



Timing relay, electronic ON delay 1 change-over contact, 1 time range
5...100 s 24 V/230 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 according to IEC 60068-2-27	11g / 15 ms
vibration resistance according 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	5 ... 100 s
relative setting accuracy relating to full-scale value	5 %; +/-
minimum ON period	35 ms
recovery time	500 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	2 %; +/-
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
Substance Prohibittance (Date)	05/01/2012
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	200 ... 240 V
• at 60 Hz	200 ... 240 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	
<ul style="list-style-type: none"> initial value full-scale value 	0.85 1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> initial value full-scale value 	0.85 1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> initial value full-scale value 	0.85 1.1
Switching Function	
switching function	
<ul style="list-style-type: none"> ON-delay ON-delay/instantaneous contact passing make contact passing make contact/instantaneous contact OFF delay 	Yes No No No No
switching function	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> star-delta circuit with delay time star-delta circuit 	No No
switching function with control signal	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> delayed switching instantaneous contact 	0 0

number of NO contacts	
<ul style="list-style-type: none"> • delayed switching • instantaneous contact 	0 0
number of CO contacts	
<ul style="list-style-type: none"> • delayed switching • instantaneous contact 	1 0
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> • maximum • at 24 V • at 250 V 	3 A 3 A 3 A
operational current of auxiliary contacts as NC contact at AC-15	
<ul style="list-style-type: none"> • at 24 V • at 250 V 	3 A 3 A
operational current of auxiliary contacts as NO contact at AC-15	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • at 24 V • at 125 V • at 250 V 	1 A 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
switching capacity current with inductive load	0.01 ... 3 A
Inputs/ Outputs	
product function	
<ul style="list-style-type: none"> • at the relay outputs switchover delayed/without delay • non-volatile 	No No
Electromagnetic compatibility	
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 	2 kV network connection / 1 kV control connection 2 kV 1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
type of insulation	Basic insulation
category according 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	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded 	1x (0.2 ... 2.5 mm ²) 1x (0.25 ... 1.5 mm ²) 1x (0.2 ... 1.5 mm ²) 1x (24 ... 14) 1x (24 ... 14)
connectable conductor cross-section	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing 	0.2 ... 2.5 m ² 0.25 ... 1.5 m ² 0.2 ... 1.5 m ²
AWG number as coded connectable conductor cross	

section	
<ul style="list-style-type: none"> • solid • stranded 	24 ... 14 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	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm

Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-25 ... +55 °C -40 ... +70 °C -40 ... +70 °C
relative humidity during operation	15 ... 85 %

Certificates/ approvals		
General Product Approval	EMC	Declaration of Conformity



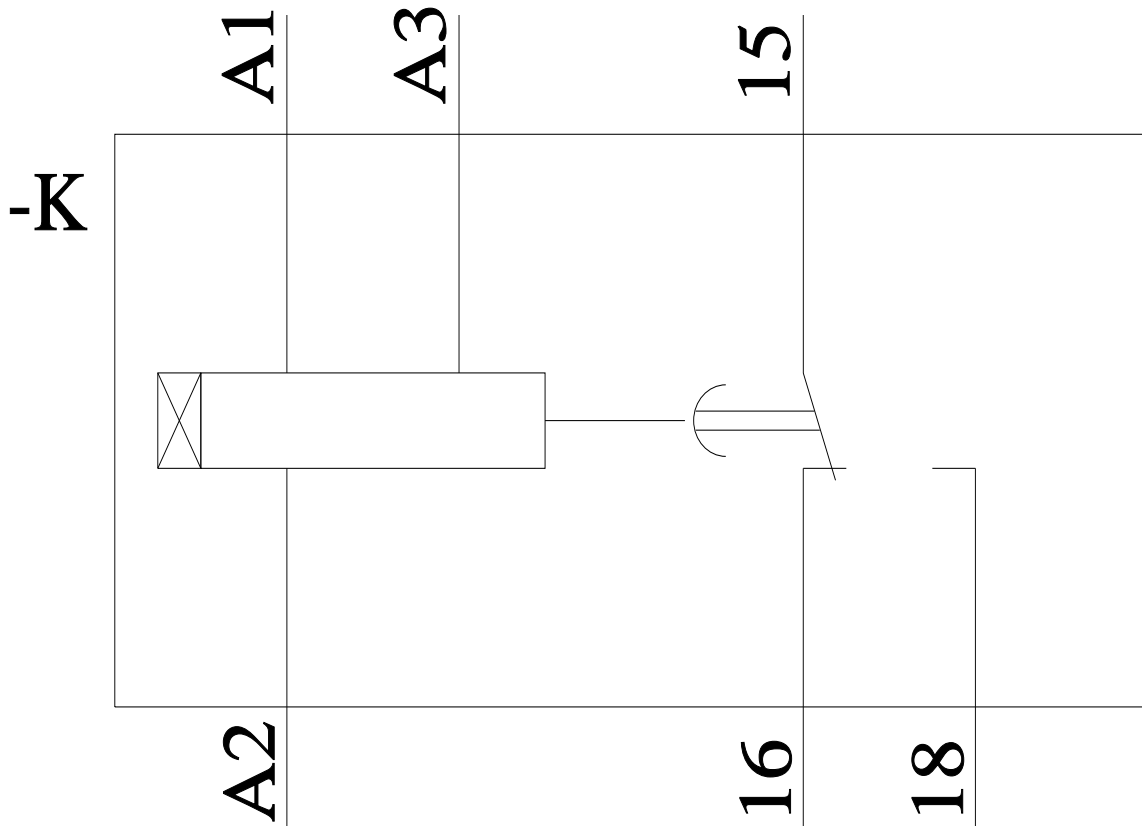
[Confirmation](#)



Declaration of Conformity	Test Certificates	other
UK CA	Type Test Certificates/Test Report	Confirmation Environmental Confirmations

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=7PV1513-1AP30>
- Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1513-1AP30>



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