



Modular devices







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SUMMARY OF MODELS

	Installation contactors and relays, impulse relays switch depending on applied voltage or impulse			
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Туре	RSI	RPI	MIG	MIR
l _{th} , l _e	20, 25, 32, 40, 63 A	8, 16 A	20, 32, 63 A	16 A
Arrangement of contacts	10, 11, 20, 02, 40, 31, 04	001, 002, 003	10, 11, 20, 40, 31	001
Design	mechanical	electronic	mechanical	electronic
Control	electrical + manual	electrical	electrical + manual	electrical
Noise	standard/quiet	extra quiet	quiet	extra quiet
Max. switched power") of each contact for devices with highest value of l _{th} :				
AC-1 (e.g. boilers, accumulator stoves and tanks)	13.3 kW / 230 V	3.7 kW / 230 V	13.8 kW / 230 V	3.7 kW / 230 V
AC-5a (e.g. parallel compensated fluorescent tubes)	5 kVA / 230 V	0.4 kVA / 230 V	5 kVA / 230 V	0.4 kVA / 230 V
AC-5b (e.g. incandescent lamps)	5 kW / 230 V	1 kW / 230 V	7 kW / 230 V	0.5 kW / 230 V

*) For complete information look at specific products.

	Multiple-function time relays switch according to set function and time			
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Туре	MCR-MA	MCR-MB	MCR-TK	MQD
Rated voltage U _c	AC/DC 12 ÷ 230 V	AC/DC 12 ÷ 230 V	AC/DC 12 ÷ 230 V	AC 230 V
Arrangement of contacts	001, 003	001, 003	001	100
Operating voltage of contact	AC 250 V	AC 250 V	AC 250 V	AC 250 V
Operating current of contact	8 A	8 A	8 A	16 A
Time setting	0.1 s ÷ 100 hr	0.1 s ÷ 100 hr	0.1 s ÷ 10 day	0.5 ÷ 10 min
Function	Time relay	Time relay	Timing relays	Stair switches
	- 9 functions	- 18 functions	- adjustable duty cycle	 extension of the set time (at start of timing) subsequent extension of make time (during timing) premature switching off

STAIR SWITCHES MQD



MQD-16-100-A230

Stair switches MQD-..

- Intended for building and similar installations.
- Mainly for control of lighting circuits from more points in a corridor, on stairs, in the whole house etc.
- By repeated pressing of the control push-button, the set time is extended as many times as the push-button has been pressed.
- Pressing of the push-button longer than 2 seconds enables premature switching off.
- Possibility of 3-wire or 4-wire connection.
- Easy time setting (0.5 ÷ 10 min) by the regulation disc on the front panel of the device.
- Contacts: 1 make.
- Max. 50 control push-buttons with glow lamp 1 mA.

Туре	Order	Number	Weight	Package
	code	of modules	[kg]	[pcs]
MQD-16-100-A230	0EZ:45602	1	0.115	1

Specifications

Туре			MQD-16-100-A230
Standards			EN 60669
Approval marks			C€ERI
Main circuit (contact)			
Arrangement of contacts 1)			100
Rated operating voltage	U _e		AC 250 V
Rated current	I _n	AC-1	16 A
Inductive load		cosφ 0.6	10 A
Lamp load max.			2 000 W
Max. fluorescent tube load		uncompensated	20x 58 W
		compensated in series	40 pcs 58 W
		duo-connection	2x 20 pcs 58 W
		EVG = electronic ballast	5 pcs 20 W
Min. switched voltage/current			-
Rated frequency	f _n		50/60 Hz
Connection - Cu conductor			1x 2.5 mm ² ; 2x 1.5 mm ²
Torque			1.2 Nm
Control circuit			
Rated control voltage	U,		AC 230 V
Range of control voltage			90 ÷ 100 % U _c
Rated frequency	f _n		50/60 Hz
Power loss		at idle state	0.5 W
		at timing process	1.2 W
Time setting			0.5 ÷ 10 min
Min. excitation time			50 ms
Max. excitation time ²⁾			unlimited
Max. number of push-buttons with glow	v lamp 1 m	A	100 pcs
Reset by next impulse			no
Additional extension of the set time			yes 3)
Warning before end of timing			no
Connection – conductor rigid and flexib	le		1x 2.5 mm ² ; 2x 1.5 mm ²
Torque			1.2 Nm
Other data			
Galvanic isolation			4 kV
Mounting on "U" rail according to EN 60	715 - type		TH 35
Degree of protection			IP20
Ambient temperature			-15 ÷ + 50 °C
Working position			arbitrary

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

²⁾ The device is able to withstand permanent load in control push-button locking.

³⁾ By repeated pressing of the control push-button, the set time is extended as many times as the push-button has been pressed.

Example of time setting:



Setting the values by trimmers may cause impression of wrong setting. Regulation elements have certain tolerance. Trimmer path is notionally divided into several deducted value of trimmer resistance

sections so the deducted value of trimmer resistance the defines the given section, the set value. In spite of accurate

setting of regulation element to desired value the different time setting may occur. This may happen especially when setting values at the beginning of time range. In such cases it is necessary to find the required value by turning the regulation element to the left or right.



STAIR SWITCHES MQD

Dimensions



Connection examples



Stair switch is controlled by switching of the phase conductor. This connection is used mainly in new installations.







Diagram MQD-16-100-A230



Stair switch is controlled by switching of the N-conductor. This connection is used only in old installations.

Note:

In case of blocking of the control push-button in closed position for more than 4 s, the MQD stair switches remain in closed condition continuously.



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