



Timing relay, electronic ON delay 1 change-over contact, 1 time range
0.5...10 s 24/110 V AC and 24 V DC with LED, 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 acc. to IEC 60068-2-27	11g / 15 ms
vibration resistance acc. to IEC 60068-2-6	10 ... 55 Hz: 0.35 mm
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.5 ... 10 s
relative setting accuracy relating to full-scale value	5 %
minimum ON period	35 ms
recovery time	500 ms
reference code acc. to IEC 81346-2	K
relative repeat accuracy	2 %
Substance Prohibittance (Date)	01.05.2012 00:00:00
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	100 ... 127 V
• at 60 Hz	100 ... 127 V
control supply voltage 2 at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
control supply voltage frequency 1	50 ... 60 Hz
control supply voltage 1	
• at DC rated value	24 V

operating range factor control supply voltage rated value at DC • initial value • full-scale value	0.85 1.1
operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value	0.85 1.1
operating range factor control supply voltage rated value at AC at 60 Hz • initial value • full-scale value	0.85 1.1
Switching Function	
switching function • ON-delay • ON-delay/instantaneous contact • passing make contact • passing make contact/instantaneous contact • OFF delay	Yes No No No No
switching function • flashing symmetrically with interval start/instantaneous • flashing symmetrically with interval start • flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start	No No No No No No
switching function • star-delta circuit with delay time • star-delta circuit	No No
switching function with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay/instantaneous • pulse delayed • pulse delayed/instantaneous • pulse-shaping • pulse-shaping/instantaneous • additive ON-delay/instantaneous • ON-delay/OFF-delay • ON-delay/OFF-delay/instantaneous • passing make contact • passing make contact/instantaneous contact	No No No No No No No No No No No No No No No
switching function of interval relay with control signal • retrotriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal/instantaneous contact • retriggerable with deactivated control signal	No No No 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
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	

• delayed switching • instantaneous contact	0
number of NO contacts	0
• delayed switching • instantaneous contact	0
number of CO contacts	1
• delayed switching • instantaneous contact	0
operational current of auxiliary contacts at AC-15	3 A
• maximum • at 24 V • at 250 V	3 A 3 A 3 A
operational current of auxiliary contacts as NC contact at AC-15	3 A
• at 24 V • at 250 V	3 A 3 A
operational current of auxiliary contacts as NO contact at AC-15	3 A
• 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	1 A
• at 24 V • at 125 V • at 250 V	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
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
switching capacity current with inductive load	0.01 ... 3 A
Inputs/ Outputs	
product function	No
• at the relay outputs switchover delayed/without delay • non-volatile	No
Electromagnetic compatibility	
EMC immunity acc. to IEC 61812-1	EN 61000-6-2
conducted interference	2 kV network connection / 1 kV control connection
• due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5	2 kV 1 kV
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
type of insulation	Basic insulation
category acc. 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	1x (0.2 ... 2.5 mm ²)
• solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded	1x (0.25 ... 1.5 mm ²) 1x (0.2 ... 1.5 mm ²) 1x (24 ... 14) 1x (24 ... 14)

connectable conductor cross-section		
• solid		0.2 ... 2.5 m²
• finely stranded with core end processing		0.25 ... 1.5 m²
• finely stranded without core end processing		0.2 ... 1.5 m²
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 standard 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



[Miscellaneous](#)

Test Certificates

other

[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

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=7PV1512-1AQ30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1512-1AQ30>

