87.02



勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787

Http://www. 100y. com. tw

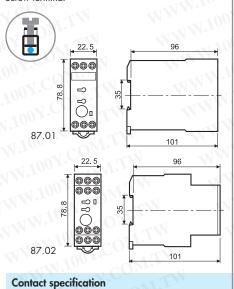
Features

Mono-function and multi-function timer range 22.5 mm wide

87.01 - 1 Pole - Multi-function and multi-voltage 87.02 - 2 Pole - Multi-function and multi-voltage, (timed + instantaneous options) External time setting potentiometer option

- Wide supply voltage range: (24...240)V AC / (24...48)V DC
- LED indicator
- Time setting from 0.05 seconds to 60 hours
- 35 mm rail (EN 60715) mount

87.01 / 87.02 Screw terminal



87.01

Multi-function

On-delay

Interval

Pulse delayed

1 pole

DE:

DI:

Ambient temperature range (Contact current) °C

Protection category

Approvals (according to type)

• 35 mm rail (EN 60715) mount

Off-delay with control signal

Interval with control signal on

EE a: Interval with control signal off

On- and off-delay with control signal

• 2 timed contacts or 1 timed + 1 instantaneous contact • 35 mm rail (EN 60715) mount

Multi-function

BE: Off-delay with control signal On- and off-delay with control signal

• Timing can be regulated using ext. Potentiometer

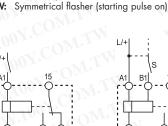
Interval with control signal on

Interval

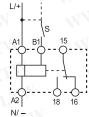
EE a: Interval with control signal off

Pulse delayed

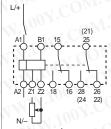
Symmetrical flasher (starting pulse on)



Wiring diagram (without control signal)



Wiring diagram (with control signal)



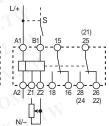
Wiring diagram (without control signal)

2 CO (DPDT)

-20...+60 / -20...+70 (< 5 A)

IP 20

c(UL) us



Wiring diagram (with control signal)

Contact configuration	on
Rated current/Maxi	mυ
Rated voltage/Maxin	nur

Rated current/Maximum pe	eak current A	8/30	8/30
Rated voltage/Maximum sw	itching voltage V AC	250/400	250/400
Rated load AC1	VA	2,000	2,000
Rated load AC15 (230 V A	AC) VA	400	400
Single phase motor rating (230 V AC) kW	0.185	0.185
Breaking capacity DC1: 30	0/110/220 V A	8/0.5/0.2	8/0.5/0.2
Minimum switching load	mW (V/mA)	300 (10/5)	300 (10/5)
Standard contact material	TOO Y. CON'L	AgCdO	AgCdO
Supply specification	100 Y.C.		LW W. 1003.
Nominal voltage (U _N)	V AC (50/60 Hz)	24240	24240
	V DC	2448	2448
Rated power AC/DC	VA (50 Hz)/W	5/0.5	5/0.5
Operating range	AC AC	(0.851.1)U _N	(0.851.1)U _N
	DC DC	(0.851.2)U _N	(0.851.2)U _N
Technical data	MM. TOUX'C		WITH WWW.
Specified time range	WWW.Io	See page 6	See page 6
Repeatability	%	± 0.2	± 0.2
Recovery time	ms	50	50
Minimum control impulse	ms	50	50
Setting accuracy-full range	%	± 5	± 5
Electrical life at rated load	in AC1 cycles	100·10³	100·10³

-20...+70

IP 20

CE

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1 CO (SPDT)



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87 Series - Modular timers 5 - 8 A

Features

Mono-function and multi-function timer range 22.5 mm wide

- 87.11 On-delay, multi-voltage 87.21 - Interval, multi-voltage
- 87.31 Symmetrical flasher (starting pulse on), multi-voltage
- 1 Pole output contact
- Wide supply voltage range: (24...240)V AC / (24...48)V DC
- LED indicator
- Types 87.11/21 0.05 seconds to 60 hours Type 87.31 - 0.5 seconds to 10 seconds
- 35 mm rail (EN 60715) mount

my ...

