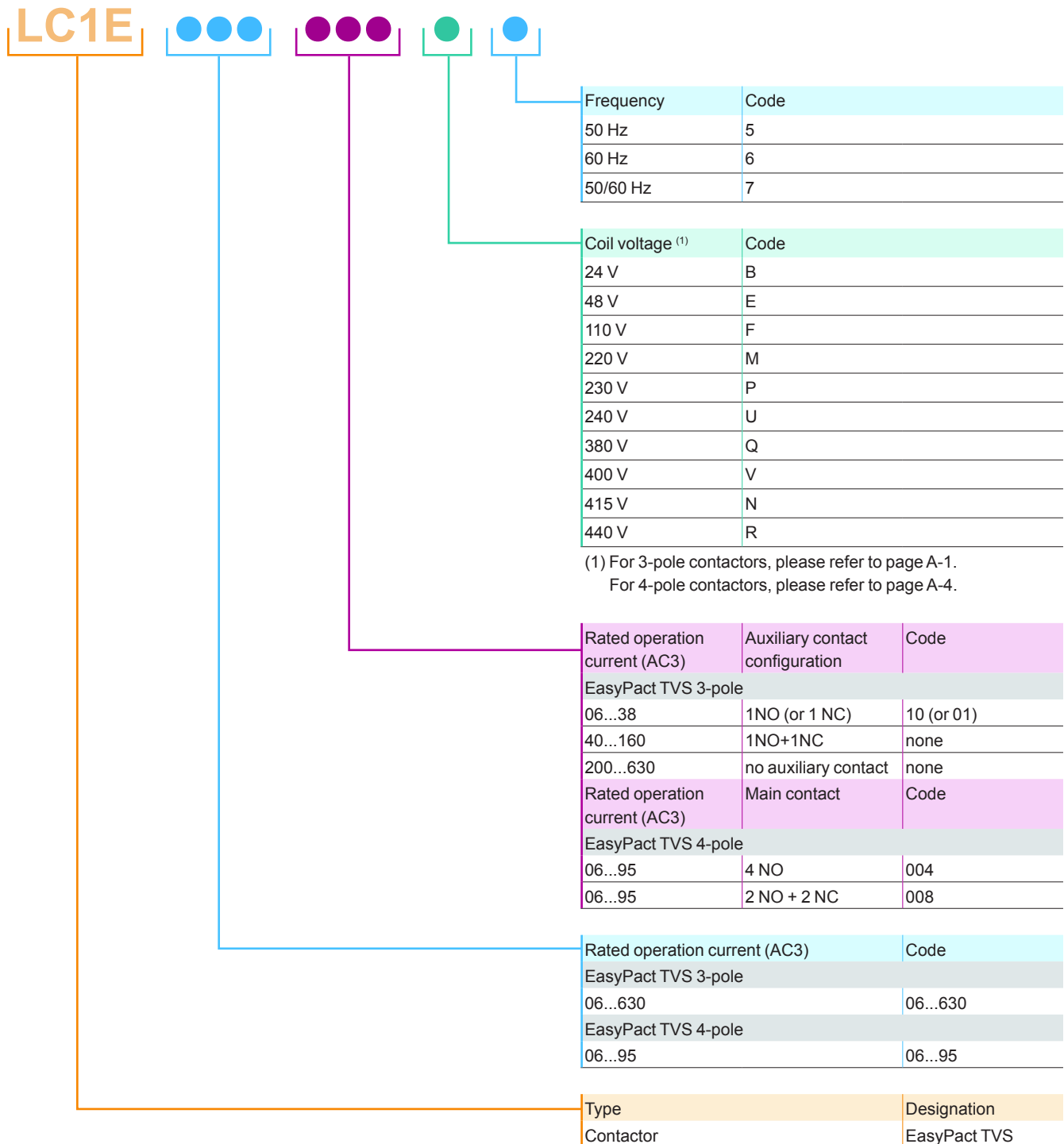
LAEP● set of power connections (up to 95 A)
(see page A-19)

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.

⁽³⁾ Color change for 120-630A contactors would come later, please consult your local Schneider Electric office.

Commercial reference numbering system



Contactor: how to determine the full commercial reference ?

Example 1: you need a 32 A contactor, 1 NC auxiliary contact, 24 V - 50 Hz coil ⇒ **LC1E3201B5**

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

EasyPact TVS 4-pole contactors from 6 to 95 A

												
Size		1	2	3	4							
Rated operational current AC-3	A	6	9	12	18	25	32	38	40	65	80	95
Rated operational current AC-1	A	16	20	25	32	40	45	60	60	80	100	125
Width	mm	45	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 ⁽¹⁾		LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E65	LC1E80	LC1E95

(1) Partial, see below.

Coil voltage code for 4-pole contactors

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

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)

Contactors: how to determine the full commercial reference ?

Example:

LC1E	12	004	B	7		ref. LC1E12004B7
					7	50/60Hz
					Coil voltage code	24V
					Main Contact	004 4NO 008 2NO+2NC
					Rated operation current AC3	12 A
					Contactor	EasyPact TVS

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
Number of poles			3			
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3 (θ ≤ 55 °C)	A	6	9	12	18
	In AC-3 (θ ≤ 55 °C)					
	In AC-1 (θ ≤ 55 °C)		20	25		32
	In AC-1 (θ ≤ 40 °C)		–			
Rated operational voltage (Ue)	Up to	V	690			
Frequency limits	Of the operational current	Hz	50 or 60			
Conventional thermal current (Ith)	θ ≤ 55 °C	A	20	25		32
	θ ≤ 40 °C		–			
Rated breaking capacity at 440 V	Conforming to IEC 60947	A	48	72	96	144
Rated making capacity at 440 V	Conforming to IEC 60947-4-1	A	60	90	120	180
Permissible short time rating	10 s	A	80	105		145
No current flowing for preceding 15 minutes with θ ≤ 40 °C	1 min		45	61		84
	10 min		20	30		40
Maximum permissive current	For 10 s	A	–			
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	A	12	20	25	35
	With thermal overload relay		For corresponding aM or gG fuse ratings corresponding to the associated LRE thermal overload relay, please see page B-3			
Average impedance per pole	At Ith and 50 Hz	mΩ	2.5			
Power dissipation per pole for the above operational currents	AC-3	W	0.09	0.20	0.36	0.81
	AC-1		1.0	1.6		2.6
Electrical durability	AC-3 (Ue ≤ 440 V)	Million cycles	1.4			1.2
	AC-1 (Ue ≤ 440 V)		0.15		0.3	
Mechanical durability			10			

Power circuit connections

Connection maximum c.s.a.

