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



References

a.c. control contactors (1)

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

Standa	ard po	wer ratings	Rated	Type of	Inst	antaneous	Basic reference	. Weight
of 3-pl	nase n	notors	operational	connection	aux	iliary	Complete with c	ode
50/60	Hz in (category	voltage		con	tacts	indicating contro	bl
AC-3			in AC-3				circuit voltage (2	2)
			up to		~'	7		
220 V	380 \	/ 440/500 V	400 V			ſ		
230 V	415 \	/ 660/690 V			I	I		
kW	kW	kW	Α		N/O	N/C		kg
1.5	2.2	3	6	Screw clamp	1	_	LC1-K06100	0.180
					_	1	LC1-K060100	0.180
				Faston	1	-	LC1-K06107 ••	0.180
				1 x 6.35	_	1	LC1-K06017 ••	0.180
				or 2 x 2.8				
				Solder pins	1	-	LC1-K06105 ••	0.210
				for printed	_	1	LC1-K06015 ••	0.210
				circuit board				
2.2	4	4	9	Screw clamp	1	_	LC1-K09100	0.180
					_	1	LC1-K0901.	0.180
				Faston	1	_	LC1-K09107 ••	0.180
				1 x 6.35	_	1	LC1-K09017 ••	0.180
				or 2 x 2.8				
				Solder pins	1	_	LC1-K09105 ••	0.210
				for printed	_	1	LC1-K0901500	0.210
				circuit board				
				· · · · · · · · · · · · · · · · · · ·				

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-K06100	0.225
					_	1	LC7-K060100	0.225
				Faston	1	-	LC7-K06107 ••	0.225
				1 x 6.35	_	1	LC7-K06017 ••	0.225
				or 2 x 2.8				
				Solder pins	1	_	LC7-K0610500	0.255
				for printed	_	1	LC7-K0601500	0.255
				circuit board				
2.2	4	4	9	Screw clamp	1	-	LC7-K0910	0.225
					_	1	LC7-K090100	0.225
				Faston	1	-	LC7-K09107 ••	0.225
				1 x 6.35	_	1	LC7-K09017 ••	0.225
				or 2 x 2.8				
				Solder pins	1	-	LC7-K09105 ••	0.255
				for printed	_	1	LC7-K0901500	0.255
				circuit board				
(1) A	dd-on a	auxiliary c	ontact blocks	and accessories	500	nades 1/8	to 1/11	

(2) Standard control circuit voltages, see page opposite.







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





LC1-K0610 ••

1/2

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.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 220 V 380 V 440/500 V 230 V 415 V 660/690 V	Rated operational voltage in AC-3 up to 400 V	Type of connection	Inst aux con	antaneous iliary tacts	Basic reference. Complete with co indicating contro circuit voltage (2	Weight ode I)
kW kW kW	Α		N/C	N/C		kg
1.5 2.2 3	6	Screw clamp	1	_	LP1-K0610ee	0.225
			_	1	LP1-K060100	0.225
		Faston	1	-	LP1-K0610700	0.225
		1 x 6.35	_	1	LP1-K0601700	0.225
		or 2 x 2.8				
		Solder pins	1	-	LP1-K0610500	0.255
		for printed	-	1	LP1-K0601500	0.255
		circuit board				
2.2 4 4	9	Screw clamp	1	_	LP1-K091000	0.225
			-	1	LP1-K090100	0.225
		Faston	1	-	LP1-K09107	0.225
		1 x 6.35	-	1	LP1-K0901700	0.225
		or 2 x 2.8				
		Solder pins	1	_	LP1-K09105	0.255
		for printed	-	1	LP1-K0901500	0.255
		circuit board				

1/81 (2) Standard control circuit voltages (for other voltages, please consult your Regional customer centre).