87.11

- Mono-function

AI: On-delay



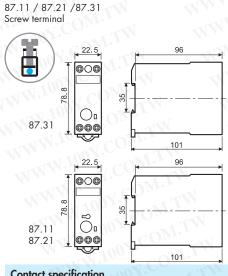
- Mono-function
- 35 mm rail (EN 60715) mount 35 mm rail (EN 60715) mount 35 mm rail (EN 60715) mount

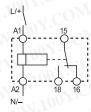


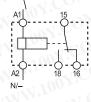
- Mono-function

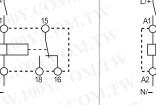
SW: Symmetrical flasher

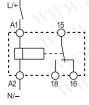
(starting pulse on)

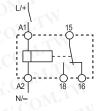












Wiring diagram (without control signal)

Wiring diagram (without control signal)

± 5

 $100 \cdot 10^{3}$

-20...+70

IP 20

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c(UL) us

Wiring diagram (without control signal)

± 5

 $100 \cdot 10^{3}$

-20...+70

IP 20

	101		COM.1	M.Ing A COM.
Contact specification	N.T.W		COM.TW W	11N.1001. COM.1
Contact configuration	MY.COM TW	1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum	peak current A	8/30	8/30	8/30
Rated voltage/Maximum s	witching voltage V AC	250/400	250/400	250/400
Rated load AC1	1100 YA	2,000	2,000	2,000
Rated load AC15 (230 V	AC) VA	400	400	400
Single phase motor rating	g (230 V AC) kW	0.185	0.185	0.185
Breaking capacity DC1:	30/110/220 V A	8/0.5/0.2	8/0.5/0.2	8/0.5/0.2
Minimum switching load	mW (V/mA)	300 (10/5)	300 (10/5)	300 (10/5)
Standard contact materia	L 11/1001	AgCdO	AgCdO	AgCdO
Supply specification	1007.0		W.1007. COM.TW	W 1.100 x
Nominal voltage (U_N)	V AC (50/60 Hz)	24240	24240	24240
	V DC	2448	2448	2448
Rated power AC/DC	VA (50 Hz)/W	5/0.5	5/0.5	5/0.5
Operating range	AC	(0.851.1)U _N	(0.851.1)U _N	(0.851.1)U _N
	DC	(0.851.2)U _N	(0.851.2)U _N	(0.851.2)U _N
Technical data	MAN		WWW.TOOX.Co.	ITW WWW
Specified time range	WWW.I	See page 6	See page 6	See page 6
Repeatability	%	± 0.2	± 0.2	± 0.2
Recovery time	ms	50	50	50

± 5

 $100 \cdot 10^{3}$

-20...+70

IP 20

CE

Minimum control impulse

Setting accuracy-full range Electrical life at rated load in AC1

Ambient temperature range

Approvals (according to type)

Protection category

ms

%

cycles °C **finder**

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87 Series - Modular timers 5 - 8 A

Features

Mono-function and multi-function timer range 22.5 mm wide

- 87.41 Off-delay with control signal, multi-voltage, 1 Pole 87.61 Power off-delay (True off-delay), multi-voltage, 1 Pole 87.62 Power off-delay (True off-delay), multi-voltage, 2 Pole
- Wide supply voltage range: Type 87.41, (24...240)V AC/(24...48)V DC Types 87.61/62, (24...240)V AC/DC
 LED indicator
- Time setting range:
 Type 87.41 0.05 seconds to 60 hours
 Types 87.61/62 0.15 seconds to 10 minutes
 35 mm rail (EN 60715) mount

87.41

- Mono-function
- 1 pole
- 35 mm rail (EN 60715) mount

BE: Off-delay with control signal



- Mono-function
- 1 pole
- 35 mm rail (EN 60715) mount

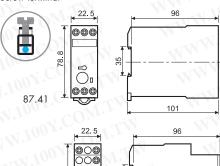
BI: Power off-delay (True off-delay)



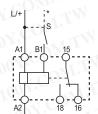
- Mono-function
- 2 pole
- 35 mm rail (EN 60715) mount

BI: Power off-delay (True off-delay)

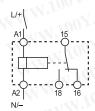
87.41 / 87.61 / 87.62 Screw terminal



101



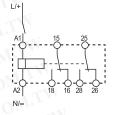




Wiring diagram (without control signal)

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Wiring diagram (without control signal)

Contact specification

Approvals (according to type)

