

TeSys™ K-line Mini-Contactors and Starters

Selection of Contactors for Motor Control

General-Purpose Contactors for AC Control Circuits

The table below shows general-purpose contactors. The contactors mount on 35 mm DIN rails or with 4 mm (# 6) screws. The wire termination screws are in the open, “ready-to-tighten” position.

Horsepower Ratings for North American Applications							Kilowatt Ratings for International Applications				Type of Connection	Auxiliary Contacts		Catalog Number ▼ ▲	Weight lb. (kg)
Maximum Horsepower Rating Category AC-3, 50/60 Hz						Max. Inductive Current	Standard power ratings of 3-phase motors, 50/60 Hz in category AC-3			Rated operational current, up to 440 V		N.O.	N.C.		
1-Phase		3-Phase					220 V 230 V	380 V 415 V	440/500 V 660/690 V						
115/ 120 V	230/ 240 V	200/ 208 V	220/ 240 V	460/ 480 V	575/ 600 V	A	kW	kW	kW	A					
0.5	1	1.5	1.5	3	3	6	1.5	2.2	3	6	Screw clamp	1	–	LC1K0610••	0.40 (0.180)
											–	1	LC1K0601••	0.40 (0.180)	
											Slip-on 1 x 0.25 in., or 2 x 0.11 in.	1	–	LC1K06107••	0.40 (0.180)
											–	1	LC1K06017••	0.40 (0.180)	
											Solder pins for printed circuit board	1	–	LC1K06105••	0.46 (0.210)
–	1	LC1K06015••	0.46 (0.210)												
Spring terminals	1	–	LC1K06103••	0.40 (0.180)											
–	1	LC1K06013••	0.40 (0.180)												
0.5	1.5	2	3	5	5	9	2.2	4	4	9	Screw clamp	1	–	LC1K0910••	0.40 (0.180)
											–	1	LC1K0901••	0.40 (0.180)	
											Slip-on 1 x 0.25 in., or 2 x 0.11 in.	1	–	LC1K09107••	0.40 (0.180)
											–	1	LC1K09017••	0.40 (0.180)	
											Solder pins for printed circuit board	1	–	LC1K09105••	0.46 (0.210)
–	1	LC1K09015••	0.46 (0.210)												
Spring terminals	1	–	LC1K09103••	0.40 (0.180)											
–	1	LC1K09013••	0.40 (0.180)												
0.5	1.5	3	3	7.5	10	12	3	5.5	4 (> 440) 5.5 (440)	12	Screw clamp	1	–	LC1K1210••	0.40 (0.180)
											–	1	LC1K1201••	0.40 (0.180)	
											Slip-on 1 x 0.25 in., or 2 x 0.11 in.	1	–	LC1K12107••	0.40 (0.180)
											–	1	LC1K12017••	0.40 (0.180)	
											Solder pins for printed circuit board	1	–	LC1K12105••	0.46 (0.210)
–	1	LC1K12015••	0.46 (0.210)												
Spring terminals	1	–	LC1K12103••	0.40 (0.180)											
–	1	LC1K12013••	0.40 (0.180)												
Not for North American applications — not UL Listed or CSA Certified							3	7.5	4 (440) 5.5 (440)	16	Screw clamp	1	–	LC1K1610••	0.40 (0.180)
											–	1	LC1K1601••	0.40 (0.180)	
											Slip-on 1 x 0.25 in., or 2 x 0.11 in.	1	–	LC1K16107••	0.40 (0.180)
											–	1	LC1K16017••	0.40 (0.180)	
											Solder pins for printed circuit board	1	–	LC1K16105••	0.46 (0.210)
–	1	LC1K16015••	0.46 (0.210)												
Spring terminals	1	–	LC1K16103••	0.40 (0.180)											
–	1	LC1K16013••	0.40 (0.180)												

▼ Use voltage codes on page 52 “Voltage Code Table” to complete catalog number.

▲ For mains supplies with a high level of interference (voltage surge > 800 V), use a suppressor module LA4KE1FC (50 to 129 V) or LA4KE1UG (130 to 250 V), see page 56.

