

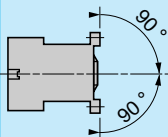
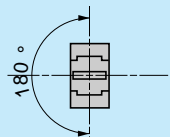
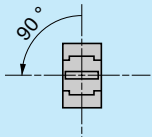
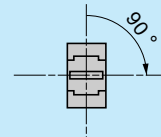
Contactors and protection relays

K low consumption contactors and reversing contactors, 6 and 9 A

Selection guide :
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Dimensions, mounting :
pages 2/52 and 2/53
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Characteristics

Environment

Rated insulation voltage (Ui)	Conforming to IEC/EN 60947-4-1	V	690	
	Conforming to VDE 0110 gr C	V	750	
	Conforming to NF C 20-040	V	690	
	Conforming to CSA 22-2 n° 14, UL 508	V	600	
Rated impulse withstand voltage (Uimp)		kV	8	
Conforming to standards			IEC/EN 60947-4-1, NF C 63-110, VDE 0660	
Approvals	Pending		UL, CSA, DEMKO, NEMKO, SEMKO, FI	
Protective treatment	Conforming to IEC 68 (DIN 50016)		“TC” (Kimafest, Cimateproof)	
Degree of protection	Conforming to VDE 0106		Protection against direct finger contact	
Ambient air temperature around the device	Storage	°C	- 50...+ 80	
	Operation	°C	- 25...+ 50	
Maximum operating altitude	Without derating	m	2000	
Operating positions	<div><div><div>Vertical axis</div><div></div><div>Without derating</div></div><div><div>Horizontal axis</div><div></div><div>Without derating</div></div><div><div></div><div>(1)</div></div><div><div></div><div>(1)</div></div></div>			
Flame resistance	Conforming to UL 94		Self-extinguishing materials V1	
	Conforming to NF F 16-101 and 16-102		Conforming to requirement 2	
Shock resistance (1/2 sine wave, 11 ms)	Contacteur open		10 g	
	Contacteur closed		15 g	
Vibration resistance 5...300 Hz	Contacteur open		2 g	
	Contacteur closed		4 g	
Safe separation of circuits	Conforming to VDE 0106 and IEC 536		TBTS (2), up to 400 V	
Cabling Screw clamp terminals	Solid cable	mm ²	<div>Min1 x 1.5</div> <div>Max2 x 4</div> <div>Max to IEC 9471 x 4 + 1 x 2.5</div>	
	Flexible cable without cable end	mm ²	<div>1 x 0.75</div> <div>2 x 4</div> <div>2 x 2.5</div>	
	Flexible cable with cable end	mm ²	<div>1 x 0.34</div> <div>1 x 1.5 + 1 x 2.5</div> <div>1 x 1.5 + 1 x 2.5</div>	
	Faston connectors	Clip	mm	2 x 2.8 or 1 x 6.35
	Solder pins for printed circuit board	With locating device between power circuit and control circuit		4 mm x 35 microns
Tightening torque	Philips head n° 2 and Ø 6	N.m	0.8	
Terminal referencing	Conforming to standards EN 50005 and EN 50012		Up to 3 contacts	

(1) Contactor energising voltage at 0.85 Uc.

(2) Very low safety voltage.

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Characteristics (continued)