Flexible cable with cable end	1 conductor	mm²	1...4			
	2 conductors		1...2.5			
Flexible cable without cable end	1 conductor	mm²	1...4			1.5...6
	2 conductors		1...4			1.5...6
Solid cable without cable end	1 conductor	mm²	1...4			1.5...6
	2 conductors		1...4			1.5...6
Cable with lug		mm	–			
Bar	Number of bars		–			
	Bar	mm x mm	–			
Bolt diameter	1 conductor	mm	–			
Tightening torque	Power circuit connection	N.m	1.2			
Tool			Philips N°2 or Ø6mm flat			

	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65	LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630
	25	32	38	40	50	65	80	95	—							
									120	160	200	250	300	400	500	630
	36	50		60	70	80	110	120	—							
									150	200	250	300	320	500	700	1000
														50/60		
	36	50		60	70	80	110	120	—							
									150	200	250	300	320	500	700	1000
	200	256	304	320	400	520	640	760	960	1280	1600	2000	2400	3200	4000	5040
	250	320	380	400	500	650	800	950	1200	1600	2000	2500	3000	4000	5000	6300
	240	260	310	320	400	520	640	800	950	1200	1500	1800	2650	3600	4200	5050
	120	138	150	165	208	260	320	400	550	580	740	850	1300	1700	2400	3400
	50	60		72	84	110	135		250	250	400	440	750	1000	1200	1600
									1100	1400	1500	1800	2200	3600	4200	5050
	40	63		80	100	125	160		250	315			500	630	800	800
									—							
	2.5			1.5		1	0.8		0.6		0.33	0.32	0.3	0.26	0.18	0.12
	1.6	2.0	2.9	2.4	3.8	4.2	5.1	7.2	8.6	15	13	20	27	42	45	48
	3.2	5.0		5.4	7.4	6.4	9.7	12	14	24	21	29	31	65	88	120
		1	0.9						0.8		0.5	0.7	0.5	0.6	0.6	0.6
	0.35								0.25		0.2		0.4	0.25	0.25	0.2
		8		5			3		4		5			4	4	4
	1...6			2.5...25			4...50		10...120		—					
	1...4			2.5...10			4...16		10...120 + 10...50		—					
		1.5...10		2.5...25			4...50		10...120		—					
		1.5...6		2.5...16			4...25		10...120 + 10...50		—					
		1.5...10		2.5...25			4...50		10...120		—					
		1.5...6		2.5...16			4...25		10...120 + 10...50		—					
										150	185	240	2 x 150	2 x 240	—	
										2						
										3 x 25	4 x 32	5 x 30	30 x 5	40 x 5	60 x 5	
										M8	M10				M12	
	1.5	2.1		5			9		12	18	35				58	
				Ø8mm flat			Ø8mm flat or Allen key n°4		Allen key n°4		Wrench					

EasyPact TVS 4-pole contactors

6 to 95 A

Power characteristics

Power circuit connections

Contactor type			LC1E06	LC1E09	LC1E12	LC1E18
Number of poles			4			
Rated operational current (Ie) (Ue ≤ 415 V)	In AC-3 (θ ≤ 60 °C)	A	6	9	12	18
	In AC-1 (θ ≤ 60 °C)		16	20	25	32
Rated operational voltage (Ue)		V	690			
Frequency limits		Hz	50/60			
Conventional thermal current (Ith)		A	16	20	25	32
Rated breaking capacity at 440 V		A	48	72	96	144
Rated making capacity at 440 V		A	60	90	120	180
Permissible short time rating No current flowing for preceding 15 minutes with θ ≤ 40 °C	10 s	A	80	105		145
	1 min		45	61		84
	10 min		20	30		40
Maximum permissive current No current flowing for previous 60 minutes, at θ ≤ 40 °C		A	—			
Protection by fuses against short-circuits (U ≤ 690 V)	Without thermal overload relay gG fuse	Type 1	12	20	25	35
	With thermal overload relay		For corresponding aM or gG fuse ratings corresponding to the associated LRE thermal overload relay, please see page B-3			
Average impedance per pole		mΩ	2.5			
Power dissipation per pole for the above operational currents		W	1.0	1.6		2.6
Electrical durability		Million cycles	0.15		0.3	
Mechanical durability			10			

Power circuit connections

Connection maximum c.s.a.

Flexible cable with cable end	1 conductor	mm ²	1...4			
	2 conductors		1...2.5			
Flexible cable without cable end	1 conductor	mm ²	1...4			1.5...6
	2 conductors		1...4			1.5...6
Solid cable without cable end	1 conductor	mm ²	1...4			1.5...6
	2 conductors		1...4			1.5...6
Cable with lug		mm	—			
Bar	Number of bars		—			
	Bar	mm x mm	—			
Bolt diameter		mm	—			
Tightening torque		N.m	1.2			
Tool			Philips N°2 or Ø6mm flat			

	LC1E25	LC1E32	LC1E38	LC1E40	LC1E65	LC1E80	LC1E95
	25	32	38	40	65	80	95
	40	45	60	60	80	100	125
	40	45	60	60	80	100	125
	200	256	304	320	520	640	760
	250	320	380	400	650	800	950
	240	260	310	320	520	640	800
	120	138	150	165	260	320	400
	50	60		72	110	135	
	40	63		80	125	160	
	2.5			1.5	1	0.8	
	3.2	5.0	5.4	5.4	6.4	9.7	12
	0.35						
		8		5		3	
	1...6			2.5...25		4...50	
	1...4			2.5...10		4...16	
	1.5...10			2.5...25		4...50	
	1.5...6			2.5...16		4...25	
	1.5...10			2.5...25		4...50	
	1.5...6			2.5...16		4...25	
	1.5	2.1		5		9	
				Ø8mm flat		Ø8mm flat or 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

Contactor type				LC1E06	LC1E09	LC1E12	LC1E18
Rated control circuit voltage (Uc) 50/60 Hz				V	24...440 according coil voltage code		
Control voltage limits ($\theta \leq 55\text{ }^{\circ}\text{C}$)							
50 Hz or 60 Hz coils Operational					0.85...1.1 Uc		
Drop-out					0.3...0.6 Uc		
Average consumption at 20°C and at Uc							
~ 50 Hz coils	Inrush	coil	VA	95			
		cos φ		0.75			
	Sealed	coil	VA	8.5			
		cos φ		0.3			
~ 60 Hz coils	Inrush	coil	VA	95			
		cos φ		0.75			
	Sealed	coil	VA	8.5			
		cos φ		0.3			
Heat dissipation				W	2...3		
Operating time		Closing "C"	ms	12...22			
		Opening "O"		4...19			
Maximum operating rate at ambient temperature ≤ 60 °C				In operating cycles per hour	1800		
Maximum operating rate at ambient temperature ≤ 55 °C							

