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Mini contactors

K 3-pole contactors for motor control, 6 and 9 A
Utilisation category AC-3
Control circuit : a.c.

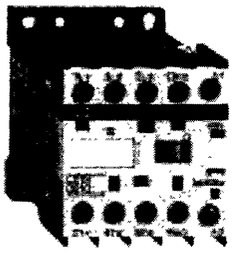
References

1

a.c. control contactors (1)

- Mounting on 35 mm ⎓ rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational voltage in AC-3 up to 400 V	Type of connection	Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
220 V 230 V	380 V 415 V	440/500 V 660/690 V			N/O	N/C		
kW	kW	kW	A					kg
1.5	2.2	3	6	Screw clamp	1	–	LC1-K0610●●	0.180
					–	1	LC1-K0601●●	0.180
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC1-K06107●●	0.180
					–	1	LC1-K06017●●	0.180
				Solder pins for printed circuit board	1	–	LC1-K06105●●	0.210
					–	1	LC1-K06015●●	0.210
2.2	4	4	9	Screw clamp	1	–	LC1-K0910●●	0.180
					–	1	LC1-K0901●●	0.180
				Faston 1 x 6.35 or 2 x 2 8	1	–	LC1-K09107●●	0.180
					–	1	LC1-K09017●●	0.180
				Solder pins for printed circuit board	1	–	LC1-K09105●●	0.210
					–	1	LC1-K09015●●	0.210



LC1-K0610●●

a.c. control contactors for use in sensitive environments (1)

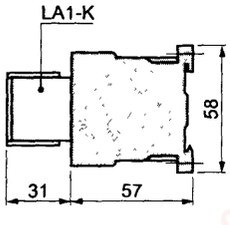
Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

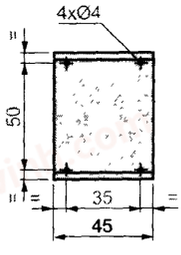
- Coil with rectifier incorporated, suppressor fitted as standard.
- Mounting on 35 mm ⎓ rail or Ø 4 mm screw fixing.
- Screws in the open "ready-to-tighten" position.

1.5	2.2	3	6	Screw clamp	1	–	LC7-K0610●●	0.225
					–	1	LC7-K0601●●	0.225
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC7-K06107●●	0 225
					–	1	LC7-K06017●●	0.225
				Solder pins for printed circuit board	1	–	LC7-K06105●●	0.255
					–	1	LC7-K06015●●	0.255
2.2	4	4	9	Screw clamp	1	–	LC7-K0910●●	0.225
					–	1	LC7-K0901●●	0.225
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC7-K09107●●	0.225
					–	1	LC7-K09017●●	0.225
				Solder pins for printed circuit board	1	–	LC7-K09105●●	0.255
					–	1	LC7-K09015●●	0.255

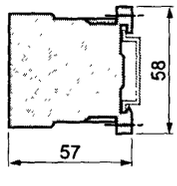
(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.
(2) Standard control circuit voltages, see page opposite.

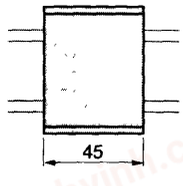
Contactors
LC1-K, LC7-K, LP1-K
On panel





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





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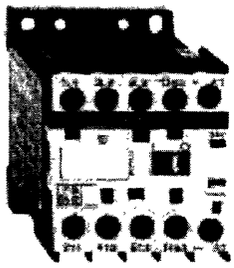
Mini contactors

K 3-pole contactors for motor control, 6 and 9 A
Utilisation category AC-3
Control circuit : d.c.

References

d.c. control contactors (1)

- Mounting on 35 mm ⎓ rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.



LP1-K0610●●

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational voltage in AC-3 up to 400 V	Type of connection	Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
220 V 230 V	380 V 415 V	440/500 V 660/690 V			N/O	N/C		
kW	**kW**	**kW**	**A**					kg
1.5	2.2	3	**6**	Screw clamp	1	–	**LP1-K0610●●**	0.225
					–	1	**LP1-K0601●●**	0.225
				Faston 1 x 6.35 or 2 x 2.8	1	–	**LP1-K06107●●**	0.225
					–	1	**LP1-K06017●●**	0.225
				Solder pins for printed circuit board	1	–	**LP1-K06105●●**	0.255
					–	1	**LP1-K06015●●**	0.255
2.2	4	4	**9**	Screw clamp	1	–	**LP1-K0910●●**	0.225
					–	1	**LP1-K0901●●**	0.225
				Faston 1 x 6.35 or 2 x 2.8	1	–	**LP1-K09107●●**	0.225
					–	1	**LP1-K09017●●**	0.225
				Solder pins for printed circuit board	1	–	**LP1-K09105●●**	0.255
					–	1	**LP1-K09015●●**	0.255

(1) Add-on auxiliary contact blocks and accessories, see pages 1/8 to 1/11.
(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

Contactors LC1-K (0.8...1.15 Uc) *(0.85...1.1 Uc)*

Volts ∼ 50/60 Hz	**12**	**20**	**24**	**36**	**42**	**48**	**110**	**120**	**127**	**200/ 208**	***220/ 230***	**230**	***230/ 240***	**256**	**277**	***380/ 400***	**400**
Code	J7	Z7	B7	C7	D7	E7	F7	G7	FC7	L7	*M7*	P7	*U7*	W7	UE7	Q7	V7
Volts ∼ 50/60 Hz	***400/440 415***		**500**	**575**	**600**	***660/ 690***											
Code	*N7*	R7	S7	SC7	X7	*Y7*											

Up to and including 240 V, coil with integral suppression device available : add **2** to the code required.
Example : J72