Pole characteristics

Conventional rated thermal current (I_{th})	For ambient temperature ≤ 50 °C	A	20
Rated operational frequency		Hz	50/60
Frequency limits of the operational current		Hz	Up to 400
Rated operational voltage (U_e)		V	690
Rated making capacity	I _{rms} conforming to NF C 63-110 and IEC/EN 60947-4-1	A	110
Rated breaking capacity	Conforming to NF C 63-110 and IEC/EN 60947-4-1	V	220/230 380/400 415 440 500 660/690
		A	110 110 110 110 80 70
Permissible short time rating	Open mounted, for a time "t" from cold state (θ ≤ 50 °C)		1 s 5 s 10 s 30 s 1 min 3 min ≥15 min
		A	90 85 80 60 45 40 20
Short-circuit protection	gG fuse U ≤ 440 V, aM fuse	A	See page 2/40
Average impedance per pole	At I _{th} and 50 Hz	mΩ	3
Utilisation in category AC-1 resistive circuits, heating, lighting (U _e ≤ 440 V) (see curve, page 1/10)	Maximum rated operational current for a temperature ≤ 50 °C	A	20
	Rated operational current limits in relation to on-load factor and operating frequency	A	On-load factor 90% 60 % 30 %
			300 op. cycles/hour 13 15 18
			120 op. cycles/hour 15 18 19
			30 op. cycles/hour 19 20 20
	Increase in operational current by paralleling poles		Apply the following coefficients to the current values given above. These take into account the often unbalanced current distribution between poles
			2 poles in parallel : K = 1.60
			3 poles in parallel : K = 2.25
			4 poles in parallel : K = 2.80
Utilisation in category AC-3 Squirrel cage motors (see curve page 1/14)	Operational power according to the voltage	V	115 220 220/240 380/415 440/480 500/600 660/690
			1-ph 1-ph 3-ph 3-ph 3-ph 3-ph 3-ph
	LC●-K06, LP●-K06	kW	0.37 0.75 1.5 2.2 3 3 3
	LC●-K09, LP●-K09	kW	0.55 1.1 2.2 4 4 4 4
	% utilisation of operational power in relation to the maximum operating rate		Op. cycles/h 600 900 1200
			Power 100% 75% 50 %

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Characteristics (continued)

Control circuit characteristics

Type			LP4	LP5
Rated control circuit voltage (Uc)		V	= 12...72	
Control voltage limits (≤ 50 °C) single-voltage coil	For operation		0.7...1.30 Uc	
	For drop-out		≥ 0.10 Uc	
Average consumption at 20 °C and at Uc	Inrush	W	1.8	
	Sealed	W	1.8	
Heat dissipation		W	1.8	
Operating time at 20 °C and at Uc	Between coil energisation and : - opening of the N/C contacts - closing of the N/O contacts	ms ms	25...35 30...40	
	Between coil de-energisation and : - opening of the N/O contacts - closing of the N/C contacts	ms ms	10...20 15...25	
Maximum immunity to microbreaks		ms	2	
Maximum operating rate	In operating cycles per hour		3600	
Mechanical durability at Uc In millions of operating cycles	Wide range = coil		30	5

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Characteristics

Auxiliary contact characteristics of contactors and instantaneous contact blocks

Number of contacts	On LP4, LP5-K		1
	On LA1-K		2 or 4
Rated operational voltage (Ue)	Up to	V	690
Rated insulation voltage (Ui)	Conforming to IEC/EN 60947-5-1	V	690
	Conforming to VDE 0110 group C	V	750
	Conforming to CSA C 22-2 n° 14	V	600
Conventional rated thermal current (Ith)	For ambient temperature ≤ 50 °C	A	10
Frequency of operational current		Hz	Up to 400
Minimum switching capacity	U min (DIN 19 240)	V	17 (2 < 10 ⁻³)
	I min	mA	5
Short-circuit protection	Conforming to IEC/EN 60947-5-1 and VDE 0660, gG fuse	A	10
Rated making capacity	Conforming to IEC/EN 60947-5-1	I rms	A 110
Overload current	Permissible for	1 s	A 80
		500 ms	A 90
		100 ms	A 110
Insulation resistance		MΩ	> 10
Non-overlap distance	Linked contacts conforming to INRS and BIA specs.	mm	0.5

Operational power of contacts
conforming to IEC 947

a.c. supply, category AC-15

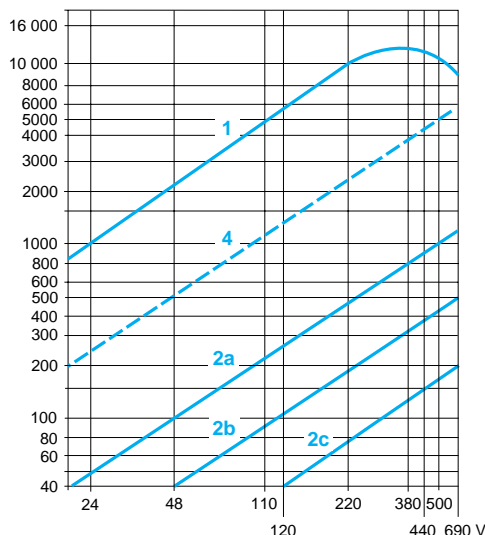
Electrical durability (valid up to 3600 operating cycles per hour) on an inductive load such as the coil of an electromagnet : making current ($\cos \phi 0.7$) = 10 times the breaking current ($\cos \phi 0.4$).