87.62

				T
Contact configuration	WT	1 CO (SPDT)	1 CO (SPDT)	2 CO (DPDT)
Rated current/Maximum pe	eak current A	8/30	5/10	5/10
Rated voltage/Maximum sw	ritching voltage V AC	250/400	250/400	250/400
Rated load AC1	VA	2,000	1,250	1,250
Rated load AC15 (230 V A	AC) VA	400	250	250
Single phase motor rating	(230 V AC) kW	0.185	0.125	0.125
Breaking capacity DC1: 30	0/110/220 V A	8/0.5/0.2	5/0.5/0.2	5/0.5/0.2
Minimum switching load	mW (V/mA)	300 (10/5)	300 (10/5)	300 (10/5)
Standard contact material	100 J. CON'I	AgCdO	AgCdO	AgCdO
Supply specification	100Y.C		M.T.	M. T. TOOL
Nominal voltage (U _N)	V AC (50/60 Hz)	24240	24240	24240
	V DC	2448	24240	24240
Rated power AC/DC	VA (50 Hz)/W	5/0.5	1.5/1.5	1.5/1.5
Operating range	AC AC	(0.851.1)U _N	(0.851.1)U _N	(0.851.1)U _N
	DC DC	(0.851.2)U _N	(0.851.2)U _N	(0.851.2)U _N
Technical data	MM. TOWN.C		W. 100X.Co.	WW 100Y.
Specified time range	WWW.Io	See page 6	See page 6	See page 6
Repeatability	%	± 0.2	±1c0N	± 1
Recovery time	ms	50	200	200
Minimum control impulse	ms	50	800 ms (A1 - A2)	800 ms (A1 - A2)
Setting accuracy-full range	%	± 5	± 5	± 5
Electrical life at rated load	in AC1 cycles	100 · 10 ³	100 · 10³	100 · 10³
Ambient temperature range	e °C	-20+70	-20+70	-20+70
Protection category		IP 20	IP 20	IP 20

c(UL)us

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Http://www.100y.com.tw

87 Series - Modular timers 5 - 8 A

Features

Mono-function and multi-function timer range 22.5 mm wide

87.82 - Star-delta, multi-voltage, star and delta output contacts

87.91 - Multi-function Recycling timer, 1 Pole

- Wide supply range: (24...240)V AC / (24...48)V DC
- LED indicator
- Time setting voltage range: Type 87.82 - 0.05 minute to 1 minute Type 87.91 - 0.05 seconds to 60 hours
- 35 mm rail (EN 60715) mount



87.82

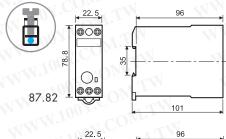
- Mono-function: Star delta
- 35 mm rail (EN 60715) mount



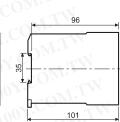


- Multi-function recycling
- 35 mm rail (EN 60715) mount

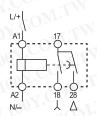
87.82 / 87.91 Screw terminal



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SD: Star-delta



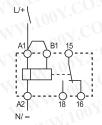
Wiring diagram (without control signal)

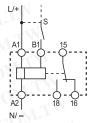
LI: Asymmetrical flasher (starting pulse on) LE: Asymmetrical flasher (starting pulse on)

with control signal

PI: Asymmetrical flasher (starting pulse off)

PE: Asymmetrical flasher (starting pulse off) with control signal





Wiring diagram (without control signal)

Wiring diagram (with control signal)

Contact	specification
---------	---------------

Confact specification	~7/1.1	I The Contract	
Contact configuration	WTI	2 NO (DPST-NO)	1 CO (SPDT)
Rated current/Maximum peak current A		8/30 N	8/30
Rated voltage/Maximum switching voltage V AC		250/400	250/400
Rated load AC1 VA		2,000	2,000
Rated load AC15 (230 V AC) VA		400	400
Single phase motor rating (230 V	AC) kW	0.185	0.185
Breaking capacity DC1: 30/110/220 V A		8/0.5/0.2	8/0.5/0.2
Minimum switching load	mW (V/mA)	300 (10/5)	300 (10/5)
Standard contact material	1001. UM	AgCdO	AgCdO
Supply specification	1100Y.C	LTW WW 100Y.	
Nominal voltage (U _N) V AC	C (50/60 Hz)	24240	24240
W.	V DC	2448	2448
Rated power AC/DC V	A (50 Hz)/W	5/0.5	5/0.5
Operating range	AC	(0.851.1)U _N	(0.851.1)U _N
V	DC	(0.851.2)U _N	(0.851.2)U _N
Technical data	WWW.	CONTRACTOR	
Specified time range	WWW.	See page 6	See page 6
Repeatability	%	± 0.2	± 0.2
Recovery time	ms	50	50
Minimum control impulse	ms	00X:00 NOEW WWW.	50
Setting accuracy-full range	%	± 5	± 5
Electrical life at rated load in AC1	l cycles	100 · 10³	100 · 10³
Ambient temperature range	°C	-20+70	-20+70
Protection category	N M	IP 20	IP 20
Approvals (according to type)	1 W	(€ ©L (c (II) us