Control circuit connections

Connection maximum c.s.a.				
Flexible cable without cable end	1 or 2 conductors	mm ²	1...4	
Flexible cable with cable end	1 conductor	mm ²	1...4	
	2 conductors		1...2.5	
Solid cable without cable end	1 or 2 conductors	mm ²	1...4	
Tightening torque		N.m	1.2	
Screwdriver			Philips N° 2 - Ø6 mm flat	

Built in auxiliary contact

Contacts conforming to IEC 60947-5-1			LC1E06...E38: contactor's own 1NO or 1NC LC1E40...E160: contactor's own 1NO and 1NC	
Rated operational voltage (Ue)	Up to	V	690	
Rated insulation voltage (Ui)	Conforming to IEC 60947-1		690	
Conventional thermal current (Ith)	Ambient air temperature $\leq 60^\circ\text{C}$	A	10	
Operating current frequency		Hz	50 or 60	
Minimum switching capacity $\lambda = 10^{-8}$	U min	V	17	
	I min	mA	5	
Short-circuit protection	Conforming to IEC 60947-5-1		gG fuse: 10 A	
Raked making capacity	Conforming to IEC 60947-5-1	A	~: 140	
Short-time rating	Permissible for 1 s	A	100	
	500 ms		120	
	100 ms		140	
Insulation resistance		MΩ	>10	
Non-overlap time	Guaranteed between N/C and N/O contacts	ms	1.5 on energisation and on de-energisation	

EasyPact TVS 4-pole contactors

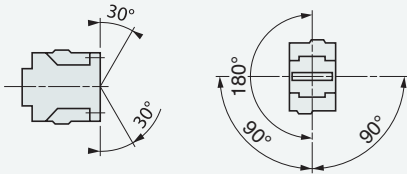
6 to 95 A

Control circuit: coil characteristics

Built in auxiliary contact

Control circuit: coil characteristics with a.c. supply						
Contactor type			LC1E06	LC1E09	LC1E12	LC1E18
Rated control circuit voltage (Uc) 50/60 Hz			V	24...415 according coil voltage code		
Control voltage limits (θ ≤ 55 °C)						
50/60 Hz coils		Operational		0.85...1.1 Uc		
		Drop-out		0.3...0.6 Uc		
Average consumption at 20°C and at Uc						
~ 50 Hz coils	Inrush	coil	VA	95		
		cos φ		0.75		
	Sealed	coil	VA	8.5		
		cos φ		0.3		
~ 60 Hz coils	Inrush	coil	VA	95		
		cos φ		0.75		
	Sealed	coil	VA	8.5		
		cos φ		0.3		
Heat dissipation			W	2.3		
Operating time	Closing "C"		ms	12...22		
	Opening "O"			4...19		
Maximum operating rate at ambient temperature ≤ 60 °C			In operating cycles per hour	1800		
Maximum operating rate at ambient temperature ≤ 55 °C				-		
Control circuit connections						
Connection maximum c.s.a.						
Flexible cable without cable end	1 or 2 conductors	mm²	1...4			
	1 conductor	mm²	1...4			
	2 conductors		1...2.5			
Solid cable without cable end	1 or 2 conductors	mm²	1...4			
Tightening torque			N.m	1.2		
Screwdriver				Philips N° 2 - Ø6 mm flat		

Environment

Contactor type			LC1E06...E18	LC1E25...E38
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	
Ambiant air temperature around the device	Storage	°C	-60...+80	
	Operation		-5...+55	
	Permissible at UC ⁽¹⁾		-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 ⁽²⁾	Contactor open		7 gn	6 gn
1/2 sinewave = 11 ms	Contactor closed		10 gn	
Vibration resistance ⁽²⁾	Contactor open		1.5 gn	
5...300 Hz	Contactor closed		3 gn	

⁽¹⁾ Derating see page E-4.

⁽²⁾ 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.

Spacial 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.

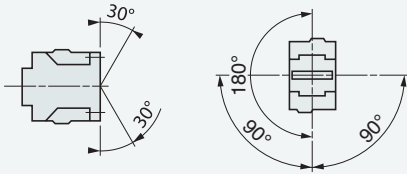
Spacial CRN, suitable for any application

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

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

LC1E40...E65				LC1E80...E95		LC1E120...E160		LC1E200...E300		LC1E400	LC1E500	LC1E630
				8				IEC 60947-4-1				
						IP00		—				

Environment

Contactor type			LC1E06...E18	LC1E25...E38
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	
Ambiant air temperature around the device	Storage	°C	-60...+80	
	Operation		-5...+55	
	Permissible at UC ⁽¹⁾		-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 ⁽²⁾	Contactor open		7 gn	6 gn
1/2 sinewave = 11 ms	Contactor closed		10 gn	
Vibration resistance ⁽²⁾	Contactor open		1.5 gn	
5...300 Hz	Contactor closed		3 gn	

⁽¹⁾ Derating see page E-4.

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

Installation recommendations



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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	415V	500 V	660V	690 V					
230 V	400 V	440V	500 V	690 V	690 V				Fixing ⁽¹⁾	kg
kW	kW	kW	kW	kW	kW	A				
Connection by screw clamp terminals										
1.1	2.2	2.2	3	3	3	6	1	0	LC1E0610●●	0.300
1.1	2.2	2.2	3	3	3	6	0	1	LC1E0601●●	0.300
2.2	4	4	5.5	5.5	5.5	9	1	0	LC1E0910●●	0.300
2.2	4	4	5.5	5.5	5.5	9	0	1	LC1E0901●●	0.300
3	5.5	5.5	7.5	7.5	7.5	12	1	0	LC1E1210●●	0.300
3	5.5	5.5	7.5	7.5	7.5	12	0	1	LC1E1201●●	0.300
4	7.5	9	10	10	10	18	1	0	LC1E1810●●	0.300
4	7.5	9	10	10	10	18	0	1	LC1E1801●●	0.300
5.5	11	11	15	15	15	25	1	0	LC1E2510●●	0.360
5.5	11	11	15	15	15	25	0	1	LC1E2501●●	0.360
7.5	15	15	18.5	18.5	18.5	32	1	0	LC1E3210●●	0.450
7.5	15	15	18.5	18.5	18.5	32	0	1	LC1E3201●●	0.450
9	18.5	18.5	18.5	18.5	18.5	38	1	0	LC1E3810●●	0.450
9	18.5	18.5	18.5	18.5	18.5	38	0	1	LC1E3801●●	0.450
11	18.5	22	22	30	30	40	1	1	LC1E40●●	0.980
15	22	25/30	30	33	33	50	1	1	LC1E50●●	0.980
18.5	30	37	37	37	37	65	1	1	LC1E65●●	0.980
22	37	45	45	45	45	80	1	1	LC1E80●●	1.520
25	45	45	55	45	45	95	1	1	LC1E95●●	1.520
37	55	59	75	80	80	120	1	1	LC1E120●●	2.300
45	75	80	90	100	100	160	1	1	LC1E160●●	2.300
Connection by bars										
55	90	100	110	110	110	200	0	0	LC1E200●●	4.600
75	132	140	160	160	160	250	0	0	LC1E250●●	4.700
90	160	160/185	200	220	220	300	0	0	LC1E300●●	8.500
110	200	220/250	257	280	280	400	0	0	LC1E400●●	9.1
147	250	280/295	355	335	335	500	0	0	LC1E500●●	11.35
185	335	375/400	400	450	450	630	0	0	LC1E630●●	18.6

