86 Series - Timer modules





Series

Туре

Tim on module

Ordering information





No. of poles See 40, 44, 46, 55, 56, 60 and 62 series relays Poles for chosen relay/socket combination according to chart below

Number of volce

Dalauthana

Supply version

0 = AC (50/60 Hz)/DC8 = AC (50/60 Hz)

Combination

Number of poles	Keidy Type	Jocker Type	
1	40.31	95.03	86.30
1	40.61	95.05	86.30
1	46.61	97.01/97.51	86.30
2	40.52/44.52/44.62	95.05/95.55	86.30
2	46.52	97.02/97.52	86.30
2	55.32	94.02	86.30
2	56.32	96.02	86.30
2	60.12	90.02	86.00/86.30
2	62.32	92.03	86.00/86.30
3	55.33	94.03	86.30
3	60.13	90.03	86.00/86.30
3	62.33	92.03	86.00/86.30
4	55.34	94.04	86.30
4	56.34	96.04	86.00/86.30

Contraction

Technical data

EMC specifications						
Type of test			Reference standard	86.00	86.30	
Electrostatic discharge		contact discharge	EN 61000-4-2	4 kV	n.a.	
		air discharge	EN 61000-4-2	8 kV	8 kV	
Radio-frequency electromagneti	c field (80	÷ 1000 MHz)	EN 61000-4-3	10 V/m	10 V/m	
Fast transients (burst) (5-50 ns, s	5 kHz) on 3	Supply terminals	EN 61000-4-4	4 kV	2 kV	
Surges (1.2/50 µs) on Supply terminals common mode		EN 61000-4-5	4 kV	2 kV		
	differential mode		EN 61000-4-5	4 kV	1 kV	
Radio-frequency common mode (0.15 ÷ 80 MHz)			EN 61000-4-6	10 V	10 V	
on Supply terminals						
Radiated and conducted emissi	on		EN 55022	class B	class B	
Other data			86.00	86.30	1	
Current absorption on signal co	ntrol (B1)	m	A 1	_		
Power lost to the environment		without contact current V	V 0.1 (12 V) - 1 (230 V)	0.2	0.2	
		with rated current	See 56, 60 and 62 series relays	See 40, 44, 46 series relays	6, 55, 56, 60, 62	
T ¹						
1 ime scales	2 3		3 1 2 3 1 2 3			

NOTE: Time scales and functions must be set before energising the timer.

(5...100)s

(0.5...10)s

(0.05...1)s

To achieve the minimum time setting of 0.05 seconds it is necessary to use one of the functions with signal START. When setting very short times it may be necessary to take into account the operate time of the relay used.

(5...100)min

(0.5...10)h

(5...100)h

(0.5...10)min



86 Series - Timer modules

Functions

- U = Supply voltage
- **S** = Signal switch
- = Output contact

LED Type 86.00	LED Type 86.30	Supply voltage	NO output contact
		OFF	Open
		ON	Open
		ON	Open (timing in progress)
		ON	Closed

Without signal Start= Start via contact in supply line (A1). With signal Start = Start via contact into control terminal (B1).





(AI) On-delay.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.

(DI) Interval.

Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.

86 Series - Sockets and accessories



Approvals (according to type):



Screw terminal (Box clamp) socket		90.02	90.02.0	90.03	90.03.0
panel or 35 mm rail (EN 60715) mount		Blue	Black	Blue	Black
For relay type		60.12		60.13	
Accessories					
Metal retaining clip		090.33			
6-way jumper link		090.06			
Identification tag		090.00.2			
Timer module		86.00, 86.30)		
Technical data					
Double terminal A1 (for easy start connection)					
Rated values		10 A - 250 V			
Dielectric strength		2 kV AC			
Protection category		IP 20			
Ambient temperature	°C	-40+70			
Screw torque	Nm	0.6			
Wire strip length	mm	10			
Max. wire size for 90.02 and 90.03 sockets		solid wire		stranded wire	
	mm ²	1x6 / 2x2.5		1x4 / 2x2.5	
	AWG	1x10/2x14		1x12 / 2x14	







86 Series - Sockets and accessories



Approvals (according to type):



