SIEMENS

Data sheet 7PV1511-1AP30



Timing relay, electronic ON delay 1 change-over contact, 1 time range 0.05...1 s 24/230 V AC and 24 V DC with LED, Screw terminal

timing relay design of the product product type designation Fivils General technical data product component semi-conductor output product extension required remote control product extension optional remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution surge voltage resistance rated value test voltage for surge voltage test protection class IP shock resistance according to IEC 60068-2-6 vibration resistance according to IEC 60068-2-6 timing relay slow-operating No No No 300 V 22 kV degree of pollution 2 surge voltage for isolation test 4 800 V protection class IP shock resistance according to IEC 60068-2-7 11g / 15 ms vibration resistance according to IEC 60068-2-6 10 55 Hz: 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 100 000
product type designation General technical data product component semi-conductor output product extension required remote control product extension optional remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution surge voltage resistance rated value test voltage for surge voltage test protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V
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vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 10 55 Hz: 0.35 mm 10 000 000 10 000 000
mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V 10 000 100 000
electrical endurance (switching cycles) at AC-15 at 230 V 100 000
typical
adjustable time 0.05 1 s
relative setting accuracy relating to full-scale value 5 %; +/-
minimum ON period 35 ms
recovery time 500 ms
reference code according to IEC 81346-2 K
relative repeat accuracy 2 %; +/-
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
Substance Prohibitance (Date) 05/01/2012
Control circuit/ Control
type of voltage of the control supply voltage AC/DC
control supply voltage 1 at AC
• at 50 Hz 200 240 V
● at 60 Hz 200 240 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

