

7PV15 timing relays in enclosure, 17.5 mm

Overview



7PV15 timing relay

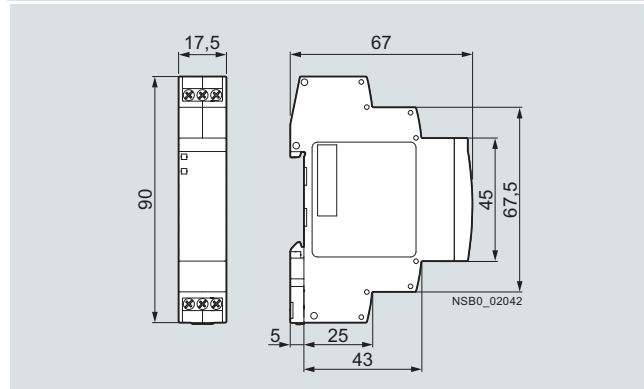
Standards

The timing relays comply with:

- EN 60721-3-3
"Environmental conditions"
- EN 61812-1
"Specified time relays for industrial use"
- EN 61000-6-2 and EN 61000-6-4
"Electromagnetic compatibility"
- EN 60947-5-1
"Low-voltage switchgear and controlgear – Electromechanical control circuit devices"
- DIN 43880
"Modular installation devices; enclosure dimensions and related mounting dimensions"

Enclosure version

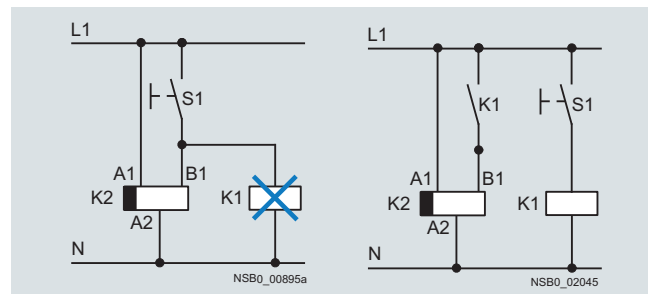
All timing relays are suitable for snap-on mounting onto TH 35 standard mounting rails according to EN 60715. The enclosure complies with DIN 43880, 1 MW.



Dimensions

Note:

The activation of loads parallel to the start input is not permissible when using AC control voltage (see diagrams).



Diagrams

Order No. scheme

Digit of the Order No.	1st - 5th	6th	7th	8th	9th	10th	11th	12th
	□□□□□	□	□	-	□	□	□	0
Timing relays in industrial enclosure, 17.5 mm	7 P V 1 5							
Functions/time setting ranges		□	□					
Connection type				□				
Contacts					□			
Rated control supply voltage						□	□	
Example	7	P	V	1	5	0	8	- 1 A W 3 0

Note:

The Order No. scheme is presented here merely for information purposes and for better understanding of the logic behind the order numbers.

For your orders, please use the order numbers quote in the catalog in the Selection and ordering data.

Benefits

- Wide voltage range 12 to 240 V AC/DC
- High switching capacity, e.g. AC-15 at 230 V, 3 A
- Combination voltage, e.g. 24 V AC/DC and 200 to 240 V AC
- Changes to the time setting range during operation
- Changes to the function in the de-energized state
- High level of functionality and a high repeat accuracy of timer settings
- Integrated surge suppressor
- Function charts printed on the side of the device for reliable device adjustment


Application

Timing relays are used in control, starting and protective circuits for all switching operations involving time delays, e.g. in functional buildings, airports, industrial buildings etc.

Timing Relays

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Technical specifications

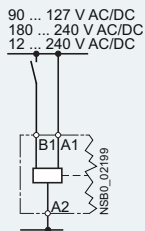
Type	7PV15	
Rated insulation voltage Pollution degree 2, overvoltage category III	V AC	300
Permissible ambient temperature • During operation • During storage	°C °C	-25 ... +55 -40 ... +70
Operating range at excitation¹⁾		0.85 ... 1.1 x U_s at V AC/DC, 50/60 Hz 0.8 ... 1.25 x U_s 24 V DC 0.95 ... 1.05 times the rate frequency
Rated operational current I_g • AC-15 at 24 ... 240 V, 50 Hz • DC-13 at - 24 V - 125 V	A A A	3 1 0.2
Uninterrupted thermal current I_{th}	A	5
Mechanical endurance Operating cycles		1×10^6
Electrical endurance Operating cycles at I_g		1×10^5
Connection type	 Screw terminals	
<ul style="list-style-type: none"> Terminal screw Solid Finely stranded with end sleeve Finely stranded without end sleeve AWG cables, solid or stranded Tightening torque 	mm ² mm ² mm ² AWG Nm	M3 (for standard screwdriver, size 2 and Pozidriv 2) 1 x (0.2 ... 2.5) 1 x (0.25 ... 1.5) 1 x (0.2 ... 1.5) 1 x (24 ... 14) 0.4 ... 0.5

¹⁾ If nothing else is stated.