$\frac{\text{Contactors LC1-K }(0.8...1.15 \text{ Uc}) \ (0.85...1.1 \text{ Uc})}{\text{Volts} \sim 12 \ 20 \ 24 \ 36 \ 42 \ 48 \ 110 \ 120 \ 127 \ 200/ \ 220/ \ 230 \ 230/ \ 256 \ 277 \ 380/ \ 400}$

50/60 Hz										208	230		240		400		
Code	J7	Z7	B7	C7	D7	E7	F7	G7	FC7	L7	М7	P7	U7	W7	UE7 Q7	V7	
Volts \sim	400)/44() 500	575	600	660	/										
50/60 Hz	415	5				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)

$\frac{\rm Volts}{\rm 50/60~Hz}$	24	42	48	110	220	230/ 240
Code	B7	D7	E7	F7	M7	U7

Contactors LP1-K (0.8...1.15 Uc)

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

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

Contactors LC1-K, LC7-K, LP1-K

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









On printed circuit board





LP1-K06100

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



References

a.c. control contactors (1)

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

Non inductive loads Category AC-1 Maximum current at $\theta \leq 50 \ ^{\circ}C$	Type of connection	Number of poles	Instantaneous auxiliary contacts	Basic reference. Complete with code indicating control circuit voltage (2)	Weight
Α			N/O N/C		kg
20	Screw clamp	3 –	1 –	LC1-K0910	0.225
		$\frac{3}{4}$ –	- 1	LC1-K0901	0.225
		$\frac{4}{2}$ -			0.180
	Faston	3 -	1 –	LC1-K09107	0.100
	1 x 6.35	3 –	- 1	LC1-K09017 ••	0.225
	or 2 x 2.8	4 –		LC1-K090047 ••	0.180
		2 2		LC1-K09008700	0.180
	Solder pins	3 –	1 –	LC1-K09105	0.255
	for printed	3 –	- 1	LC1-K09015	0.255
	circuit board	4 –		LC1-K09004500	0.210
		2 2		LC1-K09008500	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-K0910	0.225
		3	_	_	1		LC7-K090100	0.225
		4	_	_		-	LC7-K09004 ••	0.225
		2	2	_	_	-	LC7-K09008 ••	0.225
	Faston	3	_	1	_	-	LC7-K09107 ••	0.225
	1 x 6.35	3	_	_	1		LC7-K09017 ••	0.225
	or 2 x 2.8	4	_	_		-	LC7-K090047 ••	0.225
		2	2	_		-	LC7-K090087 ••	0.225
	Solder pins	3	-	1	_	-	LC7-K09105	0.255
	for printed	3	_	_	1		LC7-K09015	0.255
	circuit board	4	-	_		-	LC7-K09004500	0.255
		2	2	-	_	-	LC7-K09008500	0.255

d.c. control contactors (1)

20	Screw clamp	3	_	1	_	LP1-K0910	0.225
		3	_	-	1	LP1-K090100	0.225
		4	_	-	_	LP1-K09004 ••	0.225
		2	2	-	_	LP1-K09008 ••	0.225
	Faston	3	_	1	_	LP1-K09107 ••	0.225
	1 x 6.35	3	_	-	1	LP1-K09017 ••	0.225
	or 2 x 2.8	4	-	-	-	LP1-K090047 ••	0.225
		2	2	-	_	LP1-K090087 ••	0.225
	Solder pins	3	_	1	_	LP1-K09105 ••	0.255
	for printed	3	-	-	1	LP1-K09015 ••	0.255
	circuit board	4	_	_	_	LP1-K090045ee	0.255
		2	2	-	_	LP1-K090085 ••	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.





LC1-K09004 ••

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

LC2-K0610

References



1

a.c. control reversing contactors (1)

- Inter	oral m	echanical in	terlock					
- Pre-	wired	nower circui	it connection	s as standard o	n scre	w clamp ver	sions	
- Mour	ntina (25 mm	rail or Ø 4 r	nm scrow fiving	11 3010	w clamp ver	510115.	
- Scre	ws in	open "ready	-to-tighten" r	nin sorew nxing	•			
Stand	ard no	wer ratings	Rated	Type of	Inci	antaneous	Basic reference	Weight
of 3-pl		notore	operational	connection	2017	iliony	Complete with code	weight
50/60	Hz in	category	current	CONTRECTION	con	inary	indicating control	
00/00 AC-3	112 111	category				I	circuit voltage (2)	
AC-3			III AC-5		<u> </u>	Ļ	circuit voltage (2)	
220 1/	200	V 440/500 V				(
220 V	J00 /15	V 440/500 V	400 V					
230 V	+13 L W	<u>kW</u>	٨		N/C	N/C		ka
1 5	2.2	2	6	Serow clamp	1	11/0	LC2 K0610aa	0 200
1.5	2.2	3	0	Screw clamp	<u> </u>	1		0.390
				Factor	-	I		0.390
				1 x 6 25	<u> </u>	1		0.370
				1 X 0.30	_	1	LC2-K0001700	0.370
				Soldor pipe	1		LC2 K06105ee	0 420
				Soluer pills	<u> </u>	1		0.430
				oirouit boord	_	I	LC2-K0001500	0.430
0.0	4	4	0	Circuit Doard	4		L C2 K0010aa	0.000
2.2	4	4	9	Screw clamp	1	-		0.390
				Frates	_	1		0.390
				Faston	1	-	LC2-KU910700	0.370
				1 x 6.35	_	1	LC2-K0901700	0.370
				or 2 x 2.8				
				Solder pins	1	-	LC2-K0910500	0.430
				for printed	_	1	LC2-K0901500	0.430
				circuit board				

