

## Electromagnetic mini contactors of MKI series

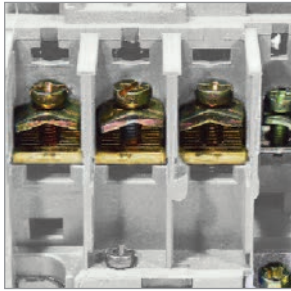
Mini contactors of MKI series are intended for use in control circuits of various loads supplied by AC voltage up to 660 V, 50 Hz. The mini contactors allow for remote switching of power circuits of application categories AC3 (control of motors up to 5 kW) and AC1 (control of heaters). The mini contactors enclosures ensure degree of protection IP20 according to GOST 14254. The climatic version and application category of the contactors is UHL4 according to GOST 15150.



### Advantages

- Wide range of control coils rated currents.
- Minimum size
- Can be mounted on 35-mm DIN-rail and installation panel.

## Design features



Terminal clamps with hardened plate washers ensure secure fixing of conductors.



There are two ways to install the contactors:  
 – quick installation on 35-mm DIN rail;  
 – installation with screws on a mounting panel.

## Products' range



Description	Rated operating current, A (AC-3)	Rated control coil voltage, V	No. and type of aux. contacts	Qty in transport package, pcs.	Product ID
MKI-10610 mini contactor 6 A 110 V/ AC3, 1 NO IEK	6A	110	1 NO	100	KMM11-006-110-10
MKI-10610 mini contactor 6 A 230 V/ AC3, 1 NO IEK	6A	230	1 NO	100	KMM11-006-230-10
MKI-10610 mini contactor 6 A 24 V/ AC3, 1 NO IEK	6A	24	1 NO	100	KMM11-006-024-10
MKI-10610 mini contactor 6 A 36 V/ AC3, 1 NO IEK	6A	36	1 NO	100	KMM11-006-036-10
MKI-10610 mini contactor 6 A 400 V/ AC3, 1 NO IEK	6A	400	1 NO	100	KMM11-006-400-10
MKI-10611 mini contactor 6 A 110 V/ AC3, 1 NC IEK	6A	110	1 NC	100	KMM11-006-110-01
MKI-10611 mini contactor 6 A 230 V/ AC3, 1 NC IEK	6A	230	1 NC	100	KMM11-006-230-01
MKI-10611 mini contactor 6 A 400 V/ AC3, 1 NC IEK	6A	400	1 NC	100	KMM11-006-400-01
MKI-10910 mini contactor 9 A 110 V/ AC3, 1 NO IEK	9A	110	1 NO	100	KMM11-009-110-10
MKI-10910 mini contactor 9 A 230 V/ AC3, 1 NO IEK	9A	230	1 NO	100	KMM11-009-230-10
MKI-10910 mini contactor 9 A 24 V/ AC3, 1 NO IEK	9A	24	1 NO	100	KMM11-009-024-10
MKI-10910 mini contactor 9 A 36 V/ AC3, 1 NO IEK	9A	36	1 NO	100	KMM11-009-036-10
MKI-10910 mini contactor 9 A 400 V/ AC3, 1 NO IEK	9A	400	1 NO	100	KMM11-009-400-10
MKI-10911 mini contactor 9 A 110 V/ AC3, 1 NC IEK	9A	110	1 NC	100	KMM11-009-110-01
MKI-10911 mini contactor 9 A 230 V/ AC3, 1 NC IEK	9A	230	1 NC	100	KMM11-009-230-01
MKI-10911 mini contactor 9 A 400 V/ AC3, 1 NC IEK	9A	400	1 NC	100	KMM11-009-400-01
MKI-11210 mini contactor 12 A 110 V/ AC3, 1 NO IEK	12A	110	1 NO	100	KMM11-012-110-10
MKI-11210 mini contactor 12 A 230 V/ AC3, 1 NO IEK	12A	230	1 NO	100	KMM11-012-230-10
MKI-11210 mini contactor 12 A 24 V/ AC3, 1 NO IEK	12A	24	1 NO	100	KMM11-012-024-10
MKI-11210 mini contactor 12 A 36 V/ AC3, 1 NO IEK	12A	36	1 NO	100	KMM11-012-036-10
MKI-11210 mini contactor 12 A 400 V/ AC3, 1 NO IEK	12A	400	1 NO	100	KMM11-012-400-10
MKI-11211 mini contactor 12 A 110 V/ AC3, 1 NC IEK	12A	110	1 NC	100	KMM11-012-110-01
MKI-11211 mini contactor 12 A 230 V/ AC3, 1 NC IEK	12A	230	1 NC	100	KMM11-012-230-01
MKI-11211 mini contactor 12 A 400 V/ AC3, 1 NC IEK	12A	400	1 NC	100	KMM11-012-400-01
MKI-11610 mini contactor 16 A 230 V/ AC3, 1 NO IEK	16A	230	1 NO	100	KMM11-016-230-10
MKI-11611 mini contactor 16 A 230 V/ AC3, 1 NC IEK	16A	230	1 NC	100	KMM11-016-230-01
MKI-11610 mini contactor 16 A 400 V/ AC3, 1 NO IEK	16A	400	1 NO	100	KMM11-016-400-10
MKI-11611 mini contactor 16 A 400 V/ AC3, 1 NC IEK	16A	400	1 NC	100	KMM11-016-400-01

