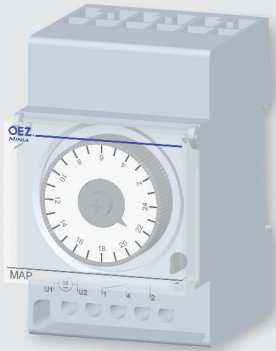


TIMERS



Mechanical program timer

- For real time load switching up to 16 A / 250V.
- Daily program.
- Switching time setting: by plastic plates along the perimeter of the dial.
- Shortest switching interval: 30 min.
- Change-over switch automatic run / permanent operation / permanent off.
- Run reserve: 100 hours.

Design	Arrangement of contacts ¹⁾	Type	Product code	Number of modules	Weight [kg]	Package [pcs]
standard	001	MAP-16-001-A230	36879	3	0.175	1
mini	100	MAP-16-100-A230-MINI	36880	1	0.1	1

¹⁾Each digit indicates successively the number of make, break and break-make contacts



Digital program timer

- For switching of load of max. 16 A / 250V a.c. in real time.
- Weekly and daily program.
- Switching time setting: by push-buttons on the front panel of the device.
- Shortest switching interval: 1 s.
- Change-over switch automatic run / permanent operation / permanent off.
- Run reserve: 5 years from the manufacture date.





Number of channels	Arrangement of contacts ¹⁾	Type	Product code	Number of modules	Weight [kg]	Package [pcs]
1	001	MAR-16-001-A230	36881	2	0.165	1
2	002	MAR-16-002-A230	36882	2	0.189	1

¹⁾Each digit indicates successively the number of make, break and break-make contacts



TIMERS

Specifications

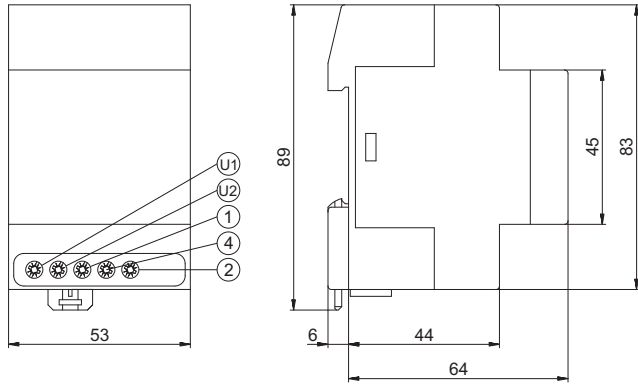
Type		MAP-16-001-A230	MAP-16-100-A230-MINI	MAR-16-001-A230	MAR-16-002-A230
Approval marks					
Main circuit (contact)					
Arrangement of contacts ¹⁾		001	100	001	002
Rated operating voltage	U_e	250 V a.c.	250 V a.c.	250 V a.c.	250 V a.c.
Rated current	I_e	16 A	16 A	16 A	16 A
Switched power	AC-1	3 600 W	3 600 W	3 680 W	3 680 W
	AC-3	1 000 W	1 000 W	2 000 W	2 000 W
	AC-5a uncompensated	1 400 VA	1 400 VA	2000 VA	2000 VA
	AC-5a compensated	58 W / 7 μ F	58 W / 7 μ F	600 W / 70 μ F	600 W / 70 μ F
	AC-5b	1 000 W	1 000 W	2 000 W	2 000 W
Min. switched power		4 V / 1 mA	4 V / 1 mA	12 V / 100 mA	12 V / 100 mA
Rated frequency	f_n	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Mechanical endurance		20 000 000 operating cycles	20 000 000 operating cycles	10 000 000 operating cycles	10 000 000 operating cycles
Electrical endurance		100 000 operating cycles	100 000 operating cycles	100 000 operating cycles	100 000 operating cycles
Connection – conductor rigid		1.5 \div 4 mm ²	1.5 \div 4 mm ²	1.5 \div 4 mm ²	1.5 \div 4 mm ²
Connection – conductor flexible		1.5 \div 2.5 mm ²	1.5 \div 2.5 mm ²	1.5 \div 2.5 mm ²	1.5 \div 2.5 mm ²
Torque		1.2 Nm	1.2 Nm	1.2 Nm	1.2 Nm
Time circuit					
Min. switching interval		30 min	15 min	1 s	1 s
Min. time unit		15 min	15 min	1 s	1 s
Program		daily	daily	weekly	weekly
Automatic switch sumertime / wintertime		-	-	yes	yes
Number of memory places		-	-	56	28 on each channel
Pre-set blocks in the week		-	-	Mo-Su, Mo-Fr, Sa-Su, individual	Mo-Su, Mo-Fr, Sa-Su, individual
Run accuracy		\pm 2.5 s / day	\pm 2.5 s / day	\pm 0.1 s / day	\pm 0.1 s / day
Switching accuracy		\pm 5min	\pm 5min	-	-
Run reserve		100 hod	100 hod	5 years	5 years
Battery type		NiMH	NiMH	Lithium	Lithium
Battery replacement		no	no	yes	yes
Charging time		min 48 hours	min 48 hours	-	-
Supply circuit					
Rated control voltage	U_c	230 V a.c.	230 V a.c.	230 V a.c.	230 V a.c.
Operating range		85 \div 110 % U_c	85 \div 110 % U_c	85 \div 110 % U_c	85 \div 110 % U_c
Rated frequency	f_n	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Rated power loss	P_v	1 W	1 W	1 W	1.5 W
Connection – conductor rigid		1.5 \div 4 mm ²	1.5 \div 4 mm ²	1.5 \div 4 mm ²	1.5 \div 4 mm ²
Connection – conductor flexible		1.5 \div 2.5 mm ²	1.5 \div 2.5 mm ²	1.5 \div 2.5 mm ²	1.5 \div 2.5 mm ²
Torque		1.2 Nm	1.2 Nm	1.2 Nm	1.2 Nm
Ostatní údaje					
Mounting on "U" rail according to EN 60715 - type		TH 35	TH 35	TH 35	TH 35
Degree of protection		IP20	IP20	IP20	IP20
Ambient temperature		-10 \div +55 °C	-10 \div +55 °C	-20 \div +55 °C	-20 \div +55 °C
Working position		arbitrary	arbitrary	arbitrary	arbitrary

