Electromechanical Timers

T45

Electro-mechanical Timer (48 x 48 mm)

Dual-frequency
Multi-range
With memory (reversed clutch)

Technical Data

Supply voltage
24, 48, 110, 230Vac; 50 and 60Hz

Supply tolerance
±10%

Power consumption
5,5 VA

Operating factor
100%

Time range values
multi-range: base 26 (on request bases 30,22
side time range selector (6-time range)

Minimum time set
1/60 of time full-scale value

Repetition accuracy at constant parameters
±1,5% of time full-scale value

Reset time
300 ms

Diagrams
19, 23, 25, 35

Contacts rating
delayed contact:
5(1)A 250Vac / 28Vdc
instantaneous contact:
2(0,5)A 250Vac / 38Vdc

Electrical life
delayed contact:
10^5 operations, cos φ 1
instantaneous contact:
2,5 x 10^5 operations, cos φ 1

Mechanical life
5 x 10^6 operations

Indication
moving pointer
1800V/50Hz

Temperature range
operating: -10°C +55°C
storage: -30°C +80°C

Mounting
front panel, with flange
plug in socket

Connections
faston 6,35 mm; screws (with accessory)
11-pin socket
8-pin socket (diagrams 19 and 23)

Protections
front : IP50
housing: IP30

Housing
fiberglass reinforced polycarbonate

Overall dimensions
48 x 48 x 114 mm

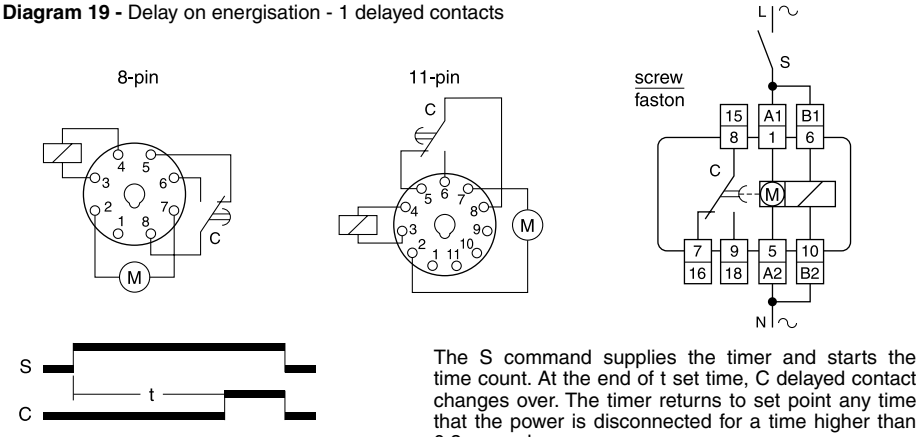
Weight
260 g

Approvals
CE cULus LISTED (File No. E108173)

Declaration of conformity
ROHS (Directive 2002/95/CE)

