SIEMENS

Data sheet 7PV1558-1AW30

Timing relay, electronic Clock generator, 1 change-over contact 7 time ranges 0.05 s...100 h 12...240 V AC/DC with LED, Screw terminal



Product brand name	SIRIUS
Product designation	timing relay
Design of the product	Clock-pulse relay
Product type designation	7PV15

Seneral 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 DIN EN 81346-2	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	
• 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 	No
 ON-delay/instantaneous contact 	No
passing make contact	No
passing make contact/instantaneous contact	No

• OFF delay

Switching function

No

 flashing symmetrically starting with interval/instantaneous 	No
flashing symmetrically starting with interval	No
 flashing symmetrically starting with pulse/instantaneous 	No
 flashing symmetrically starting with pulse 	No
 flashing asymmetrically starting with interval 	Yes
 flashing asymmetrically starting with pulse 	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 activated control signal 	No
 retrotriggerable with activated control signal/instantaneous contact 	No
 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
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
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	
 at the relay outputs Switchover delayed/without 	No
delay	
● non-volatile	No
Electromagnetic compatibility	
EMI immunity	EN 64000 6 0
• acc. to IEC 61812-1	EN 61000-6-2
Onducted interference ● due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection

Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV

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	
 removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• solid	1x (0.2 2.5 mm²)
 finely stranded with core end processing 	1x (0.25 1.5 mm²)
 finely stranded without core end processing 	1x (0.2 1.5 mm²)
 at AWG conductors solid 	1x (24 14)
 at AWG conductors 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
Mounting type	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 Certific-	other
ates	

Type Test Certificates/Test Report

Confirmation

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

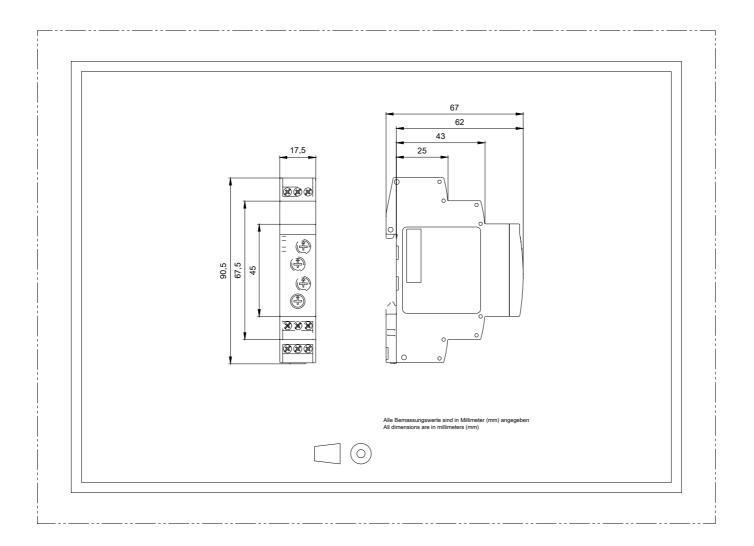
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7PV1558-1AW30

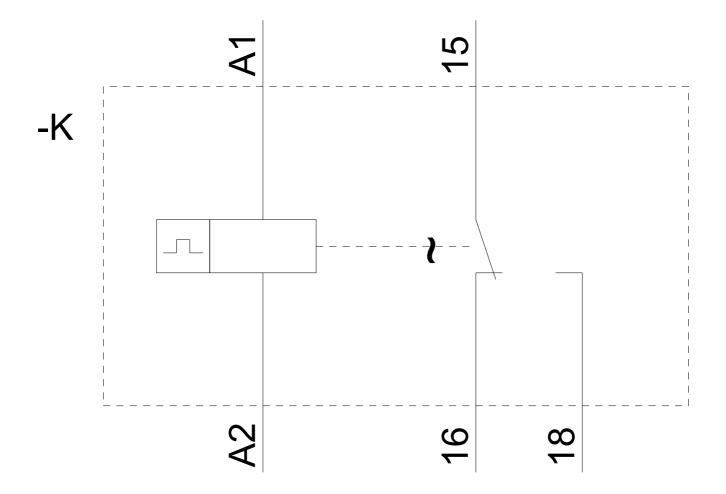
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1558-1AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7PV1558-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1558-1AW30&lang=en





last modified: 05/26/2020