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

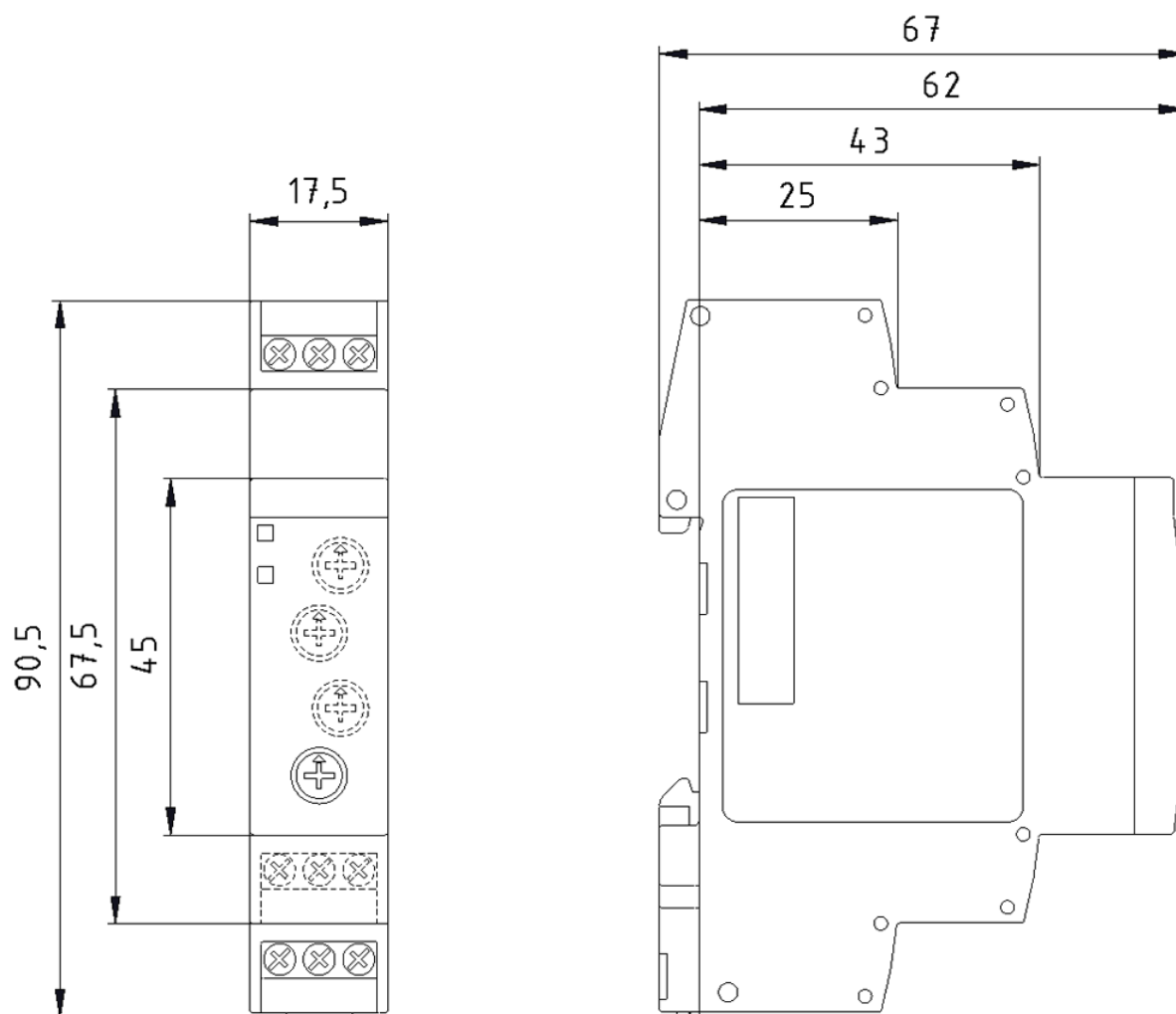
<https://support.industry.siemens.com/cs/ww/en/ps/7PV1512-1AQ30>

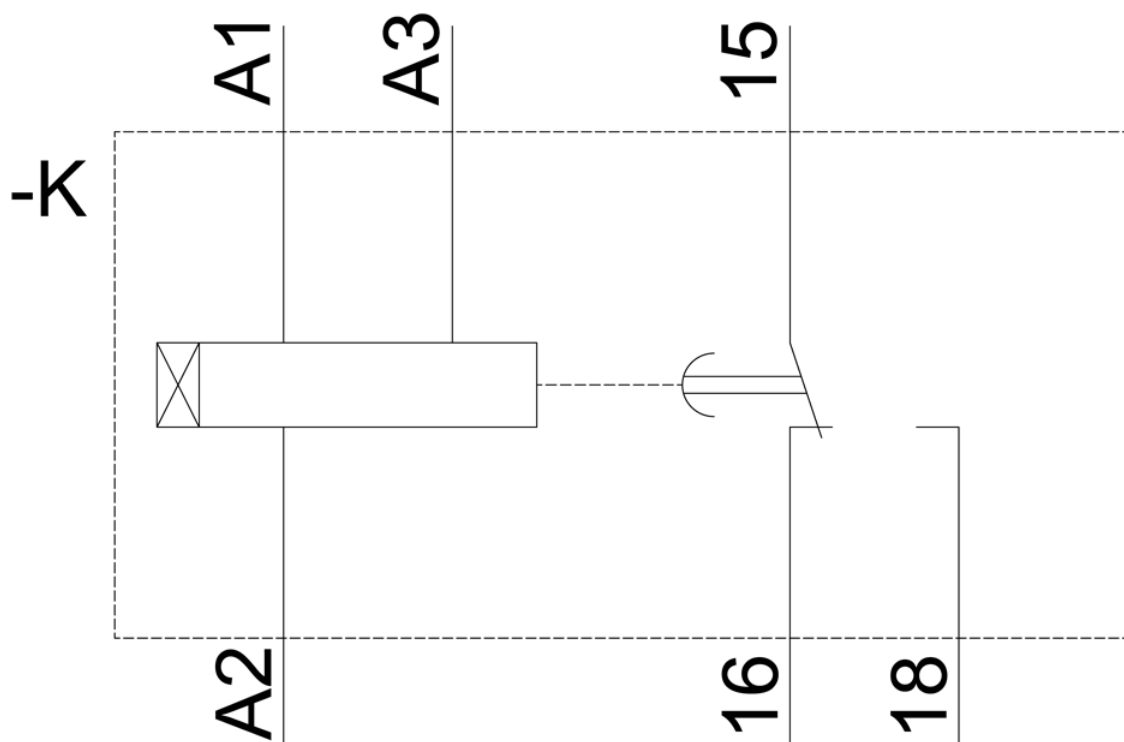
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1512-1AQ30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/7PV1512-1AQ30/manual>





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