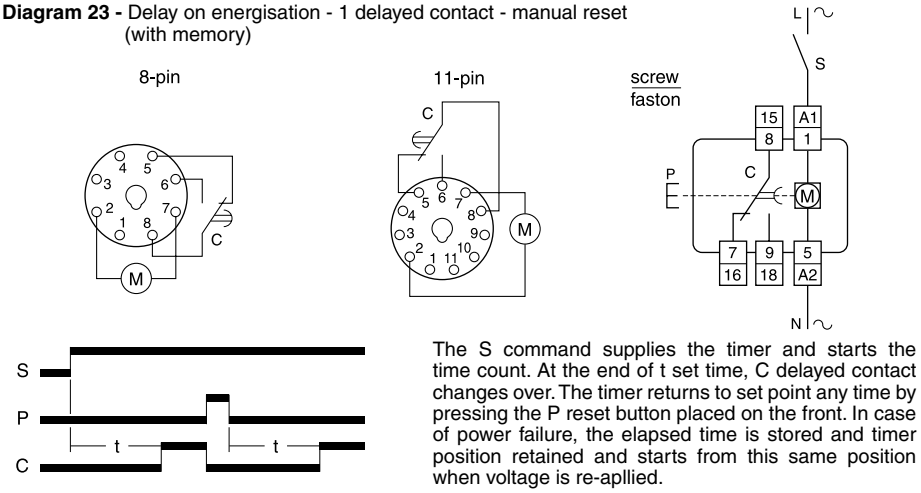
Connection and operating diagrams

Diagram 19 - Delay on energisation - 1 delayed contacts



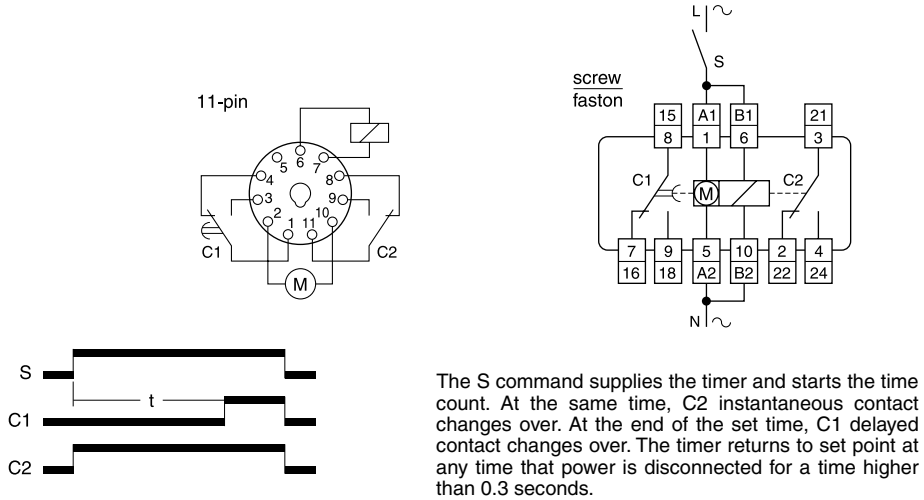
The S command supplies the timer and starts the time count. At the end of t set time, C delayed contact changes over. The timer returns to set point any time that the power is disconnected for a time higher than 0.3 seconds.

Diagram 23 - Delay on energisation - 1 delayed contact - manual reset (with memory)



The S command supplies the timer and starts the time count. At the end of t set time, C delayed contact changes over. The timer returns to set point any time by pressing the P reset button placed on the front. In case of power failure, the elapsed time is stored and timer position retained and starts from this same position when voltage is re-apllied.

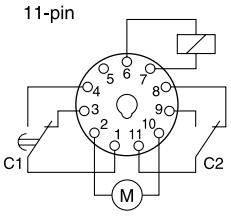
Diagram 25 - Delay on energisation - 1 delayed contact + 1 instantaneous contact

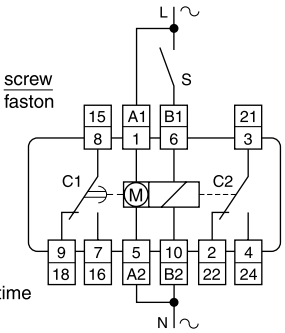


The S command supplies the timer and starts the time count. At the same time, C2 instantaneous contact changes over. At the end of the set time, C1 delayed contact changes over. The timer returns to set point at any time that power is disconnected for a time higher than 0.3 seconds.

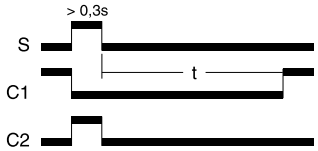
Connection and operating diagrams

Diagram 35 - Delay on energisation - 1 delayed contact + 1 instantaneous contact (with memory - reserved clutch)



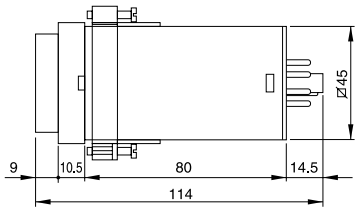


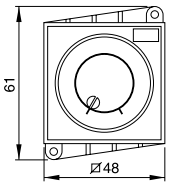
C1 at the end of set time

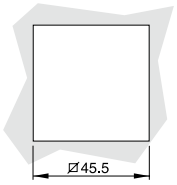


The time count starts by supplying the timer motor. In case of power failure, the elapsed time is stored and the timer position retained and restarts from the same position when voltage is re-applied and so on (cumulative times, memory). At the end of t set time, C1 delayed contact changes over. To reset the timer at the end of the cycle or at any other time, the clutch relay must be energised for at least 0.3 seconds. The timer does not count when the clutch relay is energised. To start a new count the clutch relay must be de-energised. C2 contact is provided for clutch relay interlock.

Overall dimensions







Ordering code

T45. ___ . ___ . ___ . ___ . ___

Version
Socket
Diagram
Times base
Voltage

Voltage		Times base		Diagram		Socket		Version	
B2	24 Vac	**26**		**19**		**O**	8-pin	**0**	standard
B3	48 Vac	30 (*)		**23**		**U**	11-pin	**6**	with knob cover
B4	110 Vac	22 (*)		**25**		**F**	faston		
BJ	230 Vac			**35**					

(*) on request

Base 26 : 6s-60s-6min-60min-6h-60h
Base 30 : 3s-30s-3min-30min-3h-30h
Base 22 : 12s-120s-12min-120min-12h-120h

Other versions on request.