

Auxiliary Contact Blocks for contactors K(G)3-07.. to K3-115.., type HN.. for low level switching ¹⁾



Rated AC15 230V A	Operational Current		Contacts	Type	Order No	Pack pcs.	Weight kg/pc.
	AC15 400V A	AC1 690V A					
3	2	10	1 NO	HN10	LA 190 100	10	0,02
3	2	10	- 1 NC	HN01	LA 190 101	10	0,02
3	2	10	- - 1 EM	HN10U	LA 190 138	10	0,02
3	2	10	- - - 1 LB	HN01U	LA 190 139	10	0,02
6	3	25	1 NO	HA10	LA 190 137	10	0,03
6	3	25	- 1 NC	HA01	LA 190 135	10	0,03

Auxiliary Contact Block for contactors K3-24.. to K3-115.., for low level switching ¹⁾



Rated AC15 230V A	Operational Current		Contacts	Type	Order No	Pack pcs.	Weight kg/pc.
	AC15 400V A	AC1 690V A					
3	2	10	1 NO	HB11	LA 190 134	10	0,02
3	2	10	- 2 NC	HB02		10	0,02

mounting:
1 HB.. on left side
and 1 HB.. on right side

Auxiliary Contact Blocks for contactors K3-116.. to K3-1200



Rated AC15 230V A	Operational Current		Contacts	Type	Order No	Pack pcs.	Weight kg/pc.
	AC15 400V A	AC1 690V A					
3	2	10	1 NO	HKT11	LA 190 146	1	0,04
3	2	10	2 NO	HKT22	LA 190 144	1	0,05
3	2	10	1 NO	HKA11	LA 190 145	1	0,05
3	2	16	2 ²⁾ NO	HKF22	LA 190 147	1	0,12
3	2	16	1 NO	HKB11		1	0,17

For contactors

Snap-on Momentary Contacts for K(G)3-07.. to K3-115.. for low level switching¹⁾



Rated AC15 230V A	Operational Current		Contacts	Type	Order No	Pack pcs.	Weight kg/pc.
	AC15 400V A	AC1 690V A					
3	2	10	1 NO	HTN10		10	0,02
3	2	10	- 1 NC	HTN01		10	0,02

Specification

Terminal Blocks for contactors K(G)3-07.. to K3-115.. and K2-..



Specification	Thermal Current I _{th} A	Type	Order No	Pack pcs.	Weight kg/pc.
2 terminals interconnected	26	K2-DK		10	0,02
2 terminals insulated	26	K2-SK		10	0,02

1) Contacts suitable for electronic circuits, according to IEC60947-5-4 for rated voltage 24V DC (test ratings 17V DC, 5mA) Positively guided contacts
Technical data see page 62

2) Contact travel of make contacts adjustable, see page 63

Pneumatic Timer for contactors K(G)3-07.. to K(G)3-40.. and K2-07 to K2-16

Timer must be snapped onto the contactor, mechanically operated by the contactor and occupies 4 add-on spaces. The contacts of the timer switch delayed to the contacts of the contactor.



Function	Time Range s	Contacts				Type	Order No	Pack pcs.	Weight kg/pc.
		NO	NC	NO	NC				
On-delay	0,1 - 40	1	1	-	-	K2-TP40DE	LA 190 106	1	0,09
On-delay	10 - 180	1	1	-	-	K2-TP180DE	LA 190 107	1	0,09
Off-delay	0,1 - 40	-	-	1	1	K2-TP40IA	LA 190 108	1	0,09
Off-delay	10 - 180	-	-	1	1	K2-TP180IA	LA 190 109	1	0,09

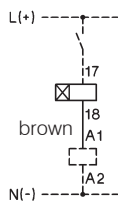
Electronic Timer On-delay for contactors K(G)3-07.. to K3-115.. and K2-..

Timer will be connected with the contactor coil, can be snapped onto the contactor and occupies 2 add-on spaces. Contactor switches On-delay.

