



TIME RELAY, MOUNT. ON-DELAY 1 W,
7 TIME SETTING RANGES, 0.05 S...100 H,
AC/DC 12...240 V,
WIDE RANGE SUPPLY VOLTAGE

General technical data:		
product brand name		SIRIUS
product designation		timing relay
Adjustable time	s	0.05 ... 360,000
Protection class IP		
<ul style="list-style-type: none"> • on the front • of the terminal 		IP40 IP20
Resistance against shock		15g / 11 ms
Degree of pollution		2
mounting position		any
Supply voltage / strictly required / auxiliary voltage		No
Product function		
<ul style="list-style-type: none"> • star-delta circuit • with auxiliary voltage / pulse-shaping • at the relay outputs / changeover delayed/without delay 		No No No
Product component / semi-conductor output		No
Product extension		
<ul style="list-style-type: none"> • optional / remote control • strictly required / remote control 		No No
Installation altitude / at a height over sea level / maximum	m	2,000

Ambient temperature		
• during storage	°C	-40 ... +70
• during operating	°C	-25 ... +55
• during transport	°C	-40 ... +70
Relative humidity		
• during operating phase	%	15 ... 85
EMC immunity to interference / according to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference / according to IEC 60947-1		IEC61000-6-3 (residential area)
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV network connection / 1 kV control connection
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Electrostatic discharge / according to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Resistance against vibration		10 ... 55 Hz / 0.35 mm
Impulse voltage resistance / rated value	V	4,000
Insulation voltage / rated value	V	300
Active power loss / total / typical	W	2
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according to DIN EN 61346-2		K

Switching Function:

Switching function		
• making pulse contact		No
• firmly clocked beginning with pulse		No
• impuls variably clocked start with pause		No
• relapse delayed		No
• variably clocked start with impulse		No
• with auxiliary voltage		
• temporary line fault		No
• relapse delayed		No
• slow-operating/instantaneous contact		No
• making pulse contact/instantaneous contact		No
• firmly clocked beginning with pause		No
• with auxiliary voltage		
• in an additive way slow-operating		No
• temporary line fault/instantaneous contact		No

<ul style="list-style-type: none"> • without auxiliary voltage / relapse delayed 	No
<ul style="list-style-type: none"> • slow-operating 	Yes
<ul style="list-style-type: none"> • with auxiliary voltage <ul style="list-style-type: none"> • relapse delayed/instantaneous contact 	No
<ul style="list-style-type: none"> • slow-operating/relapse delayed/instantaneous contact 	No
<ul style="list-style-type: none"> • firmly clocked beginning with pause/instantaneous contact 	No
Switching function / with auxiliary voltage / pulse modelling/instantaneous contact	No
<ul style="list-style-type: none"> • with auxiliary voltage 	No
<ul style="list-style-type: none"> • pulse-shaping 	No
<ul style="list-style-type: none"> • slow-operating/instantaneous contact 	No

Control circuit:		
Type of voltage / of the controlled 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"> • at 50 Hz / for AC 	V	12 ... 240
<ul style="list-style-type: none"> • at 60 Hz / for AC 	V	12 ... 240
<ul style="list-style-type: none"> • for DC 	V	12 ... 240
Operating range factor control supply voltage rated value / of the solenoid		
<ul style="list-style-type: none"> • initial value 		0.85
<ul style="list-style-type: none"> • final 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 	A	1
<ul style="list-style-type: none"> • at 125 V 	A	0.22
<ul style="list-style-type: none"> • at 250 V 	A	0.1
<ul style="list-style-type: none"> • maximum 	A	1
Number of NC contacts		
<ul style="list-style-type: none"> • delayed switching 		0
<ul style="list-style-type: none"> • non-delayed 		0
Number of NO contacts		
<ul style="list-style-type: none"> • delayed switching 		0
<ul style="list-style-type: none"> • non-delayed 		0

Number of change-over switches		
• delayed switching		1
• non-delayed		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:

Type of mounting

snap-on fastening on 35 mm standard rail

Width

mm 17.5

Height

mm 90

Depth

mm 66.7

Distance, to be maintained, to the ranks assembly

• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0

Distance, to be maintained, to earthed part

• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0

Distance, to be maintained, conductive elements

• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0

Connections:

Design of the electrical connection

• jumper socket		No
• for auxiliary and control current circuit		screw-type terminals

Type of the connectable conductor cross-section

• for auxiliary contacts		
• solid		1x (0.2 ... 2.5 mm ²)
• finely stranded		
• with conductor end processing		0.25 ... 1.5 mm ²

<ul style="list-style-type: none"> without conductor final cutting for AWG conductors / for auxiliary contacts 		1x (0.2 ... 1.5 mm ²) 1x (24 ... 14)
Conductor cross-section that can be connected / for auxiliary contact <ul style="list-style-type: none"> solid finely stranded <ul style="list-style-type: none"> with conductor end processing without conductor final cutting 	mm ² mm ² mm ²	0.2 ... 2.5 0.25 ... 1.5 0.2 ... 1.5
AWG number / as coded connectable conductor cross-section <ul style="list-style-type: none"> for auxiliary contact 		14 ... 24

