

Features

特力材料886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Mono-function and multi-function timer range

80.01 - Multi-function & multi-voltage

80.11 - ON delay, mono-voltage 80.21 - ON pulse, mono-voltage

- 17.5 mm wide
- Rotary selector
- Six time scales from 0.1s to 20h
- High input/output isolation
- •35 mm rail (EN 50022) mount



80.01



80.11

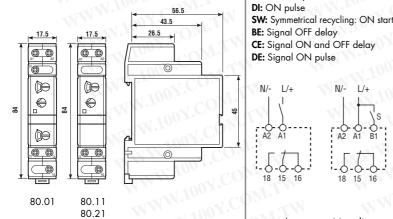


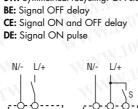
80.21

Multi-function

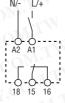
AI: ON delay

- Mono-voltage Mono-function
- Mono-voltage Mono-function









Al: ON delay



DI: ON pulse

wiring diagram wiring diagram (without signal START)

15

(with signal START)

wiring diagram (without signal START)

wiring diagram (without signal START)

Y' -1 1 1 1 2 -				
Contact specification		MAN. TOON CONT. I.	N NN 100	
Contact configuration	1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)	
Rated current/Maximum peak current A	16/30	16/30	16/30	
Rated voltage/Maximum switching voltage V AC	250/400	250/400	250/400	
Rated load AC1 VA	4,000	4,000	4,000	
Rated load AC15 (230 V AC) VA	750	750	750	
Single phase motor rating (230 V AC) kW	0.55	0.55	0.55	
Breaking capacity DC1: 30/110/220 V A	16/0.3/0.12	16/0.3/0.12	16/0.3/0.12	
Minimum switching load mW(V/mA)	500 (10/5)	500 (10/5)	500 (10/5)	
Standard contact material	AgCdO	AgCdO	AgCdO	
Supply specification		WWW. JODY	CON TW	
Nominal voltage (U _N) V AC (50/60 Hz)	12240	24 - 110125 - 230240		
V DC	12240	24 - 110125	24 - 110125	
Rated power AC/DC VA (50 Hz)/W	< 1.8 / < 1.4	< 1.8 / < 0.6	< 1.8 / < 0.6	
Operating range AC	(10.2265)V	(0.851.1)U _N	(0.851.1)U _N	
DC	(10.2265)V	(0.851.1)U _N	(0.851.1)U _N	
Technical data		I. I		
Specified time range	(0.12)s, (120	0)s, (0.12)min, (120)min, (0.	.12)h, (120)h	
Repeatability %	± 1 100 %	± 1	± 1	
Recovery time ms	≤ 50	≤ 50	≤ 50	
Minimum control impulse ms	50	_	_	
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 °C	-10+50	-10+50	-10+50	
Protection category	IP 20	IP 20	IP 20	
Approvals (according to type)		CE (U) us CE		



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80 Series - Modular timers 6 - 8 - 16 A

Features

Mono-function and multi-function timer range 80.41 - Signal OFF delay, mono-voltage

80.61 - True OFF delay, multi-voltage

- 17.5 mm wide
- Rotary selector
- Six time scales from 0.1s to 20h
- High input/output isolation
- 35 mm rail (EN 50022) mount



BE: Signal OFF delay

80.41

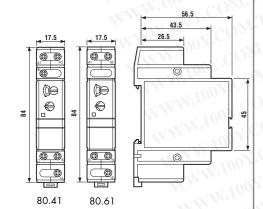
Mono-voltage

Mono-function



• Multi-voltage

Mono-function



BI: True Off Delay

wiring diagram (with signal START)

wiring diagram (without signal START)

IP 20

		1001.	
Contact specification		ON COMMENT	
Contact configuration		1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum pe	ak current A	16/30	8/15
Rated voltage/Maximum swi	tching voltage V AC	250/400	250/400
Rated load AC1	VA	4,000	2,000
Rated load AC15 (230 V A	(C) VA	750	400
Single phase motor rating (2	230 V AC) kW	0.55	C 0.3
Breaking capacity DC1: 30,	/110/220 V A	16/0.3/0.12	8/0.3/0.12
Minimum switching load	mW(V/mA)	500 (10/5)	300 (5/5)
Standard contact material		AgCdO	AgNi
Supply specification		MMM. T. COM. TW	
Nominal voltage (U _N)	V AC (50/60 Hz)	24 - 110125 - 230240	24240
	V DC	24 - 110125	24240
Rated power AC/DC	VA (50 Hz)/W	< 1.8/ < 0.6	< 0.6/ < 0.6
Operating range	AC	(0.851.1)U _N	(17265)V
	DC	(0.851.1)U _N	(17265)V
Technical data		MAN TOO COM	
Specified time range		(0.12)s,(120)s,(0.12)min,(120)min,(0.12)h,(120)h	(0.11)s, (0.55)s, (220)s, (0.22)min
Repeatability	%	±1 100	± 1
Recovery time	ms	≤ 50	≤ 50
Minimum control impulse	ms	50	300 (A1-A2)
Setting accuracy-full range	%	± 5	± 5
Electrical life at rated load i	n AC1 cycles	100·10³	100·10³
Ambient temperature range	°C	-10+50	-10+50