Contactors LC7-K (0.85...1.1 Uc)

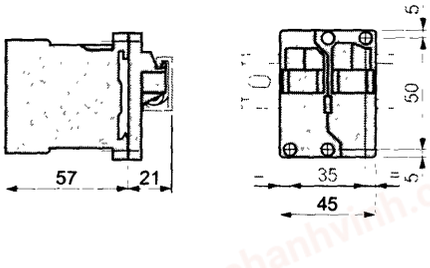
Volts ∼ 50/60 Hz	**24**	**42**	**48**	**110**	**220**	**230/ 240**
Code	B7	D7	E7	F7	M7	U7

Contactors LP1-K (0.8 ..1.15 Uc)

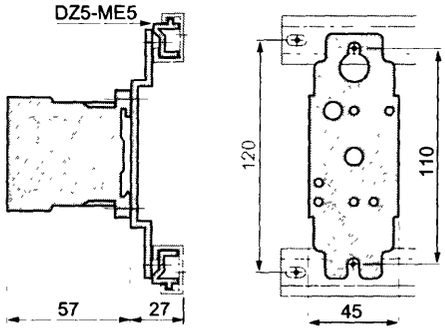
Volts ⎓	**12**	**20**	**24**	**36**	**48**	**60**	**72**	**100**	**110**	**125**	**155**	**174**	**200**	**220**	**230**	**240**	**250**
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

Coil with integral suppression device available : add **3** to the code required. Example : JD3

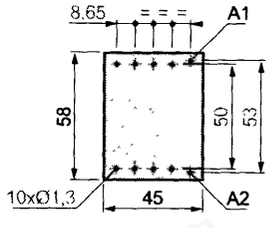
Contactors
LC1-K, LC7-K, LP1-K
On one asymmetrical rail DZ5-MB with clip-on mounting plate
LA9-D973



DX1-AP25



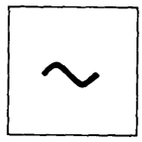
On printed circuit board



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Mini contactors

K 3 and 4-pole contactors for heating, lighting, etc., 20 A
Utilisation category AC-1
Control circuit : a.c. and d.c.

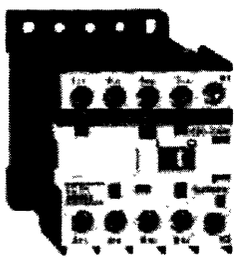


Dimensions
pages 1/2 and 1/3

References

a.c. control contactors (1)

- Mounting on 35 mm ⎓ rail or Ø 4 mm screws.
- Screws in open "ready-to-tighten" position.



LC1-K09004ee

Non inductive loads Category AC-1 Maximum current at θ ≤ 50 °C	Type of connection	Number of poles		Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
		d	b				
A				N/O	N/C		kg
20	Screw clamp	3	–	1	–	LC1-K0910ee	0.225
		3	–	–	1	LC1-K0901ee	0.225
		4	–	–	–	LC1-K09004ee	0.180
		2	2	–	–	LC1-K09008ee	0.180
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LC1-K09107ee	0.225
		3	–	–	1	LC1-K09017ee	0.225
		4	–	–	–	LC1-K090047ee	0.180
		2	2	–	–	LC1-K090087ee	0.180
	Solder pins for printed circuit board	3	–	1	–	LC1-K09105ee	0.255
		3	–	–	1	LC1-K09015ee	0.255
		4	–	–	–	LC1-K090045ee	0.210
		2	2	–	–	LC1-K090085ee	0.212

a.c. control contactors for use in sensitive environments (1)

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

- Coil with rectifier incorporated, suppressor fitted as standard.
- Mounting on 35 mm ⎓ rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

20	Screw clamp	3	–	1	–	LC7-K0910ee	0.225
		3	–	–	1	LC7-K0901ee	0.225
		4	–	–	–	LC7-K09004ee	0.225
		2	2	–	–	LC7-K09008ee	0.225
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LC7-K09107ee	0.225
		3	–	–	1	LC7-K09017ee	0.225
		4	–	–	–	LC7-K090047ee	0.225
		2	2	–	–	LC7-K090087ee	0.225
	Solder pins for printed circuit board	3	–	1	–	LC7-K09105ee	0.255
		3	–	–	1	LC7-K09015ee	0.255
		4	–	–	–	LC7-K090045ee	0.255
		2	2	–	–	LC7-K090085ee	0.255

d.c. control contactors (1)

20	Screw clamp	3	–	1	–	LP1-K0910ee	0 225
		3	–	–	1	LP1-K0901ee	0.225
		4	–	–	–	LP1-K09004ee	0.225
		2	2	–	–	LP1-K09008ee	0.225
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LP1-K09107ee	0.225
		3	–	–	1	LP1-K09017ee	0.225
		4	–	–	–	LP1-K090047ee	0.225
		2	2	–	–	LP1-K090087ee	0.225
	Solder pins for printed circuit board	3	–	1	–	LP1-K09105ee	0.255
		3	–	–	1	LP1-K09015ee	0 255
		4	–	–	–	LP1-K090045ee	0.255
		2	2	–	–	LP1-K090085ee	0.255

(1) Add-on auxiliary contact blocks and accessories see pages 1/8 to 1/11.
(2) Standard control circuit voltages, see page 1/3.

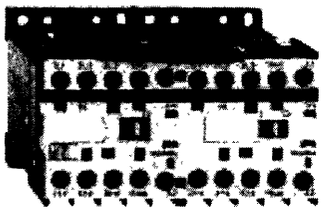
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Mini contactors

K 3-pole reversing contactors for motor control, 6 and 9 A
Utilisation category AC-3
Control circuit : a.c. and d.c.

