

# Module contactors KM

KM type module contactors are intended for use in AC networks of 400 V (50 Hz) and serve for commutating low inductance loads with rated currents up to 63 A. They are applied for automation and control of various technological processes including that of lighting, ventilation and conditioning systems.



### Advantages

- Wide range of contactors with 2 or 4 normally open contacts.
- Size compatibility with modular series devices .
- Independent control coil supply – AC or DC (excluding KM20).
- Visual main contacts state indication.
- Lowered electromagnetic hum due to using a DC magnetic system.

- High mechanical and electrical wear resistance.
- Energy saving, holding current is 5 times less than operating current.
- Fast response (turning on – 20 ms, shutdown – 30 ms).
- Bridge contacts provide double break at main contacts trip.
- Low noise level.
- Correspondence to EN 61095
- Warranty period – 5 years.

## Design Features



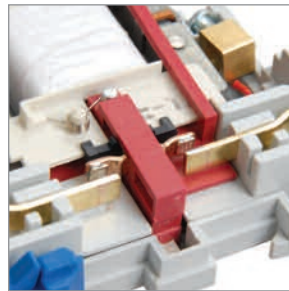
Visual main contacts state indication.



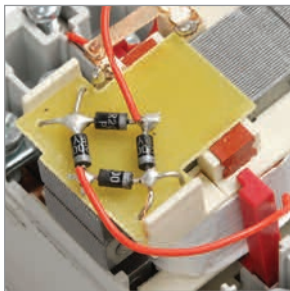
Connection terminals provide for connecting wires from 1 to 25 mm<sup>2</sup> in cross-section.



Size compatibility allows installing the contactor into a conventional board with any modular series devices.



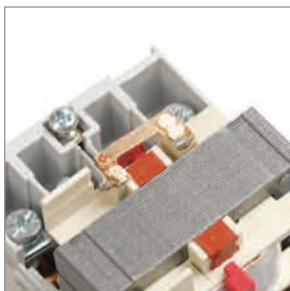
Bridge contact ensures high electric insulation characteristics.



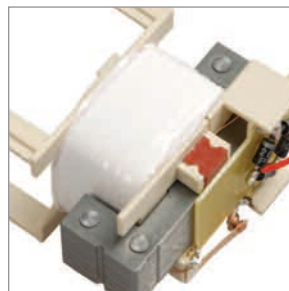
Rectifier bridge in the control coil circuit provides for controlling the contactor from 220 V AC networks.



Contacts made of silver-containing composite allow boosting their wear-resistance, service life and lowering losses and transient resistance.



Additional normally closed contact installed in the control coil circuit of KM25-40, KM40-40 and KM63-40 permits 5 times lowering of the holding current as compared to the operating one.



Increased reliability due to use of the polyconductor for the coil block connection.



## Range

	Name	Rated operating current, V	Cables max. size, mm <sup>2</sup>	Package amount, pcs multiple	pcs transport	Product ID
	KM20-11	230	10	8	120	MKK10-20-11
	KM20-20	230	10	8	120	MKK10-20-20
	KM40-11	230	25	4	60	MKK10-40-11
	KM40-20	230	25	4	60	MKK10-40-20
	KM63-11	230	25	4	60	MKK10-63-11
	KM63-20	230	25	4	60	MKK10-63-20
	KM20-22	400	10	4	60	MKK20-20-22
	KM20-40	400	10	4	60	MKK20-20-40
	KM25-22	400	10	4	60	MKK20-25-22
	KM25-40	400	25	4	60	MKK20-25-40
	KM40-40	400	25	4	60	MKK20-40-40
	KM63-40	400	25	4	60	MKK20-63-40

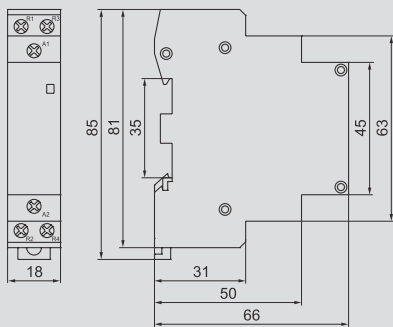
## Technical Features

Parameter	KM20-20	KM20-11	KM40-11	KM40-20	KM63-11	KM63-20	KM20-22	KM20-40	KM25-22	KM25-40	KM40-40	KM63-40
Usage category	AC-1, AC-7a, AC-7b	AC-1, AC-7a, AC-7b	AC-1, AC-7a									
Number of poles	2						4					
Rated operating voltage $U_e$ , V	230						400					
Rated frequency, Hz	50											
Rated insulation voltage $U_i$ , V	500											
Rated operating current $I_e$ , A	AC-1	20	40	63	20	25	40	63				
	AC-7a	20	40	63	20	25	40	63				
	AC-7b	9	–	–	–	–	–	–				
Rated thermal current $I_{th}$ , A	20	40	63	20	25	40	63					
Power dissipation, W/pole	1	3	6	1	1,2	3	6					
Rated control coil voltage $U_c$ , V~	230											
Power consumption of control coil in pull-in mode, not more	14		37				37		88		88	
	4,5		5				5		3,5		3,5	
Control voltage ranges	closure	195...253										
	opening	46...172										
Rated conditional short-circuit current, A	3000											
Maximum cross-section of connected single-core wires, mm <sup>2</sup>	10	25				10	10	25	25			
Mechanical endurance, switching cycles	10 <sup>6</sup>											
Electrical endurance, switching cycles	0,15 · 10 <sup>6</sup>											
Degree of protection	IP20											
Installation type	35 mm wide DIN-rail											

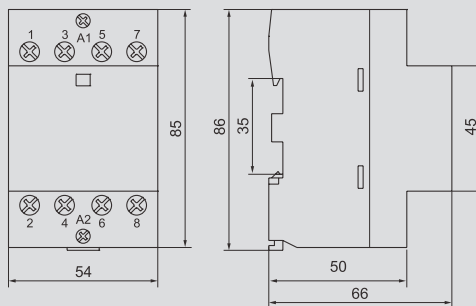
<sup>(1)</sup> – A rectifying bridge is installed in the control coil that enables use of the contactors in 220 VDC circuits.

## Overall Dimensions

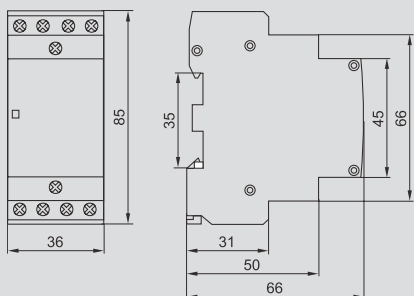
KM20-11, KM20-20



KM25-40, KM40-40, KM63-40



KM20-22, KM25-22, KM20-40



KM63-20, KM63-11, KM40-20, KM40-11