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.

- 30	ews m	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	-	LC8-K0610700	0.460
				1 x 6.35	_	1	LC8-K0601700	0.460
				or 2 x 2.8				
				Solder pins	1	_	LC8-K0610500	0.520
				for printed	_	1	LC8-K0601500	0.520
				circuit board				
2.2	4	4	9	Screw clamp	1	_	LC8-K0910ee	0.480
					_	1	LC8-K0901	0.480
				Faston	1	_	LC8-K0910700	0.460
				1 x 6.35	_	1	LC8-K0901700	0.460
				or 2 x 2.8				
				Solder pins	1	_	LC8-K0910500	0.520
				for printed	_	1	LC8-K0901500	0.520
				circuit board				

d.c. control reversing contactors (1)

Faston 1 x 6.35 or 2 x 2.8 Solder pips	_ 1 _	1 - 1	LP2-K060100 LP2-K0610700 LP2-K0601700	0.480 0.460 0.460
Faston 1 x 6.35 or 2 x 2.8 Solder pips	<u>1</u> -	_ 1	LP2-K0610700 LP2-K0601700	0.460
1 x 6.35 or 2 x 2.8 Solder pins	-	1	LP2-K06017ee	0.460
or 2 x 2.8 Solder pips				
Solder nins				
	1	-	LP2-K0610500	0.520
for printed	_	1	LP2-K0601500	0.520
circuit board				
Screw clamp	1	-	LP2-K09100	0.480
	_	1	LP2-K090100	0.480
Faston	1	-	LP2-K0910700	0.460
1 x 6.35	_	1	LP2-K0901700	0.460
or 2 x 2.8				
Solder pins	1	-	LP2-K0910500	0.520
for printed	_	1	LP2-K0901500	0.520
circuit board				
	Faston 1 x 6.35 or 2 x 2.8 Solder pins for printed circuit board xs and accessories, see t	Faston 1 for printed - circuit board Screw clamp 1 - Faston 1 1 x 6.35 - or 2 x 2.8 Solder pins 1 for printed - circuit board Solder pins 1 for printed - circuit board	for printed $-$ 1 circuit board Screw clamp 1 - Faston 1 - 1 x 6.35 - 1 or 2 x 2.8 Solder pins 1 - for printed - 1 circuit board	for printed circuit board $ \begin{array}{c} $

pages

(2) Control circuit voltage codes, see page 1/7.



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

References

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	Type of	Number	Instantaneous	Basic reference.	Weight
loads	connection	of	auxiliary	Complete with code	Ũ
Category		poles	contacts	indicating control	
AC-1				circuit voltage (2)	
Maximum		ヽ゚ ゚゚゚	\' 7		
current at		γ			
$\theta \le 50$ °C					
Α			N/O N/C		kg
20	Screw clamp	3 –	1 –	LC2-K0910 (3)	0.390
		3 –	- 1	LC2-K0901 •• (3)	0.390
		4 –		LC2-K0900400	0.380
	Faston	3 –	1 –	LC2-K0910700	0.370
	1 x 6.35	3 –	- 1	LC2-K0901700	0.370
	or 2 x 2.8	4 –		LC2-K090047ee	0.370
	Solder pins	3 –	1 –	LC2-K09105ee	0.430
	for printed	3 –	- 1	LC2-K09015ee	0.430
	circuit board	4 –		LC2-K090045ee	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.

