C64

11 pin plug-in time relay according to IEC 67-I-18a, running time without supply voltage, 2 time functions, 2 CO output contacts

**Type: C64/… V R**
Plug-in time relay, 2 change over contacts, UC 24 V, UC 110 ... 240 V operating voltages, 2 time functions, time ranges: 0.1 s ... 20 minutes, LED for supply voltage state indication, Seismic qualification available (precondition for use in nuclear power plants)

<table>
<thead>
<tr>
<th>Maximum contact load</th>
<th>5 A / 250 V AC-1</th>
<th>5 A / 30 V DC-1</th>
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<tbody>
<tr>
<td>Recommended minimum contact load</td>
<td>1 mA / 0.1 V</td>
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</tbody>
</table>

**Time functions and related connection diagram** (Function diagrams: refer to page 130)

The functions are selectable by DIP switch

**Time data**
- 4 partial time ranges, $t_{\text{max}}$ (DIP switch)
- Fine adjustment range (rotary knob) $t_{\text{min}}$ ... $t_{\text{max}}$, 1 ... 12
- Time range tolerance $\pm 1 \%$
- Repetition accuracy $\pm 1 \%$
- Min. start impulse on A1 $\geq 150$ ms
- Reset time $\geq 100$ ms
- Voltage failure buffering 5 ... 10 ms

**Contacts**
- Type 2 CO, micro disconnection
- Material Gold flash over silver alloy
- Rated operational current 5 A
- Max. switching voltage AC-1 250 V
- Max. switching voltage DC-1 125 V
- Max. load AC-1 (Fig. 1) 1250 VA
- Max. DC load DC-1 30 V / 125 V (Fig. 2) 150 W / 25 W

**Control input (UC = AC / DC)**
- Nominal voltage (A1) UC 24 ... 48 V UC 110 ... 240 V
- Operating voltage range [V] 20 ... 75 88 ... 265
- Input current [mA] 3 ... 15 1 ... 5
- Inrush current (100 ms) [mA] 200 100
- Frequency range [Hz] 48 ... 400 45 ... 400
- Threshold voltage AC / DC [V] $\geq 12 / \geq 16$ $\geq 55 / \geq 75$

**Insulation**
- Test voltage open contact 1 kVrms 1 minute
- Test voltage between poles 2 kVrms 1 minute
- Test voltage between contacts and control input 2 kVrms 1 minute

**General Specifications**
- Ambient temperature storage /operation -40 ... 70 °C / -25 ... 60 °C
- Mechanical life of contacts $\geq 50 \times 10^6$ operations
- Ingress protection degree IP 40 when plugged in
- Housing material / Weight Lexan / 75 g

**Standard types**
- UC (AC/DC) 48...400 Hz, 24-48, 110-240
- Seismic qualification: C64/… V R C64.C2292/…V R

**Accessories:**
- Socket: S3-xx
- Retaining clip HF-50
- Transparent front cover FA-50
- Front panel mounting set FZ-50L (Frame + retaining clip + socket with soldering connections)

**Connection diagram**

**Dimensions [mm]**

**Technical approvals, conformities**
- Available: Seismic IEEE 323, IEEE 344
- EN 60947