SIEMENS

Data sheet 7PV1512-1AP30



Timing relay, electronic ON delay 1 change-over contact, 1 time range 0.5...10 s $24/230\ V$ 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 according to IEC 60068-2-27	11g / 15 ms	
vibration resistance according to IEC 60068-2-6	10 55 Hz: 0.35 mm	
mechanical service life (operating cycles) typical	10 000 000	
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000	
adjustable time	0.5 10 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	
operating range factor control supply voltage rated value at		

DC	2.2
• 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	No
signal/instantaneous contact	No
retriggerable with deactivated control signal design of the control terminal non-floating	No
Short-circuit protection	INO
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 4 A
switch required	iuse gL/gG. 4 A
Auxiliary circuit	1000
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

elicity of switching 1		
persistantaneous contact operational current of auxiliary contacts at AC-15	number of CO contacts	
operational current of auxiliary contacts at AC-15 • maximum • at 28 V • at	 delayed switching 	
* miximum	instantaneous contact	0
* at 24 V	operational current of auxiliary contacts at AC-15	
# 1250 V	• maximum	3 A
Special current of auxiliary contacts as NC contact at AC-15 * at 12 4 V * at 250 V 3 A	● at 24 V	3 A
AC-15	• at 250 V	3 A
+ al 28 V 3 A		
		2.4
Special 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 250 V operational current of auxiliary contacts at DC-13 • at 125 V • at 125 V • at 125 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact interference conducted contact aliability contact a		
AC-15		SA
operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 operating frequency with 3RT2 contactor maximum operating of auxiliary contacts contact reliability of auxiliary contacts according to UL switching capacity current with inductive load inputs/ Outnuity product function operating frequency with switchover delayed/without delay on on-volatile on-vola		
operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 * at 125 V * at 125 V * operating frequency with 3RT2 contactor maximum operating frequency with 3RT2 contactor maximum operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts moleonator tensing of auxiliary contacts according to UL contact reting of auxiliary contacts according to UL Rt50 / 8300 switching capacity current with inductive load operating frequency with 3RT2 contact maximum **at the relay outputs switchover delayed/without delay **non-volatile** EMC immunity according to IEC 61812-1 Entertomagnetic compatibility EMC immunity according to IEC 61800-4-4 **due to conductor-earth surge according to IEC 61000-4-5 **due to burst according to IEC 61000-4-5 **due to conductor-conductor surge according to IEC 61000-4-5 **due to conductor-conductor of auxiliary and control incompatible to IEC 61000-4-5 **due to conductor conductor consessed to IEC 61000-4-5 **inclusive surger according to IEC 61000-4-5 **inclusive su	• at 24 V	3 A
operational current of auxiliary contacts at DC-13	● at 250 V	3 A
at 124 V at 125 V at 125 V cat 250 V 0.1 A 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 operating of auxiliary contacts according to UL switching capacity current with inductive load operating of auxiliary contacts according to UL switching capacity current with inductive load operating of auxiliary contacts according to UL switching capacity current with inductive load operating of auxiliary contacts on the relay outputs switchover delayed/without delay on-on-volatile of the relay outputs switchover delayed/without delay on-on-volatile on-on-volatile on-on-volatile electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference of use to burst according to IEC 61800-4-3 of use to conductor-carding to IEC 61000-4-5 of use to conductor-carding to IEC 61000-4-5 of use to conductor-carding to IEC 61000-4-3 of use to conductor-conductor surge according to IEC 61000-4-3 of lectrostatic discharge according to IEC 61000-4-2 of the volume of	operational current of auxiliary contacts at DC-13	1 0.01
and 125 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 switching capacity current with inductive load maximum (a) 0.013 A imputs/ Outputs product function at the relay outputs switchover delayed/without delay a non-volatile An outputs/ Outputs Electromagnetic compatibility EMC immunity according to IEC 61802-1 a due to burst according to IEC 61800-4-4 a due to conductor-contouctor surge according to IEC 61000-4-5 a due to conductor-contouctor surge according to IEC 61000-4-5 a due to conductor-contouctor surge according to IEC 61000-4-2 field-based interference olic to static discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 field-based interfer	operational current of auxiliary contacts at DC-13	
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operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts maximum (an eincorrect switching operation of 100 million switching operations (17 V. 5 m/k) contact rating of auxiliary contacts according to UL R150 / B300 (a.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive load (b.) a. A switching capacity current with inductive composition (b.) a. B switching capacity current with inductive conductor conductor surge according to IEC 61000-4-4 (b.) a. A switching conductor con	• at 125 V	0.22 A
contact reliability 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 BMC immunity according to IEC 61812-1 conducted interference due to burst according to IEC 61800-4-4 due to conductor-aarth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-3 due to conductor-onductor surge according to IEC 61000-4-3 felectrostatic discharge according to IEC 61000-4-2 due to conductor-onductor surge according to IEC 61000-4-3 due to conductor-onductor surge according to IEC 61000-4-3 due to conductor-onductor surge according to IEC 61000-4-3 due to conductor-onductor surge according to IEC 61000-4-2 due to conductor-onductor surge according to IEC 61000-4-3 due to conductor-onductor surge according to IEC 61000-4-2 due to conductor-onductor surge according to IEC 61000-4-3 due to conductor removable terminal for auxiliary and control circuit type of electrical connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid finely stranded with core end processing for AWG cables stranded without core end processing for AWG number as coded connectable conductor cross-section solid finely stranded without core end processing finely stranded without core end processing for AWG number as coded connectable conductor cross-section solid finely stranded without core end processing finely stranded without core end processing for AWG number as coded connectable conductor c	• at 250 V	0.1 A
mA) switching of auxiliary contacts according to UL switching capacity current with inductive load switching capacity current with inductive load sold inputs/ product function	operating frequency with 3RT2 contactor maximum	5 000 1/h
