SIEMENS

Electronic Time Relays

CE

7PV0
IEC 61812-1
IEC 60947-5-1

| 7PV0 712... | 7PV0 723... | 7PV0 732... | 7PV0 742... |

Please read and understand these instructions before installing, operating, or maintaining the equipment.

| ⚠	**DANGER** Hazardous voltage can cause death or serious injury. Disconnect power before working on equipment.
	CAUTION Reliable functioning of the equipment is only ensured with certified components.

NOTICE
This product has been designed for environment A. Use of this product in environment B may cause unwanted electromagnetic disturbances in which case the user may require to take adequate mitigation measures.

Technical Data

Designation	7PV0 712-1AD20	7PV0723-1AZ20	7PV0 732-1AV20	7PV0 742-1CB20	7PV0 742-1CD20
Type	ON delay	Multi-function (10 functions)	Multi-function (15 functions)	Star Delta	
Supply voltage Tolerance	-15% to +10%				
Operating temperature	0 to 50°C				
Time ranges	0.1 --- 1s 1 --- 10s 0.1 --- 1min 1 --- 10min 0.1 --- 1hrs 0.3 --- 3hrs	0.1 --- 1s 1 --- 10s 0.1 --- 1min 1 --- 10min 0.1 --- 1hrs 1 --- 10hrs 2 --- 20hrs	0.1 - 99.9 sec/min/hr 1 - 999 sec/min/hr 0.01 - 9:59 min:sec 0.01 - 9:59 hr:min	0.5-30s (For 30s range) 1-60s (For 60s range)	

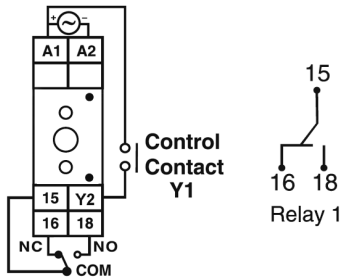**7PV0 712-...**

Terminal connections
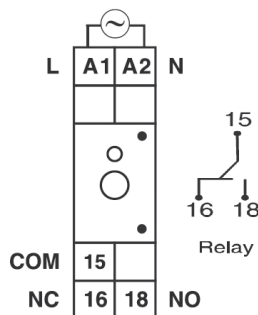
Front Panel description for 7PV0 712... and 7PV0723...
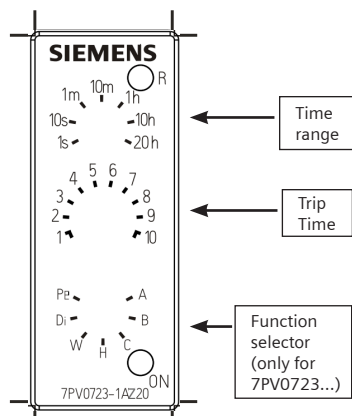
	1	2	3	4	5	6	7	8	9	10
1 s/min/hrs	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
10 s/min/hrs	1	2	3	4	5	6	7	8	9	10
20 hrs	2	4	6	8	10	12	14	16	18	20
3 hrs	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3

(Column headers: Trip Time → / Time range ↓)

Time range

Trip Time

Function selector (only for 7PV0723...)

7PV0723–1AZ20

7PV0 723...

Terminal connections

| LED Indication Chart		
Condition	**'ON' LED** (Red)	**'R' LED** (Green)
Power ON	ON	OFF
Relay ON	ON	ON

Function Selector
On delay (A)
Delay with totalise (At)
Single Shot (B)
Delay on Break (C)
Cyclic equal off first(with external contact) (D)
Cyclic equal on first(Di)
Interval(H)
Interval with Totalise(Ht)
Pulse output(Pe)
Interval after break(W)

7PV0 732...

