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PRODUCT-DETAILS

CT-ERS.12P

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



General Information	
Extended Product Type	CT-ERS.12P
Product ID	1SVR740100R3100
EAN	4016779851664
Catalog Description	CT-ERS.12P Time relay, ON-delay 1c/o, 24-48VDC, 24-240VAC
Long Description	The CT-ERS.12P 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 maintenance free Easy Connect Technology with push-in terminals.

Ordering	
EAN	4016779851664
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads	
Data Sheet, Technical Information	2CDC110004C0210_01
Instructions and Manuals	1SVC730050M1000 1SVC730050M0000
CAD Dimensional Drawing	2CDC001079B0201

Dimensions	
Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.101 kg

Time Range 0.05 s300 h Rated Control Supply 24 24 V AC V AC Voltage (Us) 24 24 V AC V A	Technical	
Rated Control Supply Voltage (Us) Rated Operational Voltage Rated Frequency (f) So (60 Hz CoC Output 1 c/o (SPDT) contact Terminal Type Screwless Terminals Rated Operational Current AC-12 (le) Rated Operational Current AC-12 (le) Rated Operational Current AC-15 (le) Rated Operational Current AC-15 (le) Rated Operational Current AC-15 (le) Rated Operational Current DC-12 (le) Rated Operational Current DC-12 (le) Rated Operational Current DC-13 (le) Rated Operational Current DC-14 (le) Rated Operational Current DC-15 (le) Rated Input Circuit 2 (le) Rated Operational Current DC-15 (le) Rated Operational Current DC-16 (le) Rated Operational Current DC-18 (le) Rated Operational Current DC-18 (le) Rated Operational Current DC-19 (le) Rated Operational Current DC-19 (le) Rated Input Circuit 2 (le) Rated Input Circuit 2 (le) Rated Input Circuit 2 (le) Rated Input Circuit 1 (le) Rated Input Circuit 2 (le) Rated Input Circuit 1 (le) Rated Input Circuit 2 (le)	Timer Relay Type	ON-Delay
Voltage (Us) 2448 V DC Rated Operational Voltage (Sated Prequency (F) 50 / 60 Hz Rated Frequency (F) 50 / 60 Hz DC Output 1c/o (SPDT) contact Terminal Type Screwless Terminals Rated Operational Current AC-12 (Ie) Rated Operational Current AC-12 (Ie) Rated Operational Current AC-15 (Ie) Rated Operational Current DC-13 (Ie) Rated Inputs Rated Inputs Rated Input Circuit 1 / Output Circuit 2 4 kV V) Rated Insulation Voltage (Input Circuit 1 / Output Circuit 2 4 kV V) Rated Insulation Voltage (Input Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit NO - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices Output Circuit NO - F Type Fuses 9 A Devices	Time Range	0.05 s 300 h
Voltage Rated Frequency (f) Coutput Coutput Coutput Coutput Coremanal Type Screwless Terminals Rated Operational Current AC-12 (fe) Rated Operational Current AC-15 (fe) Rated Operational Current AC-15 (fe) Rated Operational Current CD-12 (fe) Rated Operational Current DC-12 (fe) Rated Input Circuit PC-12 (fe) Capacity Capacity Capacity Capacity Capacity Coutput Circuit 1 / Output Circuit 2 4 kV Capacity Coutput Circuit 1 / Output Circuit 2 4 kV Capacity Coutput Circuit Pootput Circuit 2 4 kV Coutput Circuit Pootput Circuit Pootput Circuit Soot V Coutput Circuit Pootput Circuit Pootput Circuit Soot V Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit Protective Courput Circuit Protective Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 6 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A Coutput Circuit NC - F Type Fuses 10 A	Rated Control Supply Voltage (U _s)	
Output 1 c/o (SPDT) contact Terminal Type Screwless Terminals Rated Operational (230 V) 4 A Current AC-12 (le) (230 V) 4 A Rated Operational (24 V) 4 A Current DC-15 (le) (24 V) 4 A Rated Operational (24 V) 2 A Current DC-13 (le) (24 V) 2 A Rated Operational (24 V) 2 A Current DC-13 (le) (24 V) 2 A Withstand Switching 12 V Capacity Output Circuit 1 / Output Circuit 2 4 kV Withstand Voltage (Uimp) Output Circuit 1 / Output Circuit 2 4 kV O) Output Circuit / Output Circuit 2 300 V Read Insulation Voltage Input Circuit / Output Circuit 2 300 V Obegree of Protection Housing IPSO Overvoltage Category Ill Pollution Degree 3 Short-Circuit Protective Output Circuit NO - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexib	Rated Operational Voltage	Auxiliary Circuit 250 V
Terminal Type Rated Operational Current AC-12 (le) Rated Operational Current AC-15 (le) Rated Operational Current AC-15 (le) Rated Operational Current DC-15 (le) Rated Operational Current DC-12 (le) Rated Operational Current DC-12 (le) Rated Operational Current DC-13 (le) Rated Operational Current DC-13 (le) Minimum Switching Capacity Minimum Switching Capacity Minimum Switching Capacity Output Circuit 1 / Output Circuit 2 4 kV) Rated Insulation Voltage (U _{imp} Output Circuit 1 / Output Circuit 2 4 kV) Rated Insulation Voltage (Ui) Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Degree of Protection Rousing IPSO Terminals IPSO Overvoltage Category III Pollution Degree Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NC - F Type Fuses 10 A Delectrical Durability AC-12 100000 cycle Mechanical Durability Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible vith Insulated Ferrule 2x 0.5 1.5 mm² Flexible vith Insulated Ferrule 2x 0.5 1.5 mm² Flexible x 0.5 1.5 mm²	Rated Frequency (f)	50 / 60 Hz DC
Rated Operational (230 V) 4 A	Output	1 c/o (SPDT) contact
