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

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 %
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
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• due to conductor-earth surge acc. to IEC 61000-4-5 2 kV • due to conductor-conductor surge acc. to IEC 61000-4-3 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 finger-safe touch protection against electrical shock finger-safe type of insulation Basic insulation category acc. to EN 954-1 none Connections/ Terminals none product function removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of study with core end processing 1x (0.2 2.5 mm²) • finely stranded with core end processing 1x (0.2 1.5 mm²) • at AWG cables solid 1x (24 14) • at AWG cables solid 0.2 2.5 m² • connectable conductor cross-section solid 0.2 2.5 m²	conducted interference	
• due to conductor-conductor surge acc. to IEC 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 5 touch protection against electrical shock finger-safe type of insulation Basic insulation category acc. to EN 954-1 none Connections/ Terminals No product function removable terminal for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 1 x (0.2 2.5 mm²) • finely stranded with core end processing 1 x (0.2 1.5 mm²) • at AWG cables solid 1 x (24 14) • at AWG cables solid 1 x (24 14) • connectable conductor cross-section solid 0.2 2.5 m² • connectable conductor cross-section solid 0.2 2.5 m²	 due to burst acc. to IEC 61000-4-4 	
61000-4-5 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	 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
electrostatic discharge acc. to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety related data finger-safe touch protection against electrical shock finger-safe type of insulation Basic insulation category acc. to EN 954-1 none Connections/ Terminals No product function removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections ix (0.2 2.5 mm²) ifinely stranded with core end processing 1x (0.2 1.5 mm²) e finely stranded without core end processing 1x (0.2 1.5 mm²) e at AWG cables solid 1x (24 14) e connectable conductor cross-section solid 0.2 2.5 m² oconnectable conductor cross-section finely stranded 1x (24 14)		1 kV
Safety related data touch protection against electrical shock finger-safe type of insulation Basic insulation category acc. to EN 954-1 none Connections/ Terminals reminals 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 sclid • solid 1x (0.2 2.5 mm²) • finely stranded with core end processing 1x (0.2 1.5 mm²) • at AWG cables solid 1x (24 14) • at AWG cables stranded 1x (24 14) • connectable conductor cross-section solid 0.2 2.5 m² • connectable conductor cross-section solid 0.2 2.5 m²	field-based interference acc. to IEC 61000-4-3	10 V/m
Safety related data touch protection against electrical shock finger-safe type of insulation Basic insulation category acc. to EN 954-1 none Connections/ Terminals reminals 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 sclid • solid 1x (0.2 2.5 mm²) • finely stranded with core end processing 1x (0.2 1.5 mm²) • at AWG cables solid 1x (24 14) • at AWG cables stranded 1x (24 14) • connectable conductor cross-section solid 0.2 2.5 m² • connectable conductor cross-section solid 0.2 2.5 m²	electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
touch protection against electrical shockfinger-safetype of insulationBasic insulationcategory acc. to EN 954-1noneConnections/ TerminalsNoproduct function removable terminal for auxiliary and control circuitNotype of electrical connection for auxiliary and control circuitscrew-type terminalstype of electrical connectable conductor cross-sectionsscrew-type terminals• solid1x (0.2 2.5 mm²)• finely stranded with core end processing1x (0.2 1.5 mm²)• at AWG cables solid1x (24 14)• at AWG cables stranded1x (24 14)• connectable conductor cross-section solid0.2 2.5 m²• connectable conductor cross-section solid0.2 2.5 m²	-	
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category acc. to EN 954-1 none Connections/ Terminals none 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 screw-type terminals • solid 1x (0.2 2.5 mm²) • finely stranded with core end processing 1x (0.2 1.5 mm²) • finely stranded without core end processing 1x (24 14) • at AWG cables solid 1x (24 14) • connectable conductor cross-section solid 0.2 2.5 m² • connectable conductor cross-section finely stranded 1x (24 14)		
product function removable terminal for auxiliary and control circuitNotype of electrical connection for auxiliary and control circuitscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals• solid1x (0.2 2.5 mm²)• finely stranded with core end processing1x (0.25 1.5 mm²)• finely stranded without core end processing1x (0.2 1.5 mm²)• at AWG cables solid1x (24 14)• at AWG cables stranded1x (24 14)• connectable conductor cross-section solid0.2 2.5 m²• connectable conductor cross-section finely stranded0.25 1.5 m²		none
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type of connectable conductor cross-sections• solid1x (0.2 2.5 mm²)• finely stranded with core end processing1x (0.2 1.5 mm²)• finely stranded without core end processing1x (0.2 1.5 mm²)• at AWG cables solid1x (24 14)• at AWG cables stranded1x (24 14)• connectable conductor cross-section solid0.2 2.5 m²• connectable conductor cross-section finely stranded0.25 1.5 m²		No
type of connectable conductor cross-sections• solid1x (0.2 2.5 mm²)• finely stranded with core end processing1x (0.2 1.5 mm²)• finely stranded without core end processing1x (0.2 1.5 mm²)• at AWG cables solid1x (24 14)• at AWG cables stranded1x (24 14)• connectable conductor cross-section solid0.2 2.5 m²• connectable conductor cross-section finely stranded0.25 1.5 m²	type of electrical connection for auxiliary and control circuit	screw-type terminals
 finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables solid at AWG cables stranded tx (24 14) connectable conductor cross-section solid connectable conductor cross-section finely stranded 0.2 2.5 m² 0.25 1.5 m² 	type of connectable conductor cross-sections	
 finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG cables stranded tx (24 14) at AWG cables conductor cross-section solid connectable conductor cross-section finely stranded 0.2 2.5 m² 0.25 1.5 m² 	• solid	1x (0.2 2.5 mm²)
 at AWG cables solid at AWG cables stranded 1x (24 14) at AWG cables stranded 1x (24 14) connectable conductor cross-section solid connectable conductor cross-section finely stranded 0.2 2.5 m² 0.25 1.5 m² 	 finely stranded with core end processing 	1x (0.25 1.5 mm²)
• at AWG cables stranded 1x (24 14) • connectable conductor cross-section solid 0.2 2.5 m² • connectable conductor cross-section finely stranded 0.25 1.5 m²	 finely stranded without core end processing 	1x (0.2 1.5 mm²)
 connectable conductor cross-section solid connectable conductor cross-section finely stranded 0.2 2.5 m² 0.25 1.5 m² 	 at AWG cables solid 	1x (24 14)
• connectable conductor cross-section finely stranded 0.25 1.5 m ²	at AWG cables stranded	1x (24 14)
	 connectable conductor cross-section solid 	0.2 2.5 m²
	 connectable conductor cross-section finely stranded 	0.25 1.5 m²