20

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

roudy to tighton	poon					
Screw clamp	3	_	1	_	LC8-K0910ee (3) 0.480
	3	_	_	1	LC8-K090100 (3) 0.480
	4	_	_	_	LC8-K09004	0.470
Faston	3	_	1	_	LC8-K0910700	0.460
1 x 6.35	3	_	_	1	LC8-K0901700	0.460
or 2 x 2.8	4	_	_	_	LC8-K090047	0.460
Solder pins	3	_	1	_	LC8-K0910500	0.520
for printed	3	_	_	1	LC8-K0901500	0.520
circuit board	4	_	_	_	LC8-K090045	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)







LC2-K0910ee

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.

	es 7		L T	indicating control circuit voltage (2)	
7	ŀ. 7		Ļ	circuit voltage (2)	
<u> </u>	7		7		
<u>)</u>	((
I	I				
			•		
		N/O	N/C		kç
lamp 3	_	1	-	LP2-K0910ee (3)	0.480
3	-	-	1	LP2-K09001 •• (3)	0.480
4	_	_	-	LP2-K09004ee	0.480
3	-	1	-	LP2-K0910700	0.460
5 3	_	-	1	LP2-K0901700	0.460
.8 4	_	_	_	LP2-K090047ee	0.460
oins 3	_	1	-	LP2-K0910500	0.520
ed 3	_	_	1	LP2-K0901500	0.520
oard 4	_	-	_	LP2-K090045ee	0.520
	Science 3 3 4 4 3 5 3 6 3 6 3 10 4 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3	$\begin{array}{c} 3 & - \\ 3 & - \\ 4 & - \\ 5 & 3 & - \\ 5 & 3 & - \\ .8 & 4 & - \\ .8 & 4 & - \\ .8 & 4 & - \\ .8 & 3 & - \\ .6$	$\begin{array}{c} \text{clamp} \\ 3 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	$\begin{array}{c} \text{clamp} \\ 3 \\ \hline 3 \\ \hline 3 \\ \hline - \\ \hline 3 \\ \hline - \\ - \\$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Reversing	com	actor	SLU	z-n (0.8	1.15	UC) ((0.85		UC)							
$\overline{ m Volts} \sim$	12	20	24	36	42	48	110	120	127	200/	220	/ 230	230	/ 256	277	380/	400
50/60 Hz										208	230		240			400	
Code	J7	Z7	B7	C7	D7	E7	F7	G7	FC7	L7	Μ7	P7	U7	W7	UE7	Q7	V7
$\overline{ m Volts} \sim$	400	/440	500	575	600	660	/										

 50/60 Hz
 415
 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 \sim	24	42	48	110	220	230/
50/60 Hz						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
 MUD
 UD

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

(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 DZ5-ME5



LP2-K09100



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









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 mount	ting, 1 block per contactor			
Type of connection	Type of contactor	Composition	Reference	Weight
		N/O N/C		kg
Screw clamp	LC1, LC7, LP1	2 –	LA1-KN20	0.045
	3 or 4-pole	- 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	LC1, LC7, LP1	2 –	LA1-KN207	0.045
1 x 6.35	3 or 4-pole	- 2	LA1-KN027	0.045
or 2 x 2.8		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 Scre

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

(1) Cannot be used on contactors : LP4/LP5-Kee01, 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-Kee01, LC7/LC8/LP1/LP2-K09008.

Electronic time delay auxiliary contact blocks

- Relay output, with common point changeover contact, 2 A maximum.

On contactors

- Control voltage : \sim or = 24...48 V, \sim 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	Composition	Reference	Weight
vonage	Type	Tining	Composition	Reference	weight
		range			
			\backslash		
V		S	C/O		ka
\sim or <u>—</u> 24…48	On-delay	130	1	LA2-KT2E	0.040
\sim 110240	On-delay	130	1	LA2-KT2U	0.040

Electronic time delay contact blocks LA2-KT











1

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

References

6	



LA4-Keee

Mounting and connection	Туре	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)	\sim and <u></u> 1224 V	5	LA4-KE1B	0.010
		∼ and 3248 V	5	LA4-KE1E	0.010
		\sim and <u></u> 50129 V	5	LA4-KE1FC	0.010
		∼ and 130250 V	5	LA4-KE1UG	0.010
	Diode + Zener diode (2)	 1224 V	5	LA4-KC1B	0.010
		 3248 V	5	LA4-KC1E	0.010
	RC (3)	∼ 220250 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-Ke