Certificates/approvals:

Verification of suitability		CE
General Product Approval	other	
 CCC	 UL	Confirmation
		Declaration of Conformity

Safety:

Category / according 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:

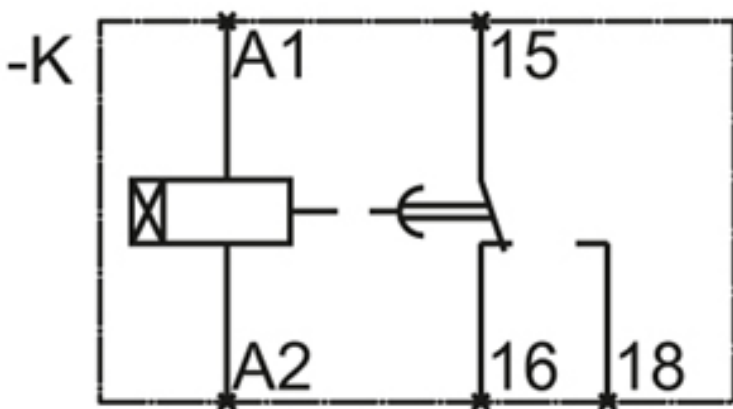
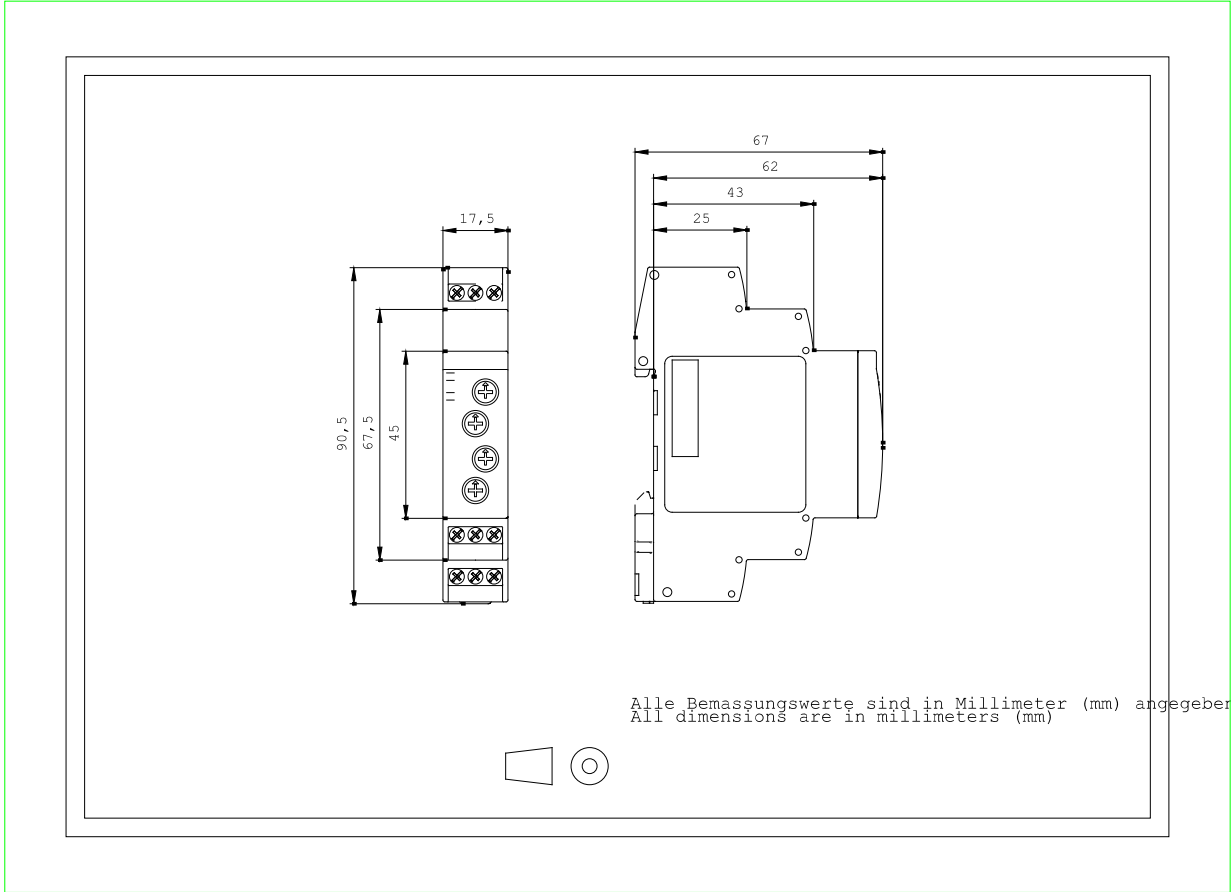
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/7PV1518-1AW30/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1518-1AW30



last change:

Jul 1, 2013