SIEMENS

Data sheet 7PV1513-1AQ30



Timing relay, electronic ON delay 1 change-over contact, 1 time range 5...100 s 24 V/110 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 acc. to IEC 60068-2-27	11g / 15 ms		
vibration resistance acc. 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 acc. to IEC 81346-2	K		
relative repeat accuracy	2 %		
Control circuit/ Control			
type of voltage of the control supply voltage	AC/DC		
control supply voltage 1 at AC			
• at 50 Hz	100 127 V		
• at 60 Hz	100 127 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			

initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1
Switching Function	
switching function	
ON-delay	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with pulse start/instantaneous 	No
 flashing symmetrically with pulse start 	No
flashing asymmetrically with interval start	No
flashing asymmetrically with pulse start	No
switching function	
 star-delta circuit with delay time 	No
star-delta circuit	No
switching function with control signal	
 additive ON-delay 	No
 passing break contact 	No
 passing break contact/instantaneous 	No
OFF delay	No
 OFF delay/instantaneous 	No
 pulse delayed 	No
 pulse delayed/instantaneous 	No
pulse-shaping	No
pulse-shaping/instantaneous	No
 additive ON-delay/instantaneous 	No
 ON-delay/OFF-delay 	No
 ON-delay/OFF-delay/instantaneous 	No
 passing make contact 	No
passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
 retrotriggerable with deactivated control signal/instantaneous contact 	No
 retrotriggerable with switched-on control signal 	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
retriggerable with deactivated control signal	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	
 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		
operational current of auxiliary contacts at AC-15			
• maximum	3 A		
• at 24 V	3 A		
● at 250 V	3 A		
operational current of auxiliary contacts as NC contact at AC-15			
• at 24 V	3 A		
• at 250 V operational current of auxiliary contacts as NO	3 A		
contact at AC-15	2 A		
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	1 Λ		
• at 24 V	1 A		
• at 125 V	0.22 A		
• at 250 V	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		
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		
switching capacity current with inductive load	0.01 3 A		
Inputs/ Outputs			
product function			
 at the relay outputs switchover delayed/without delay 	No		
• non-volatile	No		
Electromagnetic compatibility			
EMC immunity acc. to IEC 61812-1	EN 61000-6-2		
conducted interference			
due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection		
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV		
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV		
field-based interference acc. to IEC 61000-4-3	10 V/m		
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge		
Safety related data			
touch protection against electrical shock	finger-safe		
type of insulation	Basic insulation		
category acc. to EN 954-1	none		
Connections/ Terminals			
product function 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			
• solid	1x (0.2 2.5 mm²)		
• Soliu	(,		
finely stranded with core end processing	1x (0.25 1.5 mm²)		
• finely stranded with core end processing	1x (0.25 1.5 mm²)		
finely stranded with core end processingfinely stranded without core end processing	1x (0.25 1.5 mm²) 1x (0.2 1.5 mm²)		
 finely stranded with core end processing finely stranded without core end processing at AWG cables solid 	1x (0.25 1.5 mm²) 1x (0.2 1.5 mm²) 1x (24 14)		

 connectable conductor cross-section finely stranded with core end processing 	0.25	0.25 1.5 m²			
connectable conductor cross-section finely stranded without core end processing	0.2 1.5 m²				
 AWG number as coded connectable conductor cross section solid 	24 14				
 AWG number as coded connectable conductor cross section stranded 	24 14				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	snap	snap-on fastening on 35 mm standard rail			
height	90 m	90 mm			
width	17.5 mm				
depth	66.7 mm				
required spacing					
 with side-by-side mounting 					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— downwards	0 mm				
— at the side	0 mm				
for grounded parts					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— at the side	0 mm				
— downwards	0 mm				
• for live parts					
— forwards	0 mn	0 mm			
— backwards	0 mn	0 mm			
— upwards	0 mm				
— downwards	0 mn	0 mm			
— at the side	0 mn	0 mm			
Ambient conditions					
installation altitude at height above sea level maximum	2 00	2 000 m			
ambient temperature during operation	-25	-25 +55 °C			
ambient temperature during storage		-40 +70 °C			
ambient temperature during transport		-40 +70 °C			
relative humidity during operation	15 85 %				
Certificates/ approvals					
General Product Approval		EMC	Declaration of Conformity		
General Froduct Approval		LIVIC	Deciaration of Comornity		











Miscellaneous

Test Certificates

other

Type Test
Certificates/Test
Report

Confirmation

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=7PV1513-1AQ30

Cax online generator

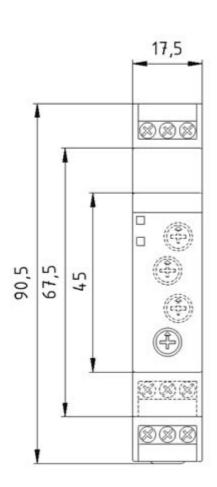
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1513-1AQ30

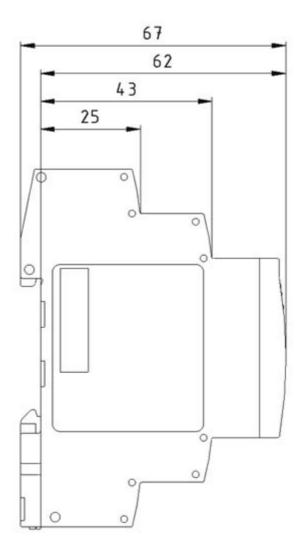
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7PV1513-1AQ30

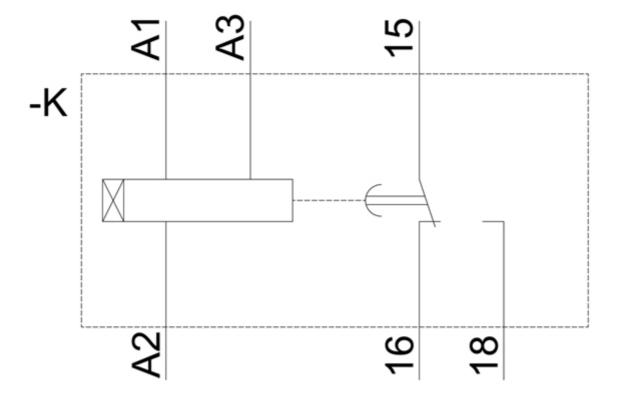
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=7PV1513-1AQ30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/7PV1513-1AQ30/manual







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