Screw terminal (Box clamp) socket	92.03	92.03.0	
panel or 35 mm rail (EN 60715) mount	Blue	Black	
For relay type	62.32, 62.33		
Accessories			
Metal retaining clip (supplied with socket - packaging code SMA)	092.71		
Identification tag	092.00.2		
Timer modules	86.00, 86.30		
Technical data			
Rated values	16 A - 250 V		
Dielectric strength	6 kV (1.2/50 µs) between coil and contacts		
Protection category	IP 20		
Ambient temperature °C	-40+70		
Screw torque Nm	0.8		
Wire strip length mm	10		
Max. wire size for 92.03 socket	solid wire	stranded wire	
mm ²	1x10 / 2x4	1x6 / 2x4	
AWG	1x8 / 2x12	1x10 / 2x12	





Approvals (according to type):







060.72

Screw terminal (Box clamp) socket		94.02	94.02.0	94.03	94.03.0	94.04	94.04.0
panel or 35 mm rail (EN 60715) mount		Blue	Black	Blue	Black	Blue	Black
For relay type		55.32		55.33		55.32, 5	5.34
Accessories						I	
Metal retaining clip				094	1.71		
Plastic retaining and release clip		094.91.3	094.91.30	094.91.3	094.91.30	094.91.3	094.91.30
(supplied with socket - packaging code SPA)							
6-way jumper link		094.06	094.06.0	094.06	094.06.0	094.06	094.06.0
Identification tag		094.00.4					
Timer modules		86.30					
Sheet of marker tags for retaining and release clip 0 ⁴	94.01			060).72		
plastic, 72 tags, 6x12 mm							
Technical data							
Rated values		10 A - 23	50 V				
Dielectric strength		2 kV AC					
Protection category		IP 20					
Ambient temperature	°C	-40+7	0				
Screw torque	Nm	0.5					
Wire strip length	mm	8					
Max. wire size for 94.02/03/04 sockets		solid wire	e		stranded v	wire	
	mm ²	1x6 / 2x	2.5		1x4 / 2x	2.5	
	AWG	1x10/2	2x14		1x12/2	x14	









Approvals (according to type):





0	Ϊđ	11	ī	Ē	ñ	ũ	E	Ĩ	Ő.	ĩ	i
đi	6	ě.	91	Ē	ñ	ii		5i	6	ĥ	i
č.	ii	<u>ê</u> i	ē1	i.	ñ	ŧ٦	1	ĥ	81	5	i
	Ē9	Ē.	ī	1	i	i	Q	li	Ē	ĥ	į

060.72

Screw terminal (Box clamp) socket	95.03	95.03.0	95.05	95.05.0
panel or 35 mm rail (EN 60715) mount	Blue	Black	Blue	Black
For relay type	40.31		40.51/52/	61, 44.52/62
Accessories			'	
Metal retaining clip		095	5.71	
Plastic retaining and release clip	095.01	095.01.0	095.01	095.01.0
(supplied with socket - packaging code SPA)				
8-way jumper link	095.18	095.18.0	095.18	095.18.0
Identification tag		095.	.00.4	
Timer modules	86.30			
Sheet of marker tags for retaining and release clip 095.01		060).72	
plastic, 72 tags, 6x12 mm				
Technical data				
Rated values	10 A - 250 V	*		
Dielectric strength	6 kV (1.2/50	µs) between co	oil and contacts	
Protection category	IP 20			
Ambient temperature °C	-40+70			
Screw torque Nm	0.5			
Wire strip length mm	8			
Max. wire size for 95.03 and 95.05 sockets	solid wire		stranded wire	
mm²	1x6 / 2x2.5		1x4 / 2x2.5	
AWG	1x10 / 2x14		1x12 / 2x14	

* For currents >10 A, contact terminals must be connected in parallel (21 with 11, 24 with 14, 22 with 12).