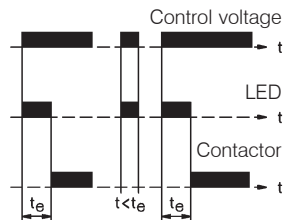


Operational Voltage V	Time Range s	Rated Current AC15 A	Type	Order No	Pack pcs.	Weight kg/pc.
24 - 60V AC/DC	1 - 30	0,75	K2-TE30 60		1	0,08
100 - 250V AC/DC	1 - 30	0,75	K2-TE30 250	LA 190 192	1	0,08
24 - 60V AC/DC	10 - 180	0,75	K2-TE180 60		1	0,08
100 - 250V AC/DC	10 - 180	0,75	K2-TE180 250	LA 190 193	1	0,08
24 - 60V AC/DC	30 - 600	0,75	K2-TE600 60		1	0,08
100 - 250V AC/DC	30 - 600	0,75	K2-TE600 250		1	0,08

Wiring Diagram



Timing Chart



Operation Range

Time repeat accuracy
Recovery time (typical)

0,8 - 1,1 x U_s
≤1%
50ms

Voltage Drop after the time delay t_e

(Control voltage 24V: use contactor with 20V-coil)
Max. inrush current (peak value)

<3V
25A <10ms

Duty Cycle

Ambient temperature
Short circuit protection

100%
-40° - +60°C
2A

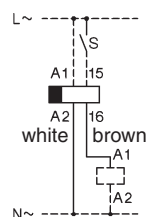
Electronic Timer Off-delay for contactors K(G)3-07.. to K3-74.. and K2-..

Timer will be connected with the contactor coil, can be snapped onto the contactor and occupies 2 add-on spaces. Contactor switches Off-delay.

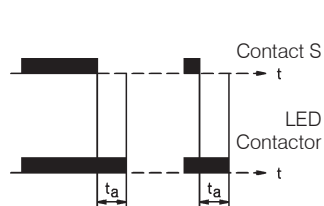


Operational Voltage V	Time Range s	Rated Current AC15 A	Type	Order No	Pack pcs.	Weight kg/pc.
24 - 60V AC	1 - 30	0,75	K2-TA30 60		1	0,08
100 - 120V AC	1 - 30	0,3	K2-TA30 120		1	0,08
200 - 250V AC	1 - 30	0,15	K2-TA30 250		1	0,08
24 - 60V AC	10 - 180	0,75	K2-TA180 60		1	0,08
100 - 120V AC	10 - 180	0,3	K2-TA180 120		1	0,08
200 - 250V AC	10 - 180	0,15	K2-TA180 250		1	0,08
24 - 60V AC	30 - 600	0,75	K2-TA600 60		1	0,08
100 - 120V AC	30 - 600	0,3	K2-TA600 120		1	0,08
200 - 250V AC	30 - 600	0,15	K2-TA600 250		1	0,08

Wiring Diagram



Timing Chart



Operation Range

Time repeat accuracy
Min. start time
Recovery time (typical)

0,8 - 1,1 x U_s
≤1%
15ms
15ms

Voltage Drop

Max. inrush current (peak value)

<0,7V
25A <10ms

Duty Cycle

Ambient temperature
Short circuit protection

100%
-40° - +40°C
2A

Utilization Category AC15

24 - 60V 100 - 120V 200 - 250V
0,75A 0,3A 0,15A

Interface for contactors K3-07.. to K3-74.. and K2-07.. to K2-60..



Input Voltage U _e	Power Consumption	Rated Current I _e AC15	250V AC	400V AC	Type	Order No	Pack pcs.	Weight kg/pc.
24V DC	0,35W	0,75A	0,5A		K2-IM		1	0,03

Amplifier element for contactor control by programmable controller

Fuse Holders for contactors K(G)3-07.. to K3-115.. and K2-..



Specifications	Rated Voltage	Type	Order No	Pack pcs.	Weight kg/pc.
Fuse holder for fuse 5x20mm (max. 6,3A) Fuses are not included.	250V AC	K2-F		1	0,02

Rectifier with Fuse Holder for contactors K(G)3-07.. to K3-115.. and K2-..

