SIEMENS

Data sheet 7PV1578-1BW30



Timing relay, electronic with star-delta (wye-delta) function 2 NO 7 time ranges 0.05 s...100 h 12-240 V AC/DC Screw terminal

product brand name	SIRIUS		
product designation	timing relay		
design of the product	Star-delta (wye-delta) function		
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		
mechanical service life (operating cycles) typical	10 000 000		
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000		
adjustable time	0.05 s 100 h		
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	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)	05/01/2012		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8		
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	I.I
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	No
ON-delay/instantaneous contact	No
passing make contact	No No
passing make contact/instantaneous contact	No No
OFF delay	No
switching function	Ma
flashing symmetrically with interval start/instantaneous flashing symmetrically with interval start	No No
flashing symmetrically with interval start	No No
flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start	No No
 flashing symmetrically with pulse start flashing asymmetrically with interval start 	No No
	No
flashing asymmetrically with pulse start switching function	INU
star-delta circuit with delay time	No
star-delta circuit with delay time star-delta circuit	Yes
switching function with control signal	
additive ON-delay	No
passing break contact	No
passing break contact 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	2
• instantaneous contact	0
number of CO contacts	
delayed switching	0

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	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 delay 	No		
non-volatile	No		
Electromagnetic compatibility			
EMC immunity according to IEC 61812-1	EN 61000-6-2		
conducted interference			
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection		
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV		
due to conductor-conductor surge according to IEC 61000-4-5	1 kV		
field-based interference according to IEC 61000-4-3	10 V/m		
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge		
Safety related data			
category according to EN 954-1	none		
type of insulation	Basic insulation		
Connections/ Terminals			
product component 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	4x (0.2 2.5 mm²)		
Solid Finally attracted with page and processing	1x (0.25 2.5 mm²)		
finely stranded with core end processing	1x (0.25 1.5 mm²)		
finely stranded without core end processing for AWC cables solid.	1x (0.2 1.5 mm²)		
 for AWG cables solid for AWG cables stranded 	1x (24 14)		
Tor AWG caples stranged connectable conductor cross-section	1x (24 14)		
Solid	0.2 2.5 m²		
finely stranded with core end processing	0.25 1.5 m ²		
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	5.2 1.0		
• solid	24 14		
stranded	24 14		
Installation/ mounting/ dimensions			
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		
mbient 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 %		
invironmental footprint			
Environmental Product Declaration(EPD)	Yes		
Global Warming Potential [CO2 eq] total	22.4 kg		
Global Warming Potential [CO2 eq] during manufacturing	1.34 kg		
Global Warming Potential [CO2 eq] during operation	21.2 kg		
global warming potential [CO2 eq] after end of life	-0.156 kg		
Approvals Certificates			
General Product Approval		EMC	Declaration of Conformity

Confirmation











Declaration of Conformity

Test Certificates

other

Environment



Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=7PV1578-1BW30

Cax online generator

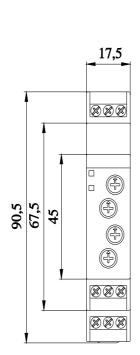
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1578-1BW30

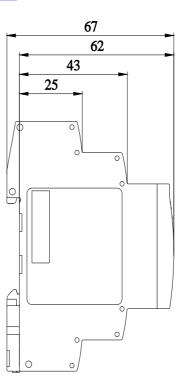
https://support.industry.siemens.com/cs/ww/en/ps/7PV1578-1BW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1578-1BW30&lang=en

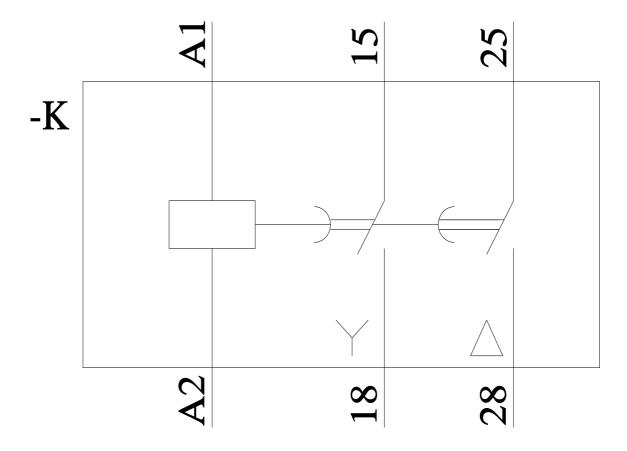
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/7PV1578-1BW30/manual





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



last modified: 11/1/2023 🖸