SIEMENS

Data sheet

7PV1512-1AQ30

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



SIRIUS
timing relay
slow-operating
7PV15
No
No
No
2 W
2.2 kV
2
4 000 V
4 800 V
IP20
11g / 15 ms
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 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	K
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	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	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
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
• OFF delay	No
Switching function	

 flashing symmetrically starting with 	No
interval/instantaneous	
 flashing symmetrically starting with interval 	No
 flashing symmetrically starting with pulse/instantaneous 	No
 flashing symmetrically starting with pulse 	No
 flashing asymmetrically starting with interval 	No
 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 	No
signal/instantaneous contact	
signal/instantaneous contactretrotriggerable with activated control signal	No
•	No No
 retrotriggerable with activated control signal retrotriggerable with activated control 	
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact 	No
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal 	No No
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal Design of the control terminal non-floating 	No No
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal Design of the control terminal non-floating Short-circuit protection 	No No
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal Design of the control terminal non-floating Short-circuit protection Design of the fuse link 	No No No
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal Design of the control terminal non-floating Short-circuit protection Design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit 	No No No fuse gL/gG: 4 A
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal Design of the control terminal non-floating Short-circuit protection Design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit Material of switching contacts 	No No No
 retrotriggerable with activated control signal retrotriggerable with activated control signal/instantaneous contact retriggerable with deactivated control signal Design of the control terminal non-floating Short-circuit protection Design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit 	No No No fuse gL/gG: 4 A

 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
nputs/ Outputs	
Product function	
 at the relay outputs Switchover delayed/without 	No
delay	
non-volatile	No
Electromagnetic compatibility	
EMI immunity	
• acc. to IEC 61812-1	EN 61000-6-2
• 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 due to conductor-conductor surge acc. to IEC 61000-4-5 Field-bound parasitic coupling acc. to IEC 61000-4-3 Electrostatic discharge acc. to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety related data 	
61000-4-5 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	
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	_
removable terminal for auxiliary and control No circuit	
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 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 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	

0 mm
0 mm
0 mm

Ambient conditions

Installation altitude at height above sea level	
• maximum	2 000 m
Relative humidity	
 during operation 	15 85 %

Certificates/approvals

General Prod	uct Approval		Declaration of	f Conformity	Test Certific- ates
		EAC	EG-Konf.	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report

other

Confirmation

urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

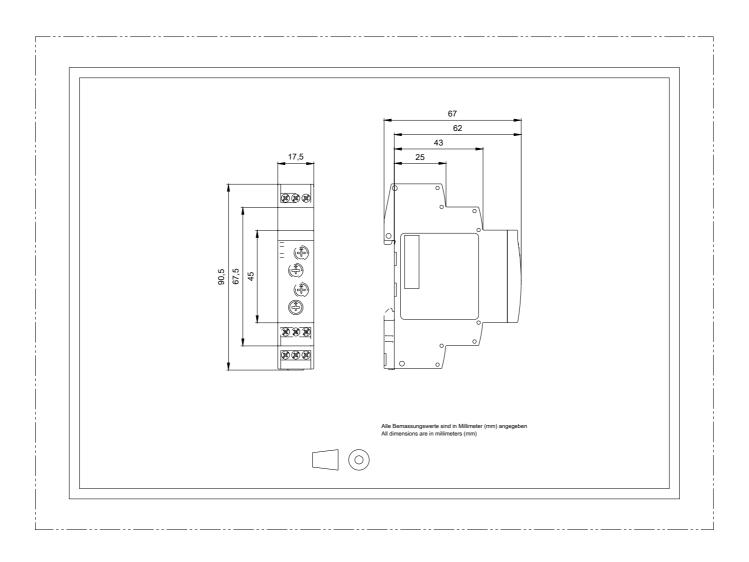
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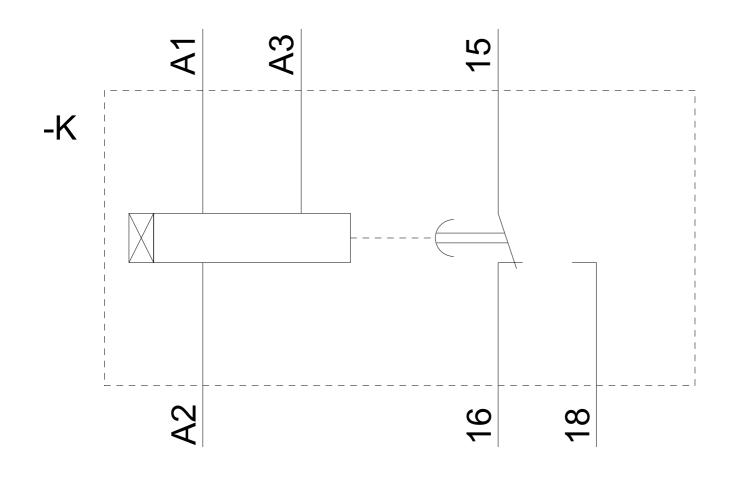
Cax online generator

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





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