Specifications	Rated Voltage	Type	Order No	Pack pcs.	Weight kg/pc.
with built-in rectifier 1A	250V AC	K2-RF1		1	0,03
with built-in rectifier 3A	250V AC	K2-RF3		1	0,03

Latch for contactors K(G)3-07.. to K3-74.. and K2-..

with NC aux. contact
power consumption max. 30VA

Type	Coil voltage	Order No	Pack pcs.	Weight kg/pc.
24	22-26V 50/60Hz			
110	100-120V 50/60Hz			
230	210 -250V 50/60Hz			
400	360-440V 50/60Hz			
↓				

For Contactors

K3-07 to K3-22, K2-07 to K2-16	K2-L22 230	LA 190 167	1	0,08
K3-24 to K3-40, K2-23 to K2-37, KG3-10 to KG3-40	K2-L40 230	LA 190 183	1	0,08
K3-50 to K3-74, K2-45 to K2-60	K2-L74 230		1	0,08



Technical data see page 62
Latch for Contactors K3-200 to K3-860 on request

Indicator Units for contactors K(G)3-07.. to K3-115.. and K2-..



Specifications	Voltage Range	Type	Order No	Pack pcs.	Weight kg/pc.
Coil Current Indicator , green (LED)	24 - 660V AC/DC	K2-ING		10	0,02
Coil Current Indicator , red (LED)	24 - 660V AC/DC	K2-INR		10	0,02
To connect in series with the contactor coil. In case of coil interruption the indication goes out. Voltage drop appr. 2 volts					
Voltage Indicator , clear (glow-disc. I.)	220 - 415V AC/DC	K2-UN		10	0,02
Voltage Indicator , red (LED)	24 - 120V AC/DC	K2-UNR		10	0,02
To connect parallel to the contactor coil. In case of applied voltage the indication also lights at coil interruption.					

Snap-On Adapter



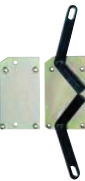
For Type	Specification	Type	Order No	Pack pcs.	Weight kg/pc.
K2-DK, K2-SK, K2-TE, K2-TA K2-IM, K2-F, K2-RF K2-IN., K2-UN.	for snap-on mounting of accessories on 35mm DIN-rail acc. DIN EN 50022	K2-SM		10	0,009

Additional 4th Poles for contactors K3-315.. to K3-1200



For Contactors	Thermal Current I _{th} A	Type	Order No	Pack pcs.	Weight kg/pc.
K3-315, K3-450, K3-550	325	NP325	LA 190 174	1	0,7
K3-315, K3-450, K3-550	500	NP500	LA 190 175	1	1,3
K3-450, K3-550	760	NP760		1	1,4
K3-700, K3-860	500	NP501		1	1,3
K3-700, K3-860	1000	NP1000		1	1,6
K3-1000, K3-1200	1000	NP1001		1	1,6

Mechanical Interlocks



Interlocks contactor with contactor Type	Type	Mounting	Type	Order No	Pack pcs.	Weight kg/pc.
K3-07 to K3-40 KG3-07 to KG3-22 KG3-24 to KG3-40 K2-07 to K2-37	K3-07 to K3-40 KG3-07 to KG3-22 KG3-24 to KG3-40 K2-07 to K2-37	horizontal	LG10889	LA 190 102	10	0,006
K3-24 to K3-74 K2-23 to K2-60	K3-50 to K3-74 K2-45 to K2-60	horizontal	LG10890	LA 190 103	10	0,010
K3-90, K3-115	K3-90, K3-115	horizontal	LG11478 ¹⁾		1	0,010
K3-116 to K3-316	K3-116 to K3-316	horizontal	LG11223H	LA 190 179	1	0,06
K3-315 to K3-550	K3-315 to K3-550	horizontal	LG10400H		1	0,8
K3-315 to K3-550	K3-315 to K3-550	vertical	LG10400V		1	0,8
K3-450, K3-550	K3-700, K3-860	horizontal	LG10399H		1	1,6
K3-450, K3-550	K3-700, K3-860	vertical	LG10399V		1	0,9
K3-700, K3-860	K3-700, K3-860	horizontal	LG10402H		1	1,5
K3-700, K3-860	K3-700, K3-860	vertical	LG10402V		1	0,9
K3-700, K3-860	K3-1000, K3-1200	horizontal	LG10401H		1	1,9
K3-700, K3-860	K3-1000, K3-1200	vertical	LG10401V		1	1,6
K3-1000, K3-1200	K3-1000, K3-1200	horizontal	LG10403H		1	1,8
K3-1000, K3-1200	K3-1000, K3-1200	vertical	LG10403V		1	1,5