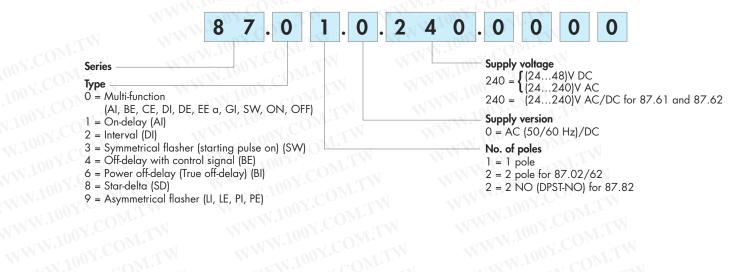


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87 Series - Modular timers 5 - 8 A

Ordering information

Example: 87 series multi-function timer 8 A, 1 CO (SPDT) contact, (24...240)V AC (50/60 Hz) and (24...48)V DC supply.



WWW.100Y.COM.TW Technical data

	That was transferred to the	17.40	4,000		
Dielectric strength	between input and output			M. CO	THE STATE OF THE S
	insulation (1.2/50 µs) betv		6	NN.100 C	
	between open contacts	VAC	1,000	100	OMITY
M. J. C.	between adjacent contac	cts V AC	2,000 (Type 87.02, 87	(.62)	
EMC specifications			NI.		
Type of test	TIV	W 1001.	Reference standard	W 100	7 COM-1
Electrostatic dischar	rge	contact discharge	EN 61000-4-2	8 kV	TIME
WW.I	COMP	air discharge	EN 61000-4-2	8 kV	V.CO.
Radio-frequency ele	ectromagnetic field (80 ÷ 1	000 MHz)	EN 61000-4-3	10 V/m	COM
Fast transients (burs	t) (5-50 ns, 5 kHz) on Supp	oly terminals	EN 61000-4-4	6 kV	$00_{1.}$
Surges (1.2/50 µs)	on Supply terminals	common mode	EN 61000-4-5	4 kV	MTY.CO.
1.11	COM	differential mode	EN 61000-4-5	4 kV	COM
Radio-frequency cor	mmon mode (0.15 ÷ 80 N	NHz) on Supply terminals	EN 61000-4-6	10 V	
Radiated and condu	ucted emission	WW	EN 55022	class B	1100Y. OM.TV
Other data			ON CONTRACT		
Signal control (B1)	- current absorption	W (10 5 (100)	1 mA		MM.100X.COM.
	- when applying a contro		1 4 U// F		coupler, and can therefore
	- when applying a contro different from the suppl ng a control signal to B1 it	ol signal to B1, which is y voltage at A1/A2 is recommended to attach	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240)V AC; ens	ge other than the sup of between (24 48 ure that the signal –	oply voltage JV DC and a supply voltage is connected to A2 and the
	- when applying a contro different from the suppl ng a control signal to B1 it 56 kOhm/2 W across B1	ol signal to B1, which is y voltage at A1/A2 is recommended to attach	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240)V AC; ens + is applied to B1, and Use a 10 kΩ/≥0,25 W When using an external Z2, and set the timer'spot	ge other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its minim	oply voltage)V DC and a supply voltage is connected to A2 and the
a bypass resistance	- when applying a contro different from the suppl ng a control signal to B1 it s 56 kOhm/2 W across B1 ster for 87.02	ol signal to B1, which is y voltage at A1/A2 is recommended to attach	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240)V AC; ens + is applied to B1, and Use a 10 kΩ/≥0,25 W When using an external Z2, and set the timer'spot	pe other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its mini- tentiometer to be the s	oply voltage JV DC and a supply voltage is connected to A2 and the B1 and N to A2 Maximum cable length 10 m e the bridge between Z1 and mum setting. Consider the
a bypass resistance External potentiome	- when applying a contro different from the suppl ng a control signal to B1 it s 56 kOhm/2 W across B1 ster for 87.02	ol signal to B1, which is y voltage at A1/A2 is recommended to attach	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240)V AC; ens + is applied to B1, and Use a 10 kΩ/ ≥ 0,25 W When using an external Z2, and set the timer'spot voltage potential at the po	pe other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its mini- tentiometer to be the s	pply voltage JV DC and a supply voltage is connected to A2 and the B1 and N to A2 Maximum cable length 10 me the bridge between Z1 and mum setting. Consider the ame as the timer supply voltage