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	R5
	60 Hz	B6	-	F6	M6	-	-	Q6	-	R6
LC1E06-95	50/60Hz	B7	E7	F7	M7	P7	-	Q7	-	-
LC1E400-630	50/60Hz	-	E7	F7	M7	-	U7	Q7	N7	R7

Seperate 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 AM1DP 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 ($\theta \leq 55^\circ\text{C}$) utilisation category AC-1	number of poles		Basic reference, to be completed by adding the controy voltage code(1)	weight (3)
			Fixing(1)	kg
16	4	-	LC1E06004●●	0.34
	2	2	LC1E06008●●	0.34
20	4	-	LC1E09004●●	0.34
	2	2	LC1E09008●●	0.34
25	4	-	LC1E12004●●	0.34
	2	2	LC1E12008●●	0.34
32	4	-	LC1E18004●●	0.34
	2	2	LC1E18008●●	0.34
40	4	-	LC1E25004●●	0.52
	2	2	LC1E25008●●	0.52
45	4	-	LC1E32004●●	0.52
	2	2	LC1E32008●●	0.52
60	4	-	LC1E38004●●	0.52
	2	2	LC1E38008●●	0.52
60	4	-	LC1E40004●●	1.30
	2	2	LC1E40008●●	1.30
80	4	-	LC1E65004●●	1.30
	2	2	LC1E65008●●	1.30
100	4	-	LC1E80004●●	1.60
	2	2	LC1E80008●●	1.60
125	4	-	LC1E95004●●	1.60
	2	2	LC1E95008●●	1.60

Control voltage code

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

Seperate components

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

Coil spare parts

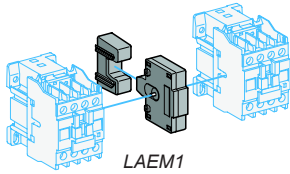
For maintenance, each coil can be ordered separately, please check with schneider electric.

(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 AM1DP or 75 mm  rail AM1 DL or screw fixing.

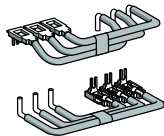
EasyPact TVS contactors

3-pole/4-pole Accessories

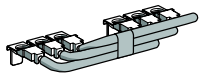
for LC1E contactor



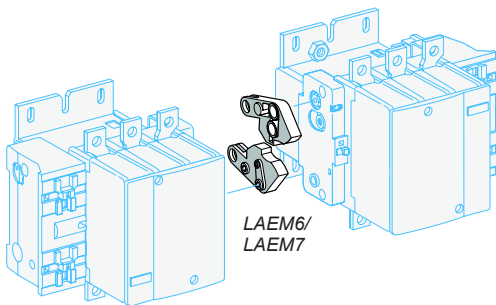
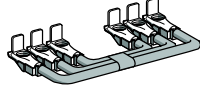
LAEM1



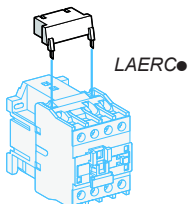
LAEP3



LAEP4



LAEM6/
LAEM7



LAERC●

LC1E●●

3-pole accessories for LC1E contactor

Accessories for motor reverse assembly

Contactors with screw clamp terminals

Using 2 identical contactors	Set of power connections		Mechanical interlock	
	Cat. no.	Weight kg	Cat. no.	Weight kg
Mechanical interlock				
LC1E06...E12	LAEP1	0.020	LAEM1	0.030
LC1E18/E25	LAEP12	0.026	LAEM1	0.030
LC1E32/E38	LAEP2	0.040	LAEM1	0.030
LC1E40...E65	LAEP3	0.230	LAEM1	0.030
LC1E80/E95	LAEP4	0.465	LAEM4	0.095
LC1E120/E160	– (DIY) ⁽¹⁾		LAEM5	0.300
LC1E200/E250	– (DIY) ⁽¹⁾		LAEM6	0.110
LC1E300	– (DIY) ⁽¹⁾		LAEM7	0.250
LC1E400	– (DIY) ⁽¹⁾		LAEM7	0.250
LC1E500	– (DIY) ⁽¹⁾		LAEM7	0.250
LC1E630	– (DIY) ⁽¹⁾		LAEM8	0.270

⁽¹⁾ 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
Mechanical interlock		
LC1E06...E12	LAEM1	0.030
LC1E18/E25	LAEM1	0.030
LC1E32/E38	LAEM1	0.030
LC1E40...E65	LAEM4	0.030
LC1E80/E95	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		Cat. no.	Weight
	Rating	Type		
Screw mounting	LC1E06...E95	V~		kg
		24...48	LAERCE	0.025
		50...127	LAERCG	0.025
		110...240	LAERCU	0.025
		380...415	LAERCN	0.025



LAEN22



LAETSD

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
Front	1 NO / 1 NC	LAEN11	0.035
	2 NO	LAEN20	0.035
	2 NC	LAEN02	0.035
	2 NO / 2 NC	LAEN22	0.060

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

Clip-on mounting	Number of contacts per block	Time delay Type	Setting range	Cat. no. ⁽¹⁾	Weight kg
Front	1 NO / 1 NC	On-delay	1...30 s	LAETSD	0.060

⁽¹⁾ For use only LC1E25 to LC1E630.