V	24	48	110/ 127	220/ 230	380/ 400	440	600/ 690
VA	48	96	240	440	800	880	1200
VA	17	34	86	158	288	317	500
VA	7	14	36	66	120	132	200
VA	1000	2050	5000	10 000	14 000	13 000	9000

1 million operating cycles
3 million operating cycles
10 million operating cycles
Occasional making capacity

- Breaking limit of contacts valid for :
- maximum of 50 operating cycles at 10 s intervals
(breaking current = making current x $\cos \phi 0.7$).
- Electrical durability of contacts for :
- 1 million operating cycles (2a)
- 3 million operating cycles (2b)
- 10 million operating cycles (2c).
- Breaking limit of contacts valid for :
- maximum of 20 operating cycles at 10 s intervals with current passing for 0.5 s per operating cycle.
- Thermal limit.

Power broken in VA

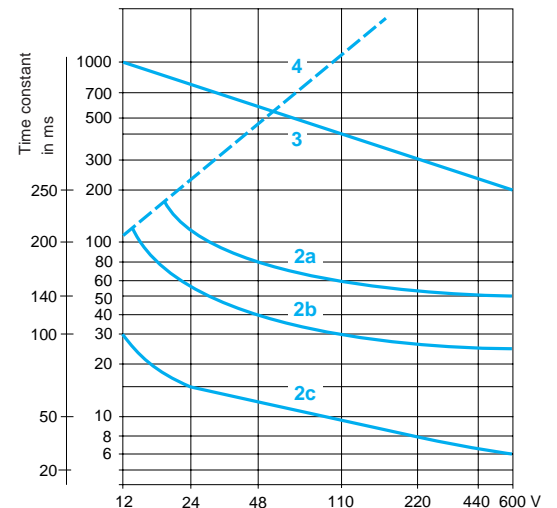


d.c. supply, category DC-13

Electrical durability (valid up to 1200 operating cycles per hour) on an inductive load such as the coil of an electro-magnet, without economy resistor, the time constant increasing with the load.

V	24	48	110	220	440	600
W	120	80	60	52	51	50
W	55	38	30	28	26	25
W	15	11	9	8	7	6
W	720	600	400	300	230	200

Power broken in W



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K 3-pole low consumption contactors, 6 and 9 A
 for motor control
 Control circuit : d.c.

References

Contactors (1)

- Compatible with programmable controller outputs.
- LED indicator incorporated.
- Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.5 W.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.



LP4-K06105●●●

Motor control in category AC-3				Type of connection	Number of auxiliary contacts	Basic ordering reference. Complete with code indicating control circuit voltage (2)	Weight	
Maximum opera- tional current	Standard power ratings of 3-phase motors							
440 V	220 V	380 V	440/500 V					230 V
A	kW	kW	kW		N/O	N/C	kg	
6	1.5	2.2	3	Screw clamp	1	–	LP4-K0610●●●	0.235
					–	1	LP4-K0601●●●	0.235
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP4-K06107●●●	0.235
					–	1	LP4-K06017●●●	0.235
				Solder pins for for printed circuit board	1	–	LP4-K06105●●●	0.265
					–	1	LP4-K06015●●●	0.265
9	2.2	4	4	Screw clamp	1	–	LP4-K0910●●●	0.235
					–	1	LP4-K0901●●●	0.235
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP4-K09107●●●	0.235
					–	1	LP4-K09017●●●	0.235
				Solder pins for printed circuit board	1	–	LP4-K09105●●●	0.265
					–	1	LP4-K09015●●●	0.265

(1) Add-on auxiliary contact blocks and accessories, see pages 2/50 and 2/51.

(2) Standard control circuit voltages (for other voltages, please consult your local Customer support centre).