IP 20

CE Uns C

Protection category

Approvals (according to type)

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Features 80.91 80.82

Mono-function and multi-function timer range

80.82 - Star-Delta timer, multi-voltage 80.91 - Asymmetrical recycling, multi-voltage

- 17.5 mm wide
- Rotary selector
- Six time scales from 0.1s to 20h
- High input/output isolation
- 35 mm rail (EN 50022) mount

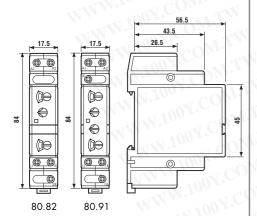




- Mono-function
- Transfer time can be regulated (0.05...1)s

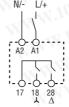


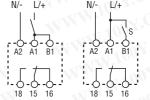
- Multi-voltage
- Mono-function



SD: Star-Delta

LL: Asymmetrical recycling (ON starting) LE: Signal asymmetrical recycling (ON starting)





wiring diagram

wiring diagram

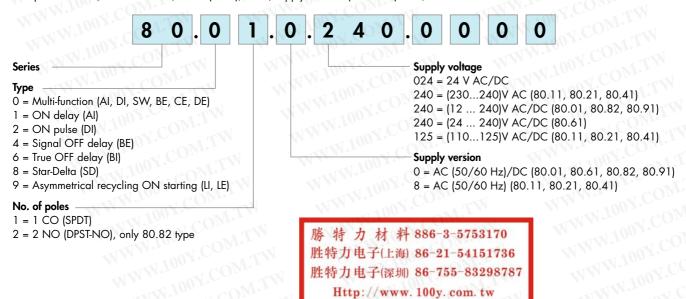
wiring diagram

	MAMITOON	(without signal START)	(without signal START) (with signal START)		
Contact specification	WWW.100	COM TW WWW.100	LCONTAN MAN		
Contact configuration		2 NO (DPST-NO)	1 CO (SPDT)		
Rated current/Maximum pe	eak current A	6/10	16/30		
Rated voltage/Maximum sw	itching voltage V AC	250/400	250/400		
Rated load AC1	VA	1,500	4,000		
Rated load AC15 (230 V A	AC) VA	300	750		
Single phase motor rating (230 V AC) kW	The COMP.	0.55		
Breaking capacity DC1: 30	/110/220 V A	6/0.2/0.12	16/0.3/0.12		
Minimum switching load	mW(V/mA)	500 (12/10)	500 (10/5)		
Standard contact material	W	AgNi	AgCdO		
Supply specification	W		WW. 100X.CO. TW		
Nominal voltage (U _N)	V AC (50/60 Hz)	12240	12240		
	V DC	12240	12240		
Rated power AC/DC	VA (50 Hz)/W	< 1.3/ < 0.8	< 1.8/ < 1.4		
Operating range	AC	(10.2265)V	(10.2265)V		
	DC	(10.2265)V	(10.2265)V		
Technical data					
Specified time range		(0.12)s, (120)s, (0.12)min, (120)min	(0.12)s,(120)s,(0.12)min,(120)min,(0.12)h,(120)h		
Repeatability %		0±1	± 1		
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	60·10³	100·10³		
Ambient temperature range	°C	-10+50	-10+50		
Protection category		IP 20	IP 20		
Approvals (according to type)		CE ON CE			



Ordering information

Example: 80 series, modular timers, 1 CO (SPDT), 16 A, supply rated at (12...240)V AC/DC.



Technical data EMC specifications

EMC specifications					
Type of test	1007	MT.Mo		Reference standard	LA. 11. 100
Electrostatic discharge	M.M.	contact discharge		EN 61000-4-2	4 kV
	WW.Io	air discharge		EN 61000-4-2	8 kV
Radio-frequency electromagnetic fi	ield (80 ÷ 100	O MHz)		EN 61000-4-3	10 V/m
Fast transients (burst) (5-50 ns, 5 k	(Hz) on Supply	terminals		EN 61000-4-4	4 kV
Surges (1.2/50 μs) on Supply terminals		common mode		EN 61000-4-5	4 kV
	. W.W.	differential mode		EN 61000-4-5	4 kV
on start termina	ıl (B1)	common mode		EN 61000-4-5	4 kV
	WW 1	differential mode		EN 61000-4-5	4 kV
Radio-frequency common mode (0).15 ÷ 80 MHz) on Supply terminals		EN 61000-4-6	10 V
Radiated and conducted emission	77	M.Ing COM	. 1	EN 55022	class B
Insulation				W 1 100	
Dielectric strength				80.01/11/21/41/82/91	80.61
be	etween input ar	nd output circuit	V AC	4,000	2,500
be	etween open co	ontacts	V AC	1,000	1,000
Insulation (1.2/50 μs) between inp	put and output		kV	6	1 4
Other data				TW WWW	
Current absorption on signal control (B1)		$CO_{\tilde{N}}$	< 1 mA		
Power lost to the environment	<u>,</u>	without contact current	W	1.4	
	,	with rated current	W	3.2	1100Y.
Screw torque			Nm	0.8	NW. CONTY
Max. wire size				solid cable	stranded cable
			mm ²	1x6 / 2x4	1x4 / 2x2.5
			AWG	1x10 / 2x12	1x12 / 2x14
				N.COM.TW	
Accessories					