Current AC-12 (Ie) (230 V) 3 A Rated Operational (24 V) 4 A Current DC-12 (Ie) (24 V) 4 A Rated Operational (24 V) 2 A Current DC-13 (Ie) (24 V) 2 A Minimum Switching 12 V Capacity 100 mA Rated Impulse Input Circuit 4 kV Withstand Voltage (Ump) Output Circuit 7 Output Circuit 2 4 kV V) Output Circuit 7 Output Circuit 2 300 V Rated Insulation Voltage Input Circuit 7 Output Circuit 2 300 V (Ui) Output Circuit 1 / Output Circuit 2 300 V Degree of Protection Housing IP50 Terminals IP20 Overvoltage Category III Pollution Degree Output Circuit NC - F Type Fuses 6 A Short-Circuit Protective Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NC - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability AC-12 100000 cycle Connecting Capacity Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible with Insul	Terminal Type	Screwless Terminals
Current AC-15 (le) Rated Operational Current DC-12 (le) Rated Operational Current DC-12 (le) Minimum Switching Capacity Minimum Switching Capacity Rated Impulse Input Circuit 1 / Output Circuit 4 kW Withstand Voltage (Uimp Output Circuit 1 / Output Circuit 2 4 kW) Rated Insulation Voltage Input Circuit / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Degree of Protection Regree of Protection Fundant Silve Overvoltage Category Illi Pollution Degree Short-Circuit Protective Output Circuit NO - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm²	Rated Operational Current AC-12 (I _e)	(230 V) 4 A
Current DC-12 (le) Rated Operational (24 V) 2 A Current DC-13 (le) Minimum Switching 12 V Capacity 100 mA Rated Impulse Input Circuit 4 kV Withstand Voltage (U _{imp}) Output Circuit 1 / Output Circuit 2 4 kV) Rated Insulation Voltage Input Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit 1 / Output Circuit 2 Minimum Switching Input Circuit No - F Type Fuses 6 A Output Circuit No - F Type Fuses 6 A Output Circuit No - F Type Fuses 10 A Devices Output Circuit No - F Type Fuses 10 A Device No - In Fuse No - In Fuse No - In Fuse	Rated Operational Current AC-15 (I_e)	(230 V) 3 A
Current DC-13 (Ie) Minimum Switching Capacity 100 mA Rated Impulse Input Circuit 4 kW Withstand Voltage (Uimp) Output Circuit 1 / Output Circuit 2 4 kV) Rated Insulation Voltage (Ui) Output Circuit 1 / Output Circuit 2 300 V Degree of Protection Input Circuit 1 / Output Circuit 2 300 V Degree of Protection Terminals IP20 Overvoltage Category Ill Pollution Degree Short-Circuit Protective Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability Terminals IP20 Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Rated Operational Current DC-12 (I _e)	(24 V) 4 A
Capacity Rated Impulse Withstand Voltage (Uimp) Output Circuit 1 / Output Circuit 2 4 kV Note of Protection Reted Insulation Voltage (Ui) Degree of Protection Degree Short-Circuit Protective Devices Devices Devices Devices Decription Reted Insulation Voltage Output Circuit 1 / Output Circuit 2 300 V Output Circuit 1 / Output Circuit 2 300 V Routput Circuit 1 / Output Circuit 2 300 V Routput Circuit 1 / Output Circuit 2 300 V Routput Circuit 1 / Output Circuit 2 300 V Routput Circuit NC - F Type Fuses 6 A Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Rated Operational Current DC-13 (I _e)	(24 V) 2 A
Withstand Voltage (Uimp) Rated Insulation Voltage Input Circuit / Output Circuit 500 V (Ui) Output Circuit / Output Circuit 2 300 V Degree of Protection Housing IP50 Terminals IP20 Overvoltage Category III Pollution Degree Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability S0000000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Minimum Switching Capacity	12 V 100 mA
(Ui) Output Circuit 1 / Output Circuit 2 300 V Degree of Protection Housing IP50 Terminals IP20 Overvoltage Category III Pollution Degree Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability 30000000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Rated Impulse Withstand Voltage (U _{imp})	Input Circuit 4 kV Output Circuit 1 / Output Circuit 2 4 kV
Terminals IP20 Overvoltage Category Pollution Degree Short-Circuit Protective Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability AC-12 100000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Rated Insulation Voltage (U _i)	Input Circuit / Output Circuit 500 V Output Circuit 1 / Output Circuit 2 300 V
Pollution Degree Short-Circuit Protective Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Degree of Protection	Housing IP50 Terminals IP20
Short-Circuit Protective Devices Output Circuit NC - F Type Fuses 6 A Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability 30000000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Overvoltage Category	III
Devices Output Circuit NO - F Type Fuses 10 A Electrical Durability AC-12 100000 cycle Mechanical Durability 30000000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Pollution Degree	3
Mechanical Durability 3000000 cycle Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Short-Circuit Protective Devices	Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A
Connecting Capacity Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 2x 0.5 1.5 mm²	Electrical Durability	AC-12 100000 cycle
Flexible with Insulated Ferrule 2x 0.5 1.5 mm ² Flexible 2x 0.5 1.5 mm ² Rigid 2x 0.5 1.5 mm ²	Mechanical Durability	30000000 cycle
Wire Stripping Length 8 mm	Connecting Capacity	Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 2x 0.5 1.5 mm²
	Wire Stripping Length	8 mm