Dimensions
page 1/6

References



LC2-K0610●●

a.c. control reversing contactors (1)

- Integral mechanical 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.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational current in AC-3 up to	Type of connection	Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
220 V 230 V	380 V 415 V	440/500 V 660/690 V	400 V					
kW	kW	kW	A		N/O	N/C		kg
1.5	2.2	3	6	Screw clamp	1	–	LC2-K0610●●	0.390
					–	1	LC2-K0601●●	0.390
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC2-K06107●●	0 370
					–	1	LC2-K06017●●	0.370
				Solder pins for printed circuit board	1	–	LC2-K06105●●	0.430
					–	1	LC2-K06015●●	0.430
2.2	4	4	9	Screw clamp	1	–	LC2-K0910●●	0.390
					–	1	LC2-K0901●●	0.390
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC2-K09107●●	0.370
					–	1	LC2-K09017●●	0.370
				Solder pins for printed circuit board	1	–	LC2-K09105●●	0.430
					–	1	LC2-K09015●●	0.430

a.c. control reversing contactors for use in sensitive environments (1)

Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

- Coil with rectifier incorporated, suppressor fitted as standard.
- Integral mechanical 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.

1.5	2.2	3	6	Screw clamp	1	–	LC8-K0610●●	0.480
					–	1	LC8-K0601●●	0.480
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC8-K06107●●	0.460
					–	1	LC8-K06017●●	0.460
				Solder pins for printed circuit board	1	–	LC8-K06105●●	0.520
					–	1	LC8-K06015●●	0.520
2.2	4	4	9	Screw clamp	1	–	LC8-K0910●●	0.480
					–	1	LC8-K0901●●	0.480
				Faston 1 x 6.35 or 2 x 2.8	1	–	LC8-K09107●●	0.460
					–	1	LC8-K09017●●	0.460
				Solder pins for printed circuit board	1	–	LC8-K09105●●	0.520
					–	1	LC8-K09015●●	0.520

d.c. control reversing contactors (1)

1.5	2.2	3	6	Screw clamp	1	–	LP2-K0610●●	0.480
					–	1	LP2-K0601●●	0.480
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP2-K06107●●	0.460
					–	1	LP2-K06017●●	0.460
				Solder pins for printed circuit board	1	–	LP2-K06105●●	0.520
					–	1	LP2-K06015●●	0.520
2.2	4	4	9	Screw clamp	1	–	LP2-K0910●●	0.480
					–	1	LP2-K0901●●	0.480
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP2-K09107●●	0.460
					–	1	LP2-K09017●●	0.460
				Solder pins for printed circuit board	1	–	LP2-K09105●●	0.520
					–	1	LP2-K09015●●	0.520

(1) Auxiliary contact blocks and accessories see pages 1/8 to 1/11.
(2) Control circuit voltage codes, see page 1/7.

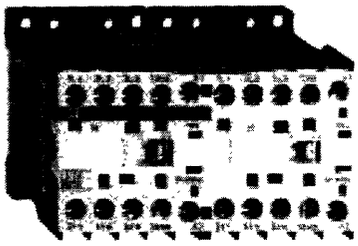
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Mini contactors

K 3 and 4-pole changeover contactors for heating, lighting, etc., 20 A
Utilisation category AC-1
Control circuit : a.c.

References

1



LC2-K0910●●

a.c. control reversing contactors (1)

- Integral mechanical interlock.
- Mounting on 35 mm ⎓ rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

Non inductive loads Category AC-1 Maximum current at θ ≤ 50 °C	Type of connection	Number of poles		Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
A				N/O	N/C		kg
20	Screw clamp	3	–	1	–	LC2-K0910●● (3)	0.390
		3	–	–	1	LC2-K0901●● (3)	0.390
		4	–	–	–	LC2-K09004●●	0.380
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LC2-K09107●●	0.370
		3	–	–	1	LC2-K09017●●	0.370
		4	–	–	–	LC2-K0900047●●	0.370
	Solder pins for printed circuit board	3	–	1	–	LC2-K09105●●	0.430
		3	–	–	1	LC2-K09015●●	0.430
		4	–	–	–	LC2-K0900045●●	0.430

a.c. control reversing contactors for use in sensitive environments (1)

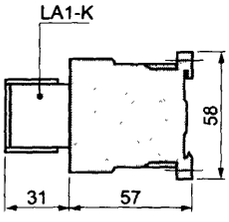
Recommended for use in areas sensitive to noise, high interference mains supplies, etc.

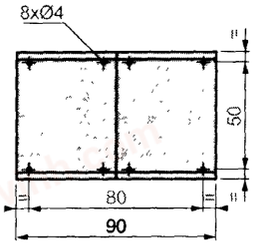
- Coil with rectifier incorporated, suppressor fitted as standard.
- Integral mechanical interlock.
- Mounting on ⎓ 35 mm rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.

