

# Monitoring and control relay

## REK auxiliary relays

REK77 and REK78 auxiliary relays of modular series are intended for transmitting control commands to executive elements by means of commutating their electrical circuits with the help of changeover contacts. Relays are connected to receptacle modular sockets RRM77 and RRM78 installed on a 35 mm DIN-rail.

Sockets host lead terminals of changeover contacts and coils. Relays are made using silver-containing contacts.



### Advantages

- Higher value of contacts rated current as compared to RP-21 auxiliary relay provides for using REK in circuits up to 10 A
- Any operating position.
- Minimized dimensions of REK series relays provide possibility of more rational device position on the mounting surfaces.
- Applying silver-containing contacts helps boosting durability.
- Relay can be completed with modular receptacle sockets for DIN-rail mounting and screw fastening.
- Indication shown the relay status.

## Selection Guide

REK77 auxiliary relay of modular series	REK77/3 REK77/3 with indication	REK77/4 REK77/4 with indication	REK78/3 REK78/3 with indication	REK78/4 REK78/4 with indication
Rated contact current $I_n$ , A	10	10	5	3
Number of changeover contact groups	3	4	3	4
Rated control coil voltage $U_c$ , V	AC 12; 24; 230 DC 12; 24	12; 24; 230 12; 24	12; 24; 230 12; 24	12; 24; 230 12; 24
Connected socket type	RRM77/3	RRM77/4	RRM78/3	RRM78/4

## Range

	Name	Rated contact current $I_n$ , A	Rated control coil voltage $U_c$ , B	Amount		Product ID
				in package	in transp. box	
	RRM77/3 socket for modular REK77/3 IEK			20	200	RRP10D-RRM-3
	RRM77/4 socket for modular REK77/4 IEK			20	200	RRP10D-RRM-4
	REK77/3 relay 10A 12 V DC IEK	10	12	20	500	RRP10-3-10-012D
	REK77/3 relay 10A 12 V AC IEK	10	12	20	500	RRP10-3-10-012A
	REK77/3 relay 10A 24 V DC IEK	10	24	20	500	RRP10-3-10-024D
	REK77/3 relay 10A 24 V AC IEK	10	24	20	500	RRP10-3-10-024A
	REK77/3 relay 10A 230 V AC IEK	10	230	20	500	RRP10-3-10-220A
	REK77/3 relay (LY3) with indication 10 A 12 V DC IEK	10	12	20	500	RRP10-3-10-012D-LED
	REK77/3 relay (LY3) with indication 10 A 12 V AC IEK	10	12	20	500	RRP10-3-10-012A-LED
	REK77/3 relay (LY3) with indication 10 A 220 V AC IEK	10	230	20	500	RRP10-3-10-220A-LED
	REK77/3 relay (LY3) with indication 10 A 24 V DC IEK	10	24	20	500	RRP10-3-10-024D-LED
	REK77/3 relay (LY3) with indication 10 A 24 V AC IEK	10	24	20	500	RRP10-3-10-024A-LED
	REK77/4 relay 10 A 12 V DC IEK	10	12	20	300	RRP10-4-10-012D
	REK77/4 relay 10 A 12 V AC IEK	10	12	20	300	RRP10-4-10-012A
	REK77/4 relay 10 A 24 V DC IEK	10	24	20	300	RRP10-4-10-024D
	REK77/4 relay 10 A 24 V AC IEK	10	24	20	300	RRP10-4-10-024A
	REK77/4 relay 10 A 230 V AC IEK	10	230	20	300	RRP10-4-10-220A
	REK77/4 (LY4) with indication 10 A 12 V DC IEK	10	12	20	300	RRP10-4-10-012D-LED
	REK77/4 (LY4) with indication 10 A 12 V AC IEK	10	12	20	300	RRP10-4-10-012A-LED
	REK77/4 (LY4) with indication 10 A 220 V AC IEK	10	230	20	300	RRP10-4-10-220A-LED
	REK77/4 (LY4) with indication 10 A 24 V DC IEK	10	24	20	300	RRP10-4-10-024D-LED
	REK77/4 (LY4) with indication 10 A 24 V AC IEK	10	24	20	300	RRP10-4-10-024A-LED

## Main electrical and mechanical features of modular series auxiliary relays of REK type

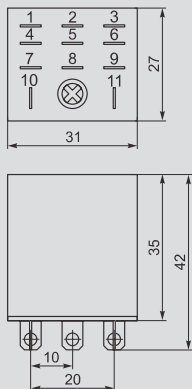
Features		REK77/3 REK77/3 with ind.	REK77/4 REK77/4 with ind.	REK78/3 REK78/3 with ind.	REK78/4 REK78/4 with ind.
Rated contact current $I_n$ , A		10	10	5	3
Rated voltage of contacts circuit, V	AC	230	230	230	230
	DC	24	24	24	24
Rated control coil voltage $U_c$ , V	AC	12; 24; 230	12; 24; 230	12; 24; 230	12; 24; 230
	DC	12; 24	12; 24	12; 24	12; 24
Current consumed by the coil, mA	AC	230 V	8,7	10,9	5,2
		24 V	83,3	104,2	50
	DC	24 V	58,3	62,5	37,5
		12 V	116,7	125	75
Number of changeover contact groups		3	4	3	4
Contact resistance, mΩ		50	50	50	50
Insulation resistance, mΩ		100	100	100	100
Electrical wear-resistance, min. power cycles		$10^5$	$10^5$	$10^5$	$10^5$
Mechanical wear-resistance, min. power cycles		$10^7$	$10^7$	$10^7$	$10^7$
Protection degree		IP40	IP40	IP40	IP40