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Mounting on DIN Rail	TH35-15 (35 \times 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 \times 7.5 mm Mounting Rail) acc. to IEC 60715
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 61812-1 UL 508

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Output Circuit 300 V AC
Contact Rating UL/CSA	B300
Connecting Capacity UL/CSA	Flexible 2x 18-16 AWG Rigid 2x 20-16 AWG
Pilot Duty UL/CSA	B300
Flammability According to UL94	V-0

Environmental	
Ambient Air	Operation -25 +60 °C
Temperature	Storage -40 +85 °C
Maximum Operating	Without Derating 2000 m
Altitude Permissible	

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Information	1SVD981001-4401
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006536

Circular Value	
ABB EcoSolutions	Yes
End of Life Instructions	1SAC200290H0001
Group Waste to Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility

Eco Transparency	
Environmental Product Declaration - EPD	1SAC200371M0001

Certificates and Declarations	
CQC Certificate	CQC2007010303255979
cULus Certificate	cULus508_20110711-E140448A
Declaration of Conformity - CCC	2020980303000207

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Declaration of Conformity - CE	1SVD981008
Declaration of Conformity - UKCA	1SVD981008-10
DNV GL Certificate	DNV_GL_TAA00000XR
RMRS Certificate	RMRS_1740021250

Container Information	
Package Level 1 Units	box 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	0.123 kg
Package Level 1 EAN	4016779851664

Classifications	
Object Classification Code	К
ETIM 7	EC001439 - Timer relay
ETIM 8	EC001439 - Timer relay
ETIM 9	EC001439 - Timer relay
eClass	V11.0 : 27371605
UNSPSC	39122329
E-Number (Finland)	2712222
E-Number (Norway)	4187951
E-Number (Sweden)	4033134

Categories

 $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Control\ Products\ \rightarrow\ Electronic\ Relays\ and\ Controls\ \rightarrow\ Time\ Relays\ \rightarrow\ CT-S$

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