Volts	12	24	48	72
Code	JW3	BW3	EW3	SW3

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K 3 and 4-pole low consumption contactors
for control in utilisation category AC-1
Control circuit : d.c.

References

Contactors (1)



LP4-K090047●●●

- Compatible with programmable controller outputs.
- LED indicator incorporated as standard.
- Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.5 W.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

Non inductive loads Cat. AC-1 $\theta \leq 50\text{ }^{\circ}\text{C}$ Maximum current	Type of connection	Number of poles		Instantaneous auxiliary contacts		Basic ordering reference, complete with code indicating control circuit voltage (2)	Weight
A				N/O	N/C		kg
20	Screw clamp	3	—	1	—	LP4-K0910●●●	0.235
		3	—	—	1	LP4-K0901●●●	0.235
		4	—	—	—	LP4-K09004●●●	0.235
		2	2	—	—	LP4-K09008●●●	0.235
	Faston 1 x 6.35 or 2 x 2.8	3	—	1	—	LP4-K09107●●●	0.235
		3	—	—	1	LP4-K09017●●●	0.235
		4	—	—	—	LP4-K090047●●●	0.235
		2	2	—	—	LP4-K090087●●●	0.235
	Solder pins for printed circuit board	3	—	1	—	LP4-K09105●●●	0.265
		3	—	—	1	LP4-K09015●●●	0.265
		4	—	—	—	LP4-K090045●●●	0.265
		2	2	—	—	LP4-K090085●●●	0.265

(1) Add-on auxiliary contact blocks and accessories, see pages 2/50 and 2/51.

(2) Standard control circuit voltages (for other voltages, please consult your local Customer support centre).

Volts ---	12	24	48	72
Code	JW3	BW3	EW3	SW3

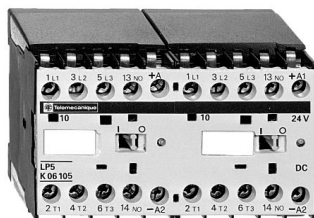
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K 3-pole low consumption reversing contactors, 6 and 9 A
for motor control
Control circuit : d.c.

References

Reversing contactors (1)



LP5-K06105●●●

- Compatible with programmable controller outputs.
- LED indicator incorporated.
- Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.5 W.
- Mechanical interlock incorporated.

It is essential to link the contacts of the electrical interlock.

- Pre-wired power circuit connections as standard on screw clamp versions.
- Mounting on 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

Motor control in category AC-3				Type of connection	Number of auxiliary contacts	Basic ordering reference. Complete with code indicating control circuit voltage (2)	Weight	
Maximum operational current	Standard power ratings of 3-phase motors							
440 V	220 V 230 V	380 V 415 V	440/500 V 660/690 V					
A	kW	kW	kW		N/O	N/C	kg	
6	1.5	2.2	3	Screw clamp	1	–	LP5-K0610●●●	0.490
					–	1	LP5-K0601●●●	0.490
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP5-K06107●●●	0.470
					–	1	LP5-K06017●●●	0.470
				Solder pins for printed circuit board	1	–	LP5-K06105●●●	0.530
					–	1	LP5-K06015●●●	0.530
9	2.2	4	4	Screw clamp	1	–	LP5-K0910●●●	0.490
					–	1	LP5-K0901●●●	0.490
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP5-K09107●●●	0.470
					–	1	LP5-K09017●●●	0.470
				Solder pins for printed circuit board	1	–	LP5-K09105●●●	0.530
					–	1	LP5-K09015●●●	0.530

(1) Add-on auxiliary contact blocks and accessories, see pages 2/50 and 2/51.

(2) Standard control circuit voltages (for other voltages, please consult your local Customer support centre).

Volts	12	24	48	72
Code	JW3	BW3	EW3	SW3

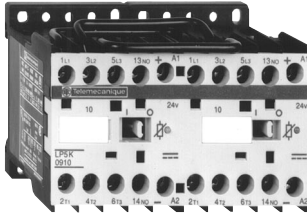
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K 3 and 4-pole low consumption reversing contactors
for control in utilisation category AC-1
Control circuit : d.c.

