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Data sheet 7PV1512-1AQ30



TIME RELAY, ON-DELAY, 1CO, TIME RANGE 0.5 S...10 S, AC 24/110 V AND DC 24 V, WITH LED

General technical data:		
product brand name		SIRIUS
Product designation		timing relay
Adjustable time	s	0.5 ... 10
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		No
• 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

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• 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 due to burst acc. to IEC 61000-4-4		2 kV network connection / 1 kV control connection
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
Conducted interference due to 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
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking 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
— additive ON delay		No
— passing break contact/instantaneous		No
— OFF delay/instantaneous		No
— ON-delay/OFF-delay/instantaneous		No
— pulse-shaping/instantaneous		No
— pulse-shaping		No
— ON-delay/instantaneous contact		No
• ON-delay/instantaneous contact		No
• passing make contact/instantaneous contact		No
• fixed clock cycle beginning with interval		No
• without control signal OFF delay		No
• ON-delay		Yes

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• fixed clock cycle beginning with interval/instantaneous contact		No

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1	Hz	50 ... 60
Control supply voltage 1		
• with AC		
— at 50 Hz	V	100 ... 127
— at 60 Hz	V	100 ... 127
— Rated value	V	24
Control supply voltage 2 with AC		
• at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
Operating range factor control supply voltage rated value of the magnet coil		0.85 ... 1.1

Auxiliary circuit:		
Operating current of the auxiliary contacts		
• at AC-15		
— at 24 V	A	3
— 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
• instantaneous contact		0
Number of NO contacts		
• delayed switching		0
• instantaneous contact		0
Number of CO contacts		
• delayed switching		1
• 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

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Depth	mm	66.7
Required spacing		
• with side-by-side mounting		
— upwards	mm	0
— downwards	mm	0
— forwards	mm	0
— Backwards	mm	0
— at the side	mm	0
• for grounded parts		
— upwards	mm	0
— downwards	mm	0
— forwards	mm	0
— Backwards	mm	0
— at the side	mm	0
• for live parts		
— upwards	mm	0
— downwards	mm	0
— forwards	mm	0
— Backwards	mm	0
— at the side	mm	0

Connections/ Terminals:		
Type of electrical connection		
• Plug-in socket		No
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for auxiliary contacts		
— solid		1x (0.2 ... 2.5 mm²)
— finely stranded		
— with core end processing		0.25 ... 1.5 mm²
— without core end processing		1x (0.2 ... 1.5 mm²)
• for AWG conductors for auxiliary contacts		1x (24 ... 14)
Connectable conductor cross-section for auxiliary contacts		
• single or multi-stranded	mm²	0.2 ... 2.5
• finely stranded		
— with core end processing	mm²	0.25 ... 1.5
— without core end processing	mm²	0.2 ... 1.5
AWG number as coded connectable conductor cross section for auxiliary contacts		14 ... 24

Certificates/ approvals:		
Certificate of suitability		CE

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General Product Approval	Declaration of Conformity

CCC UL EG-Konf.

Safety related data:		
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe

Further information

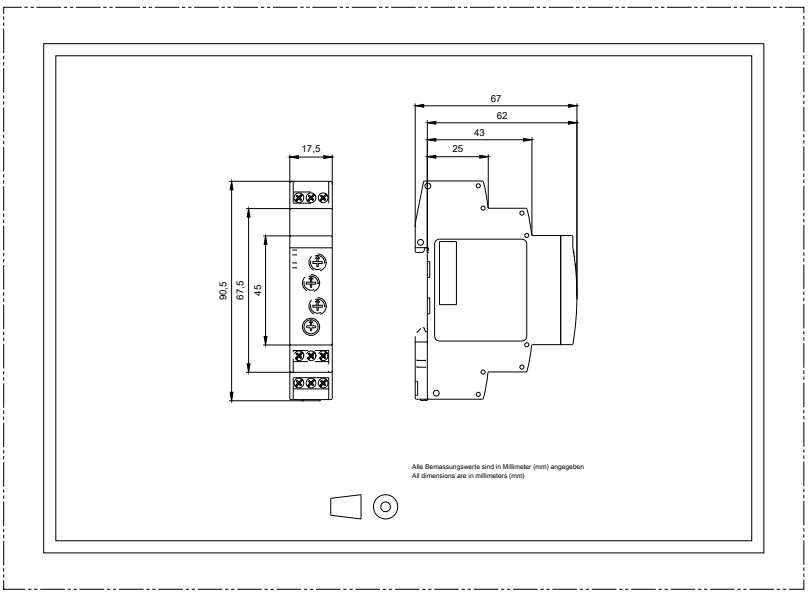
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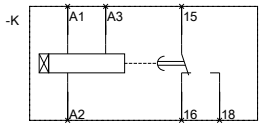
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ZEITRELAIS, ELEKTRONISCH,
ANSPRECHVERZOEGERT,
1 WECHSLER,



TIME RELAY, ON-DELAY,
1 CHANGE-OVER CONTACT

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