8-way jumper link for 95.03 and 95.05 sockets	095.18 (blue)	095.18.0 (black)
Rated values	10 A - 250 V	
³		



Approvals (according to type):





060.72



21- 11- сом

A2 A1 COIL

NC

241 141 NO

Screwless terminal socket	95.55	95.55.0	
panel or 35 mm rail (EN 60715) mount	Blue	Black	
For relay type	40.51/52/61, 44.52/62		
Accessories			
Metal retaining clip	095	5.71	
Plastic retaining and release clip	095.91.3	095.91.30	
(supplied with socket - packaging code SPA)			
Timer modules	86.30		
Sheet of marker tags for retaining and release clip 095.91.3	060).72	
plastic, 72 tags, 6x12 mm			
Technical data			
Rated values	10 A - 250 V		
Dielectric strength	6 kV (1.2/50 µs) between coil and contacts		
Protection category	IP 20		
Ambient temperature °C	-25+70		
Wire strip length mm	8		
Max. wire size for 95.55 socket	solid wire	stranded wire	
mm ²	2x(0.21.5)	2x(0.21.5)	
AWG	2x(2418)	2x(2418)	

86 Series - Sockets and accessories



ę

30.3

百

22.6 32.5

--[---

 37

95.55 + 095.91.3



96.04

Approvals (according to type):







96.02 96.02.0 96.04 96.04.0 Screw terminal (Box clamp) socket panel or 35 mm rail (EN 60715) mount Blue Black Black Blue For relay type 56.32 56.34 Accessories Metal retaining clip (supplied with socket - packaging code SMA) 094.71 096.71 094.91.3 094.91.30 Plastic retaining and release clip _ (supplied with socket - packaging code SPA) 6-way jumper link 094.06 094.06.0 _ Identification tag 095.00.4 090.00.2 Timer modules 86.30 86.00, 86.30 Sheet of marker tags for retaining and release clip 094.91.3 060.72 plastic, 72 tags, 6x12 mm Technical data Rated values 12 A - 250 V Dielectric strength 2 kV AC IP 20 Protection category °C -40...+70 Ambient temperature Screw torque Nm 0.8 Wire strip length 8 mm Max. wire size for 96.02/04 sockets solid wire stranded wire 1x6 / 2x2.5 1x4 / 2x2.5 mm² 1x12 / 2x14 AWG 1x10 / 2x14





43.4

0,00,00,00,00,00

0

25.5

35.4

21.6

094.06 (blue)

10 A - 250 V

3.5

Π

29

0

0 0 0 0

82.5



96.02 96.02 + 56.32 + 094.91.3 + 86.30

6-way jumper link for 96.02 socket



_____ ©

96.04 + 56.4 3+ 096.71 + 86.00

094.06.0 (black)

48.2

~	
094.06	1



97.01

Approvals (according to type):





Screw terminal socket		97.01	97.02
panel or 35 mm rail (EN 60715) mount		Blue	Blue
For relay type		46.61	46.52
Accessories			
Plastic retain and eject clip		097.01	
(supplied with socket - packaging code SPA)			
8-way jumper link		095.18 (blue)	095.18.0 (black)
Identification tag		095.00.4	
Timer modules		86.30	
Technical data			
Rated current		16 A - 250 V AC	8 A - 250 V AC
Dielectric strength		6 kV (1.2/50 µs) between co	oil and contacts
Protection category		IP 20	
Ambient temperature	°C	-40+70 (see diagram L97)
Screw torque	Nm	0.8	
Wire strip length	mm	8	
Max. wire size for 97.01 and 97.02 sockets		solid wire	stranded wire
	mm ²	1x6 / 2x2.5	1x4 / 2x2.5
	AWG	$1 \times 10 / 2 \times 14$	$1 \times 12 / 2 \times 14$

86 Series - Sockets and accessories

L 97 - Rated current vs ambient temperature (for 46.61 relay / 97.01 socket combination)





8-way jumper link for 97.01 and 97.02 sockets	095.18 (blue)	095.18.0 (black)
Rated values	10 A - 250 V	







Approvals (according to type):





Screwless terminal socket		97.51	97.52
panel or 35 mm rail (EN 60715) mount		Blue	Blue
For relay type		46.61	46.52
Accessories			
Plastic retain and eject clip		097.01	
(supplied with socket - packaging code SPA)			
Timer modules		86.30	
Technical data			
Rated current		10 A - 250 V AC	8 A - 250 V AC
Dielectric strength		6 kV (1.2/50 µs) between coil and contacts	
Protection category		IP 20	
Ambient temperature	°C	-25+70	
Wire strip length	mm	8	
Max. wire size for 97.51 and 97.52 sockets		solid wire	stranded wire
	$\rm mm^2$	2x(0.21.5)	2x(0.21.5)
	AWG	2x(2418)	2x(2418)









97.52 + 46.52 + 097.01 + 86.30