LC1K0610••



LC1K06107••

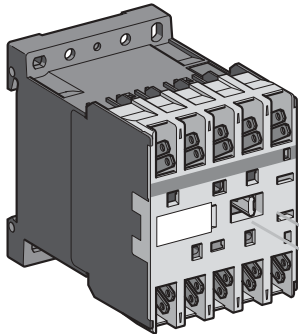


LC1K09103••

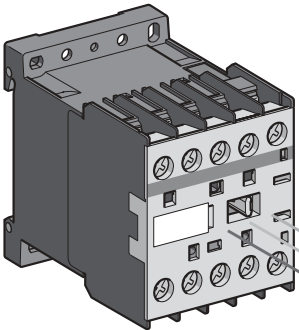


TeSys™ K-line Mini-Contactors and Starters

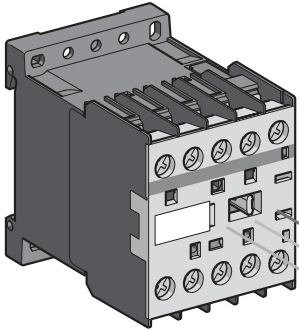
Selection of Auxiliary Contacts and Timers



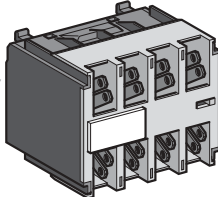
LC1/LC7/LP1K



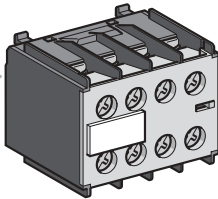
LC1/LC7/LP1K



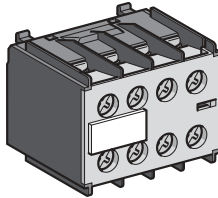
LC1/LC7/LP1K



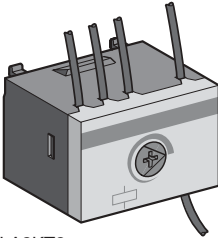
LA1KN●●●



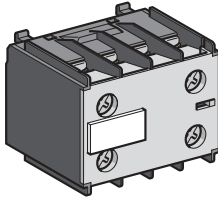
LA1KN●●M



LA1KN●●



LA2KT2●



LA1 KN●●P

TeSys™ K-line Mini-Contactors and Starters

Selection of Auxiliary Contacts and Timers

Instantaneous Auxiliary Contact Blocks for Type LC•K and LP•K Contactors

Recommended for standard applications. Clip-on front mounting, 1 block per contactor

Type of Connection	Type of Contactor	Auxiliary Contacts		Catalog Number	Weight lb. (kg)
		N.O.	N.C.		
Screw Clamp	LC1, LC2 LC7, LC8 LP1, LP2 3- or 4-pole	2	–	LA1KN20	0.10 (0.045)
		–	2	LA1KN02	0.10 (0.045)
		1	1	LA1KN11	0.10 (0.045)
		4	–	LA1KN40	0.10 (0.045)
		3	1	LA1KN31	0.10 (0.045)
		2	2	LA1KN22	0.10 (0.045)
		1	3	LA1KN13	0.10 (0.045)
		–	4	LA1KN04	0.10 (0.045)
Slip-on 1 x 0.25 in. or 2 x 0.11 in.	LC1, LC2 LC7, LC8 LP1, LP2 3- or 4-pole	2	–	LA1KN207	0.10 (0.045)
		–	2	LA1KN027	0.10 (0.045)
		1	1	LA1KN117	0.10 (0.045)
		4	–	LA1KN407	0.10 (0.045)
		3	1	LA1KN317	0.10 (0.045)
		2	2	LA1KN227	0.10 (0.045)
		1	3	LA1KN137	0.10 (0.045)
		–	4	LA1KN047	0.10 (0.045)
Spring Terminals	LC1, LC2 LP1, LP2 3- or 4-pole	2	–	LA1KN203	0.10 (0.045)
		–	2	LA1KN023	0.10 (0.045)
		1	1	LA1KN113	0.10 (0.045)
		4	–	LA1KN403	0.10 (0.045)
		3	1	LA1KN313	0.10 (0.045)
		2	2	LA1KN223	0.10 (0.045)
		1	3	LA1KN133	0.10 (0.045)
		–	4	LA1KN043	0.10 (0.045)
With terminal referencing conforming to standard EN 50012. Clip-on front mounting, 1 block per contactor					
Screw clamp with terminal referencing conforming to standard EN 50012 ▲	LC1, LC2 LC7, LC8 LP1, LP2 3-pole + N.O.	–	2	LA1KN02M	0.10 (0.045)
		1	1	LA1KN11M	0.10 (0.045)
		3	1	LA1KN31M	0.10 (0.045)
		2	2	LA1KN22M	0.10 (0.045)
	LC1, LC2 LC7, LC8 LP1, LP2 4-pole	1	3	LA1KN13M	0.10 (0.045)
		1	1	LA1KN11P	0.10 (0.045)
		2	2	LA1KN22P	0.10 (0.045)

