

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.



	Name	Rated contact current I _n , A	Rated control coil voltage U _c , B	Amount in package	Amount in transp. box	Product ID
	RRM78/3 socket for modular REK78/3 IEK			20	200	RRP20D-RRM-3
	RRM78/4 socket for modular REK78/4 IEK			20	200	RRP20D-RRM-4
	REK78/3 relay 5 A 12 V DC IEK	5	12	20	500	RRP20-3-05-012D
	REK78/3 relay 5 A 12 V AC IEK	5	12	20	500	RRP20-3-05-012A
	REK78/3 relay 5 A 24 V DC IEK	5	24	20	500	RRP20-3-05-024D
	REK78/3 relay 5 A 24 V AC IEK	5	24	20	500	RRP20-3-05-024A
	REK78/3 relay 5 A 230 V AC IEK	5	230	20	500	RRP20-3-05-220A
	REK78/3 relay (MY3) with indication 5 A 12 V DC IEK	5	12	20	500	RRP20-3-05-012D-LED
	REK78/3 relay (MY3) with indication 5 A 12 V AC IEK	5	12	20	500	RRP20-3-05-012A-LED
	REK78/3 relay (MY3) with indication 5 A 220 V AC IEK	5	230	20	500	RRP20-3-05-220A-LED
	REK78/3 relay (MY3) with indication 5 A 24 V DC IEK	5	24	20	500	RRP20-3-05-024D-LED
	REK78/3 relay (MY3) with indication 5 A 24 V AC IEK	5	24	20	500	RRP20-3-05-024A-LED
	REK78/4 relay 3 A 12 V DC IEK	3	12	20	500	RRP20-4-03-012D
	REK78/4 relay 3 A 12 V AC IEK	3	12	20	500	RRP20-4-03-012A
	REK78/4 relay 3 A 24 V DC IEK	3	24	20	500	RRP20-4-03-024D
	REK78/4 relay 3 A 24 V AC IEK	3	24	20	500	RRP20-4-03-024A
	REK78/4 relay 3 A 230 V AC IEK	3	230	20	500	RRP20-4-03-220A
	REK78/4 (MY4) with indication 3 A 12 V DC IEK	3	12	20	500	RRP20-4-03-012D-LED
	REK78/4 (MY4) with indication 3 A 12 V AC IEK	3	12	20	500	RRP20-4-03-012A-LED
	REK78/4 (MY4) with indication 3 A 220 V AC IEK	3	230	20	500	RRP20-4-03-220A-LED
	REK78/4 (MY4) with indication 3 A 24 V DC IEK	3	24	20	500	RRP20-4-03-024D-LED
	REK78/4 (MY4) with indication 3 A 24 V AC IEK	3	24	20	500	RRP20-4-03-024A-LED

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

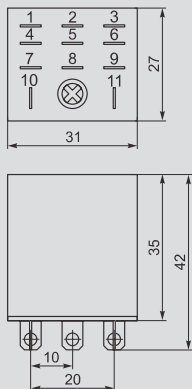
Features		REK77/3 REK77/3 with ind.	REK77/4 REK77/4 with ind.	REK78/3 REK78/3 with ind.	REK78/4 REK78/4 with ind.
Rated contact current I_n , A		10	10	5	3
Rated voltage of contacts circuit, V	AC	230	230	230	230
	DC	24	24	24	24
Rated control coil voltage U_c , V	AC	12; 24; 230	12; 24; 230	12; 24; 230	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

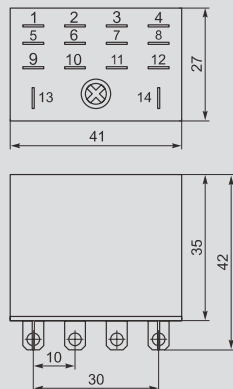
Features		RRM77/3	RRM77/4	RRM78/3	RRM78/4
Number of contacts		11	14	11	14
Rated contact current I_n , A		10	10	5	3
Rated operating voltage, V	AC	230	230	230	230
	DC	24	24	24	24
Electrical wear-resistance, min. power cycles		10^5	10^5	10^5	10^5
Mechanical wear-resistance, min. power cycles		10^7	10^7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

Overall dimensions of REK series auxiliary relays

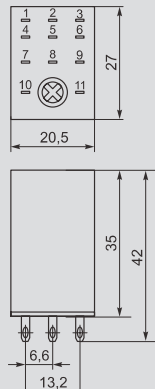
REK77/3
REK77/3 with ind.