20	Screw clamp	3	–	1	–	LC8-K0910●● (3)	0.480
		3	–	–	1	LC8-K0901●● (3)	0.480
		4	–	–	–	LC8-K09004●●	0.470
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LC8-K09107●●	0.460
		3	–	–	1	LC8-K09017●●	0.460
		4	–	–	–	LC8-K0900047●●	0.460
	Solder pins for printed circuit board	3	–	1	–	LC8-K09105●●	0.520
		3	–	–	1	LC8-K09015●●	0.520
		4	–	–	–	LC8-K0900045●●	0.520

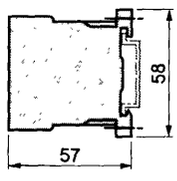
(1) Add-on auxiliary contact blocks and accessories see pages 1/8 to 1/11.
(2) Control circuit voltage codes, see page opposite.
(3) **Warning: this reversing contactor is pre-wired for reverse motor operation as standard.**

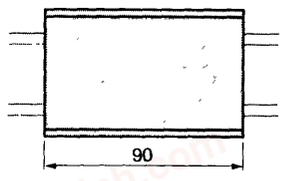
Reversing contactors
LC2-K, LC8-K, LP2-K
On panel





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





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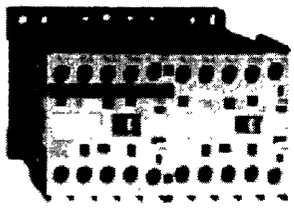
Mini contactors

K 3 and 4-pole changeover contactors for heating, lighting, etc., 20 A
Utilisation category AC-1
Control circuit : d.c.

References

d.c. control reversing contactors (1)

- Integral mechanical interlock.
- Mounting on 35 mm ⎓ rail or Ø 4 mm screw fixing.
- Screws in open "ready-to-tighten" position.



LP2-K0910●●

Non inductive loads Category AC-1 Maximum current at θ ≤ 50 °C	Type of connection	Number of poles		Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
A				N/O	N/C		kg
20	Screw clamp	3	–	1	–	LP2-K0910●● (3)	0.480
		3	–	–	1	LP2-K09001●● (3)	0.480
		4	–	–	–	LP2-K09004●●	0.480
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LP2-K09107●●	0.460
		3	–	–	1	LP2-K09017●●	0.460
		4	–	–	–	LP2-K0900047●●	0.460
	Solder pins for printed circuit board	3	–	1	–	LP2-K09105●●	0.520
		3	–	–	1	LP2-K09015●●	0.520
		4	–	–	–	LP2-K0900045●●	0.520

(1) Add-on auxiliary contact blocks and accessories see pages 1/8 to 1/11.
(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

Reversing contactors LC2-K (0.8...1.15 Uc) *(0.85...1.1 Uc)*

Volts ∿ 50/60 Hz	**12**	**20**	**24**	**36**	**42**	**48**	**110**	**120**	**127**	**200/ 208**	***220/ 230***	**230**	***230/ 240***	**256**	**277**	***380/ 400***	**400**
Code	J7	Z7	B7	C7	D7	E7	F7	G7	FC7	L7	*M7*	P7	*U7*	W7	UE7	*Q7*	V7
Volts ∿ 50/60 Hz	***400/ 415***	**440**	**500**	**575**	**600**	***660/ 690***											
Code	*N7*	R7	S7	SC7	X7	*Y7*											

Up to and including 240 V, coil with integral suppression device available : add **2** to the code required.
Example : J72

Reversing contactors LC8-K (0.85...1.1 Uc)

Volts ∿ 50/60 Hz	**24**	**42**	**48**	**110**	**220**	**230/ 240**
Code	B7	D7	E7	F7	M7	U7

Reversing contactors LP2-K (0.8...1.15 Uc)

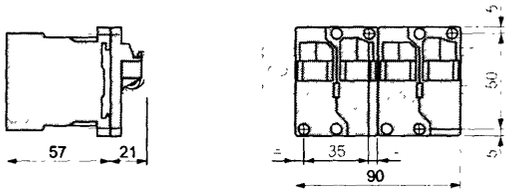
Volts ⎓	**12**	**20**	**24**	**36**	**48**	**60**	**72**	**100**	**110**	**125**	**155**	**174**	**200**	**220**	**230**	**240**	**250**
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

Coil with integral suppression device available : add **3** to the code required. Example : JD3

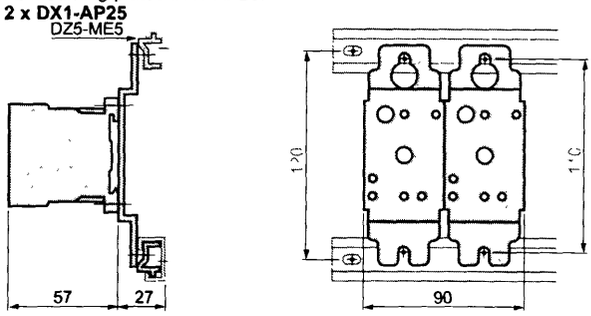
(3) **Warning: this reversing contactor is pre-wired for reverse motor operation as standard.**