a bypass resistance External potentiome	- when applying a contro different from the suppl ng a control signal to B1 it s 56 kOhm/2 W across B1 eter for 87.02	ol signal to B1, which is y voltage at A1/A2 is recommended to attach - A2	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240) V AC; ens + is applied to B1, and Use a $10 \text{ k}\Omega/ \ge 0.25 \text{ W}$ When using an external Z2, and set the timer'spot voltage potential at the po 87.01/02/11/21/31/41/91	pe other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its mini- tentiometer to be the s 87.61/62	pply voltage JV DC and a supply voltage is connected to A2 and the B1 and N to A2 Maximum cable length 10 me the bridge between Z1 and mum setting. Consider the ame as the timer supply voltage 87.82
a bypass resistance External potentiome	- when applying a contro different from the suppl ing a control signal to B1 it is 56 kOhm/2 W across B1 eter for 87.02	ol signal to B1, which is y voltage at A1/A2 is recommended to attach - A2	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240) V AC; ens+ is applied to B1, and Use a $10 \text{ k}\Omega/ \ge 0.25 \text{ W}$ When using an external Z2, and set the timer'spot voltage potential at the positive and S7.01/02/11/21/31/41/91	ge other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its mini- tentiometer to be the s 87.61/62	poly voltage JV DC and a supply voltage is connected to A2 and the B1 and N to A2 Maximum cable length 10 m the the bridge between Z1 and mum setting. Consider the the ame as the timer supply voltage 87.82
a bypass resistance External potentiome Power lost to the en	- when applying a contro different from the suppl ing a control signal to B1 it is 56 kOhm/2 W across B1 eter for 87.02	ol signal to B1, which is y voltage at A1/A2 is recommended to attach - A2 W	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240) V AC; ens + is applied to B1, and Use a $10 \text{ k}\Omega/ \ge 0.25 \text{ W}$ When using an external Z2, and set the timer'spot voltage potential at the po 87.01/02/11/21/31/41/91 5	ge other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its mini- tentiometer to be the s 87.61/62	pply voltage JV DC and a supply voltage is connected to A2 and the B1 and N to A2 Maximum cable length 10 m e the bridge between Z1 and mum setting. Consider the ame as the timer supply voltag 87.82
a bypass resistance External potentiome Power lost to the en	- when applying a contro different from the suppl ing a control signal to B1 it is 56 kOhm/2 W across B1 eter for 87.02	ol signal to B1, which is y voltage at A1/A2 is recommended to attach - A2 W	B1 is isolated from A1 abe operated at a voltage If using a control signal of (24240)V AC; ens + is applied to B1, and Use a 10 kΩ/ ≥ 0,25 W When using an external Z2, and set the timer'spot voltage potential at the po 87.01/02/11/21/31/41/91 5 1.2	pe other than the sup of between (24 48 ure that the signal – that L is applied to linear potentiometer. potentiometer, remove tentiometer to its mini- tentiometer to be the s 87.61/62 1.5	pply voltage JV DC and a supply voltage is connected to A2 and the B1 and N to A2 Maximum cable length 10 m e the bridge between Z1 and mum setting. Consider the ame as the timer supply voltag 87.82



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87 Series - Modular timers 5 - 8 A

