ELECTRONIC TIMER SERIES: MICON-175TM

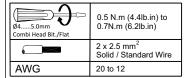
Cat. No.: 110DT4 (R8) 120DT4 (R8) 120DTA (R1) 150DT4 (R8) 11BDT4 (R8) 12BDT4 (R8) 15BDT4 (R8) 12SDT0 11SDT0



Features:

- 1. Wide Input Supply Range.
- 2. Wide Timing Range 300ms to 30hr.
- 3. Compact Size & Easy to install.
- 4. Suitable for Din-Rail & Base Mounting.
- 5. High Precision & Accuracy.

Terminal Details:



AWG	CURRENT (A)
12	4.38
14	3.75
16	3.13
18	2.50
20	1.88

NOTE: Use Cu Wire of 75 Dec. C Only..

Model

- On Delay Timer
- Star Delta Timer
- One Shot Timer

Installation:

DIN - Rail Mounting : The Timer should be mounted on 35 mm symmetrical DIN - Rail.

On Delay Timer Cat. No.: 110DT4 (R8), 120DT4 (R8), 120DTA (R1), 150DT4 (R8)

Mode Description:

Timing starts as soon as the supply is applied and Green LED Blinks. During the last 1 minute of the remaining time the Green LED blinks with higher rate. The Output Relay turns On after the set time and is indicated by the Red LED and Green LED steady ON.

Timing Diagram:

Mode	Function Diagram
On Delay	S R T

One Shot Timer

Cat No.: 11BDT4 (R8), 12BDT4 (R8) 15BDT4 (R8)

Mode Description:

The timing starts as soon as the supply is applied and Green LED Blinks. During the last 1 minute of the remaining time the Green LED blinks with higher rate. The Output Relay turns On for 1 sec. after the set time has elapsed and is indicated by the Red LED and Green LED steady ON.

Timing Diagram:

Mode	Function Diagram
One Shot	R T [1s]

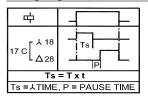
STAR - DELTA Timer Cat No.: 11SDT0, 12SDT0

Mode Description:

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.

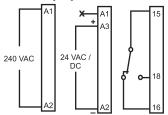
"Star ON" is indicated by Red LED 1. "Delta ON" is indicated by Red LED 2.

Timing Diagram:

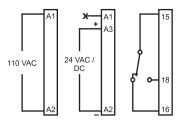


Connection Diagrams:

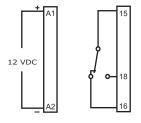
120DTA (R1)/120DT4 (R8)/ 12BDT4 (R8):



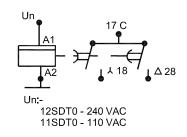
110DT4 (R8)/11BDT4 (R8):



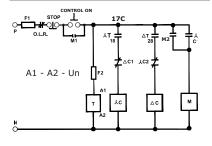
150DT4 (R8)/15BDT4 (R8):



12SDT0/11SDT0:



Recommended Star - Delta Control Circuit:



- 1) F1 Mains Protection Fuse
- 2) F2 Timer Protection Fuse
- 3) O.L.R Over Load Relay
- 4) M1 First 'NO' Contact of Main Contactor
 5) M2 Second 'NO' Contact of Main Contactor
- 6) M Main Contactor for driving Motor
- 7) 人C Star Contactor
- 8) λ C1 'NO' Contact of Star Contactor
- 9) \(\(\text{C2} \) 'NC' Contact of Star Contactor
- 10) △C Delta Contactor
- 11) △C1 'NC' Contact of Delta Contactor
- 12) ↓T Star Contact of Timer (↓-△)
- 13) ΔT Delta Contact of Timer (λ Δ)
- 14) T Star Delta Timer (λ Δ)

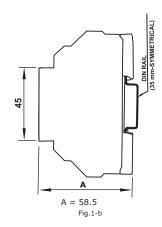
Caution:

- 1.Always follow instructions stated in this product leaflet.
- 2.Before installation, check that the specifications agree with the intended application.
- 3.Installation to be done by skilled electrician.
- 4. Changing Range and Timing Presets in power ON condition when the On Delay period has already started, will have no effect. It has to be set before powering ON the timer.
- 5.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.
- 6.Setting of all the potentiometers should be in clockwise direction only.
- 7.Use 250 mA slow blow fuse (F2) in series with the above mentioned products.
- 8. 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 for connections.
- 9.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.

