



Figure similar

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

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
vibration resistance according to IEC 60068-2-6	10 ... 55 Hz: 0.35 mm
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
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	
• initial value	0.85
• full-scale value	1.1

operating range factor control supply voltage rated value at AC at 50 Hz

- initial value 0.85
- full-scale value 1.1

operating range factor control supply voltage rated value at AC at 60 Hz

- initial value 0.85
- full-scale value 1.1

Switching Function

switching function

- ON-delay Yes
- ON-delay/instantaneous contact No
- passing make contact No
- passing make contact/instantaneous contact No
- OFF delay No

switching function

- flashing symmetrically with interval start/instantaneous No
- flashing symmetrically with interval start No
- flashing symmetrically with pulse start/instantaneous No
- flashing symmetrically with pulse start No
- flashing asymmetrically with interval start No
- flashing asymmetrically with pulse start No

switching function

- star-delta circuit with delay time No
- star-delta circuit No

switching function with control signal

- additive ON-delay No
- passing break contact No
- passing break contact/instantaneous No
- OFF delay No
- OFF delay/instantaneous No
- pulse delayed No
- pulse delayed/instantaneous No
- pulse-shaping No
- pulse-shaping/instantaneous No
- additive ON-delay/instantaneous No
- ON-delay/OFF-delay No
- ON-delay/OFF-delay/instantaneous No
- passing make contact No
- passing make contact/instantaneous contact No

switching function of interval relay with control signal

- retrotriggerable with deactivated control signal/instantaneous contact No
- retrotriggerable with switched-on control signal No
- retrotriggerable with switched-on control signal/instantaneous contact No
- 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

Auxiliary circuit

material of switching contacts

AgSnO2

number of NC contacts

- delayed switching 0
- instantaneous contact 0

number of NO contacts

- delayed switching 0
- instantaneous contact 0

number of CO contacts

- delayed switching 1
- instantaneous contact 0

operational current of auxiliary contacts at AC-15	
• maximum	3 A
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NC contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NO contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	1 ... 0.01
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.22 A
• 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	
• at the relay outputs switchover delayed/without delay	No
• non-volatile	No

Electromagnetic compatibility

EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
• due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• 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

type of insulation	Basic insulation
category according to EN 954-1	none

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	
• solid	1x (0.2 ... 2.5 mm ²)
• finely stranded with core end processing	1x (0.25 ... 1.5 mm ²)
• finely stranded without core end processing	1x (0.2 ... 1.5 mm ²)
• at AWG cables solid	1x (24 ... 14)
• at AWG cables stranded	1x (24 ... 14)
connectable conductor cross-section	
• solid	0.2 ... 2.5 m ²
• finely stranded with core end processing	0.25 ... 1.5 m ²
• finely stranded without core end processing	0.2 ... 1.5 m ²
AWG number as coded connectable conductor cross section	
• solid	24 ... 14
• 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


• with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
• for live parts	
— 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	
• during operation	-25 ... +55 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity during operation	15 ... 85 %

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity			
Confirmation					

Declaration of Conformity	other	Environment
	Confirmation	Environmental Confirmations

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=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,...)

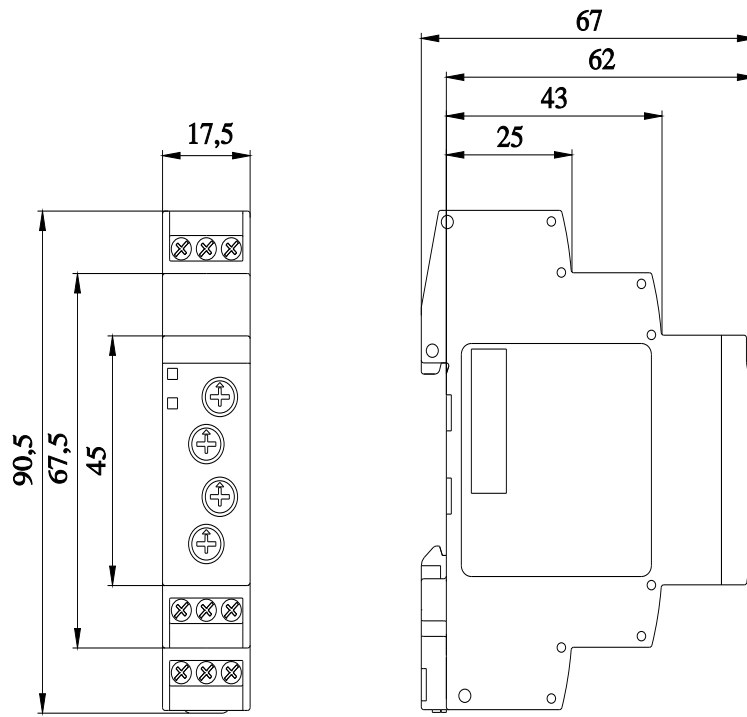
<https://support.industry.siemens.com/cs/ww/en/ps/7PV1518-1AN30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1518-1AN30&lang=en

Characteristic: Derating

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



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

