



TIME RELAY, SOLID-STATE,
WITH STAR-DELTA FUNCTION 2 NO 7 TIME RANGES
0.05S...100H AC/DC 12...240V SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Product designation		timing relay
Adjustable time	s	0.05 ... 360,000
Protection class IP		
• on the front		IP40
• of the terminal		IP20
Shock resistance		15g / 11 ms
Degree of pollution		2
mounting position		any
Supply voltage / required / Auxiliary voltage		No
Product function		
• star-delta circuit		Yes
• with auxiliary voltage / pulse-shaping		No
• at the relay outputs / Switchover delayed/without delay		No
Product component / semi-conductor output		No
Product expansion		
• optional / remote control		No
• required / remote control		No
Installation altitude / at height above sea level / maximum	m	2,000

Ambient temperature		
• during storage	°C	-40 ... +70
• during operation	°C	-25 ... +55
• during transport	°C	-40 ... +70
Relative humidity		
• during operation	%	15 ... 85
EMI immunity / acc. to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference / acc. to IEC 60947-1		IEC61000-6-3 (residential area)
Conducted interference BURST / acc. to IEC 61000-4-4		2 kV network connection / 1 kV control connection
Conducted interference conductor-earth SURGE / acc. to IEC 61000-4-5		2 kV
Conducted interference conductor-conductor SURGE / acc. to IEC 61000-4-5		1 kV
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
Vibration resistance		10 ... 55 Hz / 0.35 mm
Surge voltage resistance / Rated value	V	4,000
Insulation voltage / Rated value	V	300
Active power loss / total / typical	W	2
Reference code		
• acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		K
• acc. to DIN EN 61346-2		K

Switching Function:

Switching function		
• passing make contact		No
• fixed clock cycle beginning with pulse		No
• variably clocked start with interval		No
• OFF delay		No
• variably clocked start with impulse		No
• with control signal		
• passing break contact		No
• OFF delay		No
• ON-delay/instantaneous contact		No
• passing make contact/instantaneous contact		No
• fixed clock cycle beginning with interval		No
• with control signal		
• additive ON delay		No
• passing break contact/instantaneous		No
• without control signal / OFF delay		No

<ul style="list-style-type: none"> • ON-delay 	No
<ul style="list-style-type: none"> • with control signal <ul style="list-style-type: none"> • OFF delay/instantaneous • ON-delay/OFF-delay/instantaneous 	No
<ul style="list-style-type: none"> • fixed clock cycle beginning with interval/instantaneous contact 	No
Switching function / with control signal / pulse-shaping/instantaneous	No
<ul style="list-style-type: none"> • with control signal <ul style="list-style-type: none"> • pulse-shaping • ON-delay/instantaneous contact 	No

Control circuit:		
Type of voltage / of the control supply voltage		AC/DC
Control supply voltage frequency / 1		
<ul style="list-style-type: none"> • Initial rated value 	Hz	50
<ul style="list-style-type: none"> • Final rated value 	Hz	60
Control supply voltage / 1		
<ul style="list-style-type: none"> • with AC / at 50 Hz 	V	12 ... 240
<ul style="list-style-type: none"> • with AC / at 60 Hz 	V	12 ... 240
<ul style="list-style-type: none"> • for DC 	V	12 ... 240
Operating range factor control supply voltage rated value / of the magnet coil		
<ul style="list-style-type: none"> • initial value 		0.85
<ul style="list-style-type: none"> • Full-scale value 		1.1

Auxiliary circuit:		
Operating current / of the auxiliary contacts		
<ul style="list-style-type: none"> • at AC-15 / at 24 V 	A	3
<ul style="list-style-type: none"> • at AC-15 / at 250 V 	A	3
<ul style="list-style-type: none"> • at DC-13 <ul style="list-style-type: none"> • at 24 V • at 125 V • at 250 V • maximum 	A	1
	A	0.22
	A	0.1
	A	1
Number of NC contacts		
<ul style="list-style-type: none"> • delayed switching 		0
<ul style="list-style-type: none"> • instantaneous contact 		0
Number of NO contacts		
<ul style="list-style-type: none"> • delayed switching 		2
<ul style="list-style-type: none"> • instantaneous contact 		0
Number of CO contacts		
<ul style="list-style-type: none"> • delayed switching 		0

- instantaneous contact

0

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 4 A

Installation/mounting/dimensions:

Mounting type

snap-on fastening on 35 mm standard rail

Width

mm 17.5

Height

mm 90

Depth

mm 66.7

Spacing required

- with side-by-side mounting
- with side-by-side mounting
- with side-by-side mounting
- with side-by-side mounting
- with side-by-side mounting

mm 0
mm 0
mm 0
mm 0
mm 0

Spacing required

- for grounded parts
- for grounded parts
- for grounded parts
- for grounded parts
- for grounded parts

mm 0
mm 0
mm 0
mm 0
mm 0

Spacing required

- for live parts
- for live parts
- for live parts
- for live parts
- for live parts

mm 0
mm 0
mm 0
mm 0
mm 0

Connections:

Design of the electrical connection

- Plug-in socket
- for auxiliary and control current circuit

No
screw-type terminals

Type of connectable conductor cross-section

- for auxiliary contacts
 - solid
 - finely stranded
 - with core end processing
 - without core end processing
- for AWG conductors / for auxiliary contacts

1x (0.2 ... 2.5 mm²)
0.25 ... 1.5 mm²
1x (0.2 ... 1.5 mm²)
1x (24 ... 14)

Connectable conductor cross-section / for auxiliary contacts	• single or multi-stranded	mm ²	0.2 ... 2.5
	• finely stranded		
	• with core end processing	mm ²	0.25 ... 1.5
	• without core end processing	mm ²	0.2 ... 1.5
AWG number / as coded connectable conductor cross section			
	• for auxiliary contacts		14 ... 24

Certificates/approvals:

Certificate of suitability

CE

General Product Approval

Declaration of Conformity



CCC



UL



EG-Konf.