## Technical features of RRM receptacle modular sockets

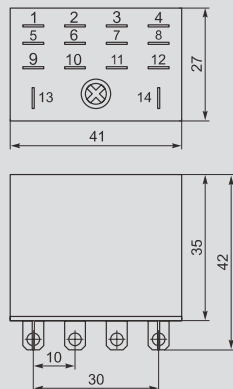
Features		RRM77/3	RRM77/4	RRM78/3	RRM78/4
Number of contacts		11	14	11	14
Rated contact current $I_n$ , A		10	10	5	3
Rated operating voltage, V	AC	230	230	230	230
	DC	24	24	24	24
Electrical wear-resistance, min. power cycles		$10^5$	$10^5$	$10^5$	$10^5$
Mechanical wear-resistance, min. power cycles		$10^7$	$10^7$	$10^7$	$10^7$
Protection degree		IP20	IP20	IP20	IP20
Connected cables size, mm <sup>2</sup>		0,75 ÷ 2,5	0,75 ÷ 2,5	0,5 ÷ 1,5	0,5 ÷ 1,5

## Overall dimensions of REK series auxiliary relays

REK77/3  
REK77/3 with ind.



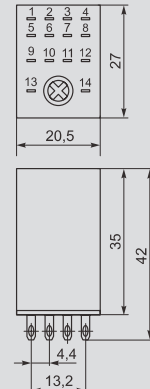
REK77/4  
REK77/4 with ind.



REK78/3  
REK78/3 with ind.



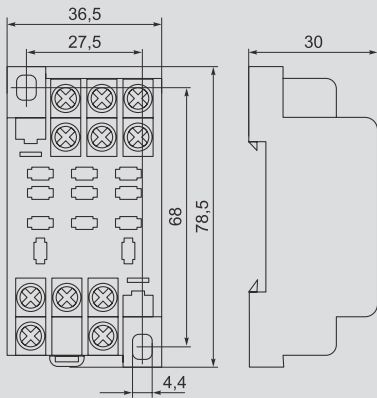
REK78/4  
REK78/4 with ind.



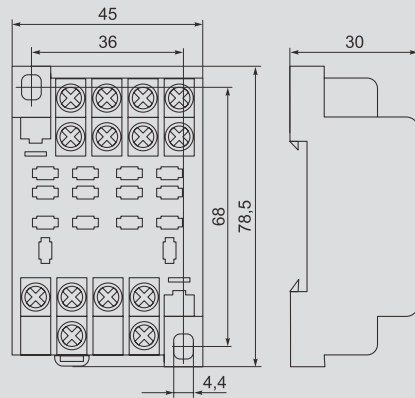


### Overall dimensions of RRM77 and RRM78 receptacle modular sockets

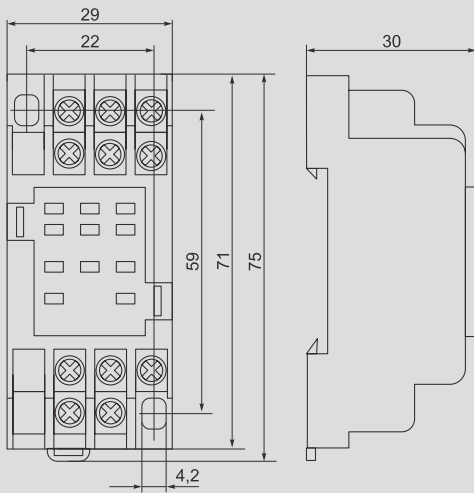
RRM77/3



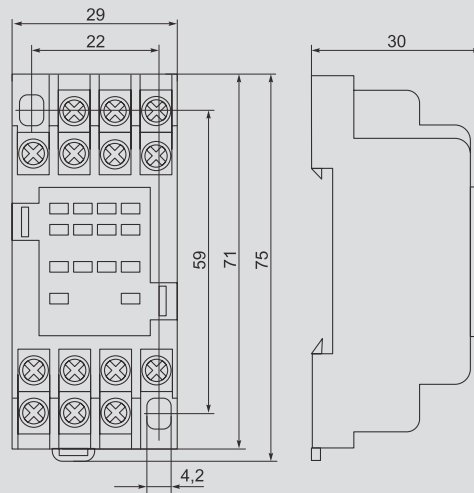
RRM77/4



RRM78/3

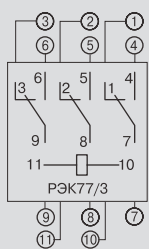


RRM78/4

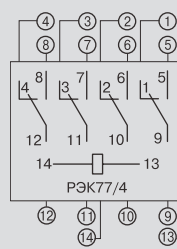


### Connection diagrams of RRM77 and RRM78 receptacle modular sockets

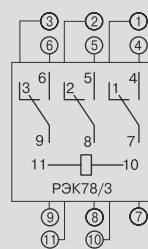
RRM77/3



RRM77/4



RRM78/3



RRM78/4