Terminal Covers for terminal protection according to DIN 57106, VBG 4



For Contactors	Specification	Type	Order No	Pack pcs.	Weight kg/pc.
K3-151, K3-176 3-pole	for 3 terminals	LG10404	LA 390 000	1	0,12
K3-116 to K3-176 4-pole	for 4 terminals	LG104044		1	0,14
K3-210, K3-260, K3-316	for 3 terminals	LG11457		1	0,14
K3-200	for 3 terminals	LG10405		1	0,18
K3-315, K3-450	for 3 terminals	LG10406		1	0,28
K3-550	for 3 terminals	LG10407		1	0,34
K3-700	for 3 terminals	LG10408		1	0,39
K3-860	for 3 terminals	LG10409		1	0,49

Additional Terminals



For Contactors	Cable Cross-sections to clamp mm ² solid or stranded	flexible	flex. with multi- core cable end	Type	Order No	Pack pcs.	Weight kg/pc.
Additional Terminal Single Pole, with fingertouch protection							
K(G)3-10 to K(G)3-22	0,75 - 10	0,75 - 6	0,75 - 6	LG9339N		6	0,009
K2-09 to K2-16							
K3-151 to K3-176		16 - 120 + 16 - 95		LG11224		1	0,10
Additional Terminal Single Pole, set with 3 pieces							
K3-50 to K3-74, K2-45, K2-60	4 - 35	6 - 25	4 - 25	LG9030		1	0,052
K3-50 to K3-74 K2-45, K2-60	10 - 70	16 - 50	10 - 35	LG9031		1	0,170

1) clamps for mounting incl.

Parallel Connectors



For Contactors	Cable Cross-sections to clamp mm ² solid or flex. with multi- stranded flexible core cable end	Type	Order No	Pack pcs.	Weight kg/pc.
----------------	---	------	----------	-----------	---------------

Parallel Connectors, 3 Poles Parallel

Current-carrying capacity: 2,5 x AC1-value of the contactor

K(G)3-10 to K(G)3-22	terminal hole for screw M5	LG9241	50	0,004
K2-09 to K2-16				
K2-23 to K2-37	4 - 35 6 - 25 4 - 25	LG5587	10	0,022

Parallel Connectors, 4 Poles Parallel

Current-carrying capacity: 3,2 x AC1-value of the contactor

K(G)3-10 to K(G)3-22	terminal hole for screw M5	LG7360	10	0,006
K2-09 to K2-16				

Suppressor Units



Voltage Range V	Mounting	Type	Order No	Pack pcs.	Weight kg/pc.
-----------------	----------	------	----------	-----------	---------------

RC-units for contactors K3-07 - K3-74, K2-09 - K2-60

12 - 48V AC/DC	to snap	1600nF / 22 Ohm	RC-K3 24	LA 190 140N	10	0,01
48 - 127V AC/DC	on the	680nF / 270 Ohm	RC-K3 110	LA 190 142N	10	0,01
110 - 230V AC/DC	contactor	220nF / 2200 Ohm	RC-K3 230	LA 190 141N	10	0,01
230 - 415V AC/DC		120nF / 620 Ohm	RC-K3N 400		10	0,01

Mounting Parts



Description	For Type	Specification	Type	Order No	Pack pcs.	Weight kg/pc.
Clamp, no distance	K3-07 to K3-115 K2-07 to K2-37	To join contactors without distance, 2 pieces required	P426-1		50	0,001
Clamp, 7mm distance	K3-07 to K3-115 K2-07 to K2-37	To join contactors with 7mm distance, 2 pieces required	P418-1		10	0,002
Clamp, 12mm distance	K3-07 to K3-115 K2-07 to K2-37	To join contactors with 12mm distance, 2 pieces required	P807-1		10	0,002
Clamp asymmetric	K3-07 to K3-40 with K3-50 - K3-74 with 12mm distance,	To join contactors 2 pieces required	P785-1		10	0,002

Marking System for contactors K3-07.. to K3-115.., K2-.. and aux. contact blocks HN and HA



Description	Specification	Type	Order No	Pack pcs.	Weight kg/100pc
Marking Plate	2-section without marking, divisible	P487-1		100	0,025
Marking Plate	3-section without marking, divisible	P971-1		100	0,038
Marking Plate	4-section without marking, divisible	P245-1		100	0,050
Marking Plate	marked, choice of K1...K32	P245-K..		100	0,013

