SIEMENS

Product data sheet 7PV1540-1AW30

TIMING RELAY, SOLID-STATE, OFF-DELAY,
W/O AUX.VOLTAGE,
1 CO CONTACT 7 TIME SETTING RANGES 0.05S...100S,
24-240V AC/DC, WITH LED, SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
product designation		timing relay
Adjustable time	s	0.05 … 100
Protection class IP		
• on the front		IP40
• of the terminal		IP20
Resistance against shock		15g / 11 ms
Degree of pollution		2
mounting position		any
Supply voltage / strictly required / auxiliary voltage		No
Product function		
• star-delta circuit		No
• with auxiliary voltage / pulse-shaping		No
• at the relay outputs / changeover delayed/without delay		No
Product component / semi-conductor output		No
Product extension		
• optional / remote control		No
• strictly required / remote control		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

• without auxiliary voltage / relapse delayed		Yes
• slow-operating		No
• with auxiliary voltage		
• relapse delayed/instantaneous contact		No
• slow-operating/relapse delayed/instantaneous contact		No
• firmly clocked beginning with pause/instantaneous contact		No
Switching function / with auxiliary voltage / pulse modelling/instantaneous contact		No
• with auxiliary voltage		
• pulse-shaping		No
• slow-operating/instantaneous contact		No

Control circuit:

Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage frequency / 1		
• initial rated value	Hz	50
• final rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz / for AC	V	12 … 240
• at 60 Hz / for AC	V	12 … 240
• for DC	V	12 … 240
Operating range factor control supply voltage rated value / of the solenoid		
• initial value		0.85
• final value		1.1

Auxiliary circuit:

Operating current / of the auxiliary contacts		
• at AC-15 / at 24 V	A	3
• at AC-15 / at 250 V	A	3
• at DC-13		
• at 24 V	A	1
• at 125 V	A	0.22
• at 250 V	A	0.1
• maximum	A	1
Number of NC contacts		
• delayed switching		0
• non-delayed		0
Number of NO contacts		
• delayed switching		0
• 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
• sidewards	mm	0
Distance, to be maintained, to earthed part		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
Distance, to be maintained, conductive elements		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	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 mm²)
• finely stranded		
• with conductor end processing		0.25 ... 1.5 mm²

• without conductor final cutting		1x (0.2 ... 1.5 mm²)
• for AWG conductors / for auxiliary contacts		1x (24 ... 14)
Conductor cross-section that can be connected / for auxiliary contact		
• solid	mm²	0.2 … 2.5
• finely stranded		
• with conductor end processing	mm²	0.25 … 1.5
• without conductor final cutting	mm²	0.2 … 1.5
AWG number / as coded connectable conductor cross-section		
• 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:

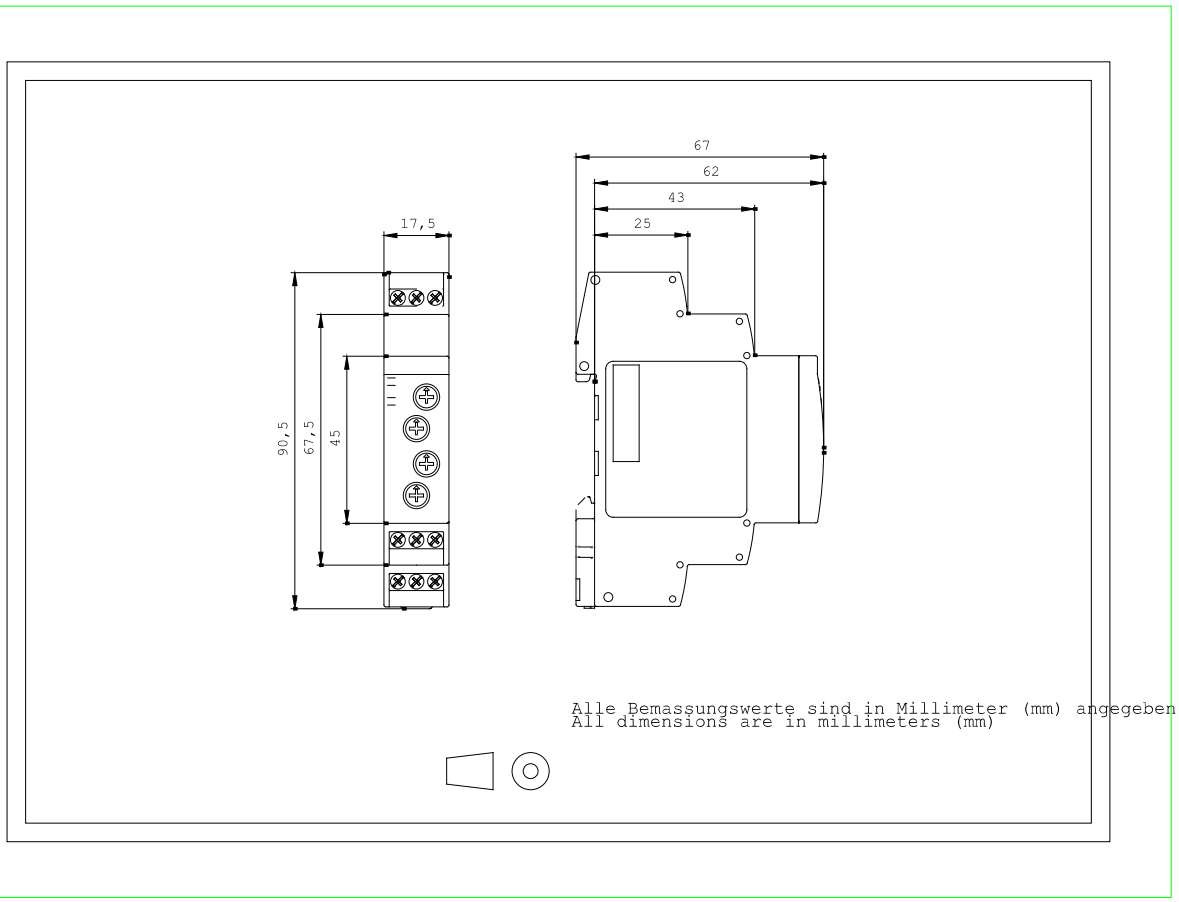
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

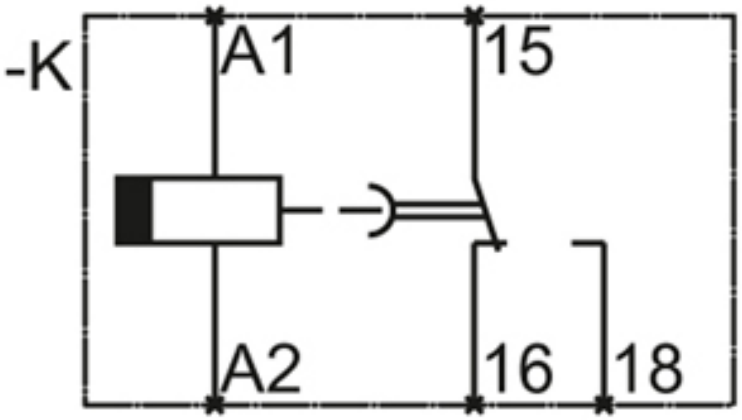
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

Cax online generator:
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/7PV1540-1AW30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1540-1AW30





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