Electronic Time-Delay Auxiliary Contact Blocks for Type LC•K and LP•K Contactors

- Relay output, with common point changeover contact, AC or DC 240 Vac, 2 A maximum.
- Control voltage: 0.85 to 1.1 Vc.
- Maximum switching capacity: 250 VA or 150 W.
- Operating temperature: -10 to +60 °C (14 to 140 °F).
- Reset time: 1.5 s during the time delay period, 0.5 s after the time delay period.

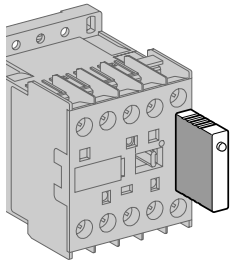
Clip-on front mounting, 1 block per contactor

Voltage	Type	Timing Range s	Auxiliary Contacts	Catalog Number	Weight lb. (kg)
			SPDT		
V					
AC or DC 24 to 48	On-delay	1 to 30	1	LA2KT2E	0.09 (0.040)
AC 110 to 240	On-delay	1 to 30	1	LA2KT2U	0.09 (0.040)

TeSys™ K-line Mini-Contactors and Starters

Selection of Accessories

Coil Suppressor Modules With an LED Indicator for Type LC•K and LP•K Contactors

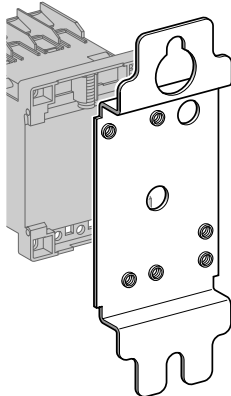


LA4K••

Mounting and connection	Type	For voltages:	Sold in lots of	Catalog Number	Weight lb. (kg)
Clip-on mounting on the front of LC1 and LP1 contactors. No tools required.	Varistor ■	AC and DC 12 to 24 V	5	LA4KE1B	0.02 (0.010)
		AC and DC 32 to 48 V	5	LA4KE1E	0.02 (0.010)
		AC and DC 50 to 129 V	5	LA4KE1FC	0.02 (0.010)
		AC and DC 201 to 250 V	5	LA4KE1UG	0.02 (0.010)
	Diode + Zener diode ◆	DC 12 to 24 V	5	LA4KC1B	0.02 (0.010)
		DC 32 to 48 V	5	LA4KC1E	0.02 (0.010)
	RC ▲	AC 220 to 250 V	5	LA4KA1U	0.02 (0.010)

- Protection by limitation of the transient voltage up to 2 Vc maximum. Maximum reduction of transient voltage peaks. Slight time delay on drop-out (1.1 to 1.5 times the normal time).
- ◆ No overvoltage or oscillation frequency. Polarized component. Slight time delay on drop-out (1.1 to 1.5 times the normal time).
- ▲ Protection by limitation of the transient voltage up to 3 Vc maximum and limitation of the oscillation frequency. Slight time delay on drop-out (1.2 to 2 times the normal time).