7PV15 internal schematics (terminal designation to DIN 46199, Part 5)

**7PV15 ...-J30,
7PV15 ...-N30,
7PV15 ...-W30**

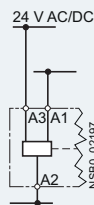
12 ... 240 V AC/DC,
90 ... 127 V AC/DC,
180 ... 240 V AC/DC



Multifunction relays
(for functions see function table),
with ON-delay,
OFF-delay with/without auxiliary voltage,
clock-pulse relay,
wye-delta timing relay

**7PV15 ...-P30,
7PV15 ...-Q30**

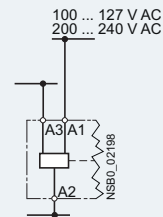
24 V AC/DC



ON-delay

**7PV15 ...-P30,
7PV15 ...-Q30**

100 ... 127 V AC,
200 ... 240 V AC



ON-delay

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Selection and ordering data

Solid-state timing relays for general use and in control systems, mechanical engineering and infrastructure with:

- 1 or 2 CO contacts

- Multifunction or monofunction
- Wide voltage range or combination voltage
- Single or selectable time setting ranges
- Switch position indication and voltage indication by LED



7PV15 08-1AW30



7PV15 12-1AP30



7PV15 18-1AW30



7PV15 38-1AW30



7PV15 40-1AW30



7PV15 58-1AW30



7PV15 78-1BW30

Version	Time setting range t adjustable by rotary switch to	Rated control supply voltage U_s	DT	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG
		AC 50/60 Hz V	DC V	Order No.	Price per PU			
7PV15 08 timing relays, multifunction, 7 time setting ranges								
The functions can be adjusted by means of rotary switches. The same potential must be applied to terminals A. and B.								
With LED and 1 CO contact, 7 functions	0.05 ... 1 s 0.5 ... 10 s 5 ... 100 s	12 ... 240	12 ... 240	▶	7PV15 08-1AW30	1	1 unit	101
With LED and 2 CO contacts, 7 functions	30 s ... 10 min 3 min ... 1 h 30 min ... 10 h 5 ... 100 h	12 ... 240	12 ... 240	▶	7PV15 08-1BW30	1	1 unit	101
7PV15 1. timing relays, ON-delay, 1 time setting range								
With LED and 1 CO contact	0.05 ... 1 s	24/200 ... 240	24	▶	7PV15 11-1AP30	1	1 unit	101
	0.5 ... 10 s	24/100 ... 127	24	▶	7PV15 12-1AQ30	1	1 unit	101
		24/200 ... 240	24	▶	7PV15 12-1AP30	1	1 unit	101
	5 ... 100 s	24/100 ... 127	24	▶	7PV15 13-1AQ30	1	1 unit	101
		24/200 ... 240	24	▶	7PV15 13-1AP30	1	1 unit	101
7PV15 18 timing relays, ON-delay, 7 time setting ranges								
With LED and 1 CO contact	0.05 ... 1 s	12 ... 240	12 ... 240	▶	7PV15 18-1AW30	1	1 unit	101
	0.5 ... 10 s	90 ... 127	90 ... 127	▶	7PV15 18-1AJ30	1	1 unit	101
	5 ... 100 s	180 ... 240	180 ... 240	▶	7PV15 18-1AN30	1	1 unit	101
	30 s ... 10 min 3 min ... 1 h 30 min ... 10 h 5 ... 100 h							
7PV15 38 timing relays, OFF-delay, with auxiliary voltage, 7 time setting ranges								
With LED and 1 CO contact	0.05 ... 1 s 0.5 ... 10 s 5 ... 100 s 30 s ... 10 min 3 min ... 1 h 30 min ... 10 h 5 ... 100 h	12 ... 240	12 ... 240	▶	7PV15 38-1AW30	1	1 unit	101
7PV15 40 timing relays, OFF-delay, without auxiliary voltage, 7 time setting ranges								
With LED and 1 CO contact	0.05 ... 1 s 0.15 ... 3s 0.3 ... 6 s 0.5 ... 10 s 1.5 ... 30 s 3 ... 60 s 5 ... 100 s	12 ... 240	12 ... 240	▶	7PV15 40-1AW30	1	1 unit	101
7PV15 58 timing relays, clock-pulse relay, 7 time setting ranges								
With LED and 1 CO contact	0.05 ... 1 s 0.5 ... 10 s 5 ... 100 s 30 s ... 10 min 3 min ... 1 h 30 min ... 10 h 5 ... 100 h	12 ... 240	12 ... 240	▶	7PV15 58-1AW30	1	1 unit	101
7PV15 78 timing relays, wye-delta function, 7 time setting ranges								
With LED and 2 NO contacts, dead interval 0.05 ... 1 s adjustable	0.05 ... 1 s 0.5 ... 10 s 5 ... 100 s 30 s ... 10 min 3 min ... 1 h 30 min ... 10 h 5 ... 100 h	12 ... 240	12 ... 240	▶	7PV15 78-1BW30	1	1 unit	101

* You can order this quantity or a multiple thereof.
Illustrations are approximate