On contactors











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

References

Dimensions : pages 1/3 and 1/7

Description	Application		Sold in lots of	Unit reference	Weigh k
Mounting plates (1)	For fixing on 1 ∟ rail	Clip-on	1	LA9-D973	0.02
	For fixing on 2 ⊡ rails	110/120 mm fixing centres	1	DX1-AP25	0.06
Marker holder	Clip-on	Onto front of contactor	100	LA9-D90	0.00
Clip-in markers	4 maximum per contactor	Strips of 10 identical numbers 09	25	AB1-R● (2)	0.00
		Strips of 10 identical capital letters AZ	25	AB1-Ge (2)	0.00
Cabling acc	essories				
Description	Application		Sold in lots of	Unit reference	Weigł k
Paralleling links	For 2 poles with screw clar	mp terminals	4	LA9-E01	0.01
	For 4 poles with screw clar	mp terminals	2	LA9-E02	0.01
Set of 6 power connections	For 3-pole reversing contactors for motor control	For contactors with screw clamp terminals	100	LA9-K0969	0.01
Set of 4 power connections	For 4-pole changeover	For contactors with screw	100	LA9-K0970	0.01

(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.

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

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 :

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 : 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.

		000 page	
Relay	Fuses to be used with selected relay	Reference	Weight
setting	Maximum rating		

range	<u>Type</u> aM	aG (BS88)		
Α	A	A A		kg
Class 10 A (t	he standard sp	ecifies a tripping time of bet	ween 2 and 10 seconds at 7.2 In)	
0.110.16	0.25	2	LR2-K0301	0.145

0.160.23	0.25	2	LR2-K0302 0.145
0.230.36	0.5	2	LR2-K0303 0.145
0.360.54	1	4	LR2-K0304 0.145
0.540.8	1	4	LR2-K0305 0.145
0.81.2	2	6	LR2-K0306 0.145
1.21.8	2	6	LR2-K0307 0.145
1.82.6	4	10	LR2-K0308 0.145
2.63.7	4	16	LR2-K0310 0.145
3.75.5	6	16	LR2-K0312 0.145
5.58	8	20	LR2-K0314 0.145
811.5	10	20	LR2-K0316 0.145



LR2-K030

LR2-K





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)





1

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

d.c. control contactors (1)

- Compatible with programmable controller outputs.
- 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.

Motor cont	rol			Туре	e of	Insta	Intaneous	Basic reference.	Weight
in category	/ AC-3			conr	ection	auxi	liary	Complete with code	
Maximum	Standa	ırd				cont	acts	indicating control	
opera-	power	ratings						circuit voltage (2)	
tional	of 3-ph	ase							
current	motors						1		
440 V	220 V	380 V	440/500 V			1	4		
	230 V	415 V	660/690 V				(
<u> </u>	L/M	L/M							ka
<u>A</u>	KVV	KVV	KVV			IN/O	IN/C		ку
6	1.5	2.2	3	Scre	w clamp	1	_	LP4-K0610	0.235
						_	1	LP4-K0601	0.235
				Fast	on 1 x 6.35	1	-	LP4-K06107	0.235
				or 2	x 2.8	_	1	LP4-K06017	0.235
				Sold	er pins	1	-	LP4-K06105	0.265
				for p	rinted	_	1	LP4-K06015	0.265
				circu	it board				
•	0.0		4	0					0.005
9	2.2	4	4	Scre	w clamp	1	-	LP4-K0910000	0.235
				E		_	1		0.235
				Fast	on 1 x 6.35	1	-	LP4-K09107000	0.235
				or 2	x 2.8	_	1		0.235
				Sold	er pins	1	-	LP4-K09105000	0.265
				tor p	rinted	-	1	LP4-K09015000	0.265
				CIFCU	it board				
Non		Type o	f	Num	ber	Insta	ntaneous	Basic reference.	Weight
inductive		connec	ction	of		auxi	liarv	Complete with code	mongin
loads				pole	5	cont	acts	indicating control	
Cat. AC-1				1		1	1	circuit voltage (2)	
θ ≤ 50 °C				4	μ.		Ļ	J	
Maximum				٦°	7		(
current					(
-				•	•	NI/O	NI/O		
<u>A</u>						N/O	N/C		кд
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	3	_	1	_	LP4-K09107	0.235
		or 2 x	2.8	3	_	_	1	LP4-K09017	0.235
				4	_	_	_	LP4-K090047	0.235
				2	2	_	_	LP4-K090087	0.235
		Solder	pins	3	_	1	_	LP4-K09105	0.265
		for prin	ited	3	_	_	1	LP4-K09015	0.265
		circuit	board	4	-	_	_	LP4-K090045	0.265
				2	2	_	_	LP4-K090085	0.265
(1) Add-on	auxilia	ry conta	ct blocks an	d acc	essories, see	page	s 1/16 an	d 1/17.	,
(2) Standa	rd contr	ol circui	t voltages (fo	or oth	er voltages, p	lease	consult y	our Regional custom	er centre).
Volts	12	24	48	72					
Code	JW	3 B	N3 EW3	SV	/3				





LP4-K0610

Telemecanique 1/14

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.

