# **SIEMENS**

### Data sheet

## 7PV1518-1AW30

Timing relay, electronic ON delay 1 change-over contact, 7 time ranges 0.05 s...100 h 12-240 V AC/DC wide voltage range 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	
<ul> <li>semi-conductor output</li> </ul>	No
Product extension required remote control	No
Product extension optional remote control	No
Power loss [W] total typical	2 W
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
Mechanical service life (switching cycles)	
• typical	10 000 000

Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
Adjustable time	0.05 s 100 h
Relative setting accuracy relating to full-scale value	5 %
Minimum ON period	35 ms
Recovery time	500 ms
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	К
Relative repeat accuracy	2 %
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	0.05
• 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
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
• OFF delay	No
Switching function	
<ul> <li>flashing symmetrically starting with interval/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically starting with interval</li> </ul>	No

Number of NO contacts	
• instantaneous contact	0
<ul> <li>delayed switching</li> </ul>	0
Number of NC contacts	
Material of switching contacts	AgSnO2
Auxiliary circuit	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 4 A
Design of the fuse link	
Short-circuit protection	
Design of the control terminal non-floating	Yes
retriggerable with deactivated control signal	No
signal/instantaneous contact	
<ul> <li>retrotriggerable with activated control</li> </ul>	No
retrotriggerable with activated control signal	No
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
Switching function of interval relay with control signal	
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
ON-delay/OFF-delay/instantaneous	No
• ON-delay/OFF-delay	No
additive ON delay/instantaneous	No
pulse-shaping/instantaneous	No
pulse-shaping	No
pulse delayed/instantaneous	No
• pulse delayed	No
OFF delay/instantaneous	No
• OFF delay	No
passing break contact/instantaneous	No
passing break contact	No
additive ON delay	No
star-delta circuit     Switching function with control signal	INO
star-delta circuit with delay time	No
Switching function	No
flashing asymmetrically starting with pulse	No
flashing asymmetrically starting with interval	No
flashing symmetrically starting with pulse	No
pulse/instantaneous	

<ul> <li>delayed switching</li> </ul>	0
<ul> <li>instantaneous contact</li> </ul>	0
Number of CO contacts	
<ul> <li>delayed switching</li> </ul>	1
<ul> <li>instantaneous contact</li> </ul>	0
Operating current of auxiliary contacts at AC-15	
• maximum	3 A
• at 24 V	3 A
• at 250 V	3 A
Operating current of auxiliary contacts as NC contact	
at AC-15	
• at 24 V	3 A
• at 250 V	3 A
Operating current of auxiliary contacts as NO contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
Operating current of auxiliary contacts at DC-13	1 0.01
Operating 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
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	
<ul> <li>at the relay outputs Switchover delayed/without</li> </ul>	No
delay	
• non-volatile	No
Electromagnetic compatibility	
EMI immunity	
• acc. to IEC 61812-1	EN 61000-6-2
Conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV

<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
Field-bound parasitic coupling 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	
Protection against electrical shock	finger-safe
Type of insulation	Basic insulation
Category acc. to EN 954-1	none
Connections/ Terminals	
Product function	
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	No
Type of electrical connection	
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections	
• solid	1x (0.2 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.2 1.5 mm²)
<ul> <li>at AWG conductors solid</li> </ul>	1x (24 14)
<ul> <li>at AWG conductors stranded</li> </ul>	1x (24 14)
Connectable conductor cross-section	
• solid	0.2 2.5 m²
<ul> <li>finely stranded with core end processing</li> </ul>	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
nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	snap-on fastening on 35 mm standard rail
Height	90 mm
AAP JAL	

Mounting type	shap-on lastening on 55 mm standard rail
Height	90 mm
Width	17.5 mm
Depth	66.7 mm
Required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm

<ul> <li>for grounded parts</li> </ul>	
— 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
Relative humidity	
<ul> <li>during operation</li> </ul>	15 85 %

Certificates/ appi	rovals				
General Prod	luct Approval		EMC	Declaration of	Conformity
		EHC	RCM	EG-Konf.	Miscellaneous

Test Certific- ates	other
ates Type Test Certific- ates/Test Report	Confirmation

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) www.siemens.com/sirius/catalogs

#### Industry Mall (Online ordering system)

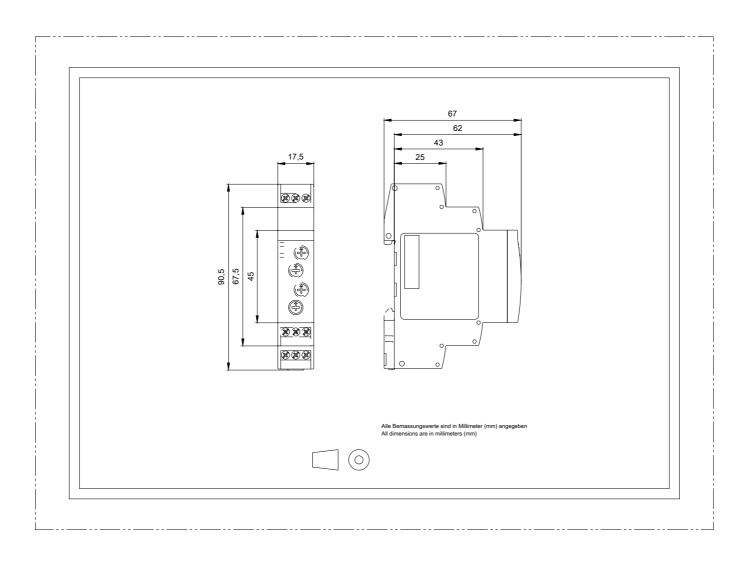
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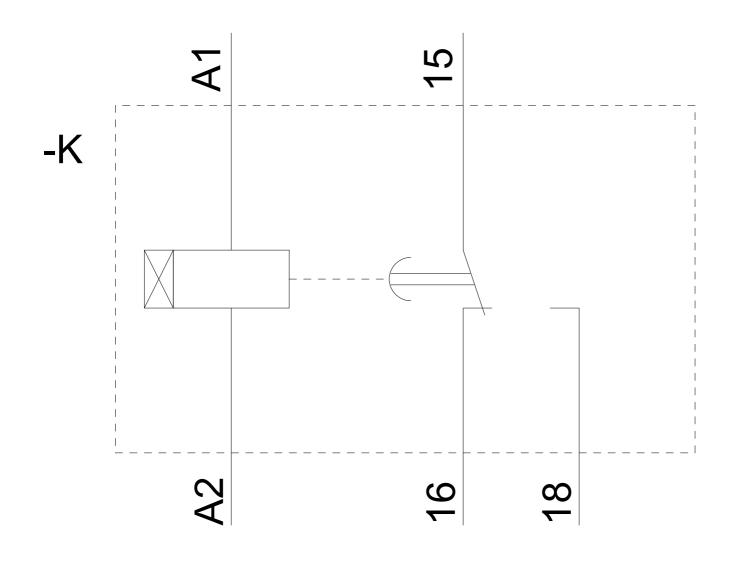
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1518-1AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7PV1518-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=7PV1518-1AW30&lang=en\_\_\_\_\_





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