Time scales

_	Function	Function WWW.1007.COM.3TW WWY		× 5 1	S	me ra	nges - min	minimu min	m to n	naximu h	m spar	h	ŀ
Туре	Code	Function WY	0.05	-	0.5	0.05		0.5	0.05		0.5	6	
87.01	Al	On-delay On-delay	•	1.100	7.	•	1.1.	•	•	•	•	•	
87.02	BE	Off-delay with control signal	1.	•	1		. •	N •	•	•	•	,	
	CE	On- and off-delay with control signal	~TN	$M^{\bullet}_{T_s}$	•	CO	N	N.	•	•	•	•	
	DI	Interval	11.	. N.	0.	. *(De.	•	•	•	•	•	
	DE	Interval with control signal on	1.	•	100		41	IM	•	•	•	•	
	EE a	Interval with control signal off	•11	U.N	•	1. C	V •	. 1	•	•	•	•	
	GI	Pulse delayed	•		170	• 1		W.	cN.	•	•	•	
	SW	Symmetrical flasher (starting pulse on)	•	•	vi 1	00.	· o	N.J	•	•	•	•	
87.11	Al	On-delay On-delay	•	M.N.	•	100			119	•	•	•	
87.21	DI	Interval	•	*11	NA	•	V.C	D.A.	•1	•	•	•	
87.31	SW	Symmetrical flasher (starting pulse on)				1.10	_7 (ON	1.1	1			
87.41	BE	Off-delay with control signal	•	•//	· .	0XI•\(10.4.	-	V.	•	•	•	
87.61 87.62	BI	Power off-delay (True off-delay)	×1	0.15 2.5	N	0.07 1.3	001	, Č(M. ^T				
87.82	SD	Star-delta (T _U = ~60 ms)				1	700		OM	. 7	7		
87.91	LOO IICO	Asymmetrical flasher (starting pulse on)	1	•	1	•	c1 10	17.	•	1.5	•	•	
	LE C	Asymmetrical flasher (starting pulse on) with control signal	T.	•	• <		•	.Y.	CA.	.•1	N •	•	
	1 PI	Asymmetrical flasher (starting pulse off)	•	•	•	- 10	4.7	• <	· (•0	M.	· N	•	
	PE	Asymmetrical flasher (starting pulse off) with control signal	1.3	•	•	1		100	•	1.	•	•	

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Functions

U = Supply Voltage

S = Signal switch

"zero"

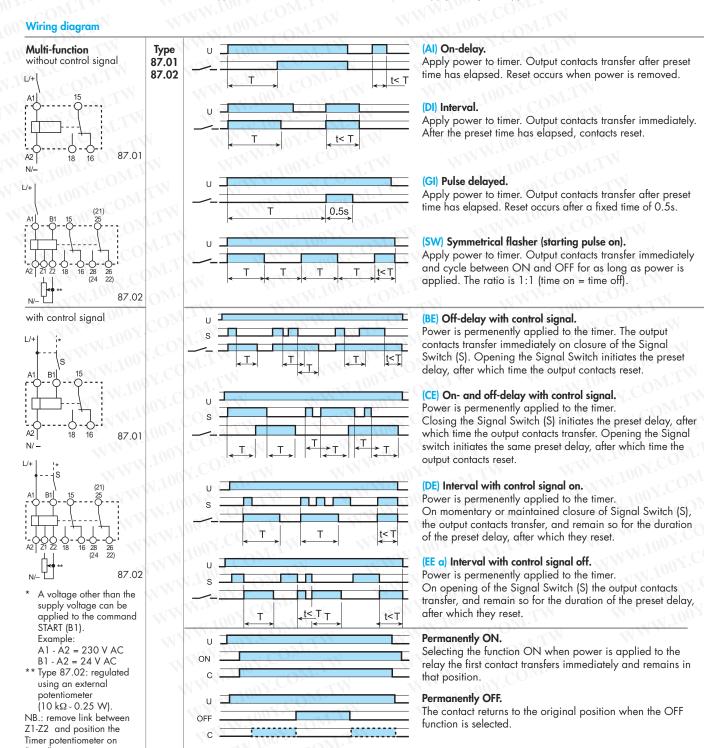
C = Output Contact

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87 Series - Modular timers 5 - 8 A

CED**	Ilming		Contacts Timed			Contacts Instantaneous*		
Green	contac	confact	Open	Closed	DIP switch	Open	Closed	
TOON. COMIT	None	Open	15 - 18 25 - 28*	15 - 16 25 - 26*	Up	21 - 24*	21 - 22*	
TIMPPINIT	In progress	Open	15 - 18 25 - 28*	15 - 16 25 - 26*	 	21 - 22*	21 - 24*	
	In progress	Closed	15 - 16 25 - 26*	15 - 18 25 - 28*		21 - 22*	21 - 24*	
M. TOO Y. COM.	None	Closed	15 - 16 25 - 26*	15 - 18 25 - 28*	Down	21 - 22*	21 - 24*	

- * 25-26-28 only for type 87.02 with 2 timed contacts. 21-22-24 only for type 87.02 with 1 instantaneous contact + 1 timed positioning the front DIP switch.
- ** The LED on types 87.61 and 87.62 is illuminated when supply voltage is supplied to timer.



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Functions

Wiring diagram