Mounting and Marking Accessories

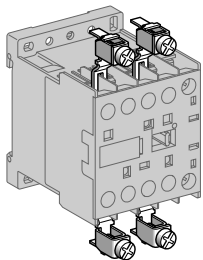


DX1AP25

Description	Application		Sold in lots of	Unit Catalog Number	Weight lb. (kg)
Mounting plates ■	For mounting on 1 ' rail	Clip-on	1	LA9D973	0.05 (0.025)
	For mounting on 2 ' rails	110/120 mm mounting centers	10	DX1AP25	0.14 (0.065)
Marker holder	Clip-on	Onto front of contactor	100	LA9D90	0.002 (0.001)
Clip-in markers	4 maximum per contactor	Strips of 10 identical numbers 0 to 9	25	AB1R• ▲	0.004 (0.002)
		Strips of 10 identical capital letters A to Z	25	AB1G• ▲	0.004 (0.002)
35mm " DIN rail (7.5mm deep x 2m long)			10	AM1DP200	2.88 (1.310)
35mm " DIN rail (15mm deep x 2m long)			10	AM1ED200	1.44 (0.650)

- Order 1 mounting plate for a contactor and 2 mounting plates for a reversing contactor.
- ▲ Complete the catalog number by replacing the • with the required number or character.

Cabling Accessories



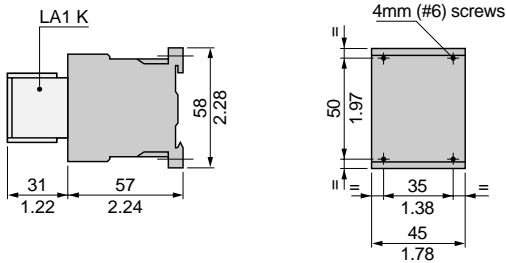
LA9E01

Description	Application		Sold in lots of	Unit Catalog Number	Weight kg (lb.)
Paralleling links	For 2-poles	With screw clamp terminals	4	LA9E01	0.02 (0.010)
	For 4-poles	With screw clamp terminals	2	LA9E02	0.03 (0.015)
Power connections: 6 required per contactor	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	LA9K0969	0.02 (0.010)
Power connections: 4 required per contactor	For 4-pole changeover contactor pairs	For contactors with screw clamp terminals	100	LA9K0970	0.02 (0.010)

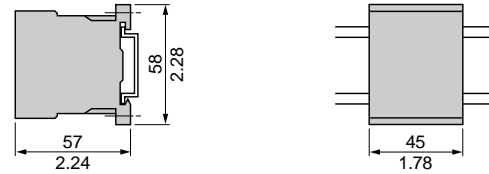
TeSys™ K-line Mini-Contactors and Starters

Dimensions and Mounting of Type LC•K and LP•K Contactors

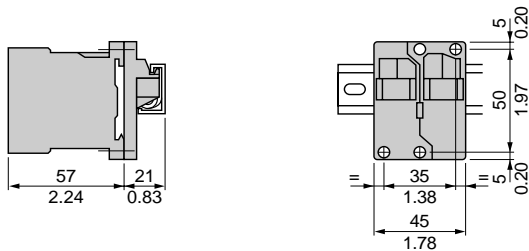
Contactors
LC1K, LC7K, LP1K
 On panel



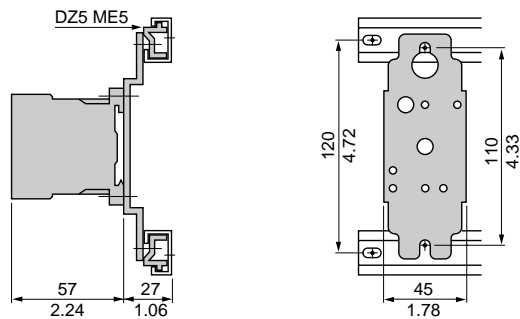
On mounting rail **AM1DP200** or **AM1DE200** 1.4 in. (35 mm) DIN rail