Accessories



Sheet of marker tags, for types 80.01/11/21/41/61/82, plastic, 24 tags, 9x17 mm 020.24

80



Functions

U = Supply voltage

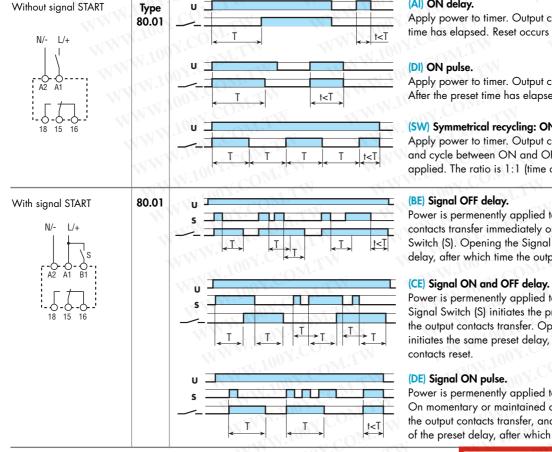
S = Signal switch

_ = Output contact

LED*	Supply	NO output	Contacts	
	voltage	contact	Open	Closed
WWW.100	OFF	Open	15 - 18	15 - 16
TY Y Y Y 10	ON	Open	15 - 18	15 - 16
Щини	ON	Open (Timing in Progress)	15 - 18	15 - 16
MATTER WAY	ON	Closed	15 - 16	15 - 18

^{*} The LED on type 80.61 is illuminated only when the supply voltage is applied to the timer; during the timing period the LED is not illuminated.

Wiring diagram



(AI) ON delay.

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

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

(SW) Symmetrical recycling: ON start.

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

Power is permenently applied to the timer. The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the preset delay, after which time the output contacts reset.

Power is permenently applied to the timer. Closing the Signal Switch (S) initiates the preset delay, after which time the output contacts transfer. Opening the Signal switch initiates the same preset delay, after which time the output

Power is permenently applied to the timer.

On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

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

NOTE: The function must be set before energising the timer.

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With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).



A voltage other than the supply voltage can be applied to the command Start (B1), example:

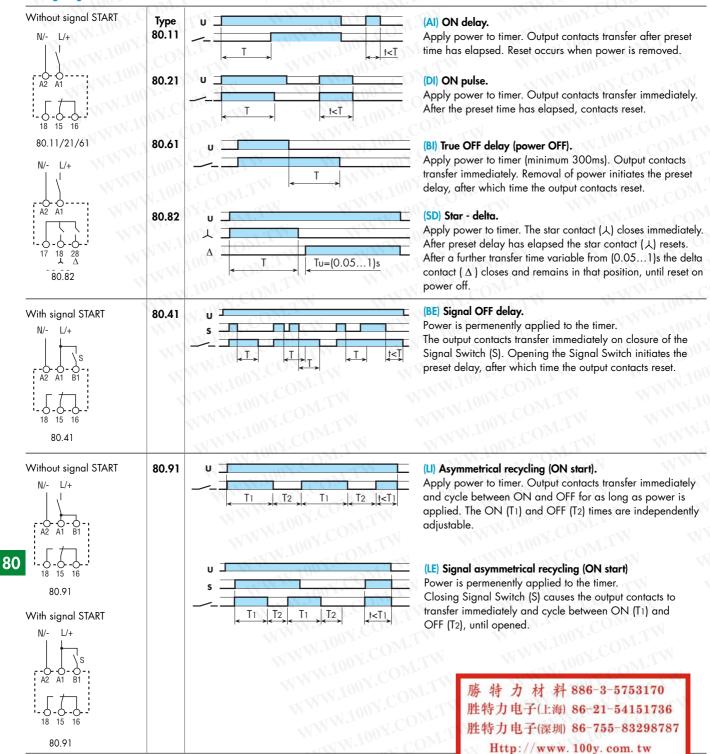
A1 - A2 = 230 V AC

B1 - A2 = 12 V DC



Functions

Wiring diagram



NOTE: The function must be set before energising the timer.



* With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).



 $\star\star$ A voltage other than the supply voltage can be applied to the command Start (B1), example:

A1 - A2 = 230 V AC

B1 - A2 = 12 V DC