Instantaneous and time delay contact characteristics

Contact block type			LAEN11, 20, 02, 22			LAETSD				
Number of contacts				2 or 4			2			
Rated operational voltage (U _e)		Up to	V	690						
Rated insulation voltage (U _i)		Conforming to IEC 60947-5-1		690						
Conventional thermal current (I _{th}) For ambient temperature θ ≤ 60 °C			A	10						
Minimum switching capacity			U min	V	17					
			I min	mA	5					
Short-circuit protection		Conforming to IEC 60947-5-1	A	10						
Rated making capacity		Conforming to IEC 60947-5-1	I _{rms}	~ 140						
Short-time rating		Permissible for 1 s	A	100						
		500 ms		120						
		100 ms		140						
Insulation resistance			mΩ	> 10						
Non-overlap time		Guaranteed between NC and NO contacts	ms	1.5 (on energisation and on de-energisation)						
Overlap time		Guaranteed between LAE N22 N/C and N/O contacts	ms	–						
Time delay		Ambient air temperature for operation	°C	–			-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)		a.c. supply categories AC14/15	V	24	48	115	230	400	440	
		1 million operating cycles	VA	60	120	280	560	960	1050	
		3 million operating cycles		16	32	80	160	280	300	
		10 million operating cycles		4	8	20	4	70	80	

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

3-pole Accessories compatibility

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

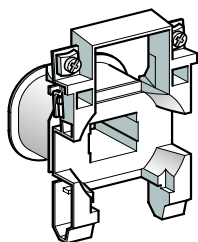
(1) Do It Yourself.

4-pole Accessories compatibility

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

EasyPact TVS 3-poles contactors

Coil replacement for EasyPact TVS, LC1E06 to E38



LAEX12●●

For 3-pole contactors LC1E06...E25

Specifications

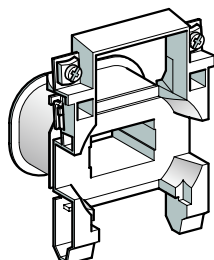
Average consumption at 20 °C:

■ inrush ($\cos \varphi = 0.75$) 50 Hz: 70 VA; 60 Hz: 70 VA

■ sealed ($\cos \varphi = 0.3$) 50 Hz: 7 VA; 60 Hz: 7.5 VA

Operating range ($\theta \leq 55$ °C): 0.85...1.1 Uc.

Control circuit voltage Uc	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



LAEX2●●

For 3-pole contactors LC1E32/E38

Specifications

Average consumption at 20 °C:

■ inrush ($\cos \varphi = 0.75$) 50 Hz: 70 VA; 60 Hz: 70 VA

■ sealed ($\cos \varphi = 0.3$) 50 Hz: 7 VA; 60 Hz: 7.5 VA

Operating range ($\theta \leq 55$ °C): 0.85...1.1 Uc.

Control circuit voltage Uc	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 ($\theta \leq 60$ °C): 0.85...1.1 Uc

Control circuit voltage Uc	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	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

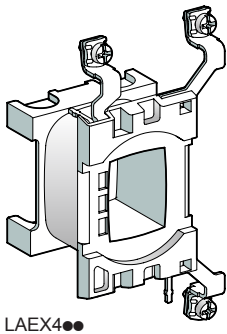
Average consumption at 20 °C:

■ 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 ($\theta \leq 55$ °C): 0.85...1.1 Uc.

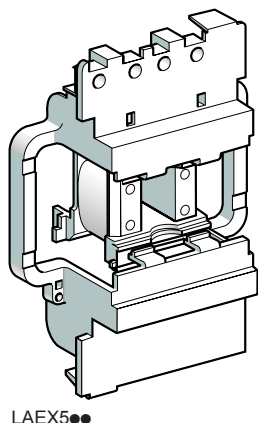
Control circuit voltage Uc	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Cat. no. ⁽¹⁾	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Cat. no. ⁽¹⁾	Average resistance at 20 °C ± 10 %	Inductance of closed circuit	Cat. no. ⁽¹⁾	Weight
V	Ω	H	50 Hz	Ω	H	60 Hz	Ω	H	50/60 Hz	kg
24	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



LAEX4●●

EasyPact TVS 3-poles contactors

Coil replacement for EasyPact TVS, LC1E120 to E160



LAEX5●●

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

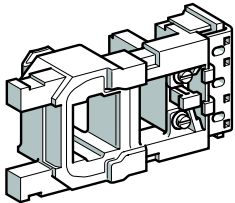
Operating range ($\theta \leq 55$ °C): 0.85...1.1 Uc.

Control circuit voltage Uc	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	kg
24	1.24	0.09	LAEX5B5	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	0.210
220	105	7.65	LAEX5M5	79.6	5.69	LAEX5M6	0.210
240	125	8.89	LAEX5U5	-	-	-	0.210
380	339	22.3	LAEX5Q5	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



LAEX6●●

For 3-pole contactors LC1E200...E250

Specifications

Average consumption at 20 °C:

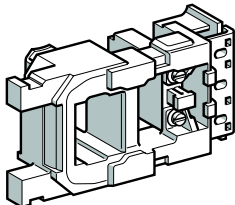
■ inrush ($\cos \varphi = 0.9$) 50 Hz: 805 VA; 60 Hz: 970 VA

■ 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	Ω	H	50 Hz	Ω	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



LAEX7●●

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 ≤ 7 .

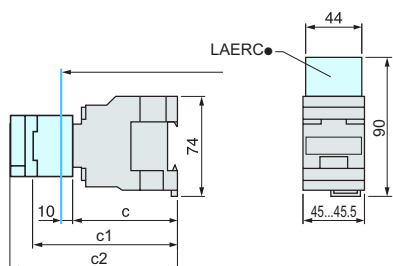
Operating cycles/hour ($\theta \leq 55$ °C): ≤ 2400

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	Ω	H	50 Hz	Ω	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.

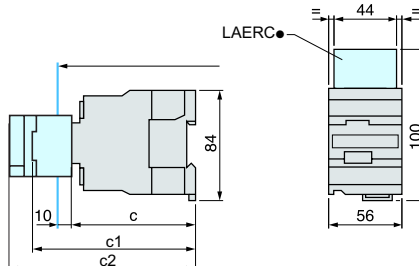
⁽²⁾ Please consult your Regional Sales Office.

LC1E06...E25



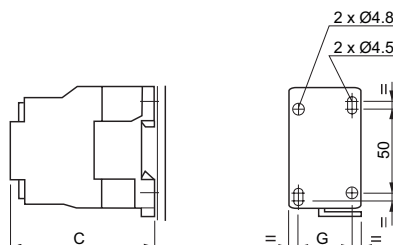
LC1	E06...E18	E25
c	80	85
c1 with LAEN	113	118
c2 with LAETSD	-	136

LC1E32/38



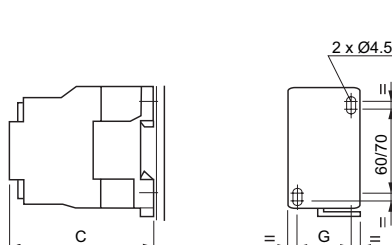
LC1	E32/38
c	86
c1 with LAEN	120
c2 with LAETSD	138