References

Reversing contactors (1)



LP5-K0910●●●

- Compatible with programmable controller outputs.
 - LED indicator incorporated.
 - Wide range coil (0.7...1.30 Uc), suppressor fitted as standard, consumption 1.5 W.
 - Mechanical interlock incorporated.
- It is essential to link the contacts of the electrical interlock.**
- Pre-wired power circuit connections as standard on screw clamp versions.
 - Mounting on 35 mm rail or Ø 4 mm screw fixing.
 - Screws in open "ready-to-tighten" position.

Non inductive loads Cat. AC-1 $\theta \leq 50^\circ\text{C}$ Maximum current	Type of connection	Number of poles	Instantaneous auxiliary contacts	Basic ordering reference. Complete with code indicating control circuit voltage (2)	Weight
A			N/O	N/C	kg
20	Screw clamp	3 —	1 —	—	LP5-K0910●●● (3) 0.490
		3 —	—	1	LP5-K0901●●● (3) 0.490
		4 —	—	—	LP5-K09004●●● 0.490
	Faston 1 x 6.35 or 2 x 2.8	3 —	1 —	—	LP5-K09107●●● 0.470
		3 —	—	1	LP5-K09017●●● 0.470
		4 —	—	—	LP5-K090047●●● 0.470
	Solder pins for for printed circuit board	3 —	1 —	—	LP5-K09105●●● 0.530
		3 —	—	1	LP5-K09015●●● 0.530
		4 —	—	—	LP5-K090045●●● 0.530

(1) Add-on auxiliary contact blocks and accessories, see pages 2/50 and 2/51.

(2) Standard control circuit voltages (for other voltages, please consult your local Customer support centre).

Volts ~	12	24	48	72
Code	JW3	BW3	EW3	SW3

(3) Warning: this reversing contactor is pre-wired for reverse motor operation.

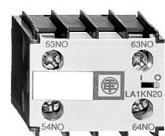
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Instantaneous and time delay auxiliary contacts

References

Instantaneous auxiliary contact blocks



LA1-KN20

Clip-on front mounting, 1 block per contactor

Type of connection	Type of contactor	Composition		Ordering reference	Weight
		N/O	N/C		kg
Screw clamp	3 or 4-pole	2	–	LA1-KN20	0.045
		–	2	LA1-KN02	0.045
		1	1	LA1-KN11	0.045
Faston 1 x 6.35 or 2 x 2.8	3 or 4-pole	2	–	LA1-KN207	0.045
		–	2	LA1-KN027	0.045
		1	1	LA1-KN117	0.045



LA2-KT2

EURONORME instantaneous auxiliary contact blocks

Clip-on front mounting, 1 block per contactor

Screw clamp with terminal referencing conforming to standard EN 50012	3-pole, 6 and 9 A	–	2	LA1-KN02M	0.045
		1	1	LA1-KN11M	0.045
	4-pole, 9 A	1	1	LA1-KN11P	0.045

Electronic time delay auxiliary contact blocks

- Relay output, with common point changeover contact, \sim or \equiv 240 V, 2 A maximum.
- Control voltage : 0.85...1.1 U_c .
- Maximum switching capacity : 250 VA or 150 W.
- Operating temperature : -10...+ 60 °C.
- 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	Composition	Ordering reference	Weight
V		s	C/O		kg
\sim or \equiv 24...48	On-delay	1...30	1	LA2-KT2E	0.040
\sim 110...240	On-delay	1...30	1	LA2-KT2U	0.040

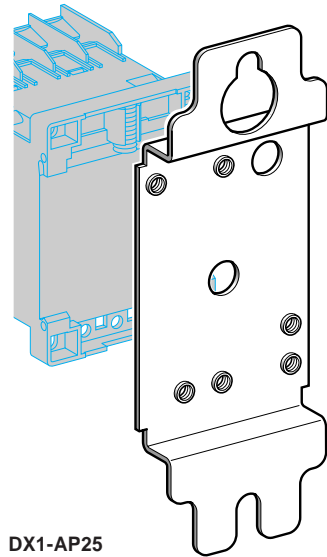
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Mounting, marking and cabling accessories