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

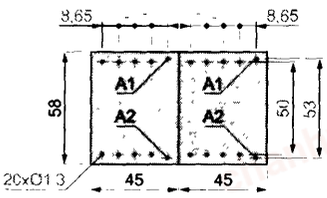
2 x LA9-D973



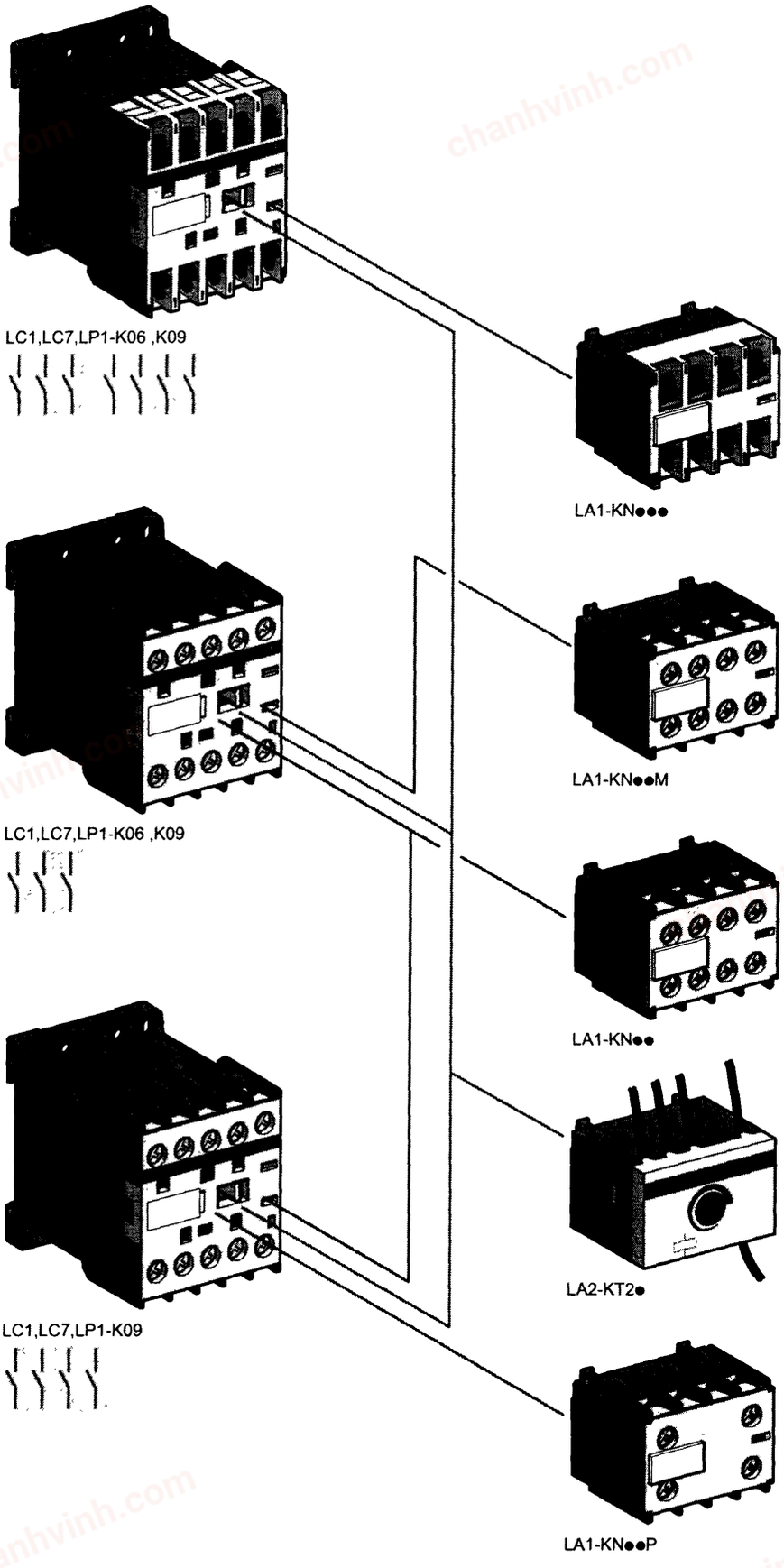
2 x DX1-AP25



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



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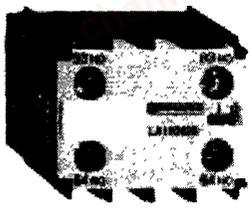
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Mini contactors

K 3 and 4-pole contactors, reversing and changeover contactors
Instantaneous and time delay auxiliary contacts

References

Illustrations
page 1/8



LA1-KN40●●

Instantaneous auxiliary contact blocks

Recommended for standard applications

Clip-on front mounting, 1 block per contactor

Type of connection	Type of contactor	Composition N/O	Composition N/C	Reference	Weight
					kg
Screw clamp	LC1, LC7, LP1 3 or 4-pole	2	–	**LA1-KN20**	0.045
		–	2	**LA1-KN02** (1)	0.045
		1	1	**LA1-KN11** (2)	0.045
		4	–	**LA1-KN40**	0.045
		3	1	**LA1-KN31**	0.045
		2	2	**LA1-KN22**	0.045
		1	3	**LA1-KN13** (3)	0.045
		–	4	**LA1-KN04** (4)	0.045
Faston 1 x 6.35 or 2 x 2.8	LC1, LC7, LP1 3 or 4-pole	2	–	**LA1-KN207**	0.045
		–	2	**LA1-KN027**	0.045
		1	1	**LA1-KN117**	0.045
		4	–	**LA1-KN407**	0.045
		3	1	**LA1-KN317**	0 045
		2	2	**LA1-KN227**	0 045
		1	3	**LA1-KN137**	0.045
		–	4	**LA1-KN047**	0.045

With terminal referencing conforming to standard EN 50012

Clip-on front mounting, 1 block per contactor

Screw clamp	LC1, LC7, LP1 3-pole 6 and 9 A	–	2	**LA1-KN02M**	0.045
		1	1	**LA1-KN11M**	0.045
		3	1	**LA1-KN31M**	0.045
		2	2	**LA1-KN22M**	0.045
		1	3	**LA1-KN13M**	0.045
	LC1, LC7, LP1 4-pole 9 A	1	1	**LA1-KN11P**	0.045
		2	2	**LA1-KN22P**	0.045

(1) Cannot be used on contactors : LP4/LP5-K●●01, LP4/LP5-K09008.
(2) Cannot be used on contactors : LP4/LP5-K09008.
(3) Cannot be used on contactors : LC7/LC8/LP1/LP2-K09008.
(4) Cannot be used on contactors : LC7/LC8/LP1/LP2-K●●01, LC7/LC8/LP1/LP2-K09008.