Overall Dimension:

Range Preset Timing Preset Fig.1-a All dimensions are in mm

Din Rail Mounting:



1LL008_13

TECHNICAL SPECIFICATIONS											
Cat. No.:	110DT4 (R8)	120DT4 (R8)	120DTA (R1)	11BDT4 (R8)	12BDT4 (R8)	15BDT4	l (R8)	ODT4 (R8)	129	SDT0	11SDT0
Functions	On Delay Timer	On Delay Timer	On Delay Timer	One Shot Timer	One Shot Timer	One Shot		n Delay Timer		elta Timer	Star Delta Timer
Supply Characteristics :		,						•			
Supply Voltage (中)	110 VAC / 24VAC/DC	240 VAC / 24 VAC/	/DC	110 VAC / 24VAC/DC	240 VAC / 24 VAC/DC	12 VDC			240 VAC		110 VAC
Supply Variation	-20 % to +10 % (of 中)	1 - 1 - 1 - 1 - 1 - 1 - 1			1 - 10 1110, - 11110, - 1	1			-20 % to +10 % (of	「中)	-20 % to +10 % (of 中)
Supply Frequency	50/60 Hz +/-3 %					Not Applicable			50 Hz +/-3 %		50/60 Hz +/-3 %
Power Consumption (Max.)	5 VA for 110 VAC, 8 VA for	r 240 VAC, 0.5 W for 2	4 VDC/12 VDC						8 VA for 240 VAC		5 VA for 110 VAC
Timing and Accuracy : Setting Accuracy	+/-5 % of full scale										
Repeat Accuracy	1%										
nitiate Time	100 msec. (Max.)										
teset Time	100 msec. (Max.)								≥ 150 ms @ 240 VA	IC .	
iming Ranges	3s, 30s, 3m, 30m, 3hr, 30	hr	1 s to 10 s	3s, 30s, 3m, 30m, 3h	r, 30hr				3 s to 120 s		
ause Time	Not Applicable								60 ms (fixed)		
Switching Frequency (max.)	1000 operations / hr.								1200 operations / h	r.	
Status Indication on front panel	Relay ON : Red LED, Powe	r ON : Green LED							Star A - Red LED Delta △ - Red LED)	
ange of timing Operation	300 msec to 30hr		1 s to 10 s	300 msec to 30hr					Deita - Red LED		
One Shot Pulse Duration	Not Applicable		1 0 10 10 0	1 s			Not .	Applicable			
Operating Temperature	-10° C to+ 55° C		!				1.55				
Housing	Flame Retardant UL 94-V0)									
Dimensions in mm (W X H X L)	17.5 ^(+0.5/-0.0) X 58.5 X 90	•							17.5 ^(+0.5/-0.0) X 58.5	X 90	
Weight (Unpacked)	65 g (Approx).								65 g (Approx).		
Nounting	DIN Rail (35 mm Sym.)								DIN Rail (35 mm Sy	m)	
Relay O/P Characteristics :	Bit Rull (35 illiii 3yiii.)								Dir Rui (55 mm 5y	,	
Contact Rating	5A (Res.) @ 240 VAC / 28	VDC							5A (Res.) @ 240 VA	C / 3∆ (Res) @ 30 !	VDC
Softwee realing									AC-15: 250 VAC		
Jtilization Category	AC-15 and DC -13 (3A @ 3	240 VAC at power fact	or 0.6)						0.4 pf, 85°C, 50000		se,
Contact Material	Ag Alloy								0.4 pi, 03 c, 30000	ор.	
Mechanical Life	5 X 10 ⁶ operations (At no	load & may Switching	frequency)								
Electrical Life	1. 240 VAC. PF = 1.0 rated								5		
Liectrical Life	2. 240 VAC. PF = 1.0 rated	d max load current. 1	x 10 operations						1 x 10 operations (5 A at 250 VAC),	
	3. 30 VAC.L / R = 7 ms.		x 10 ⁴ operations						2 x 10° operations (3 A at 30 VDC)	
Contact Arrangement	1 C/O								1 NO + 1 NO		
Certification:	CE, RoHS								•		
Certification : Product Reference Standard	CE, RoHS IEC 61010-1										
Product Reference Standard											
Product Reference Standard EMI/EMC:	IEC 61010-1	s A				Not Applicable			IEC 61000-3-2	Class A	
roduct Reference Standard EMI/EMC: larmonic Current Emissions	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve	el II			Į.	Not Applicable			IEC 61000-3-2	Class A	
roduct Reference Standard MI/EMC: larmonic Current Emissions SD adiated Susceptibility	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve	el III			Į.	Not Applicable			IEC 61000-3-2	Class A	
