## Features

## Multi-function and mono-function timer range <br> 80.01 - Multi-function \& multi-voltage 80.11 - On-delay, multi-voltage

- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology
$80.01 / 80.11$
Screw terminal
Screw terminal


FOR UL RATINGS SEE:
"General technical information" page V
For outline drawing see page 6
Contact specification
Contact configuration
Rated current/Maximum peak current
Rated voltage/Maximum switching voltage V AC
Rated load AC1
Rated load AC 15 (230 V AC)
Single phase motor rating ( 230 VAC ) kW
Breaking capacity DC 1:30/110/220 V A
Minimum switching load $\mathrm{mW}(\mathrm{V} / \mathrm{mA})$
Standard contact mat
Supply specification

| Nominal voltage (UN) | $\mathrm{VAC}(50 / 60 \mathrm{~Hz})$ |
| :--- | ---: |
|  | VDC |
| Rated power AC/DC | $\mathrm{VA}(50 \mathrm{~Hz}) / \mathrm{W}$ |
| Operating range | V AC |

## Technical data


Protection category
Approvals (according to type)
80.11


- Multi-voltage
- Mono-function

AI: On-delay

Al: On-delay
SW: Symmetrical flasher (starting pulse on)
BE: Off-delay with control signal
CE: On- and off-delay with control signal
DE: Interval with control signal on


Wiring diagram (without control signal)

Wiring diagram (with control signal)


Wiring diagram (without control signal)

SERIES

## 80 Series - Modular timers 16 A

## Features

Mono-function timer range
80.21 - Interval, multi-voltage
80.41 - Off-delay with control signal, multi-voltage 80.91 - Asymmetrical flasher, multi-voltage

- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715 ) mount
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology
80.21 / 80.41 / 80.91

Screw terminal


For UL ratings see:
"General technical information" page V
For outline drawing see page 6
Contact specification


| Contact configuration |  |
| :--- | :--- | :--- |
| Rated current/Maximum peak current | A |
| Rated voltage/Maximum switching voltage V AC |  |

Rated voltage/Maximum switching voltage V AC
Rated load AC 1

| Rated load AC 15 (230 V AC) | VA |
| :--- | ---: |
| Single phase motor rating (230 V AC) | kW |

Breaking capacity DC 1:30/110/220 V A

| Minimum switching load | $\mathrm{mW}(\mathrm{V} / \mathrm{mA})$ |
| :--- | :--- |
| Standard contact material |  |


| Supply specification |  |
| :--- | ---: |
| Nominal voltage $\left(U_{N}\right)$ | V AC $(50 / 60 \mathrm{~Hz})$ |
|  | V DC |
| Rated power AC/DC | VA $(50 \mathrm{~Hz}) / \mathrm{W}$ |
| Operating range | V AC |

## Technical data

| Specified time range | (0.1. | min, 11. | ..24)h |
| :---: | :---: | :---: | :---: |
| Repeatability \% | $\pm 1$ | $\pm 1$ | $\pm 1$ |
| Recovery time ms | 100 | 100 | 100 |
| Minimum control impulse ms | - | 50 | 50 |
| Setting accuracy-full range \% | $\pm 5$ | $\pm 5$ | $\pm 5$ |
| Electrical life at rated load in AC1 cycles | $100 \cdot 10^{3}$ | $100 \cdot 10^{3}$ | $100 \cdot 10^{3}$ |
| Ambient temperature range ${ }^{\circ} \mathrm{C}$ | -10... 50 | $-10 \ldots+50$ | -10...+50 |
| Protection category | IP 20 | IP 20 | IP 20 |
| Approvals (according to type) | CE EH[ PG Revosis RINA © (U) us |  |  |

## Features

## Multi-function and multi-voltage solid-state output timer

- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715 ) mount
- Multi-voltage output ( $24 \ldots 240 \mathrm{~V}$ AC/DC), independent from the input voltage
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- Multi-voltage input with "PWM clever" technology
80.71

Screw terminal

80.71


- Multi-voltage
- Multi-function

AI: On-delay
DI: Interval
SW: Symmetrical flasher (starting pulse on)
BE: Off-delay with control signal
CE: On- and off-delay with control signal
DE: Interval with control signal on


Wiring diagram (without control signal)

Wiring diagram (with control signal)