Coil voltages for AC operated contactors

Type-suffix for coil-types K6/.. to K45/...
for contactor-types K3-07.. to K3-74

Suffix to contactor type	to coil type	Voltage Marking at the coil		Rated Control Voltage U _s range			
		for 50Hz V	for 60Hz V	for 50Hz min. max. V V		for 60Hz min. max. V V	
6	41.6	6		6	6,6	6,6	7,3
6,6	41.6,6	6,6		6,6	7,3	7,3	8
7,3	41.7,3	7,3		7,3	8	8	9
8	41.8	8		8	9	9	10
9	41.9	9		9	10	10	11
10	41.10	10		10	11	11	12
11	41.11	11	12	11	12	12	13,2
12	41.12	12		12	13,2	13,2	14,5
13,2	41.13	13,2		13,2	14,5	14,5	16
14,5	41.14	14,5		14,5	16	16	18
16	41.16	16		16	18	18	20
18	41.18	18		18	20	20	22
20	41.20	20		20	22	22	24
24	4.24	24	24	22	24	24	27
25	41.25	25		24	27	27	30
27	41.27	27	32	27	30	30	33
32	41.32	32	36	30	33	33	36
33	41.33	36	36	33	36	36	39
36	41.36	36	42	36	39	39	42
40	41.40	42	42	39	42	42	47
42	4.42	42	48	42	47	47	52
48	41.48	48	48	44	48	48	52
55	41.55	55	60	52	58	58	65
60	41.60	60		58	65	65	72
65	41.65	65		65	72	72	80
75	41.75	75		72	80	80	90
85	41.85	85		80	90	90	100
90	41.90	100	100	90	100	100	110
110	4.110	110	110-120	100	110	110	122
115	41.115	115	125	110	122	122	135
127	41.127	127		122	135	135	150
140	41.140	140		135	150	150	165
150	41.150	150		150	165	165	180
165	41.165	165	180-208	165	180	180	208
180	41.180	180-210 ¹⁾	200-240 ¹⁾	180	210 ¹⁾	200	240 ¹⁾
200	41.200	200-230 ¹⁾	220-240	200	230 ¹⁾	220	240
230	4.230	220-240	230-264	220	240	230	264
254	41.254	254	277	240	264	264	290
270	41.270	270		264	290	290	315
300	41.300	300		290	315	315	345
320	41.320	320		315	345	345	380
345	41.345	345-400 ¹⁾	380-440 ¹⁾	345	400 ¹⁾	380	440 ¹⁾
400	4.400	380-415	400-440	380	415	400	460
415	41.415	415-440	440-480	400	440	440	480
440	41.440	440-480	480-500	440	480	480	530
480	41.480	480-500	530-580	480	530	530	580
500	41.500	500-550	550-600	500	550	550	600
550	41.550	550-600	600	550	600	600	(650)

Standard voltages in bold type letters

Type-suffix for coil-types K85/... and K110/...
for contactor-types K85 to K110

Suffix to contactor type	to coil type	Voltage Marking at the coil		Rated Control Voltage U _s range			
		for 50Hz V	for 60Hz V	for 50Hz min. max. V V		for 60Hz min. max. V V	
20	4.20	20	24	20	22	24	26
24	4.24	24		24	27	29	32
42	4.42	42		42	47	50	56
110	4.110	110-120		110	122	132	146
230	4.230	220-240	277	220	240	264	288
400	4.400	380-415	460-480	380	415	455	498

Type-suffix for coil-types K3-1200/..
for contactor-types K3-1000.. to K3-1200..

110	4.110	110-115	-	110	115	110	115
230	4.230	220-230	-	220	230	220	230
400	4.400	380-400	-	380	400	380	400
440	4.440	440	-	440	440	440	440

Coil voltages for AC and DC operated contactors

Type-suffix for coil-types K3-115/.. to K3-860/..
for contactor-types K3-90.. to K3-860..