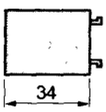
Electronic time delay auxiliary contact blocks

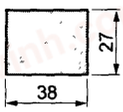
- Relay output, with common point changeover contact, 2 A maximum.
- Control voltage : ∼ or ⎓ 24...48 V, ∼ 110...240 V, 0.85...1.1 Uc.
- Maximum switching capacity : 250 VA or 150 W.
- Operating temperature : -10...+ 60 °C.
- Reset time : 1.5 s during the time delay period, 0.5 s after the time delay period.

Clip-on front mounting, 1 block per contactor

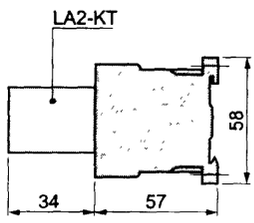
Voltage	Type	Timing range	Composition C/O	Reference	Weight
V		s			kg
∼ or ⎓ 24...48	On-delay	1...30	1	**LA2-KT2E**	0.040
∼ 110...240	On-delay	1...30	1	**LA2-KT2U**	0.040

Electronic time delay contact blocks
LA2-KT

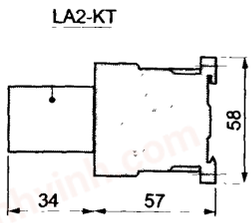




On contactors



On reversing contactors



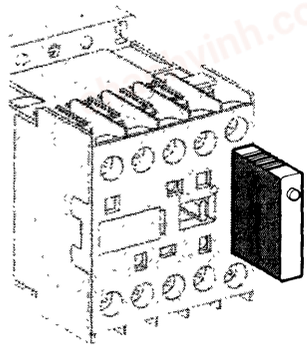
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Mini contactors

K 3 and 4-pole contactors, reversing and changeover contactors
Suppressor modules incorporating LED indicator

References

1



LA4-K●●●

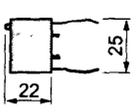
Mounting and connection	Type	For voltages:	Sold in lots of	Unit reference	Weight kg
Clip-on fixing on the front of contactors LC1, LC2, LP1 and LP2	Varistor (1)	~ and ⎓ 12...24 V	5	LA4-KE1B	0.010
		~ and ⎓ 32...48 V	5	LA4-KE1E	0.010
		~ and ⎓ 50...129 V	5	LA4-KE1FC	0.010
		~ and ⎓ 130...250 V	5	LA4-KE1UG	0.010
	Diode + Zener diode (2)	⎓ 12...24 V	5	LA4-KC1B	0.010
		⎓ 32...48 V	5	LA4-KC1E	0.010
	RC (3)	~ 220 ..250 V	5	LA4-KA1U	0 010

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

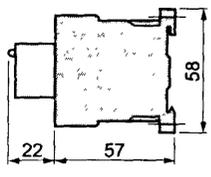
Suppressor modules
LA4-K●

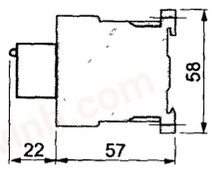
On contactors

On reversing contactors









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Mini contactors

K 3 and 4-pole contactors, reversing and changeover contactors
Accessories

References

Dimensions
pages 1/3 and 1/7

Mounting and marking accessories

Description	Application		Sold in lots of	Unit 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	1	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-Re● (2)	0.002
		Strips of 10 identical capital letters A...Z	25	AB1-Ge● (2)	0.002

Cabling accessories

Description	Application		Sold in lots of	Unit 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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Mini thermal overload relays

K thermal overload relays, adjustable from 0.11 to 11.5 A, for motor protection; compensated and phase failure sensitive, manual or automatic reset

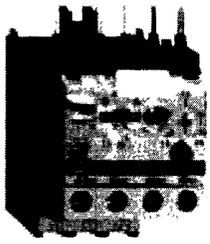
References

1

3-pole relays with screw clamp terminals

Direct mounting : under the contactor for versions with screw clamp terminals only; pre-wired terminals, see below.
Separate mounting : using terminal block LA7-K0064 (see below).
On the front of the overload relay :
- selection of reset mode : Manual (marked H) or Automatic (marked A),
- red pushbutton : Trip Test function,
- red pushbutton : Trip reset,
- blue pushbutton : Stop and manual Reset,
- yellow trip flag indicator : overload relay tripped.

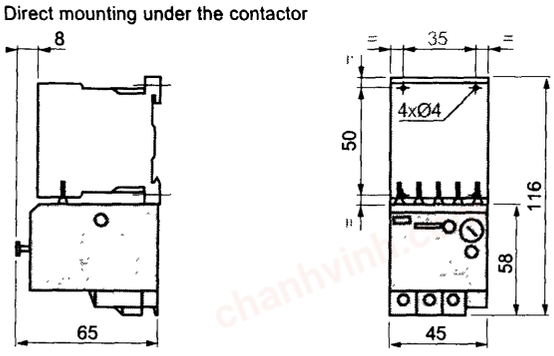
Protection by fuses or by magnetic circuit-breaker type GV2-L, see page 1/92.