Terminal connections
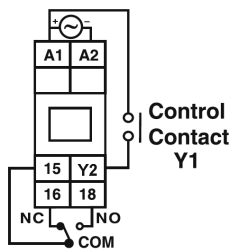
Front Panel description
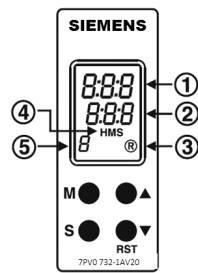
	On line	**Config.**	**Front Reset**
①	Process time	Parameter name	
②	Set time	Parameter Options	
③	Output Status (Lit when O/P is ON)		
④	Time Range (Blink in online Mode)		
⑤	Operating Mode		

7PV0 742...

Terminal connections
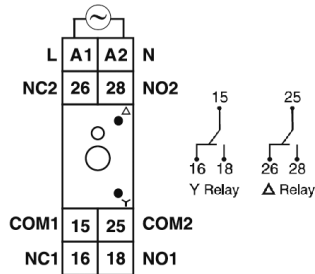
Time Range setting
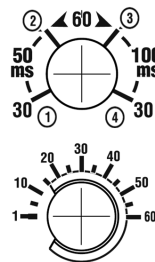
Run-up Time setting

	Run-up Time	**Pause Time**
①	30sec	50ms
②	60sec	50ms
③	60sec	100ms
④	30sec	100ms

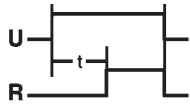| Time range → Time range ↓	1	10	20	30	40	50	60
30 sec	0.5	5	10	15	20	25	30
60 sec	1	10	20	30	40	50	60

Circuit diagram
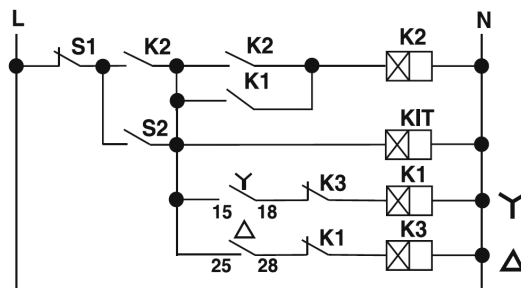
S1 : STOP PB
S2 : START PB
K1 : Star Contactor
K2 : Line Contactor
K3 : Delta Contactor
KIT : Timer

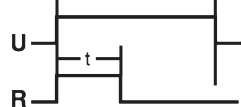| For 7PV0...	
	0.6 Nm
Solid	1 x (0.75... 2.5) mm^2 2 x 0.5 to 2 x 1.5 mm^2
Stranded with end sleeve	1 x 0.5... 2.5 mm^2 2 x 0.5... 1.5 mm^2

Timing Diagram

7PV0732 (Digital 15 func) / 7PV0723 (10 func)