Suffix to contactor type	to coil type	Voltage Marking at the coil		Rated Control Voltage U _s range			
		for 50/60Hz V	for DC V	for 50Hz min. max. V V		for 60Hz min. max. V V	
24	4.24	24	24	22	24	22	24
48	4.48	48	48	44	48	44	48
110	4.110	110-120	110	110	120	110	120
230	4.230	220-240	220	220	240	220	240
400	4.400	380-415	-	380	415	380	415

Coil voltages for AC operated contactors

Type-suffix for coil-types K3-115/..AC
for contactor-types K3-90..AC to K3-115..AC

Suffix to contactor type	to coil type	Voltage Marking at the coil		Rated Control Voltage U _s range			
		for 50Hz V	for 60Hz V	for 50Hz min. max. V V		for 60Hz min. max. V V	
110AC	4.110AC	110-122	132-146	110	122	132	146
230AC	4.230AC	220-240	277	220	240	264	288

Other coil voltages on request

Operating range of magnet-coils: 0,85 x U_s (min. value of rated control voltage) up to 1,1 x U_s (max. value of rated control voltage)

With reduced control voltage range 0,9 up to 1,0 x U_s at ambient temperature 60 - 90°C

1) Operating range of magnet-coils: 0,85 x U_s (min. value of rated control voltage) up to 1,05 x U_s (max. value of rated control voltage)

Spare Coils for AC operated contactors



For Contactors		Type	Coil voltage ¹⁾	Order No	Pack pcs.	Weight kg/pc.
		4.24	24V 50Hz			
		4.42	42V 50Hz			
		4.110	110V 50Hz			
		41.180	180V 50Hz, 220V 60Hz			
		4.230	220-240V 50Hz			
		4.400	380-415V 50Hz			
		↓				
K3-07N.. bis K3-22N..		K10N/4.24EUR		LA 190 123N	1	0,053
K3-07N.. bis K3-22N..		K10N/4.230EUR		LA 190 125N	1	0,053
K3-07.. bis K3-22..		K3-6/4.24		LA 190 123	10	0,040
K3-07.. bis K3-22..		K3-6/4.230		LA 190 125	10	0,040
K3-07.. bis K3-22..		K3-6/4.400		LA 190 121	10	0,040
K2-07.. bis K2-16..		K6/4.24		LA 190 110	10	0,040
K2-07.. bis K2-16..		K6/4.230		LA 190 111	10	0,040
K2-07.. bis K2-16..		K6/4.400		LA 190 112	10	0,040
K3-24.. bis K3-40..		K24/4.24		LA 190 126	1	0,085
K3-24.. bis K3-40..		K24/4.230		LA 190 128	1	0,085
K2-23.. bis K2-37..		K23/4.230		LA 190 118	1	0,085
K2-23.. bis K2-37..		K23/4.400		LA 190 119	1	0,085
K3-50.. bis K3-74..., K2-45..., K2-60..		K45/4.230		LA 190 203	1	0,110
K65..., K85..		K85/...			1	0,215
K110..		K110/...			1	0,220

For Contactors		Type	Coil voltage ¹⁾	Order No	pcs.	kg/pc.
		4.110	110V 50Hz, 110-115V 60Hz			
		4.230	220-230V 50Hz			
		4.400	380-400V 50Hz			
		▼				
K3-150..., K3-175..		K3-175/...			1	0,38
K3-1000..., K3-1200..	without feeder group ²⁾	K3-1200/...			1	3,12

Spare Coils for AC and DC operated contactors



For Contactors		Type	Coil voltage ¹⁾	Order No	pcs.	kg/pc.
		4.24	24V 50/60Hz / 24V DC			
		4.110	110-120V 50/60Hz / 110V DC			
		4.230	220-240V 50/60Hz / 220V DC			
		4.400	380-415V 50/60Hz			
		▼				
K3-90..., K3-115..	with feeder group	K3-115/...			1	
K3-151..., K3-176..	with feeder group	K3-176/...			1	0,68
K3-210..., K3-316..	with feeder group	K3-260/...			1	0,68
K3-450..., K3-550..	without feeder group ²⁾	K3-550/...			1	1,63
K3-700..., K3-860..	without feeder group ²⁾	K3-860/...			1	2,44

Spare Feeder Groups for contactors K3-200.. to K3-860..



