DATA SHEET

Article number : 09980716

time relays
RZQ 248

multifunctional time relay with long time ranges

Function

Time relays are a special design of relay for the delayed switch-on or switch-off of electrical consumers. They are therefore suitable for many tasks in automation systems such as automatic start-up control of motors or fan controls. Depending on the model, the time relays have a number of time functions, such as switch-on delay, self-reset delay with control input, switch-on with control input (RZM 128 only), switch-off with control input (RZM 128 only), switch-on delay with control input (RZM 128 only), voltage-controlled switch-on and indicator light with starting pause. Seven time ranges can be selected which have adjustment ranges from 50 ms to 100 h.

Features

1 changeover contact with a switching power of 2000 VA (8 A/250 V), Control inputs for max. cable lengths of 10 m and a min. control impulse duration of 50/100 ms (DC/AC), LEDs for indicating the supply voltage/delay time and output relay position, Time functions: switch-on delayed (E), release-delayed (R), flashing start pulse off (Bp), voltage-controlled switch-on (Wu), Time ranges: Adjustable from 50 ms to 100 h, Screw terminals even for large cross-sections, Compact design

Mounting

quick fastening to mounting rail, any installation position

Applications

Time linking and clocking of electrical consumers, e.g. lighting and motors in private, commercial and industrial buildings.

Notes

The time functions must be toggled when the power is disconnected.

Accessories

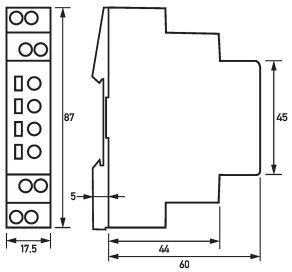
spacers DHDS

Technical data

Series	RZQ 248
Functions time-switch	switch-on delayed (E), release-delayed (R), flashing start pulse off (Bp), voltage-controlled switch-on (Wu)
Adjustment accuracy	< 5% from scale end value
Accuracy textual	± 1% from the scale value
Repeatability accuracy	0.5 %
Time range 1 s	50 ms – 1 s
Time range 10 s	500 ms – 10 s
Time range 1 min	3 s – 1 min
Time range 10 min	30 s – 10 min
Time range 1 h	3 min – 1 h
Time range 10 h	30 min – 10 h
Time range 100 h	5 h – 100 h
Time delay	0.05 s ... 360000 s
Number of (n.o, n.c.,change-over)	0|0|1
Operating voltage (AC)	24 V ... 240 V
Operating voltage (DC)	24 V ... 240 V
max. Residual ripple DC relative	10 %
Operating frequency	48 Hz ... 63 Hz
Internal consumption	max. 4 W
Rated impulse withstand voltage	4 kV
	Display (supply voltage)

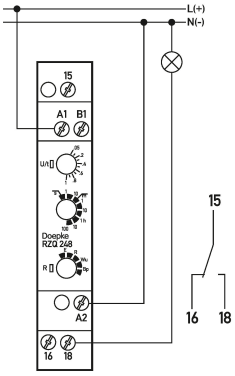
Number	1
Type	LED (green)
	Display (status output)
Number	1
Type	LED (yellow)
	control input
Rated voltage (AC)	24 V ... 240 V
Rated voltage (AC, 60 Hz)	24 V ... 240 V
Tolerance of rated voltage	-15 % ... 10 %
Rated impulse withstand voltage	4 kV
Rated frequency	48 Hz ... 63 Hz
	load circuit
Specification	relays
Rated voltage (AC)	250 V
Rated current (AC)	8 A
max. Total rated switching capacity	8 A
Rated impulse withstand voltage	4 kV
Switching frequency	max. 60 1/min (at 100 VA ohmic load, max. 6/min at 1000 VA ohmic load)
Thermal Backup-fuse OCPD	8 A
Back-up fuse (textual)	fast-acting
Overvoltage class	III
	screw-type terminal top and bottom (load circuit)
Connection C1 Maximum number of conductors per terminal	2
Cross section solid	1-wire: 0.5 mm² ... 2.5 mm²
Connecting capacity flexible	1-wire: 0.5 mm² ... 4 mm²
Cross section flexible with ferrule	0.5 mm² ... 2.5 mm²
Tightening torque	max. 1 Nm
	General data
Duty cycle	continuous operation (Duty cycle ≤ 100 %)
Recovery time	100 ms
Operating position	optional
Mechanical endurance	min. 200 · 10⁶ switching cycles
Electrical endurance	min. 2000000 switching cycles (1000 VA, ohmic load)
Storage temperature	-40 °C ... 70 °C
Ambient temperature	-25 °C ... 55 °C
Shock resistance	15 g / 11 ms Duration
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP40
sealable	false
Width	17.5 mm
Height	87 mm
Depth	65 mm
Installation depth	60 mm
Module widths	1
Weight	0.073 kg
Design requirements/Standards	EN 60715, EN 60664-1, EN 60721-3-3, EN 60068-2-27, EN 60068-2-6
Degree of pollution	2

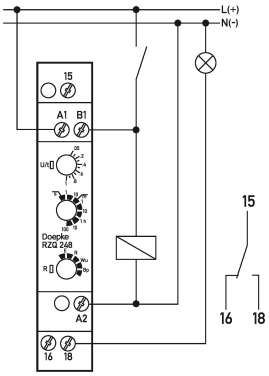
Dimensions



Dimensioned drawing time relays RZQ 248

Wiring example





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