

TECHNICAL SPECIFICATIONS

CAT.No.	12ODT8	12ODT4	11ODT8	11ODT4	15ODT4	12BDT4	11BDT4	15BDT4	17ODTA	12SDT0		
SUPPLY CHARACTERISTICS												
Nominal Supply (Ur)	240 VAC/ 24 VAC/ DC, 50/60Hz		110 VAC/ 24 VAC/ DC, 50/60Hz		12VDC	240 VAC/ 24 VAC/ DC, 50/60Hz		110 VAC/ 24 VAC/ DC, 50/60Hz		12VDC	240 VAC 50/60 Hz	240VAC, 50/60Hz 24VDC
Limits	-20% to 10% of Ur											
Power Consumption (Max.)	15 VA									10 VA		
RELAY OUTPUT CHARACTERISTICS												
Contact Arrangement	1 C/O									1 NO + 1 NO		
Contact Rating	240 VAC / 28 VDC @ 5A (resistive)											
Contact Material	Ag Alloy / AgSnO2									AgNi		
Mechanical Life Expectancy	5 x 10 ⁶ operations (At no load & max. Switching frequency)											
Electrical Life Expectancy	1. 240 VAC. PF = 1.0, rated max load current. 1 x 10 ⁵ operations 2. 240 VAC. PF = 0.4, rated max load current. 4 x 10 ⁴ operations 3. 30 VDC. L/R = 7 ms 6 x 10 ⁴ operations									1 x 10 ⁵ operations (5 A at 250 VAC), 2 x 10 ⁵ operations (3 A at 30 VDC)		
Switching Frequency (Max.)	1000 opr. / hr.									1200 opr. / hr.		
Status Indication on front panel	Red LED: Relay ON									Star - Green LED Delta - Red LED		
FEATURE CHARACTERISTICS												
Modes Available	On Delay with Retentive	On Delay	On Delay with Retentive	On Delay	One shot			On Delay	Star - Delta			
Timing Ranges	6 Ranges						3s - 30s, 3m - 30m, 3hr - 30hr		10 s	3 s to 120 s		
Pause Time	N.A									60 ms (fixed)		
Setting Accuracy	+/- 5% of full scale											
Repeat Accuracy	+/-1%											
Variation in timing due to voltage change	+/-2%											
Variation in timing due to temperature change	+/-5%											
Reset Time	100 msec. (Max.)									100 - 200 ms		
Supply Indication on front panel	Green LED - Power ON											
Mounting	Base / Din - Rail (35mm Sym.)											
Dimensions	17.5 ^{+0.5} / _{-0.0} (W) x 65.0 (H) x 90.0 (D) mm											
Weight (Unpacked)	75 gms. (Approx).									65 gms.		
Operating Temperature	-10 ^o C to + 55 ^o C											
Pollution Degree	2											
Degree of Protection	IP - 20 for Terminals; IP - 40 for Enclosure											
Enclosure	Flame Retardant UL-94V0											

ELECTRONIC TIMER SERIES MICON™ - 175



Cat Nos.:

12ODT4

11ODT4

12BDT4

11BDT4

15ODT4

12ODT8

11ODT8

15BDT4

17ODTA

12SDT0

Note :

- It is not recommended to change Timing preset during Power ON condition as it will reset elapsed time.
- Changing Range Preset in power ON condition will have no effect. It has to be set before Power ON the timer.
- If user wants to reset timer one way to do this is to switch off the timer & then set timing & range preset to required position. In this case, Timer will reset & will take new set time. If user modifies timing in power ON condition, then elapsed time will be discarded & new set time will start from zero.
- After set time, i.e. after relay is on, variation in timing preset will have no effect on relay condition.
- The technical information provided in this document is correct at the time of going to the press. Product innovation being a continuous process, we reserve the right to make any alteration without prior notice.

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ELECTRONIC TIMER SERIES MICON™ - 175 is manufactured to a high precision and accuracy.

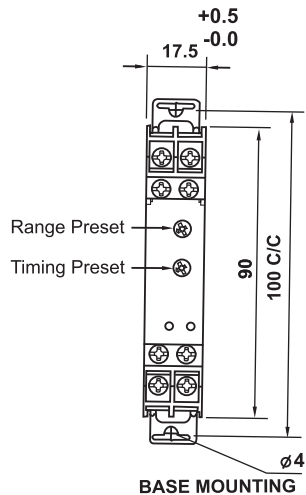
Models :

- On Delay Timer
- One Shot Timer
- Retentive On Delay Timer. (No Volt)

- Operating supply voltages
110 VAC / 24 VAC / DC
240 VAC / 24 VAC / DC
12VDC

Installation :

- a) Base Mounting : The Timer should be mounted on a plain surface, using two M4 screws, by pulling outward two existing din-vail clip.
- b) DIN - Rail Mounting : The Timer should be mounted on 35 mm symmetrical DIN Rail.