_	_	_	

1

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 con	trol			Type of	Insta	Intaneous	Basic reference.	Weight
in categor	y AC-3			connection	auxil	liary	Complete with code	
Maximum	Standa	ırd			cont	acts	indicating control	
opera-	power	ratings					circuit voltage (2)	
tional	of 3-ph	ase					0 ()	
current	motors							
440 V	220 V	380 V	440/500 V		Ň	7		
	230 V	415 V	660/690 V					
						•		
Α	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	1	_	LP5-K06107	0.470
				or 2 x 2.8	_	1	LP5-K06017	0.470
				Solder pins	1	_	LP5-K06105eee	0.530
				for printed	_	1	LP5-K06015eee	0.530
				circuit board				
9	2.2	4	4	Screw clamp	1	_	LP5-K0910	0.490
					_	1	LP5-K0901	0.490
				Faston 1 x 6.35	1	_	LP5-K09107eee	0.470
				or 2 x 2.8	_	1	LP5-K09017eee	0.470
				Solder pins	1	_	LP5-K09105eee	0.530
				for printed	_	1	LP5-K09015eee	0.530
				circuit board		·		
				on our pour a				
Non		Type o	f	Number	Insta	ntaneous	Basic reference.	Weight
inductive		conneo	ction	of	auxil	liary	Complete with code	0
loads				poles	cont	acts	indicating control	
Cat. AC-1				<u>' I I</u>	1	1	circuit voltage (2)	
$\theta \leq 50 \ ^{\circ}C$				d b.	<u>_</u>	4	J	
Maximum				<u>\</u> 7		(
current				γ (
Α					N/O	N/C		kg
20		Screw	clamp	3 –	1	_	LP5-K0910eee (3)	0.490
				3 -	_	1	LP5-K0901000 (3)	0.490
				4 –	_	_	LP5-K09004	0.490
		Fastor	1 x 6.35	3 –	1	_	LP5-K09107	0.470
		or 2 x	2.8	3 –	_	1	LP5-K09017	0.470
				4 –	_	_	LP5-K090047eee	0.470
		Solder	pins	3 –	1	_	LP5-K09105	0.530
		for prin	ted	3 –	_	1	LP5-K09015	0.530
		circuit	board	4 –	_	_	LP5-K090045	0.530
(1) Add-or	auxilia	ry conta	ct blocks an	d accessories see	page	s 1/16 an	d 1/17.	0.000
(2) Standa	rd cont	ol circui	t voltages (fo	or other voltages r	lease	consult v	our Regional custome	r centre)
Volts —	12	24	48	72		sonour y		
Code	.1\/	/3 B	N3 EW3	SW3				

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

Reversing contactors LP5-K





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







LP5-K0910

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

References

Instantaneous auxiliary contact blocks

Clip-on front mou	Inting, 1 block per contact	or			
Type of	Type of	Com	position	Reference	Weight
connection	contactor		Ļ		
		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	3 or 4-pole	2	_	LA1-KN207	0.045
1 x 6.35		_	2	LA1-KN027	0.045
or 2 x 2.8		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,	-	2	LA1-KN02M	0.045
	6 and 9 A	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 : \sim or \pm 24...48 V, \sim 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	Туре	Timing range	Composition	Reference	Weight
V		S	C/O		kg
\sim or <u></u> 2448	On-delay	130	1	LA2-KT2E	0.040
\sim 110240	On-delay	130	1	LA2-KT2U	0.040

Electronic time delay contact blocks

LA2-KT

LA2-KT2•





On contactor



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

References

Mounting and marking accessories

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 09	25	AB1-R● (2)	0.002
		Strips of 10 identical capital letters AZ	25	AB1-G• (2)	0.002

Cabling accessories

Paralleling links	For 2 poles with screw clam	o terminals	4	LA9-E01	0.010
	For 4 poles with screw clam	o 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



DX1-AP25

LA9-E01



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