roduct Reference Standard IMI/EMC: larmonic Current Emissions SD adiated Susceptibility lectrical Fast Transient	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-4 Leve	el II el III el IV					l evel T				IFC 61000-4-5 Level III
roduct Reference Standard MI/EMC: larmonic Current Emissions SD adiated Susceptibility lectrical Fast Transient urge	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-4 Leve IEC 61000-4-5 Leve	el II el III el IV el IV				Not Applicable IEC 61000-4-5	Level I		IEC 61000-3-2	Class A	IEC 61000-4-5 Level III
roduct Reference Standard IMI/EMC: armonic Current Emissions SD adiated Susceptibility lectrical Fast Transient urge onducted Susceptibility oltage Dips & Interruptions (AC)	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-5 Leve IEC 61000-4-6 Leve IEC 61000-4-11 (Not	el II el III el IV el IV el III ee: For 24 VAC, Perforn	nance Criteria B)			IEC 61000-4-5 Not Applicable			IEC 61000-4-5	Level IV (Note: For 24 VAC	C, Performance Criteria B)
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roduct Reference Standard MI/EMC: armonic Current Emissions SD adiated Susceptibility lectrical Fast Transient urge onducted Susceptibility oltage Dips & Interruptions (AC) oltage Dips & Interruptions (DC) onducted Emission	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-4 Leve IEC 61000-4-5 Leve IEC 61000-4-1 (Not IEC 61000-4-1) (Not IEC 61000-4-2) (Not IEC 61000-4-1) (CISPR 14-1) Class	el II el III el III el IV el IV el IV el IV el IV ec: For 24 VAC, Perforn ec: For 24 VDC, Perforn es A	nance Criteria B) nance Criteria B)			IEC 61000-4-5 Not Applicable		s)	IEC 61000-4-5	Level IV (Note: For 24 VAC	C, Performance Criteria B)
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roduct Reference Standard MI/EMC: armonic Current Emissions SD adiated Susceptibility lectrical Fast Transient urge onducted Susceptibility olitage Dips & Interruptions (AC) olitage Dips & Interruptions (DC) onducted Emission adiated Emission afety: lest Voltage Between I/P & O/P lest Voltage Between all terminal & nclouser mpulse Voltage Between I/P & O/P ingle Fault usulation Resistance leakage Current legree of Protection olittion Degree legree of Insulation	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-1 Leve IEC 61000-4-1 Leve IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1) (Not IEC 61000-4-29 (Not CISPR 14-1 Clas CISPR 14-1 Clas 1.5 kV 2.5 kV IEC 60947-5-1 2 kV IEC 61010-1 UL 508 > 55 UL 508 < 3 IP - 20 for Terminal; IP - 4	el II III III III III III III III	nance Criteria B) nance Criteria B)			IEC 61000-4-5 Not Applicable		s)	IEC 61000-4-5 IEC 61000-4-11 IEC 61000-4-29	Level IV (Note: For 24 VAC	C, Performance Criteria B)
roduct Reference Standard IMI/EMC: Iarmonic Current Emissions SD adiated Susceptibility Iectrical Fast Transient jurge Conducted Susceptibility Oltage Dips & Interruptions (AC) Oltage Dips & Interruptions (DC) Conducted Emission adiated Emission adiated Emission safety: est Voltage Between I/P & O/P est Voltage Between all terminal & inclouser impulse Voltage Between I/P & O/P ingle Fault insulation Resistance eakage Current Degree of Protection Ollution Degree type of Insulation invironmental:	