LR2-K030

Relay setting range	Fuses to be used with selected relay Maximum rating Type aM	Type gG (BS88)	Reference	Weight
A	A	A		kg
Class 10 A (the standard specifies a tripping time of between 2 and 10 seconds at 7.2 In)				
0.11...0.16	0.25	2	LR2-K0301	0.145
0.16...0.23	0.25	2	LR2-K0302	0.145
0.23 ..0.36	0.5	2	LR2-K0303	0.145
0.36...0.54	1	4	LR2-K0304	0.145
0.54...0.8	1	4	LR2-K0305	0.145
0.8...1.2	2	6	LR2-K0306	0.145
1.2...1.8	2	6	LR2-K0307	0.145
1.8...2.6	4	10	LR2-K0308	0.145
2.6...3.7	4	16	LR2-K0310	0.145
3.7 ..5.5	6	16	LR2-K0312	0.145
5 5...8	8	20	LR2-K0314	0.145
8 .11.5	10	20	LR2-K0316	0.145

LR2-K
Direct mounting under the contactor



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Mini thermal overload relays

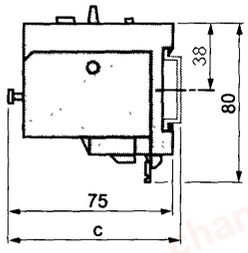
K thermal overload relays, adjustable from 0.11 to 11.5 A,
for motor protection; compensated and phase failure sensitive,
manual or automatic reset

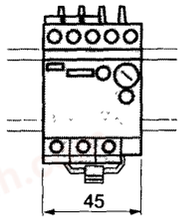
References

Accessories for thermal overload relays

Description	Type of connection	Reference	Weight kg
Terminal block for separate clip-on mounting of the overload relay on 35 mm ⎓ rail	Screw clamp	**LA7-K0064**	0 100

Separate mounting with terminal block **LA7-K0064**
on 35 mm ⎓ rail
(AM1-DP200 or AM1-DE200)





AM1-	C
DP200	78.5
DE200	86

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Mini contactors

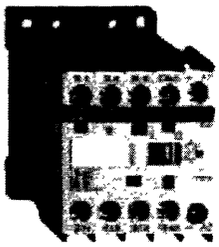
K 3 and 4-pole low consumption contactors
for motor control (AC-3) and heating and lighting, etc. (AC-1)
Control circuit : d.c.

References

1

d.c. control 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-K0610

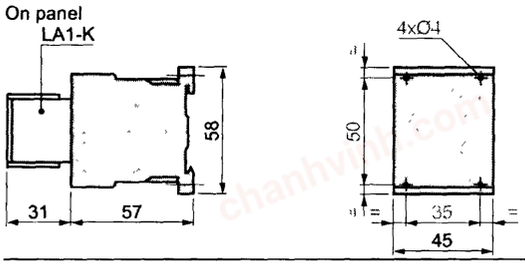
Motor control in category AC-3 Maximum operational current 440 V	Standard power ratings of 3-phase motors 220 V 230 V	380 V 415 V	440/500 V 660/690 V	Type of connection	Instantaneous auxiliary contacts N/O	N/C	Basic reference. Complete with code indicating control circuit voltage (2)	Weight
A	**kW**	**kW**	**kW**					kg
6	1.5	2.2	3	Screw clamp	1	–	LP4-K0610eee	0.235
					–	1	LP4-K0601eee	0.235
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP4-K06107eee	0.235
					–	1	LP4-K06017eee	0.235
				Solder pins for printed circuit board	1	–	LP4-K06105eee	0.265
					–	1	LP4-K06015eee	0.265
9	2.2	4	4	Screw clamp	1	–	LP4-K0910eee	0.235
					–	1	LP4-K0901eee	0.235
				Faston 1 x 6.35 or 2 x 2.8	1	–	LP4-K09107eee	0.235
					–	1	LP4-K09017eee	0.235
				Solder pins for printed circuit board	1	–	LP4-K09105eee	0.265
					–	1	LP4-K09015eee	0.265

Non inductive loads Cat. AC-1 θ ≤ 50 °C Maximum current	Type of connection	Number of poles		Instantaneous auxiliary contacts N/O	N/C	Basic reference. Complete with code indicating control circuit voltage (2)	Weight
A							kg
20	Screw clamp	3	–	1	–	LP4-K0910eee	0.235
		3	–	–	1	LP4-K0901eee	0.235
		4	–	–	–	LP4-K09004eee	0.235
		2	2	–	–	LP4-K09008eee	0.235
	Faston 1 x 6.35 or 2 x 2.8	3	–	1	–	LP4-K09107eee	0.235
		3	–	–	1	LP4-K09017eee	0.235
		4	–	–	–	LP4-K090047eee	0.235
		2	2	–	–	LP4-K090087eee	0.235
	Solder pins for printed circuit board	3	–	1	–	LP4-K09105eee	0.265
		3	–	–	1	LP4-K09015eee	0.265
		4	–	–	–	LP4-K090045eee	0.265
		2	2	–	–	LP4-K090085eee	0.265

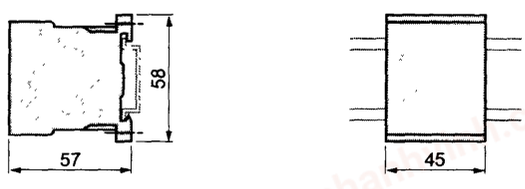
(1) Add-on auxiliary contact blocks and accessories see pages 1/16 and 1/17.
(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

Volts ⎓	12	24	48	72
Code	JW3	BW3	EW3	SW3

Contactors
LP4-K
On panel



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



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Mini contactors

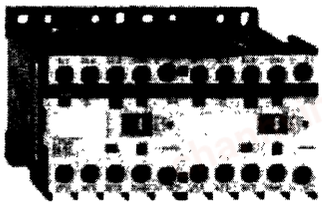
K 3 and 4-pole low consumption reversing and changeover contactors for motor control (AC-3) and heating, lighting etc., (AC-1)
Control circuit : d.c.