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Imputs/ Outputs product function at the relay outputs switchover delayed/without delay non-volatile EMC immunity according to IEC 61812-1 Conducted inferference due to burst according to IEC 61000-4-2 due to conductor-earth surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 field-based interference accordi		
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EMC immunity according to IEC 61812-1 EN 61000-6-2 conducted interference		
EMC immunity according to IEC 61812-1 EN 61000-6-2 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 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to conductor description of IEC 61000-4-2 • due to conductor cross-sections • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • stranded • stranded • solid • stranded • solid • stranded		No
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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 field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IV IV IV field-based interference acc	· · · · · · · · · · · · · · · · · · ·	EN 61000-6-2
due to conductor-carth 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 delectrostatic discharge according to IEC 61000-4-2 delectrostatic discharge according to IEC 61000-4-2 delectrostatic discharge according to IEC 61000-4-2 safety related data type of insulation category according to EN 954-1 none 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		
due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 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 screw-type terminals + solid finely stranded without core end processing for AWG cables solid for AWG cables stranded finely stranded with core end processing solid solid solid stranded 4 u. 14 stranded stranded any mounting position	-	
field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge safety related data type of insulation category according to EN 954-1 none 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 • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • solid • stranded • stranded • stranded • stranded any		
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electrostatic 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 connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • for AWG cables stranded • for all and a stranded • for all and a stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • stranded • strande	field-based interference according to IEC 61000-4-3	10 V/m
type of insulation category according to EN 954-1 none 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	•	4 kV contact discharge / 8 kV air discharge
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 • for AWG cables solid • for AWG cables stranded • for awG cables stranded • solid • solid • solid • solid • finely stranded with core end processing • for AWG cables of awd to a solid • for awG cables stranded • solid • finely stranded with core end processing • solid • solid • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing • solid • solid • solid • solid • stranded 24 14 Installation/ mounting/ dimensions mounting position none No **No **Corw-type terminals **No **Cow-type terminals ** **No **Cow-type terminals ** **No **Cow-type terminals ** **No **Cow-type terminals ** **No **A (0.2 2.5 m²²) ** **Ix (0.2 1.5 m²²) ** ** **Ix (0.2 1.5 m²²) ** ** ** ** ** ** ** ** ** ** ** ** *	Safety related data	
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 • for AWG cables solid • for AWG cables stranded • for awG cables stranded • solid • solid • solid • solid • finely stranded with core end processing • for AWG cables of awd to a solid • for awG cables stranded • solid • finely stranded with core end processing • solid • solid • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing • solid • solid • solid • solid • stranded 24 14 Installation/ mounting/ dimensions mounting position none No **No **Corw-type terminals **No **Cow-type terminals ** **No **Cow-type terminals ** **No **Cow-type terminals ** **No **Cow-type terminals ** **No **A (0.2 2.5 m²²) ** **Ix (0.2 1.5 m²²) ** ** **Ix (0.2 1.5 m²²) ** ** ** ** ** ** ** ** ** ** ** ** *	type of insulation	Basic insulation
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • stranded AWG number as coded connectable conductor cross section • solid • stranded stranded 24 14 stranded 24 14 Installation/ mounting/ dimensions	••	none
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • stranded AWG number as coded connectable conductor cross section • solid • stranded stranded 24 14 stranded 24 14 Installation/ mounting/ dimensions	Connections/ Terminals	
type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • solid • stranded • stranded • stranded • stranded any		No
solid	type of electrical connection for auxiliary and control circuit	screw-type terminals
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 finely stranded without core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded 1x (24 14) connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 22 1.5 m² AWG number as coded connectable conductor cross section solid stranded stranded the stranded strands of the strands	• solid	1x (0.2 2.5 mm²)
 for AWG cables solid for AWG cables stranded 1x (24 14) connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded stranded 1x (24 14) stranded 24 14 stranded installation/ mounting/ dimensions any 	 finely stranded with core end processing 	1x (0.25 1.5 mm²)
for AWG cables stranded 1x (24 14) connectable conductor cross-section solid 0.2 2.5 m² finely stranded with core end processing finely stranded without core end processing 0.2 1.5 m² AWG number as coded connectable conductor cross section solid solid stranded 24 14 stranded Installation/ mounting/ dimensions mounting position 1x (24 14) 0.2 2.5 m² 0.25 1.5 m² 0.2 1.5 m² 1.5 m² 24 14 24 14 Installation/ mounting/ dimensions any	 finely stranded without core end processing 	1x (0.2 1.5 mm²)
connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • Solid • solid • stranded • stranded Installation/ mounting/ dimensions mounting position • any	• for AWG cables solid	1x (24 14)
solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid solid stranded stranded Installation/ mounting/ dimensions mounting position O.2 2.5 m² O.2 1.5 m² O.2	• for AWG cables stranded	1x (24 14)
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• finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded • stranded Installation/ mounting/ dimensions mounting position 0.2 1.5 m² 24 14 24 14 any	• solid	0.2 2.5 m ²
AWG number as coded connectable conductor cross section • solid • stranded • stranded Installation/ mounting/ dimensions mounting position any	 finely stranded with core end processing 	0.25 1.5 m ²
section • solid • stranded • stranded • stranded Installation/ mounting/ dimensions mounting position any	finely stranded without core end processing	0.2 1.5 m²
• stranded 24 14 Installation/ mounting/ dimensions mounting position any		
Installation/ mounting/ dimensions mounting position any	• solid	24 14
mounting position any	• stranded	24 14
	Installation/ mounting/ dimensions	
fastening method snap-on fastening on 35 mm DIN rail	mounting position	any
	fastening method	snap-on fastening on 35 mm DIN 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 Con-