## Technical characteristics of MKI electromagnetic mini contactors

Parameter	MKI-1061(0/1)	MKI-1091(0/1)	MKI-1121(0/1)	MKI-1161(0/1)
Rated operating AC voltage $U_e$ , V			230; 400; 690	
Rated insulation voltage $U_i$ , V			690	
Rated impulse voltage $U_{imp}$ , kV			6	
Conditional thermal current $I_{th}$ ( $t^\circ \leq 40^\circ$ ), application category AC-1, A			20	
Conditional short-circuit current $I_{nc}$ , A			1000	
Insulation resistance, MOhm			>10	
Rated operating current $I_e$ , application category AC-15, A	230 V		6	
	400 V		3	
	690 V		1	
Rated operating current $I_e$ , application category AC-3 ( $U_e \leq 400$ V), A		6	9	12
Rated power for AC-3, kW	230 V	1,5	2,2	3
	400 V	2,2	4	5,5
	690 V	3	4	4
Maximum short-time load ( $t \leq 0,5$ s), A		60	90	120
Overcurrent protection: fuse gG, A		8	10	20
Dissipated power at $I_e$ , W	AC-3	0,11	0,20	0,36
	AC-1	1,25	1,25	1,25

## Cross-section area of conductors connected to main circuits of contactors and weight

Parameter	Value
Flexible cable without terminal, mm <sup>2</sup>	1,0 ÷ 4,0
Rigid cable without terminal, mm <sup>2</sup>	1,5 ÷ 4,0
Tightening torque, N·m	0,8
Contactors weight, kg	0,2

## Technical characteristics of control circuit of MKI electromagnetic mini contactors

Parameter	Value
Rated voltage $U_n$ , V	AC up to 690 DC up to 440
Rated insulation voltage $U_i$ , V	690
Short-time thermal current ( $t^\circ \leq 40^\circ$ ) $I_{th}$ , A	10
Overcurrent protection: fuse gG, A	10
Maximum short-time load ( $t \leq 1,5$ c), A	100
Insulation resistance, MOhm	>10

## Rated and limit values of parameters of contactor main circuit

Наименование параметра	MKI-1061(0/1)	MKI-1091(0/1)	MKI-1121(0/1)	MKI-1161(0/1)
Rated operating AC voltage $U_e$ , V			24, 36, 110, 230, 400	
Control voltage ranges			pickup (0,85 ÷ 1,1)U <sub>c</sub> release (0,2 ÷ 0,75)U <sub>c</sub>	
Coil power consumption at $U_c$ , VA			pickup 32 hold 6	
Operation time, ms			closing 10-20 opening 35-45	
Switching endurance, mln. of cycles			1	
Mechanical endurance, mln. of cycles			12	
Dissipated power, W			3	

## Overall and installation dimensions of contactors

