

ORDERING INFORMATION

Example: 85 series timer, 4 CO, 24 V AC/DC supply voltage with AI - DI functions.

8 5 . 0 4 . 0 . 0 2 4 . 0 0 0 0

Series

Type

0 = Multifunction (AI, DI, GI, SW)

No. of poles

2 = 2 pole · 10 A

3 = 3 pole · 10 A

4 = 4 pole · 7 A

Supply voltage

012 = 12 V AC/DC

024 = 24 V AC/DC

048 = 48 V AC/DC

125 = 110...125 V AC/DC

240 = 230...240 V AC

Supply version

0 = AC (50/60 Hz)/DC

8 = AC (50/60 Hz) for 230 V only

TECHNICAL DATA

EMC SPECIFICATIONS

| TYPE OF TEST | REFERENCE STANDARD | |
|---|---------------------|--------------|
| ELECTROSTATIC DISCHARGE | - contact discharge | EN 61000-4-2 |
| | - air discharge | EN 61000-4-2 |
| RADIO-FREQUENCY ELECTROMAGNETIC FIELD (80 ÷ 1000 MHz) | EN 61000-4-3 | 15 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 |
| | - differential mode | EN 61000-4-5 |
| RADIO-FREQUENCY COMMON MODE (0.15 ÷ 80 MHz) on Supply terminals | EN 61000-4-6 | 10 V |
| POWER-FREQUENCY (50 Hz) | EN 61000-4-8 | 30 A/m |
| RADIATED AND CONDUCTED EMISSION | EN 55022 | class B |

OTHER DATA

| POWER LOST TO THE ENVIRONMENT | | 2 pole | 3 pole | 4 pole |
|-------------------------------|---|--------|--------|--------|
| - without contact current | W | 1.6 | 1.6 | 1.6 |
| - with rated current | W | 3.7 | 4.7 | 3.6 |

85

TIME SCALES

| (0.05...1) s | (0.5...10) s | (5...100) s | (0.5...10) min | (5...100) min | (0.5...10) h | (5...100) h |
|--------------|--------------|-------------|----------------|---------------|--------------|-------------|
| | | | | | | |
| 1 2 3 4 5 | 1 2 3 4 5 | 1 2 3 4 5 | 1 2 3 4 5 | 1 2 3 4 5 | 1 2 3 4 5 | 1 2 3 4 5 |

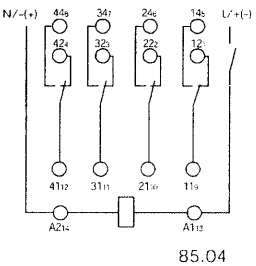
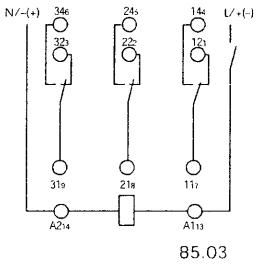
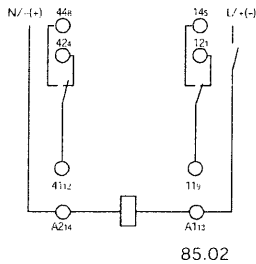
NOTE: time scales and functions must be set before energising the timer.

FUNCTIONS

| | LED Red | Supply voltage | NO output contact | Contacts | |
|--|---------|----------------|---------------------------|----------|---------|
| | | | | Open | Closed |
| U = Supply voltage C = Output contact | | OFF | Open | x1 - x4 | x1 - x2 |
| | | ON | Open | x1 - x4 | x1 - x2 |
| | | ON | Open (Timing in Progress) | x1 - x4 | x1 - x2 |
| | | ON | Closed | x1 - x2 | x1 - x4 |

Wiring diagram

Types: 85.02, 85.03, 85.04



U

c

(AI) ON delay.
 Apply power to timer.
 Output contacts transfer after preset time has elapsed.
 Reset occurs when power is removed.

U

c

(DI) ON pulse.
 Apply power to timer.
 Output contacts transfer immediately.
 After the preset time has elapsed, contacts reset.

U

c

(GI) Fixed pulse (0.5s) delayed.
 Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs after a fixed time of 0.5s, 0.5s.

U

c

(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).

85

107