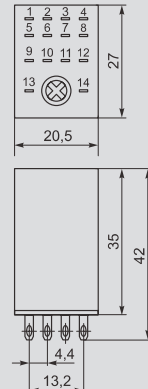
REK77/4
REK77/4 with ind.



REK78/3
REK78/3 with ind.



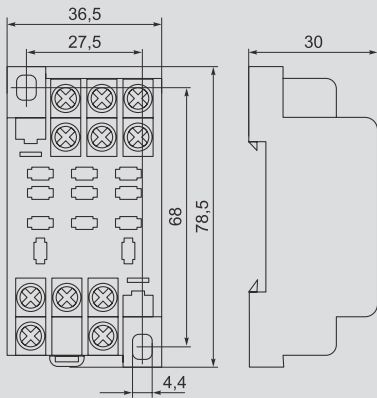
REK78/4
REK78/4 with ind.



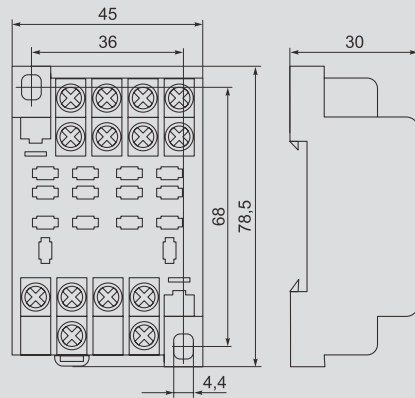


Overall dimensions of RRM77 and RRM78 receptacle modular sockets

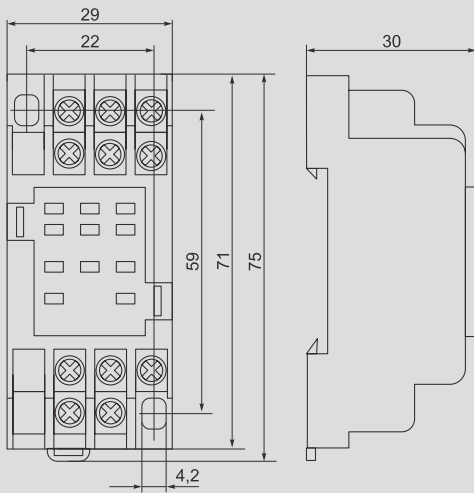
RRM77/3



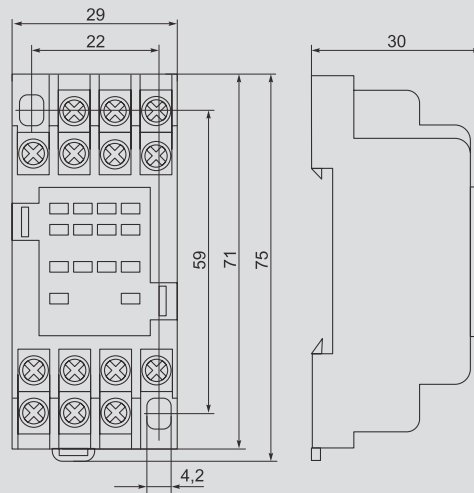
RRM77/4



RRM78/3

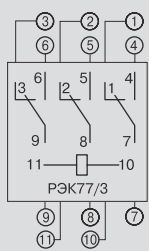


RRM78/4

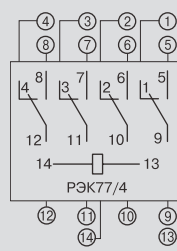


Connection diagrams of RRM77 and RRM78 receptacle modular sockets

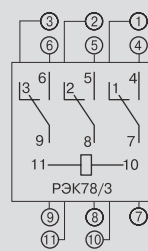
RRM77/3



RRM77/4



RRM78/3



RRM78/4