References

d.c. control reversing and changeover 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.
- Mechanical interlock incorporated.
- 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	Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
Maximum operational current 440 V	Standard power ratings of 3-phase motors 220 V 230 V	380 V 415 V	440/500 V 660/690 V		N/O	N/C		
A	kW	kW	kW					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



LP5-K0910●●●

Non inductive loads Cat. AC-1 θ ≤ 50 °C Maximum current	Type of connection	Number of poles	Instantaneous auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (2)	Weight
			N/O	N/C		
A						kg
20	Screw clamp	3 –	1	–	LP5-K0910●●● (3)	0.490
		3 –	–	1	LP5-K0901●●● (3)	0.490
		4 –	–	–	LP5-K090047●●●	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 printed circuit board	3 –	1	–	LP5-K09105●●●	0.530
		3 –	–	1	LP5-K09015●●●	0.530
		4 –	–	–	LP5-K090045●●●	0.530

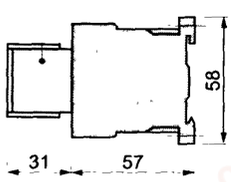
(1) Add-on auxiliary contact blocks and accessories, see pages 1.16 and 1.17.
(2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

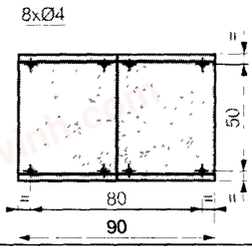
Volts ⎓	12	24	48	72
Code	JW3	BW3	EW3	SW3

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

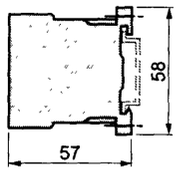
Reversing contactors
LP5-K

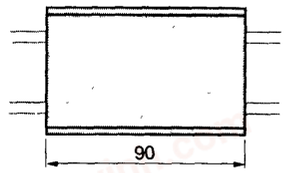
On panel
LA1-K





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





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Mini contactors

K 3 and 4-pole low consumption contactors,
reversing and changeover contactors
Instantaneous and time delay auxiliary contacts

References

1

Instantaneous auxiliary contact blocks

Clip-on front mounting, 1 block per contactor

Type of connection	Type of contactor	Composition N/O	Composition N/C	Reference	Weight
					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

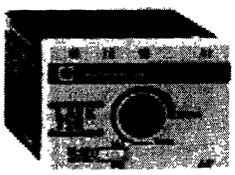
With terminal referencing conforming to standard EN 50012

Clip-on front mounting, 1 block per contactor

Screw clamp	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, 2 A maximum.
- Control voltage : ∼ or ⎓ 24...48 V, ∼ 110...240 V, 0.85 ..1.1 Uc.
- 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.

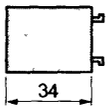


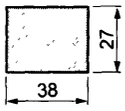
LA2-KT2●

Clip-on front mounting, 1 block per contactor

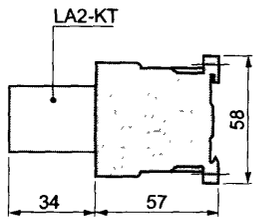
Voltage	Type	Timing range	Composition C/O	Reference	Weight
V		s			kg
∼ or ⎓ 24...48	On-delay	1...30	1	**LA2-KT2E**	0.040
∼ 110...240	On-delay	1...30	1	**LA2-KT2U**	0.040

Electronic time delay contact blocks
LA2-KT





On contactor



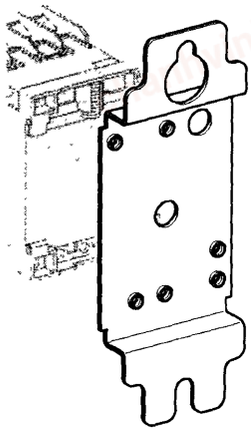
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Mini contactors

K 3 and 4-pole low consumption contactors,
reversing and changeover contactors
Mounting, marking and cabling accessories

References

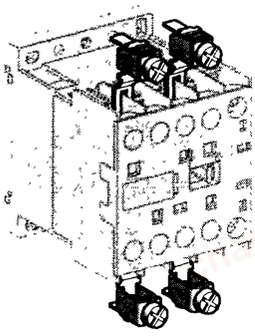
Mounting and marking accessories



DX1-AP25

Description	Application		Sold in lots of	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	1	**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-Re (2)**	0.002
		Strips of 10 identical capital letters A…Z	25	**AB1-Ge (2)**	0.002

Cabling accessories



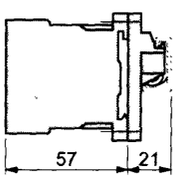
LA9-E01

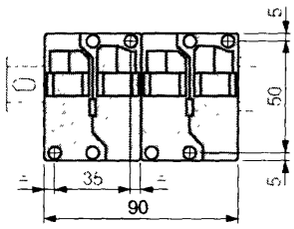
Paralleling links	For 2 poles with screw clamp terminals		4	**LA9-E01**	0.010
	For 4 poles with screw clamp terminals		2	**LA9-E02**	0.015
Set of 6 power connections	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	**LA9-K0969**	0.010
Set of 4 power connections	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.

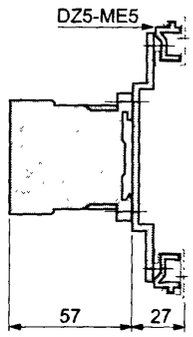
On one asymmetrical rail DZ5-MB with 2 clip-on mounting plates LA9-D973 or two mounting plates DX1-AP25.

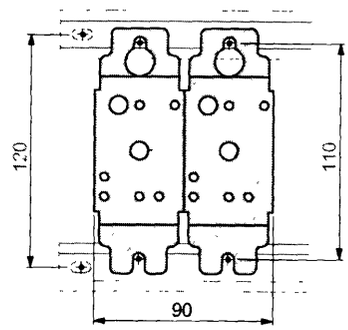
2 x LA9-D973





2 x DX1-AP25





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