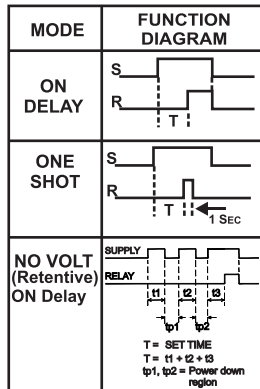
Modes available :

● **On Delay :** The timing starts as soon as the Supply is applied. The Output Relay turns ON after the set time has elapsed and remains ON till the Supply is removed.

● **One Shot :** The timing starts as soon as supply is applied the output relay turns ON after the set time has elapsed and remains ON for 1 second and turns off.

● **Retentive ON :** Ensures program Delay Timer and process value retention in case of power failure. This feature is particularly useful for applications like battery charging, mixing or any application where aggregate timing has to be kept constant even under power interruption.

Note : To cancel the no-volt (retentive) feature, power off the device make the new settings and power on the device.



Terminal Details:

	1.1 N.m (10 lb.in) Terminal screw-M3.5
	2 x 0.2...2.5 mm ² solid wire
AWG	1 x 24 to 10

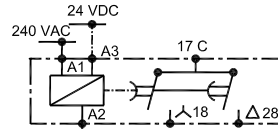
The timers shall be placed in an enclosure that is minimum 200% of the size of the timer in the end use application. Use Cu wire of 75°C only.

STAR - DELTA :

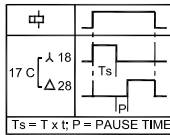
Cat No. : 12SDTO

When the supply is applied, Output Star Relay turns ON. After completion of set Star ON time, Star Relay turns OFF and Delta Relay turns ON after 60 ms (Pause Time) and remains ON till the Supply is present.

Connection Diagram :

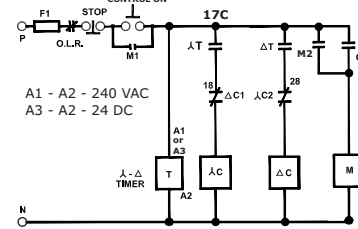


Timing Diagram :

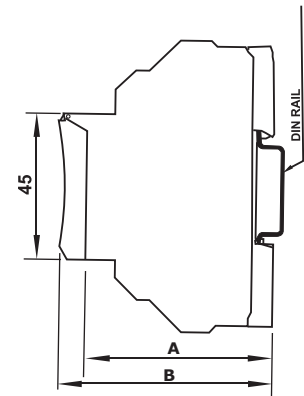


Recommended Star - Delta Control Circuit :

(Below circuit is for STAR - DELTA Timer)



- 1) F1 - Mains Protection Fuse
- 2) O.L.R - Over Load Relay
- 3) M1 - First 'NO' Contact of Main Contactor
- 4) M2 - Second 'NO' Contact of Main Contactor
- 5) M - Main Contact of driving Motor
- 6) λC - 'NO' Contactor
- 7) λC1 - 'NO' Contact of Star Contactor
- 8) λC2 - 'NO' Contact of Star Contactor
- 9) ΔC - Delta Contactor
- 10) ΔC1 - 'NC' Contact of Delta Contactor
- 11) λT - Star Contact of Timer (λ-Δ)
- 12) ΔT - Delta Contact of Timer (λ-Δ)

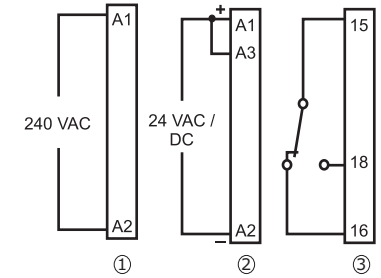


DIN RAIL MOUNTING
ALL DIMENSIONS ARE IN mm

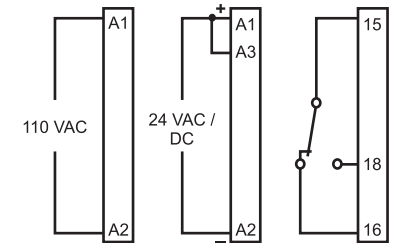
Fig. 1-b
A = 58.5 (without Dust Cover)
B = 65 (with Dust Cover)

AWG	CURRENT (A)
10	5.00
12	4.38
14	3.75
16	3.13
18	2.50
20	1.88
22	1.25
24	0.63

Connection Diagram
12ODT4, 12BDT4, 12ODT8: Diag. ① ② ③
17ODTA: Diag. ① & ③



Connection Diagram
11ODT4, 11BDT4 & 11ODT8



Connection Diagram
15ODT4 / 15BDT4