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-4 Leve IEC 61000-4-1 Leve IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1) (Not IEC 61000-4-1) (Not IEC 61000-4-29 (Not CISPR 14-1 Clas CISPR 14-1 Clas 1.5 kV 2.5 kV IEC 60947-5-1 2 kV IEC 61010-1 UL 508 > 50 IL 508 < 3 IP - 20 for Terminal; IP - 4 II Reinforced	el II III III III III III III III	nance Criteria B) nance Criteria B)			IEC 61000-4-5 Not Applicable		s)	IEC 61000-4-5 IEC 61000-4-11 IEC 61000-4-29	Level IV (Note: For 24 VAC	C, Performance Criteria B)
Product Reference Standard EMI/EMC: larmonic Current Emissions SD Radiated Susceptibility lectrical Fast Transient Surge Conducted Susceptibility /oltage Dips & Interruptions (AC) /oltage Dips & Interruptions (DC) Conducted Emission Radiated Emission Safety: Test Voltage Between I/P & O/P Test Voltage Between II terminal & includer Insulation Resistance Leakage Current Pollution Degree Type of Insulation Environmental: Cold Heat	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-4 Leve IEC 61000-4-1 Leve IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1) (Not IEC 61000-4-2) (Not IEC 61010-1	el II III III III III III III III	nance Criteria B) nance Criteria B)			IEC 61000-4-5 Not Applicable		s)	IEC 61000-4-5 IEC 61000-4-11 IEC 61000-4-29	Level IV (Note: For 24 VAC	C, Performance Criteria B)
Product Reference Standard EMI / EMC: - Harmonic Current Emissions - SD Radiated Susceptibility - Electrical Fast Transient - Surge - Conducted Susceptibility - Voltage Dips & Interruptions (AC) - Voltage Dips & Interruptions (DC) - Conducted Emission - Radiated Emission - Safety: - Test Voltage Between I/P & O/P - Fest Voltage Between I/P & O/P - Fest Voltage Between I/P & O/P - Single Fault - Insulation Resistance - Leakage Current - Degree of Protection - Pollution Degree - Type of Insulation - Environmental: - Cold Heat - Dry Heat - Current Degree - Cold Heat - Dry Heat	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-4 Leve IEC 61000-4-5 Leve IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-2) (Not IEC 61000-4-2) (Not IEC 61000-4-2) (Not IEC 61010-1 Class 1.5 kV 2.5 kV IEC 60947-5-1 2 kV IEC 61010-1 UL 508 > 51 UL 508 < 3 IP - 20 for Terminal; IP - 4 II Reinforced IEC 60068-2-1	el III el III el III el IV el IV el IV el For 24 VAC, Perforn es For 24 VDC, Perforn es A ss A OKΩ 5.5 mA 40 for Housing	nance Criteria B) nance Criteria B)			IEC 61000-4-5 Not Applicable		s)	IEC 61000-4-5 IEC 61000-4-11 IEC 61000-4-29	Level IV (Note: For 24 VAC	C, Performance Criteria B)
	IEC 61010-1 IEC 61000-3-2 Class IEC 61000-4-2 Leve IEC 61000-4-3 Leve IEC 61000-4-3 Leve IEC 61000-4-5 Leve IEC 61000-4-1 (Not IEC 61000-4-1 (Not IEC 61000-4-1 Class IEC 61000-4-1 Class IEC 61000-4-1 Class IEC 61000-4-29 (Not IEC 61000-4-29 (Not IEC 61000-4-29 (Not IEC 61000-4-1 Class I.5 kV IEC 60947-5-1 2 kV IEC 61010-1 IL S08 > 55 UL 508 > 3 IP - 20 for Terminal; IP - 4 II Reinforced IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 5 g	el III el III el III el IV el IV el IV el For 24 VAC, Perforn es For 24 VDC, Perforn es A ss A OKΩ 5.5 mA 40 for Housing	nance Criteria B) nance Criteria B)			IEC 61000-4-5 Not Applicable		s)	IEC 61000-4-5 IEC 61000-4-11 IEC 61000-4-29	Level IV (Note: For 24 VAC	C, Performance Criteria B)