For Contactors		for coils	Type	Coil voltage ¹⁾	Order No	Pack pcs.	Weight kg/pc.
			110	110-120V 50/60Hz / 110V DC			
			230	220-240V 50/60Hz / 220V DC			
			400	380-415V 50/60Hz			
			↓				
K3-450..., K3-550..		K3-550/4...	K3-550/FG...		1	0,33	
K3-700..., K3-860..		K3-860/4..	K3-860/FG...		1	0,54	

1) Coil voltage range and non-standard coil voltages see page 39

2) In case of changing control voltage, change coil and feeder group too

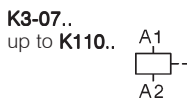
Spare Coils for DC operated contactors



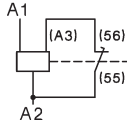
Aux. Contact Block for double winding coil		Type	Coil voltage ¹⁾	Order No	Pack pcs.	Weight kg/pc.
		47.24	24V DC			
		47.110	110V DC			
		47.220	220V DC			
For Contactors						
K3-07N..= bis K3-22N..=	HN01U	K10N/...			1	0,052
K3-07..= bis K3-22..=	HN01U	K3-6/...			1	0,042
K2-07..= bis K2-16..=	HN01U	K6/...			1	0,042
K3-24..= bis K3-40..=	HN01X	K24/...			1	0,090
K2-23..= bis K2-37..=	HN01X	K23/...			1	0,090
K3-50..= bis K3-74..=, K2-45..=, K2-60..=	HN01Z	K45/...			1	0,115
K65..=, K85..=	-	K85/...			1	0,220
K110..=	-	K110/...			1	0,225
For Contactors						
		43.110	110V DC			
		43.220	220V DC			
K3-1000..=, K3-1200..= without feeder group ²⁾		K3-1200/...			1	3,12

Wiring Diagrams for Coil Circuit

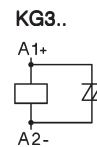
AC operated,



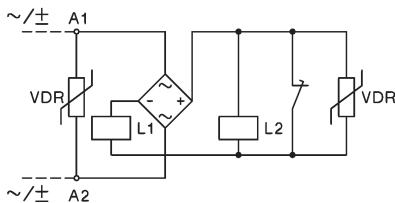
DC operated with double winding coil
K3-07..=
up to **K3-22..=**



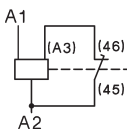
DC operated



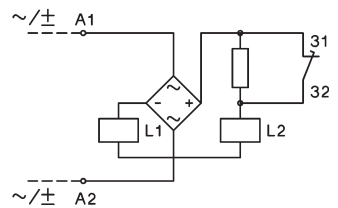
AC and DC operated with double winding coil
K3-90A00, K3-115A00
K3-151A00, K3-176A00
K3-210A00 to K3-316A00



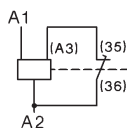
K3-24..=
to
K3-74..=



AC and DC operated with series resistor
K3-200A21
K3-315A21

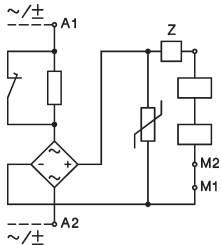


K85..=
K110..=



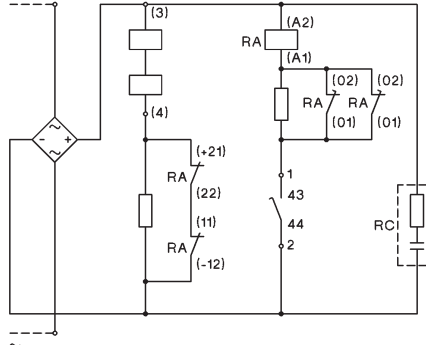
AC and DC operated with series resistor

K3-450.. up to **K3-860..**



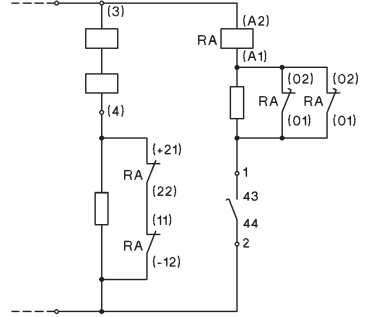
DC operated with DC coil

K3-1000.., K3-1200..



AC operated with DC coil

K3-1000.., K3-1200..



Adjustable dropout operating time for K3-450.. to K3-860..
150-200ms: Wiring see above (delivery standard)
500-1000ms: Jumper device "Z"
approx. 20ms: Special wiring see package folder

Contactors K3-1000.., K3-1200..
For control voltages up to 125V
NC contacts 21-22 and 11-12 are connected parallel,
for higher voltages contacts are connected in series (delivery standard).

1) Other coil voltages on request
2) In case of changing control voltage, change coil and feeder group too