## Output circuit

Contact configuration
Rated current

| Rated voltage | $\mathrm{V} \mathrm{AC} / \mathrm{DC}$ |
| :--- | :--- |
| Switching voltage range | $\mathrm{V} \mathrm{AC/DC}$ |


| Rated load AC15 | A |
| :--- | ---: |
| Rated load DC1 | A |


| Minimum switching current | mA |
| :--- | :--- |
| Max. "OFF-state" leakage current | mA |


| Max. "ON-state" voltage drop | mA |
| :--- | ---: |
| Input circuit | V |



## 80 Series - Modular timers 6-8 A

## Features

Mono-function timer range
80.61 - Power off-delay (True off-delay), multi-voltage
80.82 - Star-delta, multi-voltage

- 17.5 mm wide
- Rotary range selector, and timing trimmer
- Four time scales from 0.05 s to 3 min (type 80.61)
- Six time scales from 0.1 s to 20 min (type 80.82 )
- High input/output isolation
- 35 mm rail (EN 60715) mount


### 80.61 / 80.82 <br> Screw terminal


80.61

80.82


- Multi-voltage
- Mono-function
- Transfer time can be regulated (0.05...1)s

SD: Star-delta


Wiring diagram (without control signal) (without control signal)
For outline drawing see page 6
Contact specification


For UL ratings see:
"General technical information" page V

Contact configuration

$$
\begin{aligned}
& \mathrm{R} \\
& \hline R
\end{aligned}
$$

Rated current/Maximum peak current A
Rated voltage/Maximum switching voltage V AC
Rated load AC1
Single phase motor rating ( 230 V AC ) $\quad \mathrm{kW}$
Breaking capacity DC1: $30 / 110 / 220 \mathrm{~V}$ A

| Minimum switching load | $\mathrm{mW}(\mathrm{V} / \mathrm{mA})$ |
| :--- | :--- |
| Standard contact material |  |

## Supply specification

Nominal voltage ( $U_{N}$ )

|  |  |  |
| :---: | :---: | :---: |
|  | 24... 220 | 24... 240 |
| Rated power AC/DC VA (50 Hz)/W | <0.6/ < 0.6 | < $1.3 /<0.8$ |
| Operating range | 16.8... 265 | 16.8... 265 |
|  | 16.8... 242 | 16.8... 265 |
| Technical data |  |  |
| Specified time range | (0.05 ...2)s, (1..16)s, (8...70)s, (50...180)s | $(0.1 \ldots 2) \mathrm{s},(1 \ldots 20) \mathrm{s},(0.1 \ldots 2) \mathrm{min},(1 \ldots 20) \mathrm{min}$ |
| Repeatability \% | $\pm 1$ | $\pm 1$ |
| Recovery time ms | - | 100 |
| Minimum control impulse ms | 500 (A1-A2) | - |
| Setting accuracy-full range \% | $\pm 5$ | $\pm 5$ |
| Electrical life at rated load in AC1 cycles | $100 \cdot 10^{3}$ | $60 \cdot 10^{3}$ |
| Ambient temperature range ${ }^{\circ} \mathrm{C}$ | $-10 \ldots+50$ | $-10 \ldots+50$ |
| Protection category | IP 20 | IP 20 |
| Approvals (according to type) | $C \in E H[P G$ |  |

## Ordering information

Example: 80 series, modular timers, 1 CO (SPDT) - 16 A, supply rated at ( $12 \ldots 240$ )V AC/DC.


## Technical data



## Accessories

Sheet of marker tags, for types 80.82 , plastic, 24 tags, $9 \times 17 \mathrm{~mm}$
020.24

Sheet of marker tags, for types $80.01 / 11 / 21 / 41 / 61 / 71$, plastic, 72 tags, $6 \times 12 \mathrm{~mm} 060.72$

Outline drawings
80.01

Screw terminal

80.21

Screw terminal

80.91

Screw terminal

80.61

Screw terminal

80.11

Screw terminal

80.41

Screw terminal

80.71

Screw terminal


### 80.82

Screw terminal


## Functions

| $\mathbf{U}=$ Supply voltage <br> S = Signal switch | LED* | Supply voltage | NO output contact | Contacts |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Open | Closed |
| $\underline{-}=$ Output contact | - | OFF | Open | 15-18 | 15-16 |
|  | I | ON | Open | 15-18 | 15-16 |
|  |  | ON | Open <br> (Timing in Progress) | 15-18 | 15-16 |
|  |  | ON | Closed | 15-16 | 15-18 |

* The LED on type 80.61 is illuminated only when the supply voltage is applied to the timer; during the timing period the LED is not illuminated.


Functions
Wiring diagram



* With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).
- Possible to control an external load, such as another relay coil or timer, connected to the control signal terminal B1.
** A voltage other than the supply voltage can be applied to the command Start (B1), example:
A1-A2 $=230 \vee A C$
$\mathrm{B} 1-\mathrm{A} 2=12 \mathrm{VDC}$


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