



Timing relay, electronic ON delay 1 change-over contact, 7 time ranges 0.05 s...100 h 220 V AC/DC, 0.7...1.15 x US Screw terminal

Figure similar

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	7PV15
General technical data	
product component semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.2 kV
degree of pollution	2
surge voltage resistance rated value	4 000 V
test voltage for surge voltage test	4 800 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 s ... 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
minimum ON period	35 ms
recovery time	500 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	2 %; +/-
influence of the surrounding temperature	2% in complete temperature range for the set duration
power supply influence	2% in complete voltage range for the set duration
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	180 ... 240 V
• at 60 Hz	180 ... 240 V
control supply voltage frequency 1	50 ... 60 Hz
control supply voltage 1 at DC	
•	180 ... 240 V
operating range factor control supply voltage rated value at DC	

<ul style="list-style-type: none"> initial value 	0.85
<ul style="list-style-type: none"> full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> initial value 	0.85
<ul style="list-style-type: none"> full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> initial value 	0.85
<ul style="list-style-type: none"> full-scale value 	1.1

Switching Function

switching function	
<ul style="list-style-type: none"> ON-delay 	Yes
<ul style="list-style-type: none"> ON-delay/instantaneous contact 	No
<ul style="list-style-type: none"> passing make contact 	No
<ul style="list-style-type: none"> passing make contact/instantaneous contact 	No
<ul style="list-style-type: none"> OFF delay 	No
switching function	
<ul style="list-style-type: none"> flashing symmetrically with interval start/instantaneous 	No
<ul style="list-style-type: none"> flashing symmetrically with interval start 	No
<ul style="list-style-type: none"> flashing symmetrically with pulse start/instantaneous 	No
<ul style="list-style-type: none"> flashing symmetrically with pulse start 	No
<ul style="list-style-type: none"> flashing asymmetrically with interval start 	No
<ul style="list-style-type: none"> flashing asymmetrically with pulse start 	No
switching function	
<ul style="list-style-type: none"> star-delta circuit with delay time 	No
<ul style="list-style-type: none"> star-delta circuit 	No
switching function with control signal	
<ul style="list-style-type: none"> additive ON-delay 	No
<ul style="list-style-type: none"> passing break contact 	No
<ul style="list-style-type: none"> passing break contact/instantaneous 	No
<ul style="list-style-type: none"> OFF delay 	No
<ul style="list-style-type: none"> OFF delay/instantaneous 	No
<ul style="list-style-type: none"> pulse delayed 	No
<ul style="list-style-type: none"> pulse delayed/instantaneous 	No
<ul style="list-style-type: none"> pulse-shaping 	No
<ul style="list-style-type: none"> pulse-shaping/instantaneous 	No
<ul style="list-style-type: none"> additive ON-delay/instantaneous 	No
<ul style="list-style-type: none"> ON-delay/OFF-delay 	No
<ul style="list-style-type: none"> ON-delay/OFF-delay/instantaneous 	No
<ul style="list-style-type: none"> passing make contact 	No
<ul style="list-style-type: none"> passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
<ul style="list-style-type: none"> retrotriggerable with deactivated control signal/instantaneous contact 	No
<ul style="list-style-type: none"> retrotriggerable with switched-on control signal 	No
<ul style="list-style-type: none"> retrotriggerable with switched-on control signal/instantaneous contact 	No
<ul style="list-style-type: none"> retriggerable with deactivated control signal 	No
design of the control terminal non-floating	Yes

Short-circuit protection

design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
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Auxiliary circuit

material of switching contacts	AgSnO2
number of NC contacts	
<ul style="list-style-type: none"> delayed switching 	0
<ul style="list-style-type: none"> instantaneous contact 	0
number of NO contacts	
<ul style="list-style-type: none"> delayed switching 	0
<ul style="list-style-type: none"> instantaneous contact 	0
number of CO contacts	

<ul style="list-style-type: none"> • delayed switching • instantaneous contact 	1 0
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> • maximum • at 24 V • at 250 V 	3 A 3 A 3 A
operational current of auxiliary contacts as NC contact at AC-15	
<ul style="list-style-type: none"> • at 24 V • at 250 V 	3 A 3 A
operational current of auxiliary contacts as NO contact at AC-15	
<ul style="list-style-type: none"> • at 24 V • at 250 V 	3 A 3 A
operational current of auxiliary contacts at DC-13	1 ... 0.01
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> • at 24 V • at 125 V • at 250 V 	1 A 0.22 A 0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
contact rating of auxiliary contacts according to UL	R150 / B300
switching capacity current with inductive load	0.01 ... 3 A
Inputs/ Outputs	
product function	
<ul style="list-style-type: none"> • at the relay outputs switchover delayed/without delay • non-volatile 	No No
Electromagnetic compatibility	
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 	2 kV network connection / 1 kV control connection 2 kV 1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
category according to EN 954-1	none
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded 	1x (0.2 ... 2.5 mm ²) 1x (0.25 ... 1.5 mm ²) 1x (0.2 ... 1.5 mm ²) 1x (24 ... 14) 1x (24 ... 14)
connectable conductor cross-section	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing 	0.2 ... 2.5 m ² 0.25 ... 1.5 m ² 0.2 ... 1.5 m ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • solid • stranded 	24 ... 14 24 ... 14
Installation/ mounting/ dimensions	
mounting position	any

fastening method	snap-on fastening on 35 mm DIN rail
height	90 mm
width	17.5 mm
depth	66.7 mm
required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 0 mm — downwards 0 mm • for live parts <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm 	

Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul style="list-style-type: none"> • during operation -25 ... +55 °C • during storage -40 ... +70 °C • during transport -40 ... +70 °C 	
relative humidity during operation	15 ... 85 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	22.4 kg
Global Warming Potential [CO2 eq] during manufacturing	1.34 kg
Global Warming Potential [CO2 eq] during operation	21.2 kg
Global Warming Potential [CO2 eq] after end of life	-0.156 kg

Approvals Certificates

General Product Approval



[Confirmation](#)



EG-Konf.