LC1E06...E25



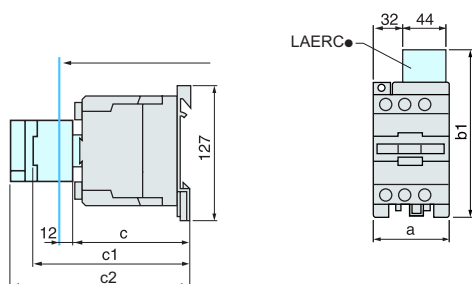
LC1	E06	E09	E12	E18	E25
c	80	80	80	80	85
G	35	35	35	35	35

LC1E32/38



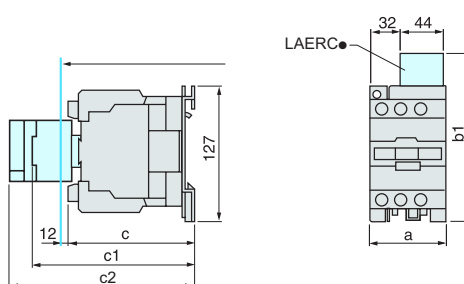
LC1	E32/38
c	86
G	40

LC1E40...E65



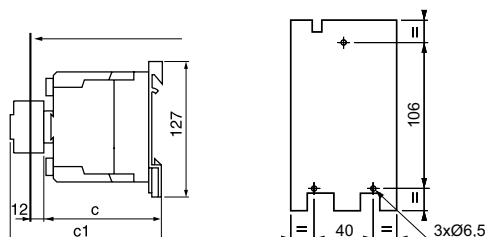
LC1	E40...E65
a	75
b1 with LAERC	135
c	115
c1 with LAEN	147
c2 with LAETSD	165

LC1E80/95



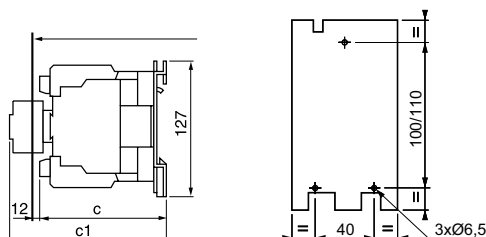
LC1	E80/95
a	85
b1 with LAERC	135
c	124
c1 with LAEN	153
c2 with LAETSD	171

LC1E40...E65



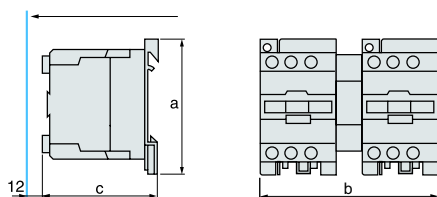
LC1	E40...E65
c	115

LC1E80/95



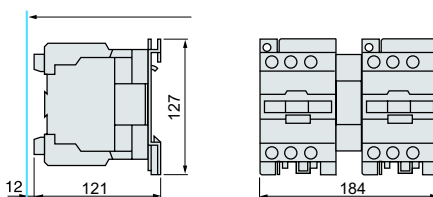
LC1	E80/95
c	124

2 x LC1E06...E65 with LAEM1



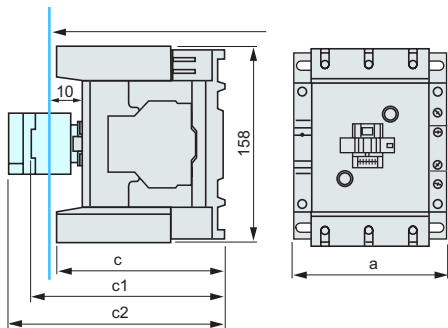
LC1	E06...25	E32...38	E40...65
a	74	84	127
b	104	126	164
c	80	86	114

2 x LC1E80/95 with LAEM4



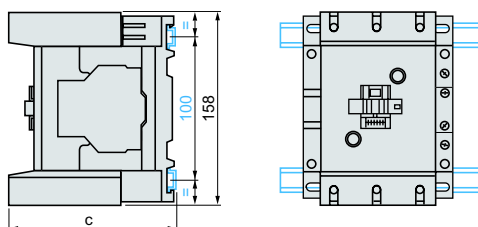
LC1E120/160

On panel with accessories



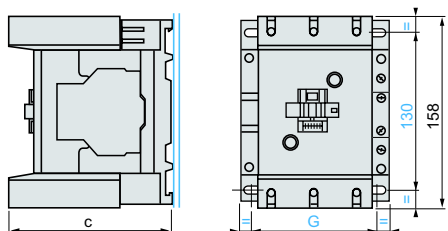
a		120
c	Without add-on blocks	132
c1	With LAEN	150
c2	With LAETSD	168

On 2 mounting rails DZ5 MB on 120 mm centres



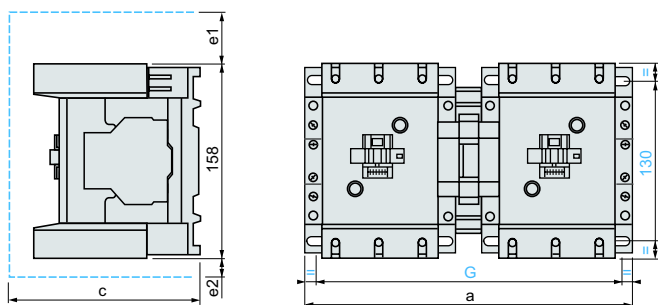
c	(AM1 DP200 or DR200)	134.5
c	(AM1 DE200 or ED●●●)	150

On Panel



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

2 x LC1E120 or LC160 with LAEM5

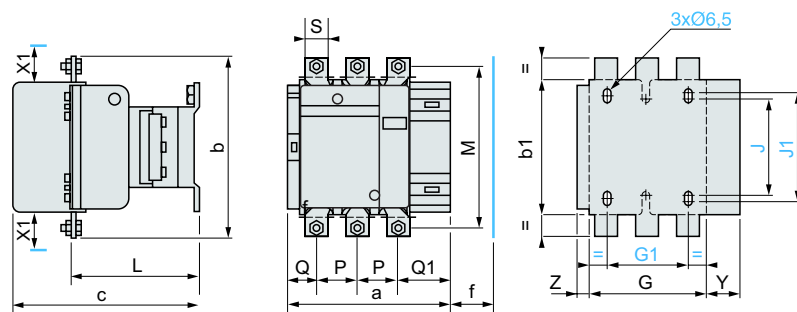


2 x LC1E120 or 160	a	c	e1	e2	G
For 120 and 160	266	148	56	18	242/256

c, e1 and e2: including cabling

LC1E200 - LC1E250 - LC1E300

On panel



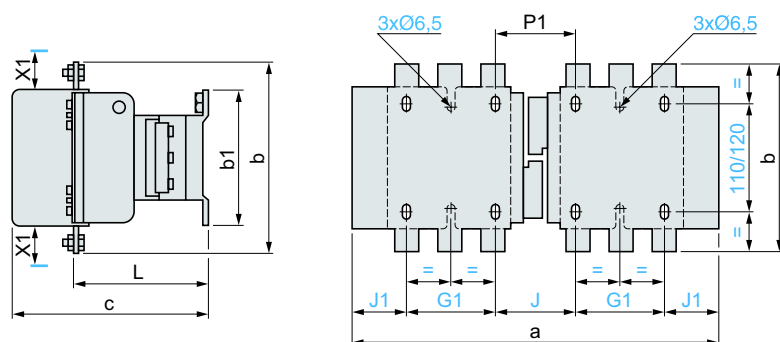
X1 (mm) = minimum electrical clearance according to operating voltage and breaking capacity.

