

## PRODUCT-DETAILS

# CT-ERS.12S

CT-ERS.12S Time relay, ON-delay 1c/o, 24-48VDC, 24-240VAC



## General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | CT-ERS.12S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product ID            | 1SVR730100R3100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EAN                   | 4016779851459                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Catalog Description   | CT-ERS.12S Time relay, ON-delay 1c/o, 24-48VDC, 24-240VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Long Description      | The CT-ERS.12S is a single-function electronic time relay from the CT-S timer range. It provides an ON-delay (delay on make) function with 10 time ranges from 0.05 s to 300 h. This time relay operates with a rated control supply voltage of 24 - 48 V DC / 24 - 240 V AC and has a 1 c/o (SPDT) output rated at 250 V / 4 A. A sealable transparent cover for protection against unauthorized changes is available as accessory. The device offers screw connection technology with double-chamber cage connection terminals. |

## Ordering

|                        |               |
|------------------------|---------------|
| EAN                    | 4016779851459 |
| Minimum Order Quantity | 1 piece       |
| Customs Tariff Number  | 85364900      |

## Container Information

|                                |         |
|--------------------------------|---------|
| Package Level 1 Units          | 1 piece |
| Package Level 1 Width          | 97 mm   |
| Package Level 1 Depth / Length | 30 mm   |
| Package Level 1 Height         | 109 mm  |

|                              |               |
|------------------------------|---------------|
| Package Level 1 Gross Weight | 0.128 kg      |
| Package Level 1 EAN          | 4016779851459 |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 22.5 mm  |
| Product Net Height         | 85.6 mm  |
| Product Net Depth / Length | 103.7 mm |
| Product Net Weight         | 0.106 kg |

## Technical

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Timer Relay Type                                    | ON-Delay                                                                                                                                                                                                                                                                                                                                                                                                             |
| Time Range                                          | 0.05 s ... 300 h                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rated Control Supply Voltage (U <sub>s</sub> )      | 24 ... 240 V AC<br>24 ... 48 V DC                                                                                                                                                                                                                                                                                                                                                                                    |
| Rated Frequency (f)                                 | 50 Hz<br>60 Hz<br>DC                                                                                                                                                                                                                                                                                                                                                                                                 |
| Output                                              | 1 c/o (SPDT) contact                                                                                                                                                                                                                                                                                                                                                                                                 |
| Terminal Type                                       | Screw Terminals                                                                                                                                                                                                                                                                                                                                                                                                      |
| Rated Operational Current AC-12 (I <sub>e</sub> )   | (230 V) 4 A                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Operational Current AC-15 (I <sub>e</sub> )   | (230 V) 3 A                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Operational Current DC-12 (I <sub>e</sub> )   | (24 V) 4 A                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rated Operational Current DC-13 (I <sub>e</sub> )   | (24 V) 2 A                                                                                                                                                                                                                                                                                                                                                                                                           |
| Minimum Switching Capacity                          | 12 V<br>10 mA                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | Input Circuit 4 kV<br>Output Circuit 1 / Output Circuit 2 4 kV                                                                                                                                                                                                                                                                                                                                                       |
| Rated Insulation Voltage (U <sub>i</sub> )          | Input Circuit / Output Circuit 500 V<br>Output Circuit 1 / Output Circuit 2 300 V                                                                                                                                                                                                                                                                                                                                    |
| Degree of Protection                                | Housing IP50<br>Terminals IP20                                                                                                                                                                                                                                                                                                                                                                                       |
| Overvoltage Category                                | III                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pollution Degree                                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Short-Circuit Protective Devices                    | Output Circuit NC - F Type Fuses 6 A<br>Output Circuit NO - F Type Fuses 10 A                                                                                                                                                                                                                                                                                                                                        |
| Electrical Durability                               | AC-12 100000 cycle                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical Durability                               | 30000000 cycle                                                                                                                                                                                                                                                                                                                                                                                                       |
| Connecting Capacity                                 | Flexible with Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup><br>Flexible 1x 0.5 ... 2.5 mm <sup>2</sup><br>Flexible 2x 0.5 ... 1.5 mm <sup>2</sup><br>Rigid 1x 0.5 ... 4 mm <sup>2</sup><br>Rigid 2x 0.5 ... 2.5 mm <sup>2</sup> |
| Tightening Torque                                   | 0.6 ... 0.8 N·m                                                                                                                                                                                                                                                                                                                                                                                                      |
| Wire Stripping Length                               | 8 mm                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mounting Position                                   | Any                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting on DIN Rail                                | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                                                                                                                                       |
| Standards                                           | CAN/CSA C22.2 No.14<br>EN 50581<br>IEC/EN 61812-1                                                                                                                                                                                                                                                                                                                                                                    |

UL 508

## Environmental

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Ambient Air Temperature | Operation -25 ... +60 °C<br>Storage -40 ... +85 °C |
| RoHS Status             | Following EU Directive 2011/65/EU                  |

## Technical UL/CSA

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| Maximum Operating Voltage UL/CSA | Output Circuit 300 V AC                                                                    |
| Contact Rating UL/CSA            | B300                                                                                       |
| Connecting Capacity UL/CSA       | Flexible 1x 18-14 AWG<br>Flexible 2x 18-16 AWG<br>Rigid 1x 20-12 AWG<br>Rigid 2x 20-14 AWG |
| Tightening Torque UL/CSA         | 7.08 in-lb                                                                                 |

## Certificates and Declarations (Document Number)

|                                   |                             |
|-----------------------------------|-----------------------------|
| CB Certificate                    | CB_DK-5903-M1               |
| CCC Certificate                   | CCC_2007010303255979        |
| cULus Certificate                 | cULus508_20110711-E140448A  |
| Data Sheet, Technical Information | 2CDC111130D0201             |
| Declaration of Conformity - CE    | 1SVD981008-0001             |
| DNV GL Certificate                | DNV_GL_TAA00000XR           |
| EAC Certificate                   | EAC_RU_C-DE.ME77.B.00568/20 |
| Environmental Information         | 1SAA981016-2401             |
| Instructions and Manuals          | 1SVC730020M0000             |
| RMRS Certificate                  | RMRS_1740021250             |
| RoHS Information                  | 1SVD981008-0001             |

## Classifications

|                            |                        |
|----------------------------|------------------------|
| Object Classification Code | K                      |
| ETIM 4                     | EC001439 - Timer relay |
| ETIM 5                     | EC001439 - Timer relay |
| ETIM 6                     | EC001439 - Timer relay |
| ETIM 7                     | EC001439 - Timer relay |
| eClass                     | 7.0 27371790           |
| UNSPSC                     | 39121519               |
| E-Number (Sweden)          | 4033115                |

## Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Time Relays