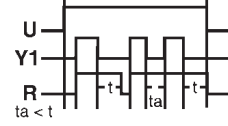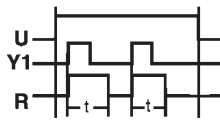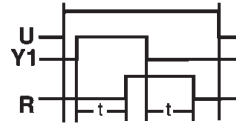| A. ON delay	B/H. Interval	T. Delay on break with Totalise At. Delay with totalise	J/C. Delay on Break
		 Set trip time = t = a + b	
P/B. Single Shot	U/Ht. Interval with Totalise	L/W. Interval after Break	D. Cyclic equal off first # (with external contact)
	 Set trip time = t = a + b		
F/Di. Cycle equal (ON 1st)	Pe. Pulse output #	H. Pulse output*	C. Asym. cyclic (OFF 1st)*
	 P = Pulse time		
D. Asym. cyclic (ON 1st)*	E. Cycle Equal (OFF 1st)*	K. Delay on Make/Break*	Q. Retriggerable Single shot*
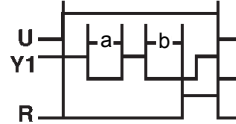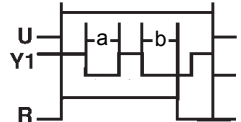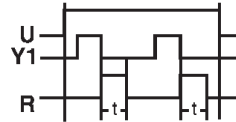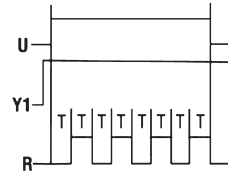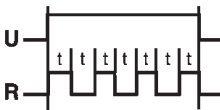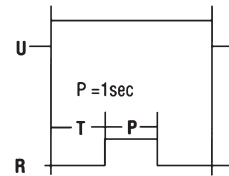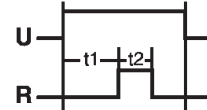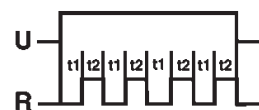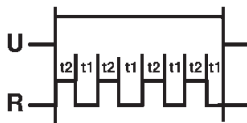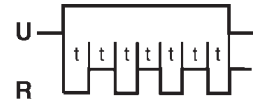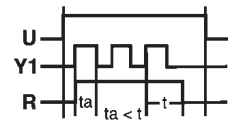
R. Latching Relay*
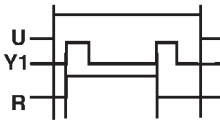
t or T = set time delay, t1 = off time, t2 = on time, # only for 7PV0723, * only for 7PV0732
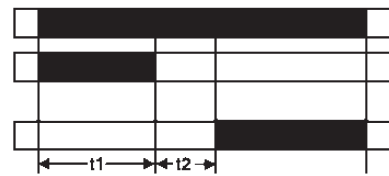
7PV0 712-1AD20

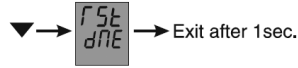ON delay
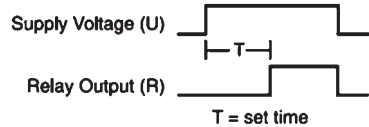
7PV0 742-1C.20

Configuration Mode

1. Enter by pressing the key **'M'** for 3 sec.
2. Scroll the parameters by pressing the key **'S'**
3. Change the parameter value by pressing the ▲ / ▼ key.
4. Exit config. mode by pressing the key **'M'** for 3sec. [All parameters are saved in memory when unit exits from config. mode.]

Output Modes → Use the ▲ / ▼ key to scroll through various output modes. **Default : ON delay**

'S'

Timer Range → Use the ▲ / ▼ key to scroll through various time ranges. **Default : 999sec.**

'S'

Prompted only for mode **'C,D,H'**

'S'

'S' → Use the ▲ / ▼ key to scroll through various options. **Default : Yes**

'S'
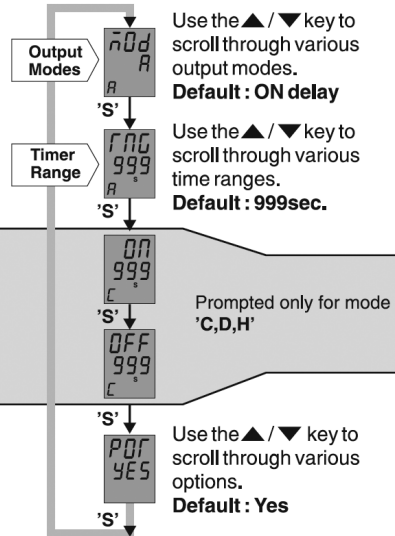
Front Reset

1. Enter by pressing the ▼ key for 5sec.
   (* The unit will auto exit reset mode after 1sec.)

▼ → [rSt dnE] → Exit after 1sec.