	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



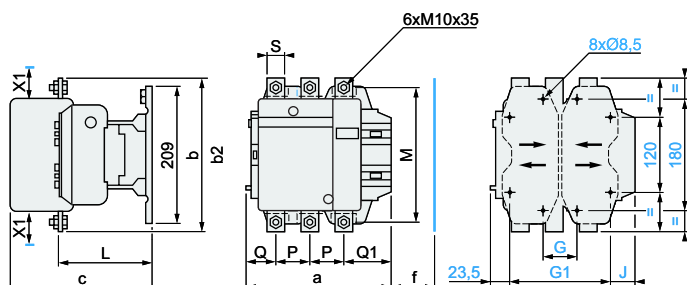
X1 (mm) = minimum electrical clearance according to operating voltage and breaking capacity.

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

	a	b	b1	c	G1	J	J1	L	P1
2 x LC1E200	357	174	137	181	80	78	59.5	113.5	78
2 x LC1E250	357	197	137	181	80	78	59.5	113.5	62
2 x LC1E300	447	206	145	219	96	124	65.5	145	107

LC1E400 - LC1E500

On panel



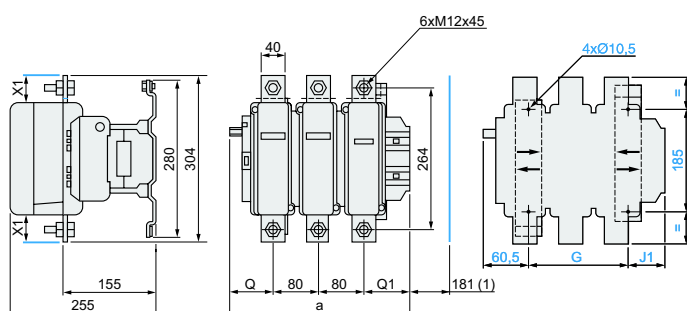
X1 (mm) minimum electrical clearance according to operating voltage and breaking capacity.

	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	19.5	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	Gmax.	J1	Q	Q1
LC1E630	309	180	100	195	68.5	60	89

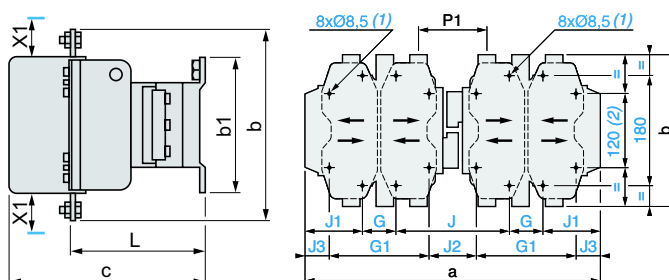
2 x LC1E400,LC1E500,LC1E630

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

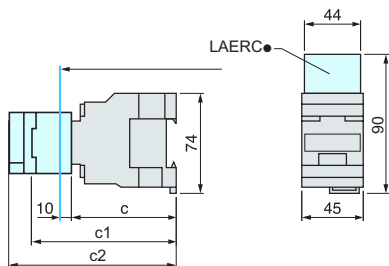
(1) Except LC1 E630 : 4 x Ø 10.5.

(2) Except LC1 E630 : 180mm.



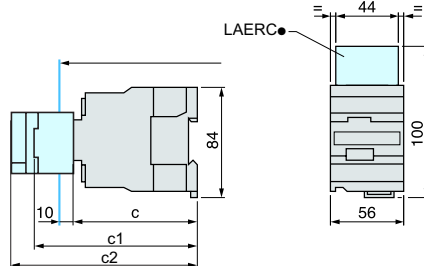
	a	b	b1	c	G	G1	J	J1	J2	J3	L	P1
2 x LC1E400	446	206	209	219	80	170	157	64.5	67	19.5	145	107
3 x LC1E500	485	238	209	232	80	170	156	84.5	66	39.5	146	112
4 x LC1E630	636	304	280	255	180	-	139	68.5	-	-	155	137

LC1E06...E18



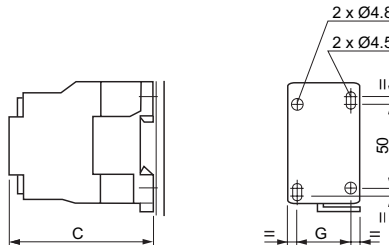
LC1	E06/E18
c	80
c1 with LAEN	113
c2 with LAETSD	135

LC1E25...E38



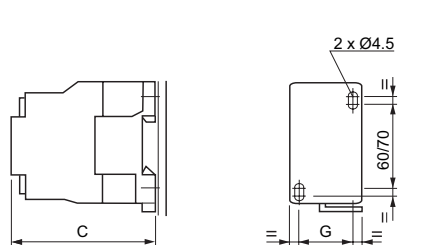
LC1	E25/38
c	93
c1 with LAEN	125
c2 with LAETSD	147

LC1E06...E18



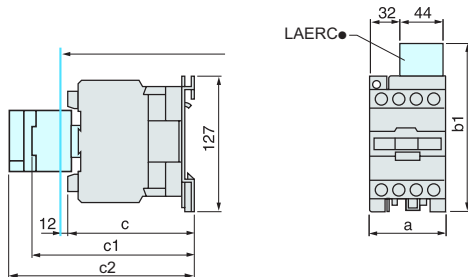
LC1	E06	E09	E12	E18
c	80	80	80	80
G	35	35	35	35

