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 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	0.05 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 IEC 81346-2	K		
relative repeat accuracy	2 %		
Substance Prohibitance (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	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		

a full coole value	1.1
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	1.1
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 Outstain function	No
switching function	Na
 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 passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
signal/instantaneous contact	110
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	
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	·· <u>9</u> -··- -
delayed switching	0
instantaneous contact	0
number of NO contacts	
number of NO contacts	

- dolovod avitabina	0		
delayed switching instantaneous contact	0		
instantaneous contact number of CO contacts	0		
	1		
delayed switching instantaneous contact	1		
	U		
operational current of auxiliary contacts at AC-15	2 /		
• 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		
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			
 at the relay outputs switchover delayed/without delay 	No		
• non-volatile	No		
non-volatile	No		
non-volatile Electromagnetic compatibility			
non-volatile	No EN 61000-6-2		
non-volatile Electromagnetic compatibility EMC immunity acc. to IEC 61812-1 conducted interference	EN 61000-6-2		
non-volatile Electromagnetic compatibility EMC immunity acc. to IEC 61812-1 conducted interference			
non-volatile Electromagnetic compatibility EMC immunity acc. to IEC 61812-1 conducted interference	EN 61000-6-2 2 kV network connection / 1 kV control connection		
non-volatile Electromagnetic compatibility EMC immunity acc. to IEC 61812-1 conducted interference	EN 61000-6-2 2 kV network connection / 1 kV control connection 2 kV		
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non-volatile Electromagnetic compatibility EMC immunity acc. to IEC 61812-1 conducted interference 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	EN 61000-6-2 2 kV network connection / 1 kV control connection 2 kV 1 kV		
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finely stranded without core end processing	0.2	. 1.5 m²					
AWG number as coded connectable conductor cross							
section							
• solid	24 14						
• stranded	24	24 14					
nstallation/ 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 mn	0 mm					
— upwards	0 mn	0 mm					
— downwards	0 mm						
— at the side	0 mn	0 mm					
Ambient conditions							
installation altitude at height above sea level maximum	2 000	2 000 m					
ambient temperature							
 during operation 	-25 +55 °C						
during storage	-40	-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=7PV1518-1AW30

Cax online generator

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

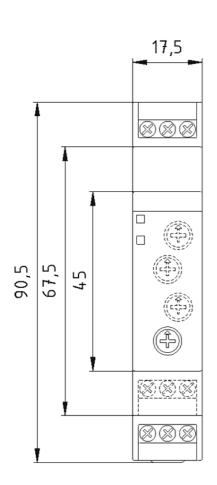
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

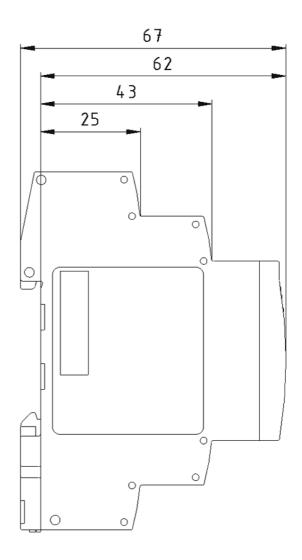
https://support.industry.siemens.com/cs/ww/en/ps/7PV1518-1AW30

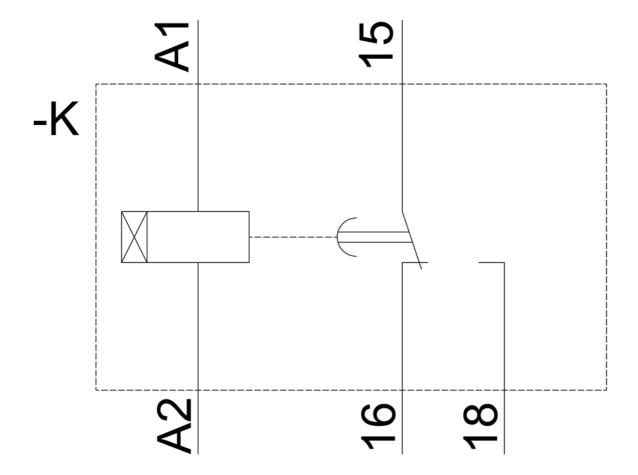
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1518-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/7PV1518-1AW30/manual







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