Time Set Mode

1) If the mode is ON delay

'S' → [SEt 99.9 A] → 'S' → [SEt 99.0 A] → 'S' → [SEt 90.9 A] → 'S' → Exit

2) If the mode is C,D,H

'S' → [On 99.9 C] → 'S' → [On 99.0 C] → 'S' → [On 90.9 C] → 'S' →

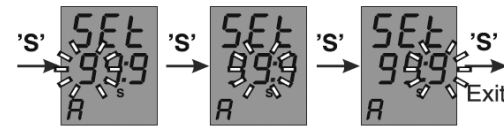→ [OFF 99.9 C] → 'S' → [OFF 99.0 C] → 'S' → [OFF 90.9 C] → 'S' → Exit
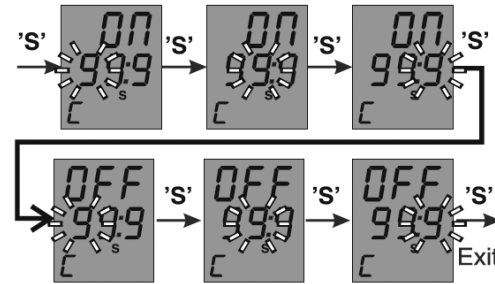
Time Set Mode
1. Enter by pressing the key 'S' for 5 sec.
2. Press the key 'S' to select next digit.
3. If 'S' key is pressed when cursor is at the right most position [and the parameter being set is not the last one] the next parameter is displayed. And if it is the last parameter then it exits the time set mode and all parameters are stored in memory.

Dimensional drawings

7PV0 712...
7PV0 742...

44mm
45mm
67.5mm
35.3mm
90mm
17.5 mm
60mm

7PV0 723...

44mm
45mm
67.5mm
35.3mm
90mm
17.5 mm
60mm

7PV0 732...

44mm
45mm
67.5mm
35.3mm
90mm
17.5 mm
60mm
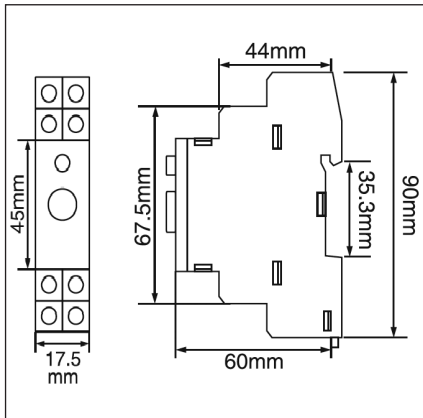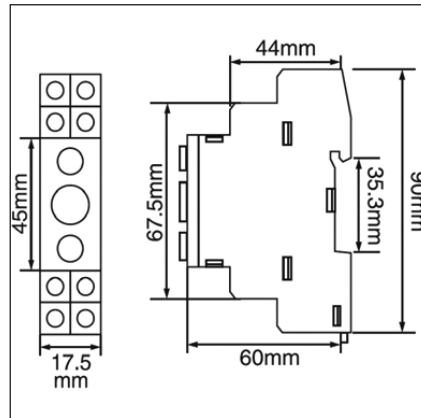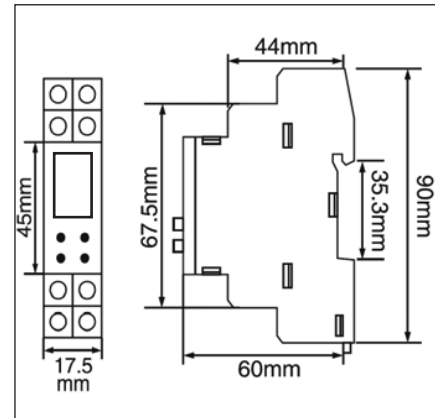
Disposal

Siemens product are environment friendly, which predominantly consist of recyclable materials.

For disposals we recommend disassembling and separation into following materials:

METALS: Segregate into Ferrous & Non Ferrous types for recycling through authorised dealer.

PLASTICS: Segregate as per material type for recycling through authorised dealer. Because of the long lifetime of Siemens products the disposal guidelines may be replaced by other national regulations when taking the product out of service.

The local customer care service is available at any time to answer disposal-related questions