

Таймер DZT

Технические характеристики

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Electronic Timer / Star-Delta-Timer DZT

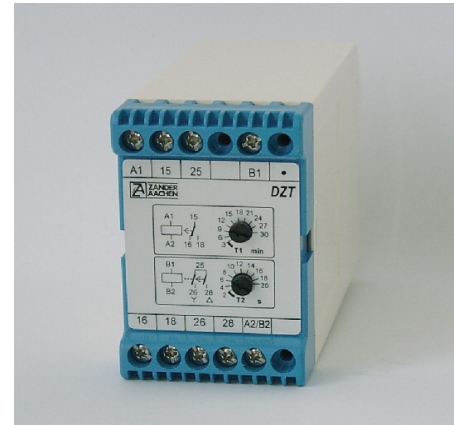
Operating Instructions

Correct Use

DZT combines two from each other independently working timer in one housing: one On-Delay-Timer, one Star-Delta-Timer. The DZT controls time depending machine and plant operations, e.g. for compressors. The integrated Star-Delta-Timer is used to activate a Star-Delta protective combination as a start-up controller for three-phase motors.

- in one housing
- On-Delay-Timer 0,2-30 min
- Additional Star-Delta-Timer
- Adjustable start-up time for star operation
- Defined dwell time between star operation and delta-mode
- Compact housing
- High switching capacity

Features



Function

DZT combines two from each other independently working timer in one housing:

1. On-Delay-Timer
2. Star-Delta-Timer.

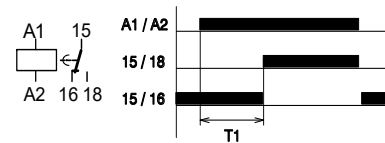
Both functions can be operated completely independently. The control of the On-Delay-Timer is activated by the connections A1 and A2, the Star-Delta Timer is activated by B1 and B2. The common N-line is attached at the combined connection A2/B2.

The compact design characterizes this device. The fitting is for DIN rail 35mm according to DIN EN 50022.

1. On-Delay-Timer (A1-A2)

The time laps begins with applying the operating voltage to A1-A2. After the adjusted time delay **T1** elapsed, the relay switches and opens the contacts 15-16 (switching from 15-16 to 15-18).

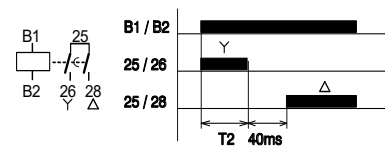
This operating condition remains as long as the operating voltage is applied to A1 and A2. With the removal of the operating voltage the contacts switches back to 15-16.



On-Delay-Timer (T1: 0.2-30 min)

2. Star-Delta-Timer (B1-B2)

After applying the operating voltage to B1-B2 the contact 25-26 (star mode) switches on firstly for the duration of the adjusted time **T2**. Afterwards the contacts 25-26 and 25-28 are open for **40ms** (dwell time). After this dwell time the contact 25-28 (delta-mode) switches on. This condition remains as long as the operating voltage is applied to B1-B2. With the removal of the operating voltage the contacts 25-26 and 25-28 switches off.



Star-Delta-Timer (T2: 0.3-20 s)

Safety Precautions



- Installation and operation must be carried out by qualified personnel only.
- The electrical installation must be performed after disconnecting the device and the machine from the mains supply.
- The wiring must be carried out according to the instructions of this operating manual, or the safety function may be lost.
- Opening the device, any manipulation of the device and the avoidance of the safety facilities are not permitted.
- All relevant safety regulations and standards must be

attended to.

- Non-observance of the safety regulations may cause death, severe injuries or substantial damage to property.

Electronic Timer / Star-Delta-Timer DZT

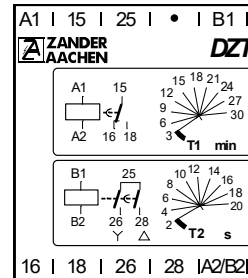
Operating Instructions

Installation

As per EN 60204-1, the device is intended for installation in control cabinets with a minimum degree of protection of IP54. It is mounted on a 35 mm DIN rail according to DIN EN 60715 TH35.

Electrical Connection

- A1-A2 are the operating voltage contacts to control the On-Delay timer.
- B1-B2 are the operating voltage contacts to control the Star-Delta Timer.
- The combined N-Conductor for A1/B1 will be connected to the combined terminals A2 and B2.
- External contact fuses (6A slow blow or 8A fast blow) must be provided.
- Conductor cross section must not exceed 2,5mm².
- If the DZT has no function after commissioning, it must be returned unopened to the manufacturer. Open the DZT invalidate the warranty.



Connections

A1: Power Supply timer 230 V
B1: Power Supply Star-Delta-Timer 230 V
A2 /B2: Common N-line for A1,B1
15-16-18: Contact Timer
25-26-28: Contact Star-Delta-Timer

Maintenance

Once per month, the device must be checked for proper function and for signs of tampering

The device is otherwise maintenance free, provided that it was installed properly.

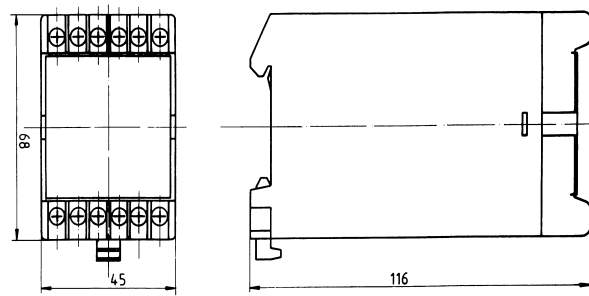
Techn. Data

Operating voltage	AC 230 V, 50-60 Hz
Residual ripple	+ 10 / - 15%
Timer A1-A2/B2:	
Time range T1	0.2-30 min
Power consumption	0.35 VA
Star-Delta-Timer B1-A2/B2:	
Time range T2:	0.3-20 s
Dwell time	approx. 40 ms (min. 30 ms/ max. 50 ms)
Power consumption	0.35 VA
Repeat accuracy	+/- 0,5%
Reclose readiness	< 50 ms when switched on
Switching capacity	AC 250 V: max. 6 A, max. 1500 VA DC 24 V: 2 A
Contact life	mechanical 2 x 10 ⁷ operations
Temperature dependence	0,1% /°C
External contact fuses	6 A slow blow oder 8 A fast blow
Max. line cross section	2.5 mm ²
Test voltage	2.5kV (Control Voltage / contact)
Dielectric strength	4 kV (DIN VDE 0110-1)
Rating insulation voltage	250 V
Temperature range	-20 ⁰ - + 60 ⁰ C (dew-free)
Mounting	DIN-rail mounting DIN EN 50022-35
Protection	Mounting IP40, Terminals IP20
Weight	approx. 230 g
Installation position	any

Electronic Timer / Star-Delta-Timer DZT

Operating Instructions

Dimension
Drawing



Order No

Order No. 410909

DZT AC230V

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