



Timing relay, electronic OFF delay without control signal, 1 change-over contact 7 time ranges 0.05...100 s 12-240 V AC/DC with LED, Screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	With OFF-delay
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 ... 100 s
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 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	12 ... 240 V
• at 60 Hz	12 ... 240 V
control supply voltage frequency 1	50 ... 60 Hz
control supply voltage 1	
• at DC	12 ... 240 V
operating range factor control supply voltage rated value at DC	
• 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 	No
<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 	Yes
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	No

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 	1

<ul style="list-style-type: none"> instantaneous contact 	0
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> maximum 	3 A
<ul style="list-style-type: none"> at 24 V 	3 A
<ul style="list-style-type: none"> at 250 V 	3 A
operational current of auxiliary contacts as NC contact at AC-15	
<ul style="list-style-type: none"> at 24 V 	3 A
<ul style="list-style-type: none"> at 250 V 	3 A
operational current of auxiliary contacts as NO contact at AC-15	
<ul style="list-style-type: none"> at 24 V 	3 A
<ul style="list-style-type: none"> at 250 V 	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 	1 A
<ul style="list-style-type: none"> at 125 V 	0.22 A
<ul style="list-style-type: none"> at 250 V 	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 	No
<ul style="list-style-type: none"> non-volatile 	Yes
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 	2 kV network connection / 1 kV control connection
<ul style="list-style-type: none"> due to conductor-earth surge according to IEC 61000-4-5 	2 kV
<ul style="list-style-type: none"> due to conductor-conductor surge according to IEC 61000-4-5 	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
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 	1x (0.2 ... 2.5 mm ²)
<ul style="list-style-type: none"> finely stranded with core end processing 	1x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> finely stranded without core end processing 	1x (0.2 ... 1.5 mm ²)
<ul style="list-style-type: none"> for AWG cables solid 	1x (24 ... 14)
<ul style="list-style-type: none"> for AWG cables stranded 	1x (24 ... 14)
connectable conductor cross-section	
<ul style="list-style-type: none"> solid 	0.2 ... 2.5 m ²
<ul style="list-style-type: none"> finely stranded with core end processing 	0.25 ... 1.5 m ²
<ul style="list-style-type: none"> finely stranded without core end processing 	0.2 ... 1.5 m ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> solid 	24 ... 14
<ul style="list-style-type: none"> stranded 	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	EMC	Declaration of Con- formity
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[Confirmation](#)



Declaration of Con- formity	Test Certificates	other	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Con-
firmations](#)

Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

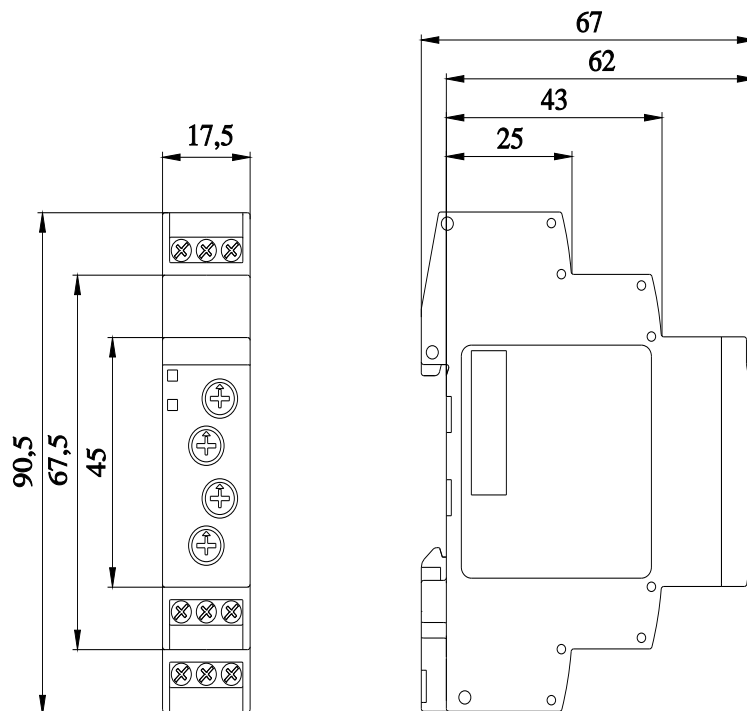
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

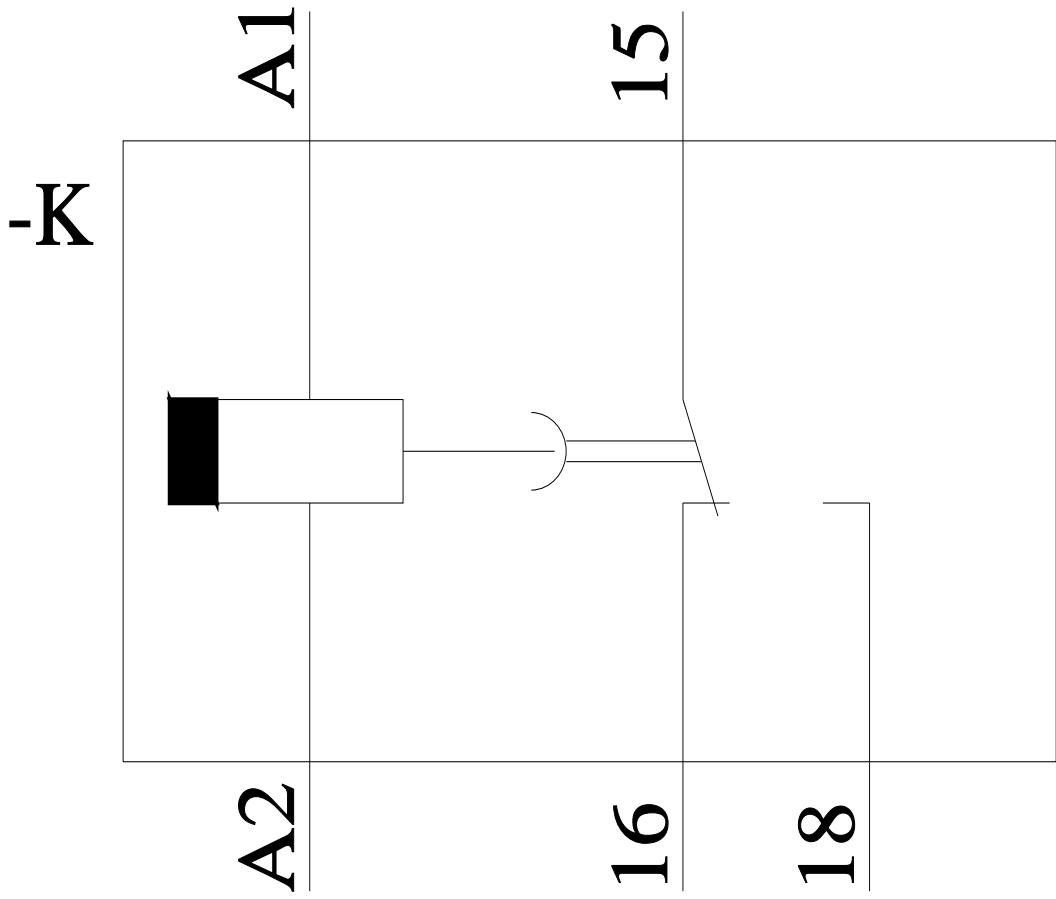
Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7PV1540-1AW30>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1540-1AW30>



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



last modified:

11/1/2023 ↗