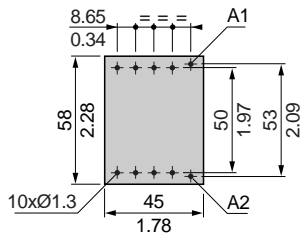
On one asymmetrical rail **DZ5MB** with clip-on mounting plate
LA9D973



DX1AP25



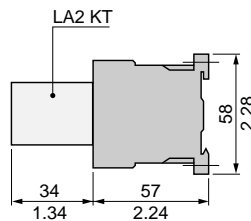
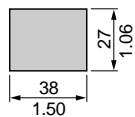
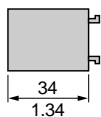
On printed circuit board



Electronic time-delay auxiliary contact blocks

LA2KT

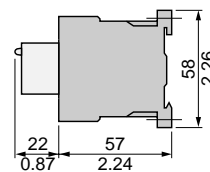
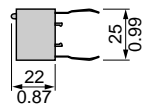
On contactor



Suppressor modules

LA4K•

On contactor

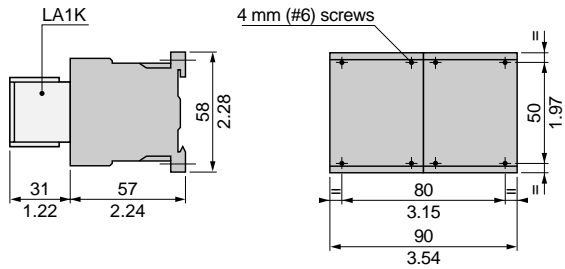


Dimensions Inches
mm

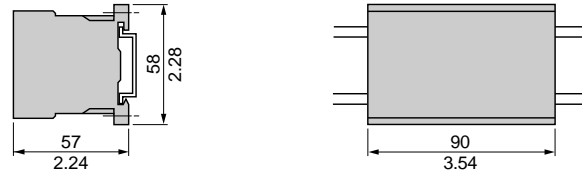
TeSys™ K-line Mini-Contactors and Starters

Dimensions and Mounting of Type LC•K and LP•K Reversing Contactors

Reversing contactors LC2K, LC8K, LP2K
On panel



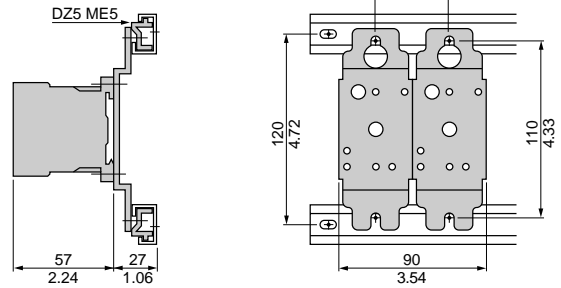
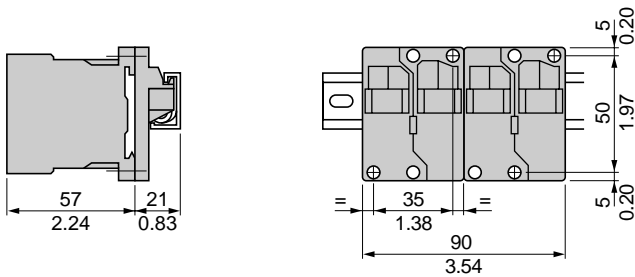
On mounting rail **AM1DP200** or **AM1DE200** 1.4 (35 mm) DIN rail



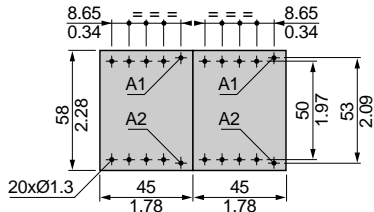
On one asymmetrical rail **DZ5MB** with 2 clip-on mounting plates **LA9D973** or on 2 mounting plates **DX1AP25**.