 AWG number as coded connectable conductor cross section solid AWG number as coded connectable conductor 	24 14
 AWG number as coded connectable conductor 	
cross section stranded	24 14
tallation/ mounting/ dimensions	
nounting position	any
astening method	snap-on fastening on 35 mm standard rail
eight	90 mm
idth	17.5 mm
epth	66.7 mm
equired 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
bient conditions	
stallation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-25 +55 °C
 ambient temperature during storage 	-40 +70 °C
 ambient temperature during transport 	-40 +70 °C
elative humidity during operation	15 85 %
rtificates/ approvals	
General Product Approval	EMC Declaration of Conformity
\sim \sim \sim	Miscellaneous
(C) (N) (N) (N) (N) (N) (N) (N) (N) (N) (N	
	RCM EG-Konf.
Test Certificates other	
<u>Type Test</u> <u>Confirmation</u> <u>Certificates/Test</u>	

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=7PV1508-1BW30

Cax online generator

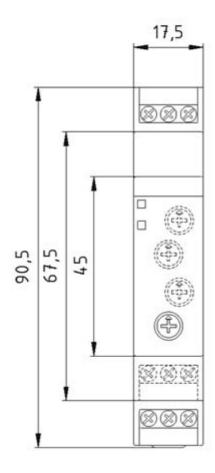
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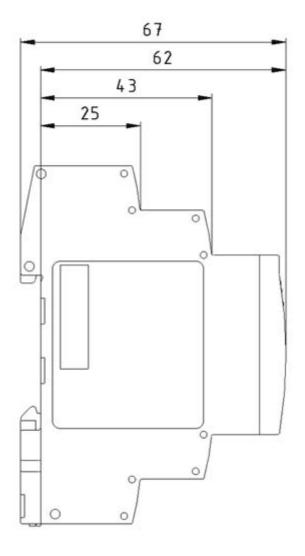
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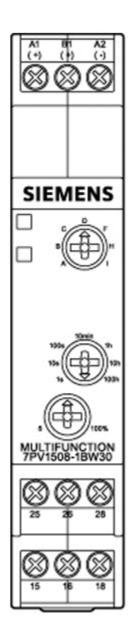
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1508-1BW30&lang=en

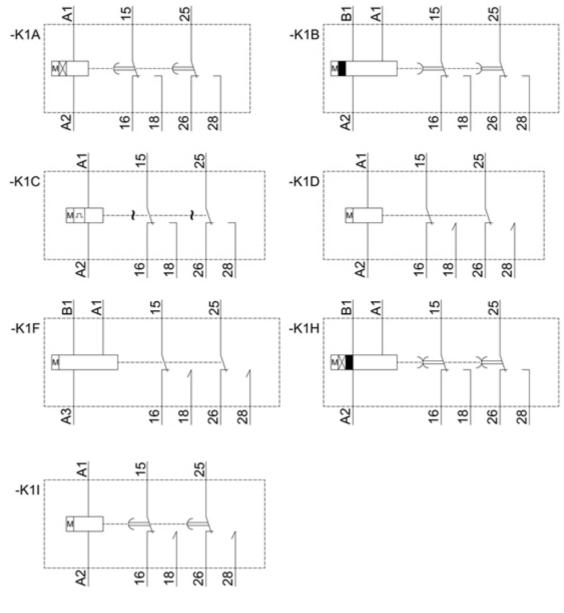
Characteristic: Derating

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