References

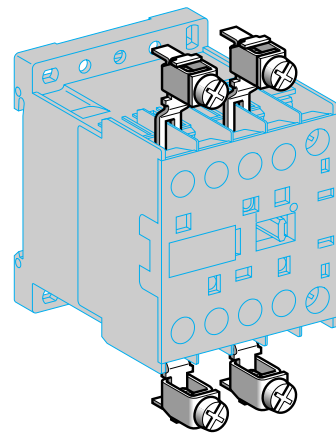
Mounting and marking accessories



DX1-AP25

Description	Application		Sold in lots of	Ordering reference	Weight kg
Mounting plates (1)	For fixing on 1 rail	clip-on	1	LA9-D973	0.025
	For fixing on 2 rails	110/120 mm fixing centres	10	DX1-AP25	0.065
Marker holder	Clip-on	Onto front of contactor	100	LA9-D90	0.001
Clip-in markers	4 maximum per contactor	Strips of 10 identical numbers 0...9	25	AB1-R● (2)	0.002
		Strips of 10 identical capital letters A...Z	25	AB1-G● (2)	0.002

Cabling accessories



LA9-E01

Description	Application		Sold in lots of	Ordering reference	Weight kg
Paralleling links	For 2 poles with screw clamp terminals		4	LA9-E01	0.010
	For 4 poles with screw clamp terminals		2	LA9-E02	0.015
Set of 6 power connections	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	LA9-K0969	0.010
Set of 4 power connections	For 4-pole changeover contactor pairs	For contactors with screw clamp terminals	100	LA9-K0970	0.010

(1) Order 1 mounting plate for fixing a contactor and 2 mounting plates for fixing a reversing contactor.
(2) Complete the reference by replacing the ● with the required character.

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Dimensions, mounting

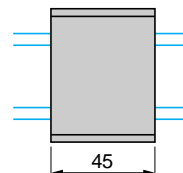
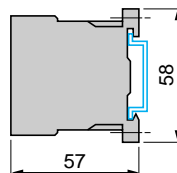
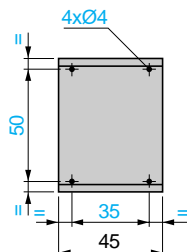
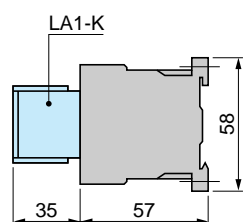
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Contactors

LP4-K

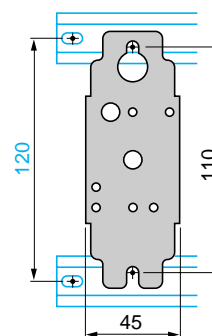
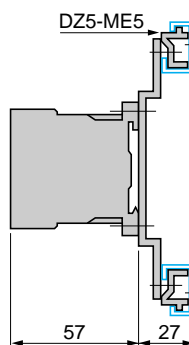
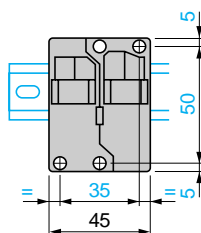
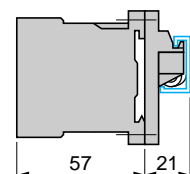
On panel

On mounting rail AM1-DP200 or AM1 DE200 (\approx 35 mm)

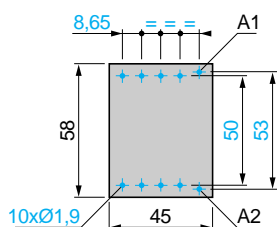


On one asymmetrical rail DZ5-MB with clip-on mounting plate
LA9-D973

DX1-AP25



On printed circuit board

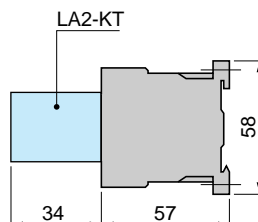
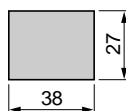
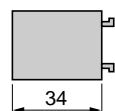


(Contactor pins \varnothing 1,55)