¹⁾Each digit indicates successively the number of make, break and break-make contacts

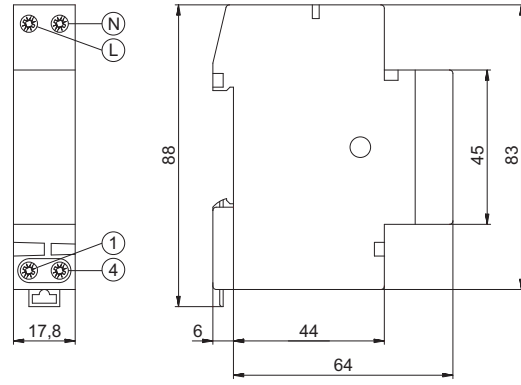
TIMERS

Dimensions

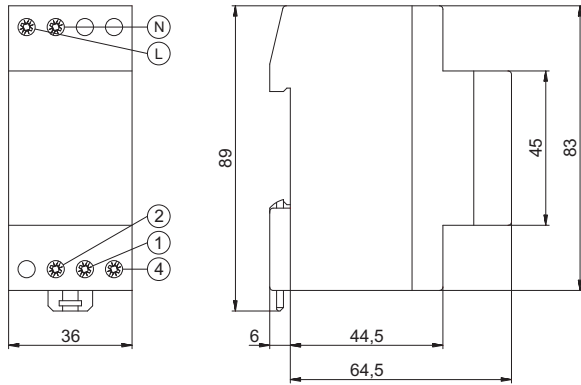
MAP-16-001-A230



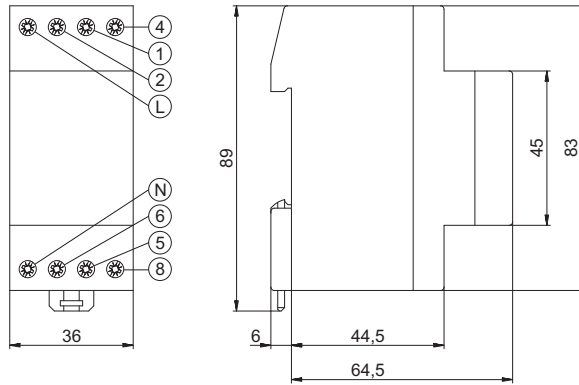
MAP-16-100-A230-MINI



MAR-16-001-A230

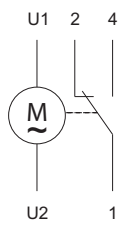


MAR-16-002-A230

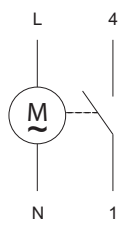


Diagram

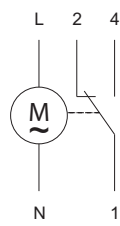
MAP-16-001-A230



MAP-16-100-A230-MINI



MAR-16-001-A230



MAR-16-002-A230