Safety:

Category / acc. to EN 954-1

none

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

Cax online generator:

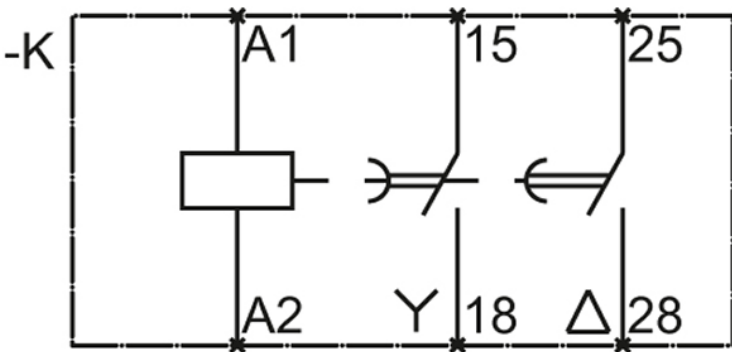
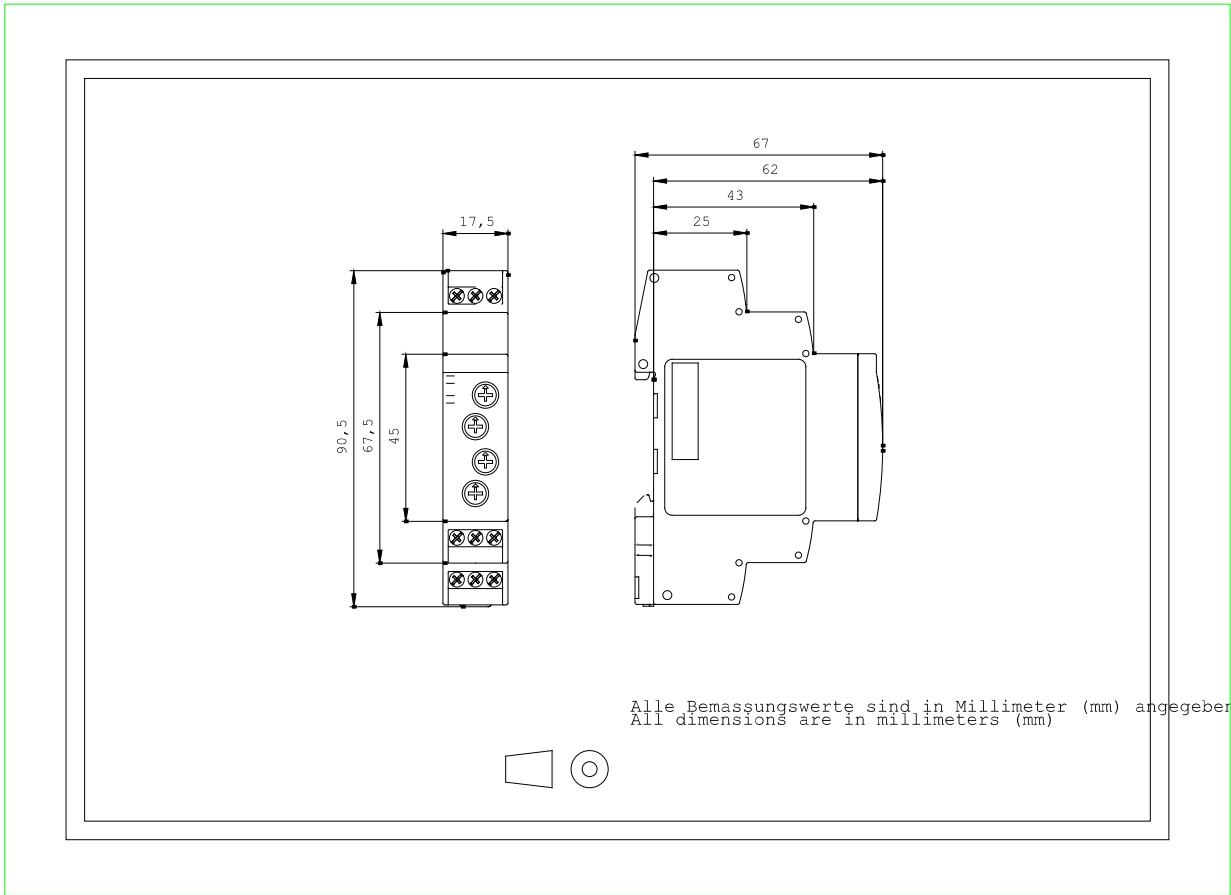
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WWW/view/en/7PV1578-1BW30/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1578-1BW30



last change:

Nov 3, 2014