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operating range factor control supply voltage rated	
value at DC	0.05
• 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 CO contacts • delayed switching • instantaneous contact number of CO contacts • delayed switching • instantaneous contact • delayed switching • instantaneous contact • maximum • at 24 V • at 250 V • perational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts as NO contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • at 250 V •				
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number of CO contacts • delayed switching • instantaneous contact operational current of auxiliary contacts at AC-15 • maximum • at 24 V • at 250 V operational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V operational current of auxiliary contacts as NC contact at AC-16 • at 24 V • at 250 V operational current of auxiliary contacts as NO contact at AC-16 • at 24 V • at 250 V operational current of auxiliary contacts as NO contact at AC-16 • at 24 V • at 250 V operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts • at 250 V •				
delayed switching instantaneous contact operational current of auxiliary contacts at AC-15 maximum all 24 V all 250 V operational current of auxiliary contacts as NC contact at AC-15 all 24 V all 250 V operational current of auxiliary contacts as NC contact at AC-16 all 24 V all 250 V operational current of auxiliary contacts as NO contact at AC-19 all 24 V all 250 V operational current of auxiliary contacts as NO contact at AC-19 all 24 V all 250 V operational current of auxiliary contacts at DC-13 all 24 V all 250 V operational current of auxiliary contacts at DC-13 all 24 V all 250 V operational current of auxiliary contacts at DC-13 all 24 V all 250 V operational current of auxiliary contacts at DC-13 all 24 V all 250 V operational current of auxiliary contacts at DC-13 all 24 V all 250 V operational current of auxiliary contacts at DC-13 all 24 V all 250 V operational current of auxiliary contacts according to UL sall 250 V operational current of auxiliary contacts ontact rating of auxili		0		
instantaneous contact Operational current of auxiliary contacts at AC-15 imaximum at 24 V at 250 V Operational current of auxiliary contacts as NC contact at AC-15 alt 24 V at 250 V Operational current of auxiliary contacts as NC contact at AC-15 alt 24 V at 250 V Operational current of auxiliary contacts as NO contact at AC-16 alt 24 V alt 250 V Operational current of auxiliary contacts at DC-13 Operational current of auxiliary contacts at DC-13 Operational current of auxiliary contacts at DC-13 ot 125 V alt 250 V Operational current of auxiliary contacts at DC-13 Operational current of auxiliary contacts at DC-13 ot 125 V alt 250 V Operational current of unxiliary contacts Operating frequency with 3RT2 contactor maximum Contact reliability of auxiliary contacts V, 5 mA) Contact rating of auxiliary contacts V, 5 mA) No Contact rating of auxiliary contacts V, 5 mA) No Electromagnetic compatibility EMC immunity according to IEC 61004-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-earth surge according to IEC 61000-4-6 due to conductor-earth surge according to IEC 61000-4				
operational current of auxiliary contacts at AC-15 • maximum • at 24 V • at 250 V • at 125 V • at				
maximum at 24 V at 250 V operational current of auxiliary contacts as NC contact at AC-15 at 24 V at 250 V operational current of auxiliary contacts as NO contact at AC-16 at 24 V at 250 V operational current of auxiliary contacts as NO contact at AC-16 at 24 V at 250 V operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 at 24 V at 125 V ot 125 V at 250 V ot 22 A at 250 V operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts contact rating of auxiliary contact		0		
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operational current of auxiliary contacts as NC contact at AC-15 at 24 V at 250 V 3 A operational current of auxiliary contacts as NO contact at AC-15 at 24 V 3 A at 250 V 3 A operational current of auxiliary contacts at DC-13 at 24 V at 250 V 3 A operational current of auxiliary contacts at DC-13 at 24 V at 250 V operational current of auxiliary contacts at DC-13 at 24 V at 250 V operational current of auxiliary contacts at DC-13 at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts according to UL R150 / B300 switching capacity current with inductive load inputs/Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility EMC immunity according to IEC 61000-4-2 due to conducted runterference due to burst according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor interference according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor-conductor conductor surger according to IEC 61000-4-5 due to conductor conduct	• at 24 V	3 A		
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• at 250 V operational current of auxiliary contacts as NO contact at AC-15 • at 24 V operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 • at 250 V operational current of auxiliary contacts at DC-13 • at 24 V • at 125 V • at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile No Electromagnetic compatibility Electromagnetic compatibility Electromagnetic conductor-earth surge according to IEC 61000-4-5 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-		0.4		
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at 24 V at 125 V at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load inputs/ Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference due to burst according to IEC 61000-4-4 due to conductor-card surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 alectromagnetic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 safety related data type of insulation category according to EN 954-1 connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections solid finely stranded with core end processing finely stranded without core end processing at AWG cables solid 1 A 0.1 A 0.0 II.A 0.1 A 0.0 II.A 0.0 II	· · · · · · · · · · · · · · · · · · ·			
• at 125 V • at 250 V		1 A		
• at 250 V operating frequency with 3RT2 contactor maximum 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 switching capacity current with inductive load Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • No 1 kV onnection / 1 kV control connection a kV contact discharge / 8 kV air discharge Safety related data type of insulation category according to EN 954-1 connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid				
operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load Inputs/Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility EMC immunity according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 lectrostatic discharge according to IEC 61000-4-2 Safety related data type of insulation category according to EN 954-1 connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid 1x (0.2 1.5 mm²)				
contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load nputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data type of insulation category according to EN 954-1 Connections/ Torminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded with core end processing • at AWG cables solid		777.7.1		
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		1x (0.2 1.5 mm²)		
1.404.0	finely stranded without core end processing			
• at AWG cables stranded 1x (24 14)				
connectable conductor cross-section		1x (24 14) 1x (24 14)		
• solid 0.2 2.5 m ²	at AWG cables solidat AWG cables stranded			
• finely stranded with core end processing 0.25 1.5 m²	at AWG cables solid at AWG cables stranded connectable conductor cross-section	1x (24 14) 0.2 2.5 m ²		
• finely stranded without core end processing 0.2 1.5 m²	 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing 	1x (24 14) 0.2 2.5 m ²		
AWG number as coded connectable conductor cross	 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing 	1x (24 14) 0.2 2.5 m ² 0.25 1.5 m ²		

section			
• solid	24 14		
• stranded	24 14		
Installation/ mounting/ dimensions	2 7 17		
mounting position	any		
fastening method	snap-on fastening on 35 mm	n standard rail	
height	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 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +55 °C		
during storage	-40 +70 °C		
during transport	-40 +70 °C		
relative humidity during operation	15 85 %		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity

Confirmation











Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

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=7PV1511-1AP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1511-1AP30

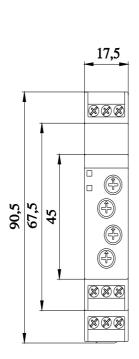
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

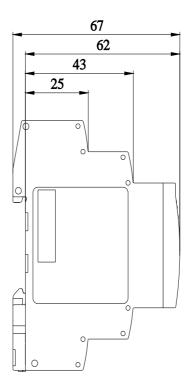
https://support.industry.siemens.com/cs/ww/en/ps/7PV1511-1AP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1511-1AP30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/7PV1511-1AP30/manual





Alle Bemassungswerte sind in Millimeter (mm) angegeben All dimensions are in millimeters (mm)

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