2 x **LA9D973**

2 x **DX1AP25**



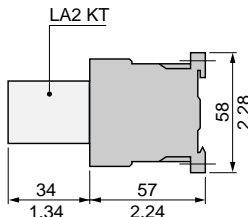
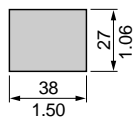
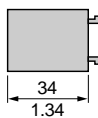
On printed circuit board for reversing contactors or 2 contactors mounted side by side



Electronic time delay auxiliary contact blocks

LA2KT

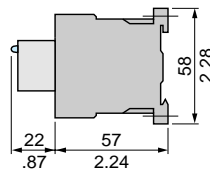
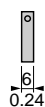
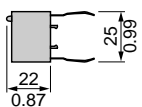
On reversing contactors



Suppressor modules

LA4K•

On reversing contactors

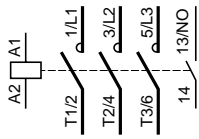


Dimensions inches
mm

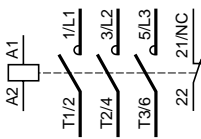
Type LC•K and LP•K Contactors and Accessories

3-pole contactors LC1K, LC7K, LP1K

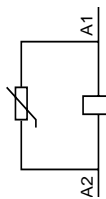
3-pole + N.O.



3-pole + N.C.

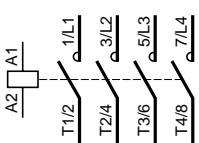


Integrated-coil suppression device LC7K

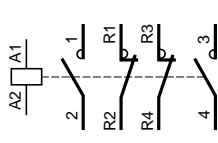


4-pole contactors LC1K, LC7K, LP1K

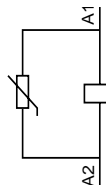
4-pole



2-pole N.O. + 2-pole N.C.

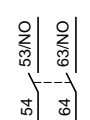


Integrated-coil suppression device LC7K

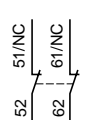


Instantaneous auxiliary contacts LA1K For contactors LC•K and LP•K

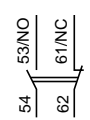
2 N.O.
LA1KN20
LA1KN207



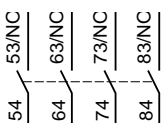
2 N.C.
LA1KN02
LA1KN027



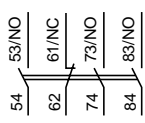
1 N.O. + 1 N.C.
LA1KN11
LA1KN117



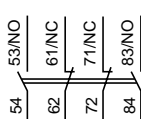
4 N.O.
LA1KN40
LA1KN407



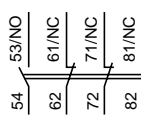
3 N.O. + 1 N.C.
LA1KN31
LA1KN317



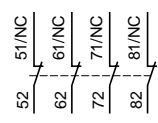
2 N.O. + 2 N.C.
LA1KN22
LA1KN227



1 N.O. + 3 N.C.
LA1KN13
LA1KN137

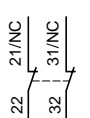


4 N.C.
LA1KN04
LA1KN047

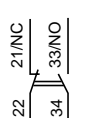


Terminal referencing conforming to standard EN 50012 For 3-pole contactors

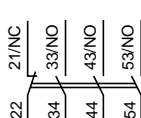
2 N.C.
LA1KN02M



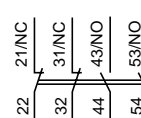
1 N.O. + 1 N.C.
LA1KN11M



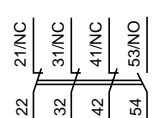
3 N.O. + 1 N.C.
LA1KN31M



2 N.O. + 2 N.C.
LA1KN22M

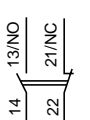


1 N.O. + 3 N.C.
LA1KN13M

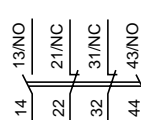


For 4-pole contactors

1 N.O. + 1 N.C.
LA1KN11P

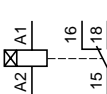


2 N.O. + 2 N.C.
LA1KN22P

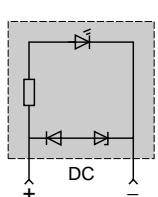


Electronic time delay auxiliary contact blocks LA2KT

For contactors LC•K and LP•K
1 C/O



Suppressor modules LA4KC



LA4KE