Confirmation

General Product Approval











Declaration of Conformity

Test Certificates

other

Environment



Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=7PV1512-1AP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1512-1AP30

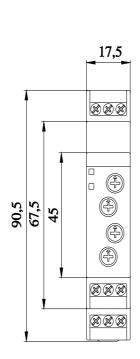
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

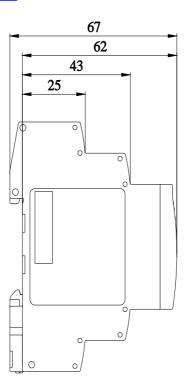
https://support.industry.siemens.com/cs/ww/en/ps/7PV1512-1AP30

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

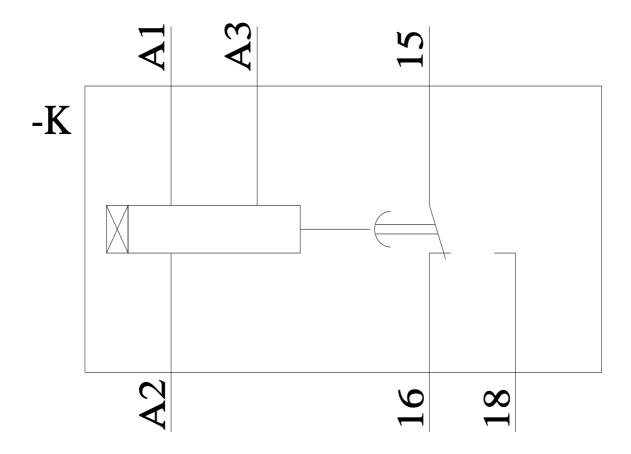
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1512-1AP30&lang=en

Characteristic: Derating





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



last modified: 11/21/2022 🖸

7PV15121 Page 6/6	AP30