Electronic time delay contact blocks

LA2-KT

On contactor



Contactors and protection relays

Selection guide :
pages 1/12 to 1/43
Characteristics :
pages 2/42 to 2/45
References :
pages 2/46 to 2/51
Schemes :
pages 2/54 and 2/55

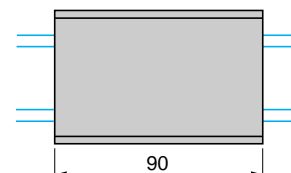
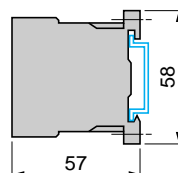
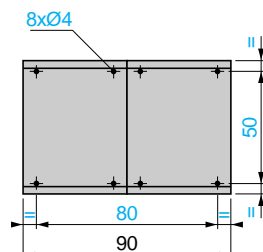
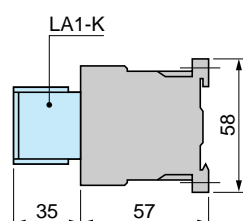
K low consumption contactors and reversing contactors, 6 and 9 A

Dimensions, mounting

Reversing contactors

LP5-K

On panel

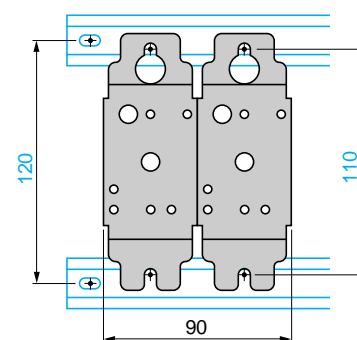
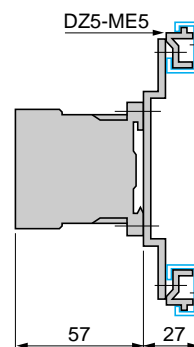
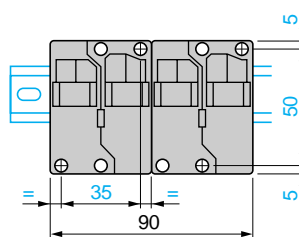
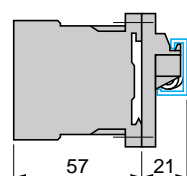


On mounting rail AM1-DP200 or AM1-DE200 (\approx 35 mm)

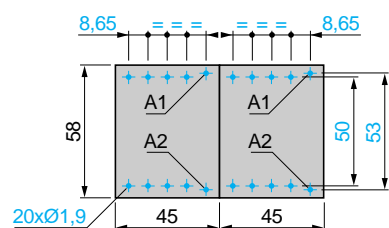
On one asymmetrical rail DZ5-MB with 2 clip-on mounting plates LA9-D973 or two mounting plates DX1-AP25.

2 x LA9-D973

2 x DX1-AP25



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

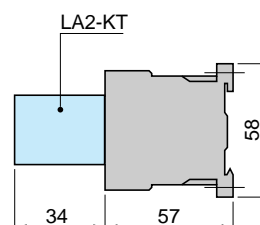
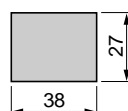
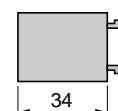


(Contactor pins \varnothing 1,55)

Electronic time delay contact blocks

LA2-KT

On reversing contactors



Contactors and protection relays

K 3-pole low consumption contactors and reversing contactors, 6 and 9 A

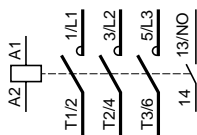
Selection guide :
pages 1/12 to 1/43
Characteristics :
pages 2/42 to 2/45
References :
pages 2/46 to 2/51
Dimensions, mounting :
pages 2/52 and 2/53