CCC



UL



EMV	other	Environment
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RCM

[KC](#)

[Confirmation](#)



[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7PV1518-1AN30>

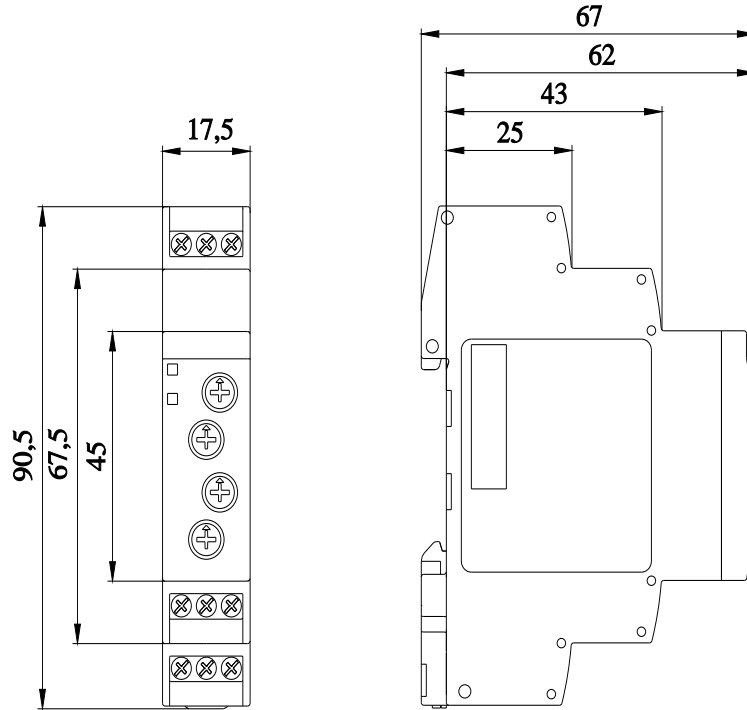
Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1518-1AN30>

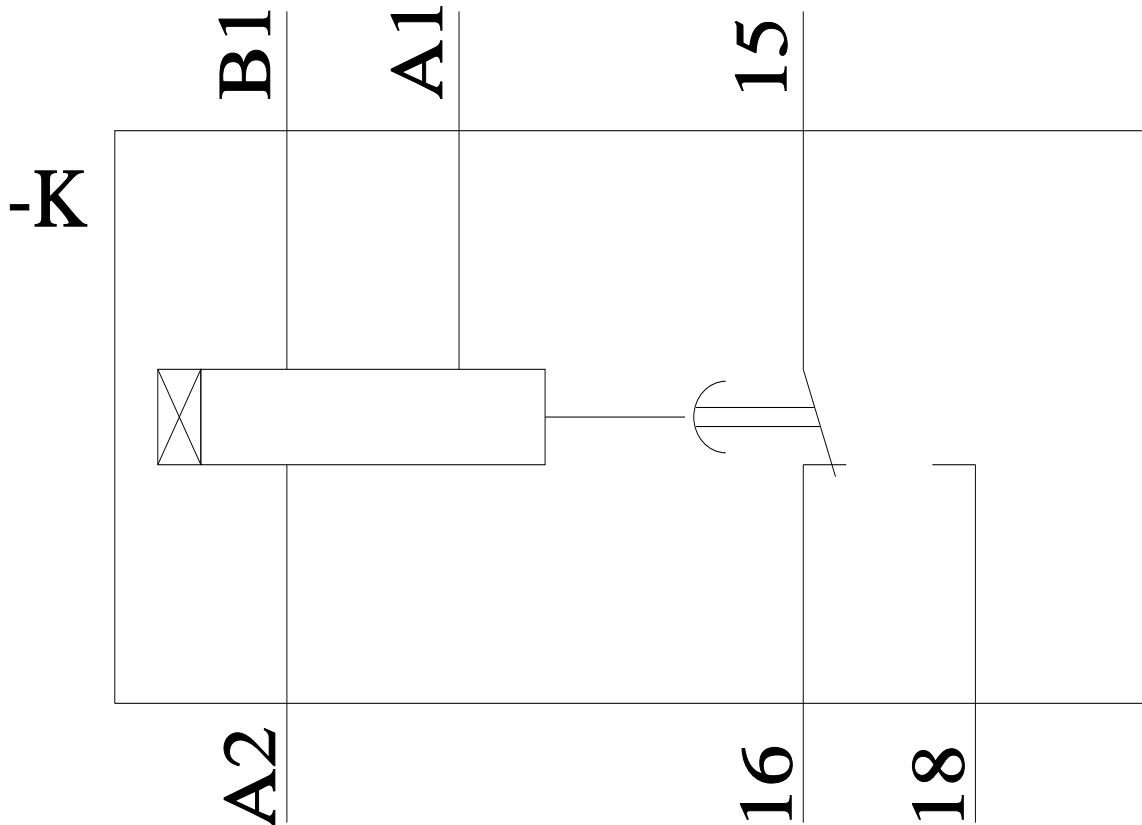
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/7PV1518-1AN30>

[Image database \(product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...\)](#)



Alle Bemessungswerte sind in Millimeter (mm) angegeben
All dimensions are in millimeters (mm)



last modified:

3/12/2024 