SIEMENS

Data sheet

7PV1508-1BW30



Timing relay, electronic Multifunction 2 change-over contacts, 7 functions 7 time ranges 0.05 s \dots 100 h 12-240 V AC/DC with LED, Screw terminal

a de la construcción de la const	
product brand name	SIRIUS
product designation	timing relay
design of the product	Multifunctional
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	0.05 s 100 h
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	К
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)	01.05.2012
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	12 240 V
• at 60 Hz	12 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
● at DC	12 240 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	Yes
 passing make contact/instantaneous contact 	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
 flashing symmetrically with interval start 	Yes
 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	Yes
OFF delay/instantaneous	No
pulse delayed	Yes
pulse delayed/instantaneous	No
 pulse-shaping 	Yes
 pulse-shaping/instantaneous 	No
 additive ON-delay/instantaneous 	No
• ON-delay/OFF-delay	Yes
 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	Yes
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
- doidjod officilling	

 instantaneous contact 	0
number of CO contacts	
 delayed switching 	2
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	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	1 0.01
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.22 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts	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
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
 at the relay outputs switchover delayed/without 	No
delay	
 non-volatile 	No
Electromagnetic compatibility	
Electromagnetic compatibility EMC immunity acc. to IEC 61812-1	EN 61000-6-2
	EN 61000-6-2
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4	EN 61000-6-2 2 kV network connection / 1 kV control connection
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5	2 kV network connection / 1 kV control connection 2 kV
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5	2 kV network connection / 1 kV control connection 2 kV 1 kV
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3	2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2	2 kV network connection / 1 kV control connection 2 kV 1 kV
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Safety related data	2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Safety related data type of insulation	2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge Basic insulation
EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Safety related data type of insulation category acc. to EN 954-1	2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge
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EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Safety related data type of insulation category acc. 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	2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge Basic insulation none No screw-type terminals 1x (0.2 2.5 mm ²) 1x (0.25 1.5 mm ²)
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EMC immunity acc. to IEC 61812-1 conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Safety related data type of insulation category acc. 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 • at AWG cables solid • at AWG cables stranded	2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge Basic insulation none No screw-type terminals 1x (0.2 2.5 mm ²) 1x (0.25 1.5 mm ²) 1x (0.2 1.5 mm ²)
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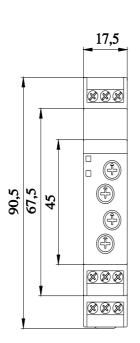
mounting position	any
fastening method	snap-on fastening on 35 mm standard rail
height	90 mm
width	17.5 mm
depth	66.7 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— backwards	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
mbient conditions	
installation altitude at height above sea level maximu	1m 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 %
ertificates/ approvals	
General Product Approval	EMC Declaration of Conformity
<u>Confirmation</u>	
Declaration of Conformity Test Certificates other	
Miscellaneous <u>Type Test Certific-</u> <u>Cor</u> ates/Test Report	nfirmation

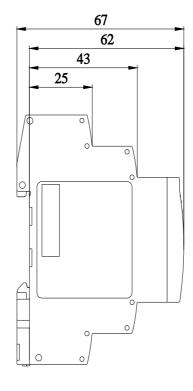
Further information

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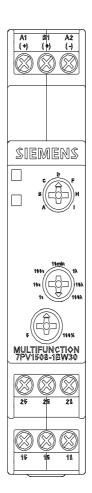
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Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/7PV1508-1BW30/manual

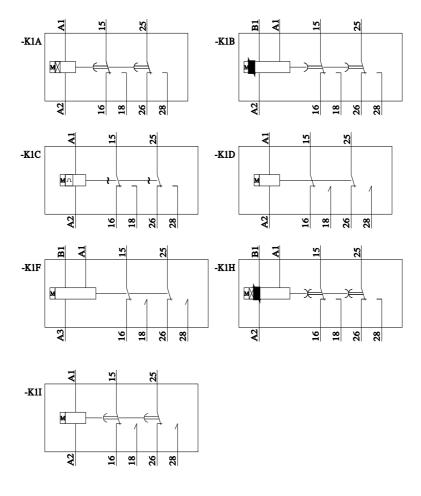




Alle Bemassungswerte sind in Millimeter (mm) angegeben All dimensions are in millimeters (mm)



2/28/2022



last modified:

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