Schemes

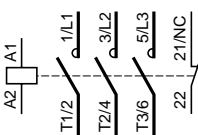
Contactors

LP4-K

3-pole + N/O

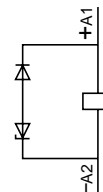


3-pole + N/C



Integral suppression device

LP4-K

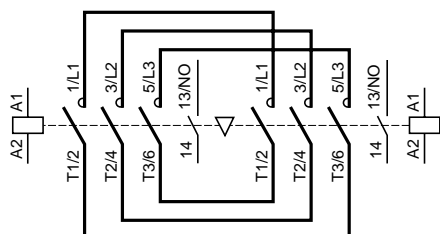


Reversing contactors

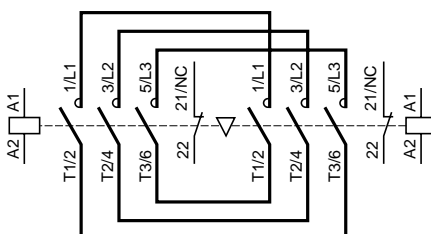
LP5-K

With screw clamp terminals

3-pole + N/O

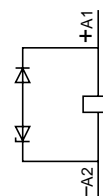


3-pole + N/C



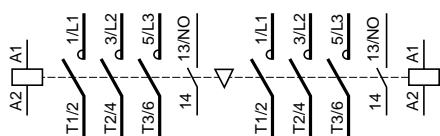
Integral suppression device

LP5-K

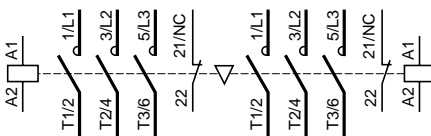


With Faston connectors or solder pins for printed circuit boards

3-pole + N/O



3-pole + N/C



Instantaneous auxiliary contact blocks

LA1-K

For contactors LP●-K

2 N/O

2 N/C

LA1-KN20

LA1-KN02

LA1-KN207

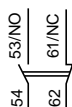
LA1-KN027



1 N/O + 1 N/C

LA1-KN11

LA1-KN117



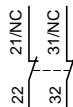
Terminal referencing conforming to standard EN 50012

2 N/C

1 N/O + 1 N/C

LA1-KN02M

LA1-KN11M

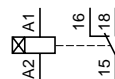


Electronic time delay contact blocks

LA2-KT

For contactors LP●-K

1 C/O



Contactors and protection relays

[Selection guide :](#)
[pages 1/12 to 1/43](#)
[Characteristics :](#)
[pages 2/42 to 2/45](#)
[References :](#)
[pages 2/46 to 2/51](#)
[Dimensions, mounting :](#)
[pages 2/52 and 2/53](#)

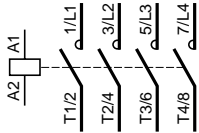
K 4-pole low consumption contactors and reversing contactors, 6 and 9 A

Schemes

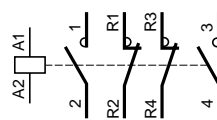
Contactors

LP4-K

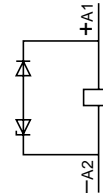
4 P



2 P N/O + 2 P N/C



Integral suppression device
LP4-K

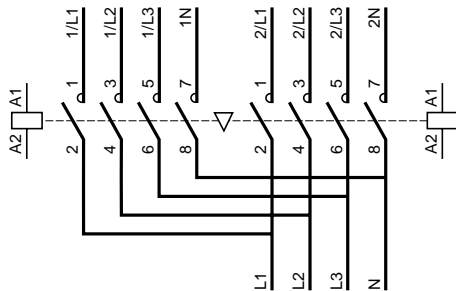


Reversing contactors

LP5-K

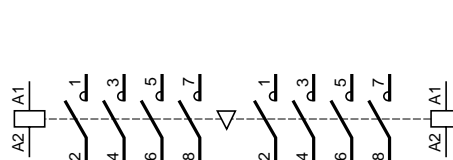
With screw clamp connections

4 P

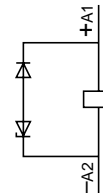


With Faston connectors or
solder pins for printed circuit board

4 P



Integral suppression device
LP5-K



Instantaneous auxiliary contact blocks

LA1-K

For contactors LP●-K

2 N/O

LA1-KN20

LA1-KN207

2 N/C

LA1-KN02

LA1-KN027

1 N/O + 1 N/C

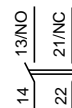
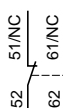
LA1-KN11

LA1-KN117

Terminal referencing conforming to EN 50012

1 N/O + 1 N/C

LA1-KN11P



Electronic time delay contact blocks

LA2-KT

For contactors LP●-K

1 C/O

