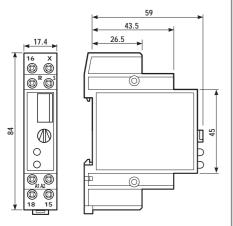


- Multi-voltage multi-function timer
- One module (17.5 mm) wide housing
- Seven functions (4 with supply start and 3 with signal start)
- Six time scales, from 0.1s to 10h
- 35 mm rail (EN 50022) mount



81.01

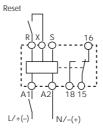


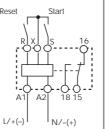
- Multi-voltage (DC non polarized)
- Multi-function
- 35 mm rail mounting

AI: ON delay
DI: ON pulse
SW: Symmetrical recycler:
ON start

BE: Signal OFF delay
DE: Signal ON pulse
EE: Signal OFF pulse

SP: Symmetrical recycler: OFF start





wiring diagram (without signal START)

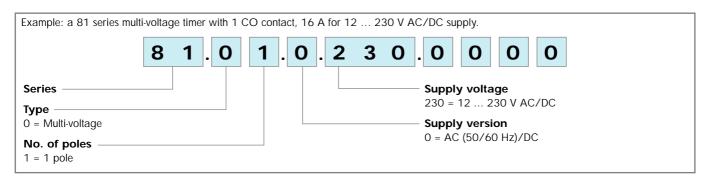
wiring diagram (with signal START)

_		4	
	æ	1	

Contact specifications				
Contact configuration		1 CO		
Rated current/Maximum peak	current A	16/30		
Rated voltage/Maximum switch	ching voltage V AC	250/400		
Rated load in AC1	VA	4,000		
Rated load in AC15 (230 VAC	C) VA	750		
Single phase motor rating (23	0 VAC) kW	0.55		
Breaking capacity in DC1: 30/110/220V A		16/0.3/0.12		
Minimum switching load	mW(V/mA)	500 (10/5)		
Standard contact material		AgCdO		
Supply specifications				
Nominal voltage	V AC(50/60Hz)	12230		
	V DC	12230 (non polarized)		
Rated power AC/DC	VA (50Hz)/W	< 2/<2		
Operating range	AC	10.8250		
	DC	10.8250		
Technical data				
Specified time range		(0,11)s,(110)s,(1060)s,(110)min,(1060)min,(110)h		
Repeatability %		± 1		
Recovery time ms		≤ 50		
Minimum control impulse	ms	50		
Setting accuracy-full range	%	± 5		
Electrical life at rated load in A	AC1 cycles	100·10³		
Ambient temperature range °C		-10+50		
Protection category		IP 20		
Approvals: (according to ty	rpe)	CE		



ORDERING INFORMATION



TECHNICAL DATA

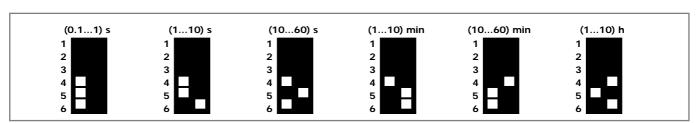
EMC SPECIFICATIONS

TYPE OF TEST		REFERENCE STANDARD	
ELECTROSTATIC DISCHARGE	- contact discharge	EN 61000-4-2	4 kV
	- air discharge	EN 61000-4-2	8 kV
RADIO-FREQUENCY ELECTROMAGNETIC FI	ELD (80 ÷ 1000 MHz)	EN 61000-4-3	10 V/m
FAST TRANSIENTS (burst) (5-50 ns, 5 kHz) on Supply terminals		EN 61000-4-4	4 kV
SURGES (1.2/50 µs) on Supply terminals	- common mode	EN 61000-4-5	4 kV
	- differential mode	EN 61000-4-5	4 kV (81.01)
RADIO-FREQUENCY COMMON MODE (0.15 ÷ 80 MHz) on Supply terminals		EN 61000-4-6	10 V
RADIATED AND CONDUCTED EMISSION		EN 55022	class B

OTHER DATA

CURRENT ABSORPTION on signal control		< 1 mA (S-X)		< 1 mA (R-X)	< 1 mA (R-X)	
POWER LOST TO THE ENVIRONMENT						
- without contact current W		1.3				
- with rated current	W	3.2				
		LOWER TERMINAL		UPPER TERMINAL		
MAX WIRE SIZE		solid cable	stranded cable	solid cable	stranded cable	
	mm²	1x6 / 2x4	1x4 / 2x2.5	1x4 / 2x2.5	1x2.5 / 2x2.5	
	AWG	1x10 / 2x12	1x12 / 2x14	1x12 / 2x14	1x14 / 2x14	
SCREW TORQUE	Nm	0.8		0.8	0.8	

TIME SCALES



NOTE: time scales and functions must be set before energising the timer.



FUNCTIONS

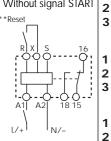
	LED		Supply	NO output	Contacts	
	Green	Red	voltage	contact	Open	Closed
U = Supply voltage			OFF	Open	15 - 18	15 - 16
S = Signal switch C = Output contact			ON	Open	15 - 18	15 - 16
R = RESET			ON	Closed	15 - 16	15 - 18

Without signal Start= Start via contact in supply line (A1). With signal Start = Start via contact into control terminal (S-X).

С

Wiring diagram

Without signal START



**Reset facility is optional

(AI) ON delay.

t < T

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.

(DI) ON pulse.

Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.

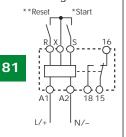
(SW) Symmetrical recycler: ON start.

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

(SP) Symmetrical recycler: OFF start.

Apply power to timer. Output contacts transfer after time T has elapsed and cycle between OFF and ON for as long as power is applied. The ratio is 1:1 (time on = time off).





- * Terminals R, X & S must not be directly connected to the timer supply voltage but they should be considered to be a supply voltage potential for the purposes of insulation.
- **Reset facility is optional

ПГ

(BE) Signal OFF delay. Power is permenently applied to the timer.

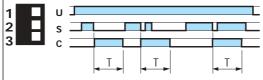
The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the preset delay, after which time the output contacts reset.

t<T

(DE) Signal ON pulse.

Power is permenently applied to the timer.

On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.



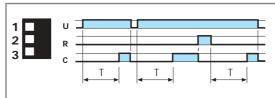
(EE) Signal OFF pulse.

Power is permenently applied to the timer.

On opening of the Signal Switch (S) the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

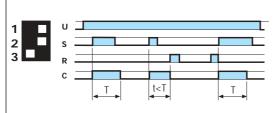
RESET Function (R)

In each and every function and time scale, the timer is immediately released when the reset switch is depressed.



On depressing the Signal Reset Switch the timer is immediately released.

Releasing the Signal Reset Switch reactivates the function. Example: ON delay function.



Depressing the Signal Reset Switch terminates the

To re-start, it is necessary to depress the Signal Switch again. Example: ON pulse function.