LC1E25...E38



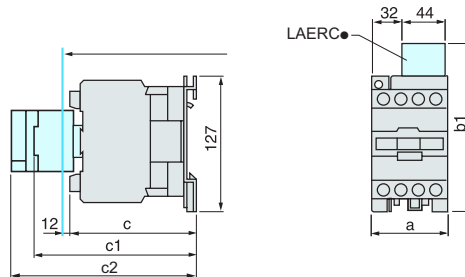
LC1	E25/38
c	93
G	40

LC1E40/65



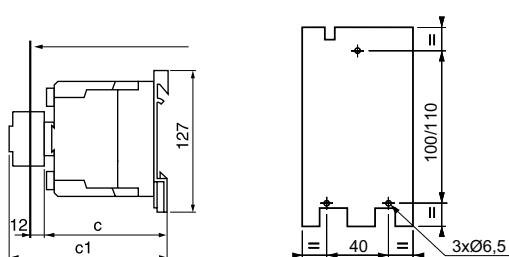
LC1	E40...E65
a	85
b1 with LAERC	135
c	110/125
c1 with LAEN	143
c2 with LAETSD	165

LC1E80/95



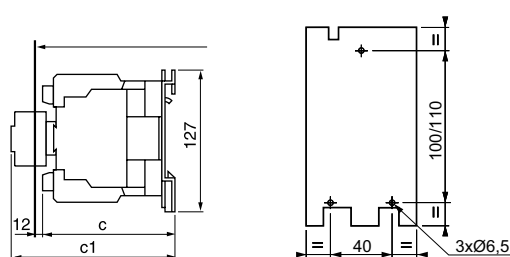
LC1	E80/95
a	95
b1 with LAERC	135
c	120/135
c1 with LAEN	160
c2 with LAETSD	172

LC1E40/65



LC1	E40/E65
c	114

LC1E80/95



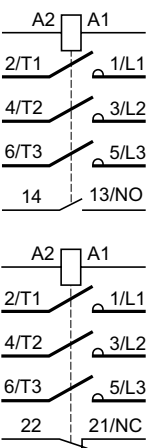
LC1	E80/95
c	121

EasyPact TVS contactors

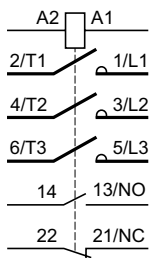
LC1E06...630 A

Contactors (3-pole)

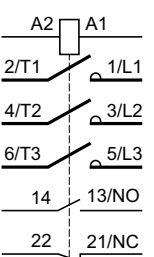
LC1E06...38



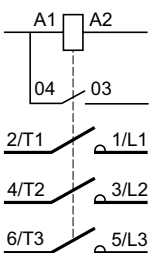
LC1E40...95



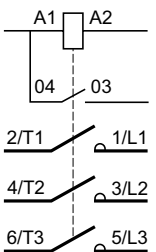
LC1E120/160



LC1E200, 250, 300

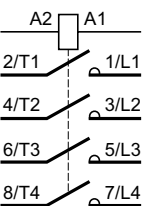


LC1E 400, 500, 630

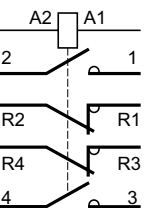


Contactors (4-pole)

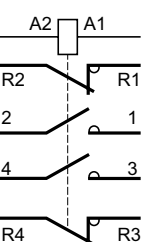
LC1E06...95004



LC1E06...38008



LC1E40...95008

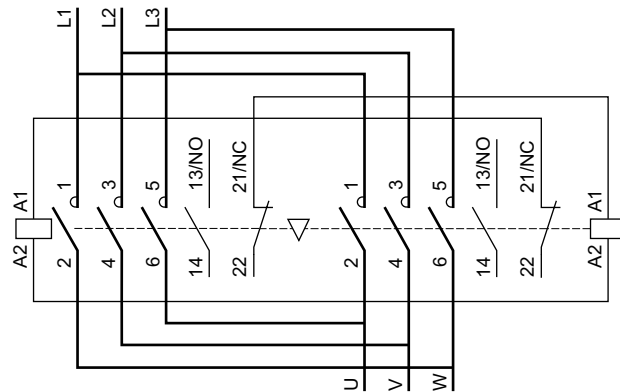
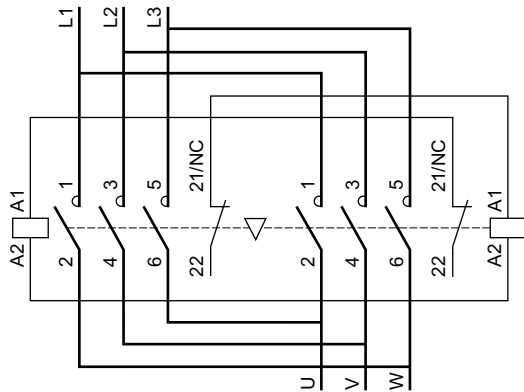


Reversing contactors

2 x LC1E06...38

2 x LC1E40...95

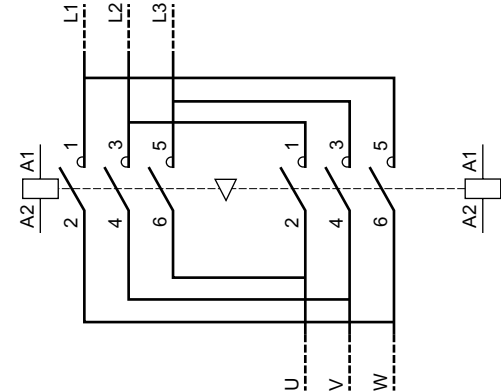
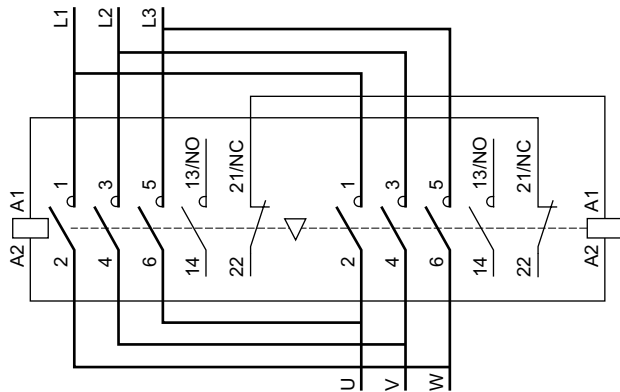
Horizontally mounted



2 x LC1E120, 160

2 x LC1E200, 250, 300

Horizontally mounted

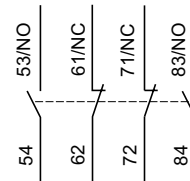
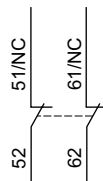
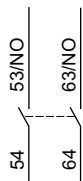
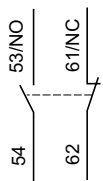


Front mounting add-on contact blocks

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

2NC (LAEN02)

2NO + 2NC (LAEN22)



Time delay auxiliary contacts

On delay 1NO + 1NC (LAETSD)



Mechanical interlock

LAEM●

